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본 보고서는 “갑”과 “을”의 계약조건에 따라 본 과업 외의
타 공사 및 타 업체에 대한 일체의 복사 또는 대여가 불가함.

안산문화예술의전당 별무리극장 무대시설 (정밀안전진단) 결과 보고서

계약기간 : 2025. 4. 29 ~ 8. 31

(현장검사 : 2025. 7. 31 ~ 8. 1 / 2일간)

㈜ 케이알엔지니어링
KR Engineering co., Ltd.

제 출 문

안산문화재단 귀하

귀 재단과의 계약에 의거 “안산문화예술의전당 별무리극장 무대시설 정밀 안전진단 용역”을 완료하고 결과보고서를 제출합니다.

2025년 8월 25일

(주) 케이알엔지니어링
대표이사 장경식



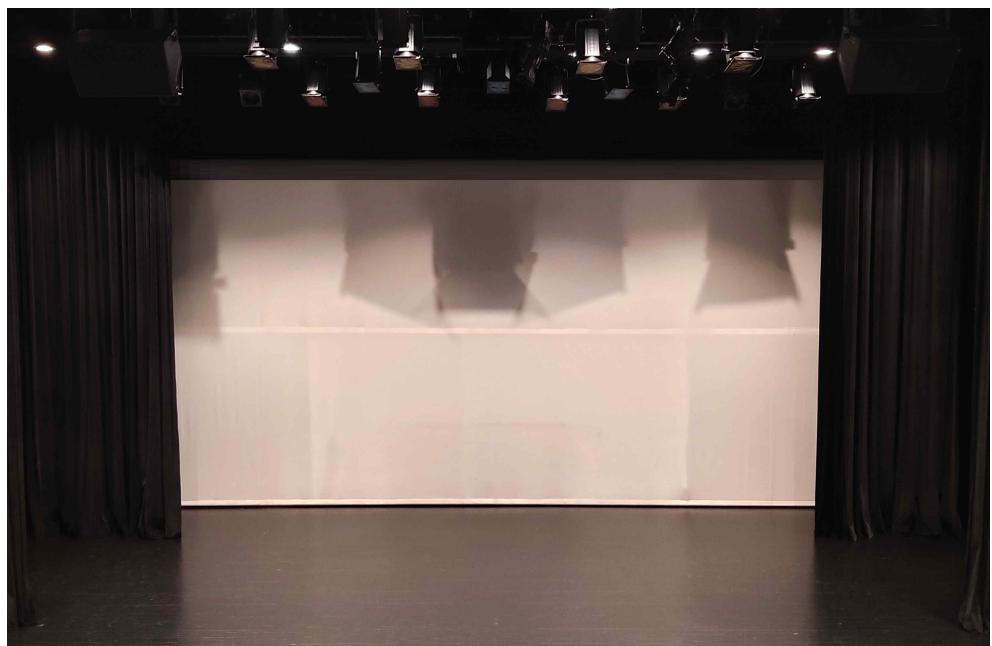
안전진단 참여 인력

순번	성명	담당업무	기술 등급	서명
1	김상태	총괄/기계	고급	
2	김진덕	기계	특급	
3	김성우	전기	특급	
4	박성현	금속	특급	

공연장 전경 사진



안산문화예술의전당 별무리극장 전경(외부)



안산문화예술의전당 별무리극장 전경(내부)

공연장등록증

① 등록번호	2004-000003		등록일자	2004-09-21
설치자	② 기관·법인·단체명	제단법인 안산문화재단		
	③ 기관·법인·단체소재지	경기도 안산시 단원구 화랑로 312 안산문화예술의전당 (고잔동) (전화: 031-481-4000)		
운영자	④ 대표자성명	윤화섭	생년월일	1955년9월5일
	⑤ 대표자주소	경기도 안산시 단원구 원선로 50 107동 1103호 (원곡동, 벽산블루밍아파트) (전화:)		
⑥ 공연장의명칭	별무리극장	⑦ 종류 및 운영형태	<input checked="" type="checkbox"/> 공공 공연장 <input checked="" type="checkbox"/> 직영 <input type="checkbox"/> 수탁 <input type="checkbox"/> 양여 <input type="checkbox"/> 민간 공연장 <input type="checkbox"/> 자가 <input type="checkbox"/> 임차	
⑧ 공연장소재지	경기도 안산시 단원구 화랑로 312 (고잔동) (전화: 031-481-4000)			
⑨ 공연장착공일자	2000-11-15		⑩ 공연장사용승인일자	2004-09-21
⑪ 공연장시설설치내역 (※무대기계·기구수는 영 제10조제6항의 규정에 의한 고시에 따라 산출 기재)	건축면적	316.00 m ²	무대면적	316.00 m ²
	무대기계 · 기구수	구동식	42 개	
		고정식	개	
객석수	200 개	객석이 되는 바닥면적	316.00 m ²	
⑫ 변경등록사항	(뒤쪽에 기재)			
⑬ 무대시설 안전진단 결과 기록사항	(뒤쪽에 기재)			

공연법 제9조 및 동법시행령 제8조의 규정에 의하여 위와 같이 공연장등록을 하였음을 증명합니다.

2004년 09월 21일

경기도 안산시장



정밀안전진단 실시결과 요약문

1. 용역명 : 안산문화예술의전당 별무리극장 무대시설 정밀안전진단

2. 용역 기간

2.1 계약 기간 : 2025. 4. 29 ~ 8. 31

2.2 현장검사 기간 : 2025. 7. 31 ~ 8. 1 (2일간)

3. 정밀안전진단 목적

공연장 무대시설에 대하여 공연법 제12조, 동법시행령 제10조 및 공연장 무대시설 안전진단 시행세칙(문화체육관광부 고시 제2023-51호, 2023년 11월 8일) 제8조의 정밀 안전진단에 따라 규격 및 사양 확인, 면밀한 육안검사와 장비(계측기)를 이용한 설치상태 및 구조검사, 운전검사 및 구동검사를 실시하여 잠재된 결함과 위험요소를 사전에 발견하고 그 발견된 문제점에 대해서는 적절한 대책을 권고함으로써 운영자가 신속하고 적절한 조치를 취하여 안전성과 신뢰성이 확보된 시설물로 유지 및 관리도록 하는데 그 목적이 있다.

4. 공연장 및 무대시설 개요

시설	구분	수량	무대 시설명
상부 무대 시설	방화막	-	
	막 시설	32	Hoist, Horizont Curtain 외
	음향시설	-	
	조명시설	10	Light Bridge 외
하부 무대 시설	연주승강무대	-	
	회전무대	-	
	승강무대	-	
	이동무대	-	
합계		42	

5. 정밀안전진단 결과 요약

공연법 제12조, 동법시행령 제10조 및 공연장 무대시설 안전진단

시행세칙(문화체육관광부 고시 제2023-51호, 2023년 11월 8일) 제8조의 정밀안전진단 기준에 따라 검사를 실시 하였으며, 항목별 검사결과를 요약하면 다음과 같다.

5.1 무대 시설 공통지적사항

No.	무대 시설명	지적사항	평가				
			교체	보수	수정	주의	권고
1	상부 구동부	장치봉, 조명봉, Hook Block(Hoist) 적재하중 및 무대 시설명 표기 누락	-	-	○	-	-
2	배전반 및 제어반	특이사항 없음	-	-	-	-	-
3	조작반	특이사항 없음	-	-	-	-	-

5.2 상부 무대 시설별 지적사항 (42조)

No.	무대 시설명	지적사항	평가				
			교체	보수	수정	주의	권고
1	No.1 Light Bridge	특이사항 없음	-	-	-	-	-
2	No.2 Light Bridge	특이사항 없음	-	-	-	-	-
3	No.3 Light Bridge	특이사항 없음	-	-	-	-	-
4	No.4 Light Bridge	특이사항 없음	-	-	-	-	-
5	No.5 Light Bridge	특이사항 없음	-	-	-	-	-
6	No.6 Light Bridge	특이사항 없음	-	-	-	-	-
7	No.7 Light Bridge	특이사항 없음	-	-	-	-	-
8	No.8 Light Bridge	특이사항 없음	-	-	-	-	-
9	No.9 Light Bridge	특이사항 없음	-	-	-	-	-
10	No.10 Light Bridge	특이사항 없음	-	-	-	-	-
11	No.1 Hoist	특이사항 없음	-	-	-	-	-
12	No.2 Hoist	특이사항 없음	-	-	-	-	-
13	No.3 Hoist	특이사항 없음	-	-	-	-	-
14	No.4 Hoist	특이사항 없음	-	-	-	-	-
15	No.5 Hoist	특이사항 없음	-	-	-	-	-
16	No.6 Hoist	특이사항 없음	-	-	-	-	-
17	No.7 Hoist	특이사항 없음	-	-	-	-	-

No.	무대 시설명	지적사항	평가				
			교체	보수	수정	주의	권고
18	No.8 Hoist	특이사항 없음	-	-	-	-	-
19	No.9 Hoist	특이사항 없음	-	-	-	-	-
20	No.10 Hoist	특이사항 없음	-	-	-	-	-
21	No.11 Hoist	특이사항 없음	-	-	-	-	-
22	No.12 Hoist	특이사항 없음	-	-	-	-	-
23	No.13 Hoist	특이사항 없음	-	-	-	-	-
24	No.14 Hoist	특이사항 없음	-	-	-	-	-
25	No.15 Hoist	특이사항 없음	-	-	-	-	-
26	No.16 Hoist	특이사항 없음	-	-	-	-	-
27	No.17 Hoist	특이사항 없음	-	-	-	-	-
28	No.18 Hoist	특이사항 없음	-	-	-	-	-
29	No.19 Hoist	특이사항 없음	-	-	-	-	-
30	No.20 Hoist	특이사항 없음	-	-	-	-	-
31	No.21 Hoist	특이사항 없음	-	-	-	-	-
32	No.22 Hoist	특이사항 없음	-	-	-	-	-
33	No.23 Hoist	특이사항 없음	-	-	-	-	-
34	No.24 Hoist	특이사항 없음	-	-	-	-	-
35	No.25 Hoist	특이사항 없음	-	-	-	-	-
36	No.26 Hoist	특이사항 없음	-	-	-	-	-
37	No.27 Hoist	Motor 단자박스 Cover 탈락	-	-	○	-	-
38	No.28 Hoist	특이사항 없음	-	-	-	-	-
39	No.29 Hoist	특이사항 없음	-	-	-	-	-
40	No.30 Hoist	특이사항 없음	-	-	-	-	-
41	Black Horizont Curtain	Wire Rpoe Clip 체결 수량 부족	-	-	○	-	-
42	White Horizont Curtain	Wire Rpoe Clip 체결 수량 부족	-	-	○	-	-
		Wire Rpoe 변형(kink) 발생	○	-	-	-	-

※ (주) 교체: 신규로 교체가 요구되는 사항.

보수: 수리가 요구되는 사항.

수정: 재조정하여 수정될 수 있는 사항.

주의: 사용상 주의가 필요한 사항.

권고: 안전을 위하여 권장하는 사항.

6. 종합의견

금번 정밀안전진단 결과 전체 설비(상부 구동부, 그리드, 조명설비, 무대 바닥, 제어반, 구조물, 감속기 내부 기어 등)들이 대체로 양호하게 설치, 가동 및 관리되고 있었으나 다음과 같은 문제점이 발견되었으니 향후 계획을 수립하시어 보수 및 교체하시길 권고 드립니다.

정밀안전진단에 비파괴검사(M.T), 정밀진동측정, 감속기 내시경검사 추가.

- 비파괴검사(M.T) 확인결과 특이사항 없음.
- 구동검사 시 정밀진동측정(FFT) 확인결과 특이사항 없음.
- 감속기 내부 내시경 확인결과 특이사항 없음.

일부 지적된 문제점에 대해서는 제2장 정밀안전진단 실시결과의 “3항 결과분석 및 개선방안”에 수록하였으며, 보수 및 정비에 참조하시어 보다 안전하고 효율적인 설비가 되도록 관리하시기 바랍니다.

목 차

제1장 정밀안전진단 개요

1. 목적	2
2. 개요 및 이력사항	2
3. 안전진단 기술기준	3
4. 사용장비 및 기기	4
5. 수행 일정	5

제2장 정밀안전진단 실시결과

1. 무대시설 개요	7
2. 무대 시설별 안전점검 실시결과	12
3. 결과분석 및 개선방안	202

제3장 종합결론 및 건의 사항

1. 무대 시설별 안전수준 및 보완 또는 개보수 요구사항	206
2. 사용제한 무대 시설	208
3. 유지관리 요구사항	208
4. 추가사항	208

[부록]

1. 검사 사진
2. 측정 및 시험성과표 (부하전류, 소음, 속도, 진동, 와이어로프 직경/장력)
3. 무대 시설 현황자료(종합 결과표)
4. 무대시설 유지관리 참고사항

제1장 정밀안전진단 개요

제1장 정밀안전진단 개요

1. 목적

본 안산문화예술의전당 별무리극장 무대시설 정밀안전진단은 무대시설의 전반적인 특성을 고려하여 사용 중 중량물을 상·하 이동하는 중요한 부분과 사용빈도가 많은 부분 및 운전 시 조작자의 운전 실수로 인한 안전사고 발생의 위험성이 높은 부분을 파악하여 다양한 육안 및 계측시험, 가동시험을 통하여 잠재된 설비의 불안전한 상태를 사전에 발견하고, 적절한 보수 대책을 제시하여 안전성과 신뢰성이 향상된 설비가 되도록 합리적인 설비 관리방법을 권고함으로써 효율적인 설비 운용이 되도록 하는데 목적을 두었다.

2. 개요 및 이력사항

2.1 공연장 및 무대시설 개요

시설	구분	수량	무대 시설명
상부 무대 시설	방화막	-	
	막 시설	32	Hoist, Horizont Curtain 외
	음향시설	-	
	조명시설	10	Light Bridge 외
하부 무대 시설	연주승강무대	-	
	회전무대	-	
	승강무대	-	
	이동무대	-	
합계		42	

2.2 공연장 및 무대시설 이력사항

- 1) 공연장명 : 안산문화예술의전당 별무리극장
- 2) 등록번호 / 등록일 : 2004-000003 / 2004년 9월 21일
- 3) 이전 안전검사 종류 및 날짜 : 2022년 8월 (정기 안전검사)
- 4) 차기 안전검사 종류 및 기한 : 2028년 8월 (정기 안전검사)
- 5) 개보수 이력 유무 : 없음.

3. 안전진단 기술기준

본 정밀안전진단은 문화체육관광부 고시 제2023-51호 [별표3] 무대시설 정기 안전 검사기준 및 [별표6] 무대시설 정밀안전진단 기준을 따른다.

[별표3] 무대시설 정기 안전검사 기준(제6조제2항 및 제7조제2항 관련)

[별표6] 무대시설 정밀안전진단 기준(제8조제1항 및 제2항 관련)

4. 사용장비 및 기기

무대 기계 설비의 구조, 기계 및 전기 등의 분야에 있어 그 진단 결과가 갖는 중요성을 인식하여, 과학적이고 객관적인 평가가 될 수 있도록 아래의 정밀 계측기를 사용하여 정밀안전진단 업무를 수행하였다.

번호	기기명	용도	모델명	교정날짜	
1	진동계		전동기, 감속기 진동측정	VA-12	24/8/31
2	속도측정기		구동 속도 측정	3404	24/8/7
3	버니어 캘리퍼스		와이어 직경 측정	200mm	24/8/8
4	전류 및 전압 측정기		전원 및 부하전류 측정	3288	24/8/7
5	소음측정기		구동부 소음 측정	TES52A	24/8/13
6	절연저항 측정기		전동기 및 케이블 절연상태 측정	3453	24/8/8
7	장력계		와이어 장력 측정	Range 50~1000 lb	-
8	조도계		전기실, 상부 그리드, 갤러리, 하부무대 주변 조도 밝기 측정	DT-1300	24/8/13
9	자분 탐상기		용접부 외부 결합 확인	Yoke(A.C)	24/11/12
10	초음파탐상기		Pin, Shaft 및 용접부 내부 결합 확인	WAVE (A-Scan)	24/11/12
11	내시경 (2-ways Articulation Endoscope)		감속기 내부 기어 확인	Ø5.5~6.0mm	-

[표] 계측 장비 목록

제1장 정밀안전진단 개요

5. 수행 일정

구분	투입 일정	투입 인원	수행 업무
계약 및 서류검토	2025. 7. 21 ~ 2025. 7. 30	5명	<ol style="list-style-type: none">자료수집 및 검토
현장 검사	2025. 7. 31 ~ 2025. 8. 01	4명	<ol style="list-style-type: none">무대 구동부 사양 및 위치 확인전기제어반 외관검사무대 구동장치 외관검사Wire Rope, Sheave, Drum 등 부속 장치에 대한 외관검사상부 구조물 및 그리드 외관검사정밀진동측정 검사감속기 내시경검사구조물 비파괴검사막 구조물, 장치봉 및 조명설비의 외관 및 설치상태 등 검사전기제어반 계장품 외관 및 작동검사상부 구동부 운전검사 및 진동, 소음 측정전동기 절연저항 및 부하전류 측정안전장치 작동상태 검사검사결과에 대한 업무협의
검사결과분석 및 보고서 작성	2025. 8. 9 ~ 2025. 8. 24	3명	<ol style="list-style-type: none">검사 결과분석 및 보수방안 작성보고서 작성
최종결과 보고서 제본 및 제출	2025. 8. 25 ~ 2025. 8. 27	1명	<ol style="list-style-type: none">최종결과 보고서 제본 및 제출

제2장 정밀안전진단 실시결과

제2장 정밀안전진단 실시결과

1. 무대시설 개요

1.1 상부무대 시설 내역(42조)

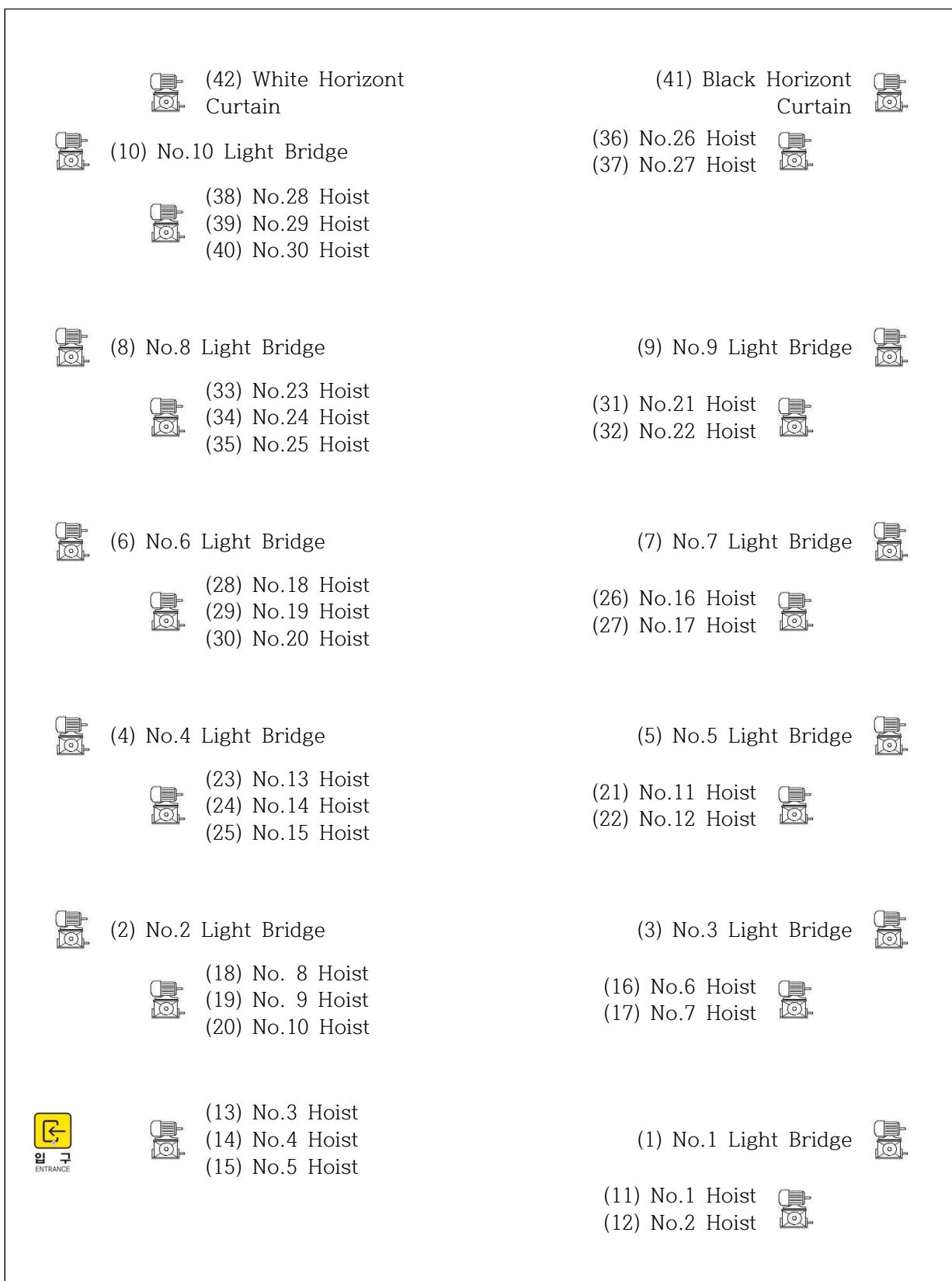
No	무대 시설명	전동기				감속기		구동 방식
		출력 (kW)	정격 전류 (A)	전압 (V)	회전수 (RPM)	종류	감속비	
1	No.1 Light Bridge	3.7	8.7	380	1,160	Worm	1:80	Winch
2	No.2 Light Bridge	3.7	8.7	380	1,160	Worm	1:80	Winch
3	No.3 Light Bridge	3.7	8.7	380	1,160	Worm	1:80	Winch
4	No.4 Light Bridge	3.7	8.7	380	1,160	Worm	1:80	Winch
5	No.5 Light Bridge	3.7	8.7	380	1,160	Worm	1:80	Winch
6	No.6 Light Bridge	3.7	8.7	380	1,160	Worm	1:80	Winch
7	No.7 Light Bridge	3.7	8.7	380	1,160	Worm	1:80	Winch
8	No.8 Light Bridge	3.7	8.7	380	1,160	Worm	1:80	Winch
9	No.9 Light Bridge	3.7	8.7	380	1,160	Worm	1:80	Winch
10	No.10 Light Bridge	3.7	8.7	380	1,160	Worm	1:80	Winch
11	No.1 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
12	No.2 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
13	No.3 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
14	No.4 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
15	No.5 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
16	No.6 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
17	No.7 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch

No	무대 시설명	전동기				감속기		구동 방식
		출력 (kW)	정격 전류 (A)	전압 (V)	회전수 (RPM)	종류	감속비	
18	No.8 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
19	No.9 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
20	No.10 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
21	No.11 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
22	No.12 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
23	No.13 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
24	No.14 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
25	No.15 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
26	No.16 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
27	No.17 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
28	No.18 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
29	No.19 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
30	No.20 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
31	No.21 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
32	No.22 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
33	No.23 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
34	No.24 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
35	No.25 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
36	No.26 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch

제2장 정밀안전진단 실시결과

No	무대 시설명	전동기				감속기		구동 방식
		출력 (kW)	정격 전류 (A)	전압 (V)	회전수 (RPM)	종류	감속비	
37	No.27 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
38	No.28 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
39	No.29 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
40	No.30 Hoist	2.2	5.3	380	1,720	Worm	1:30	Winch
41	Black Horizont Curtain	3.7	8.7	380	1,160	Worm	1:80	Winch
42	White Horizont Curtain	3.7	8.7	380	1,160	Worm	1:80	Winch

1.2 무대시설 배치도



↓↓ 객석 방향 ↓↓

제2장 정밀안전진단 실시결과

1.3 기계요소 및 와이어 순서 식별분류

1.3.1 기계요소에 대한 식별분류

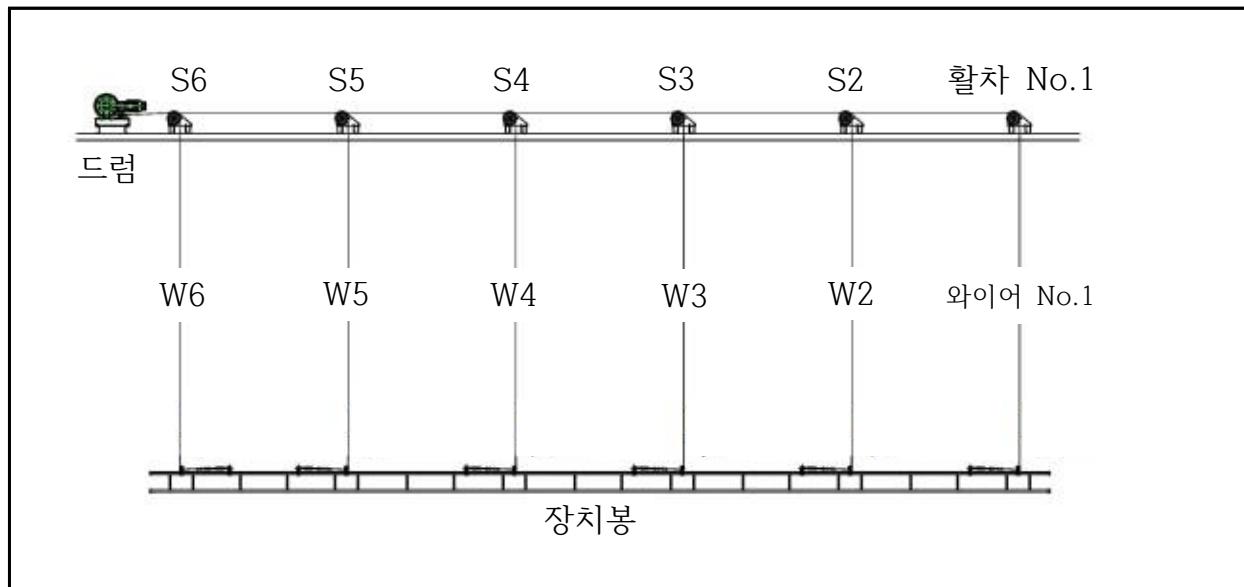
무대기계·기구의 배열순서 및 각 구동부의 기계요소에 대한 식별을 용이하게 하여 보고서 작성 및 보수 관리유지에 편의를 도모하기 위하여 식별 분류번호 및 약호를 각각의 기계요소에 대하여 [표 1.1]과 같이 부여하였다.

식별분류			
기호	내용	기호	내용
MD	주 드럼	C/W	카운터 웨이트
DS	드럼형 활차(2홈 이상)	L/S	리미트 스위치
S	활차	W	와이어로프

[표 1.1] 기계요소에 대한 식별분류

1.3.2 와이어 순서 식별분류 번호부여

활차와 와이어의 식별번호는 아래 [그림 1]과 같이 구동장치의 Main Drum에서 가장 먼 곳의 활차에 장착된 와이어로프로 부터 1번(S1, W1)순으로 번호를 부여하였다.



[그림 1]

2. 무대 시설별 안전진단 실시결과

2.1 상부 무대 시설 (42조)

2.1.1 No.1 Light Bridge / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	3.7	전동기 정격전류 (A)	8.7
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,160
감속기 종류	Worm	감속기 감속비	1:80

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 해당 없음	-
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2항 참조	-
13. 무대 바닥	- 2.3항 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits위치	- 특이사항 없음	양호
27. 기타	- 3항 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 해당 없음	-
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리밋스위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기					비고	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	전류 [A]			
				기준값	측정값		
9.9	3.7	380	1,160	8.7 이하	상승 6.0	하강 5.3	

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	850	75 이하	상승 68	하강 67	1.8 이하	전동기 1.2
						감속기 1.4

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.2 No.2 Light Bridge / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	3.7	전동기 정격전류 (A)	8.7
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,160
감속기 종류	Worm	감속기 감속비	1:80

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 해당 없음	-
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2항 참조	-
13. 무대 바닥	- 2.3항 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3항 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 해당 없음	-
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
10.1	3.7	380	1,160	8.7 이하	5.8	5.4

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	570	75 이하	상승 69	하강 68	1.8 이하 1.4	전동기 감속기 1.4

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.3 No.3 Light Bridge / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	3.7	전동기 정격전류 (A)	8.7
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,160
감속기 종류	Worm	감속기 감속비	1:80

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 해당 없음	-
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2항 참조	-
13. 무대 바닥	- 2.3항 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3항 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 해당 없음	-
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
9.8	3.7	380	1,160	8.7 이하	6.4	5.7

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	590	75 이하	상승 67	하강 67	1.8 이하 1.6	전동기 감속기 1.6

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.4 No.4 Light Bridge / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	3.7	전동기 정격전류 (A)	8.7
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,160
감속기 종류	Worm	감속기 감속비	1:80

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 해당 없음	-
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2항 참조	-
13. 무대 바닥	- 2.3항 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3항 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 해당 없음	-
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
9.9	3.7	380	1,160	8.7 이하	6.5	5.6

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	520	75 이하	상승 68	하강 70	1.8 이하 1.0	전동기 감속기 0.8

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.5 No.5 Light Bridge / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	3.7	전동기 정격전류 (A)	8.7
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,160
감속기 종류	Worm	감속기 감속비	1:80

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 해당 없음	-
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2항 참조	-
13. 무대 바닥	- 2.3항 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3항 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 해당 없음	-
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
9.4	3.7	380	1,160	8.7 이하	6.5	5.8

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	650	75 이하	상승 67	하강 68	1.8 이하 1.2	전동기 감속기 1.5

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.6 No.6 Light Bridge / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	3.7	전동기 정격전류 (A)	8.7
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,160
감속기 종류	Worm	감속기 감속비	1:80

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 해당 없음	-
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2항 참조	-
13. 무대 바닥	- 2.3항 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3항 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 해당 없음	-
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
9.9	3.7	380	1,160	8.7 이하	6.1	5.3

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	930	75 이하	상승 68	하강 68	1.8 이하 1.7	전동기 감속기 1.0

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.7 No.7 Light Bridge / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	3.7	전동기 정격전류 (A)	8.7
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,160
감속기 종류	Worm	감속기 감속비	1:80

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 해당 없음	-
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2항 참조	-
13. 무대 바닥	- 2.3항 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3항 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 해당 없음	-
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
10.0	3.7	380	1,160	8.7 이하	5.7	5.1

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	1,200	75 이하	상승 69	하강 68	1.8 이하 1.3	전동기 감속기 1.6

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.8 No.8 Light Bridge / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	3.7	전동기 정격전류 (A)	8.7
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,160
감속기 종류	Worm	감속기 감속비	1:80

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 해당 없음	-
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2항 참조	-
13. 무대 바닥	- 2.3항 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3항 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 해당 없음	-
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
10.2	3.7	380	1,160	8.7 이하	5.9	5.3

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	590	75 이하	상승 70	하강 70	1.8 이하 1.7	전동기 감속기 1.4

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.9 No.9 Light Bridge / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	3.7	전동기 정격전류 (A)	8.7
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,160
감속기 종류	Worm	감속기 감속비	1:80

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 해당 없음	-
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2항 참조	-
13. 무대 바닥	- 2.3항 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3항 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 해당 없음	-
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
9.7	3.7	380	1,160	8.7 이하	6.3	5.7

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	910	75 이하	상승 67	하강 68	1.8 이하 1.4	전동기 감속기 0.6

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.10 No.10 Light Bridge / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	3.7	전동기 정격전류 (A)	8.7
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,160
감속기 종류	Worm	감속기 감속비	1:80

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 해당 없음	-
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2항 참조	-
13. 무대 바닥	- 2.3항 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3항 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 해당 없음	-
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
9.8	3.7	380	1,160	8.7 이하	6.2	5.4

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	610	75 이하	상승 68	하강 69	1.8 이하 0.9	전동기 감속기 0.9 1.2

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.11 No.1 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
51.1	2.2	380	1,720	5.3 이하	2.2	2.1

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 69	하강 68	1.8 이하 1.4	전동기 감속기 1.0

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.12 No.2 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
50.6	2.2	380	1,720	5.3 이하	1.9	1.8

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 68	하강 67	1.8 이하 1.4	전동기 감속기 1.0

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.13 No.3 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
43.2	2.2	380	1,720	5.3 이하	2.3	2.3

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 67	하강 67	1.8 이하 1.0	전동기 감속기 1.1

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.14 No.4 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
42.4	2.2	380	1,720	5.3 이하	1.9	1.9

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 68	하강 70	1.8 이하 1.0	전동기 감속기 0.9

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.15 No.5 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
46.8	2.2	380	1,720	5.3 이하	2.0	1.9

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 67	하강 68	1.8 이하 1.3	전동기 감속기 1.5

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.16 No.6 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
50.3	2.2	380	1,720	5.3 이하	2.1	1.9

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 68	하강 68	1.8 이하 1.4	전동기 감속기 1.2

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.17 No.7 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
50.7	2.2	380	1,720	5.3 이하	2.1	2.0

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 69	하강 71	1.8 이하 1.3	전동기 감속기 1.6

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.18 No.8 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
50.3	2.2	380	1,720	5.3 이하	2.0	1.9

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 70	하강 69	1.8 이하 1.1	전동기 감속기 0.5

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.19 No.9 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
48.8	2.2	380	1,720	5.3 이하	1.8	1.8

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 68	하강 69	1.8 이하 1.2	전동기 감속기 0.9

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.20 No.10 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
51.2	2.2	380	1,720	5.3 이하	1.8	1.8

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 68	하강 69	1.8 이하 1.1	전동기 감속기 1.5

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.21 No.11 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
51.2	2.2	380	1,720	5.3 이하	2.2	2.0

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 65	하강 68	1.8 이하 1.4	전동기 감속기 0.9

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.22 No.12 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
50.0	2.2	380	1,720	5.3 이하	2.2	2.2

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 66	하강 65	1.8 이하 1.6	전동기 감속기 1.2

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.23 No.13 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
50.1	2.2	380	1,720	5.3 이하	2.0	2.0

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 67	하강 66	1.8 이하 1.2	전동기 감속기 1.0

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.24 No.14 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
50.3	2.2	380	1,720	5.3 이하	1.8	1.8

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 70	하강 67	1.8 이하 1.4	전동기 감속기 1.0

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.25 No.15 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
51.1	2.2	380	1,720	5.3 이하	2.2	2.1

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 69	하강 66	1.8 이하 1.4	전동기 감속기 1.3

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.26 No.16 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
49.0	2.2	380	1,720	5.3 이하	3.5	1.7

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 68	하강 70	1.8 이하 1.6	전동기 감속기 1.2

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.27 No.17 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
50.7	2.2	380	1,720	5.3 이하	2.1	2.0

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 64	하강 66	1.8 이하 1.4	전동기 감속기 1.7

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.28 No.18 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
51.2	2.2	380	1,720	5.3 이하	2.3	2.1

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 63	하강 62	1.8 이하 1.3	전동기 감속기 0.9

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.29 No.19 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
51.0	2.2	380	1,720	5.3 이하	1.9	1.8

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 63	하강 64	1.8 이하 1.3	전동기 감속기 0.9

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.30 No.20 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
50.6	2.2	380	1,720	5.3 이하	2.6	1.8

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 66	하강 67	1.8 이하 1.4	전동기 감속기 0.9

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.31 No.21 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
49.5	2.2	380	1,720	5.3 이하	2.5	1.9

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 69	하강 67	1.8 이하 1.2	전동기 감속기 1.1

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.32 No.22 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
50.8	2.2	380	1720	5.3 이하	3.0	2.9

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 69	하강 68	1.8 이하 0.8	전동기 감속기 0.8

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.33 No.23 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
50.9	2.2	380	1,720	5.3 이하	2.1	2.0

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 68	하강 67	1.8 이하 1.2	전동기 감속기 1.1

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.34 No.24 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
50.8	2.2	380	1,720	5.3 이하	2.0	1.9

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 67	하강 67	1.8 이하 0.9	전동기 감속기 0.9 1.1

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.35 No.25 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
49.3	2.2	380	1720	5.3 이하	2.4	1.7

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 66	하강 67	1.8 이하 1.6	전동기 감속기 1.4

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.36 No.26 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
50.0	2.2	380	1,720	5.3 이하	2.5	1.9

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 65	하강 68	1.8 이하 1.4	전동기 감속기 1.1

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.37 No.27 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 단자박스 Cover 탈락	수정
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2항 참조	-
13. 무대 바닥	- 2.3항 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3항 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
50.4	2.2	380	1,720	5.3 이하	1.9	1.8

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 66	하강 65	1.8 이하 1.4	전동기 감속기 1.0

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.38 No.28 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
50.4	2.2	380	1,720	5.3 이하	2.0	1.9

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 63	하강 64	1.8 이하 1.5	전동기 감속기 1.1

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.39 No.29 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
51.1	2.2	380	1,720	5.3 이하	1.8	1.8

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 65	하강 66	1.8 이하 1.7	전동기 감속기 1.2

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.40 No.30 Hoist / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	2.2	전동기 정격전류 (A)	5.3
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,720
감속기 종류	Worm	감속기 감속비	1:30

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- 특이사항 없음	양호
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2향 참조	-
13. 무대 바닥	- 2.3향 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3향 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
49.8	2.2	380	1,720	5.3 이하	2.7	2.0

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	2,000	75 이하	상승 68	하강 65	1.8 이하 1.7	전동기 감속기 1.6

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.41 Black Horizont Curtain / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	3.7	전동기 정격전류 (A)	8.7
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,160
감속기 종류	Worm	감속기 감속비	1:80

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- Wire Rpoe Clip 체결 수량 부족	수정
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2항 참조	-
13. 무대 바닥	- 2.3항 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리imits워치	- 특이사항 없음	양호
27. 기타	- 3항 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
10.1	3.7	380	1,160	8.7 이하	4.8	4.5

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	810	75 이하	상승 64	하강 65	1.8 이하 1.5	전동기 감속기 0.5

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.1.42 White Horizont Curtain / Winch Type

(1) 규격 및 사양

전동기 출력 (kW)	3.7	전동기 정격전류 (A)	8.7
전동기 전압 (V)	380	전동기 회전수 (RPM)	1,160
감속기 종류	Worm	감속기 감속비	1:80

(2) 설치상태 및 구조검사

구분	지적사항	평가
1. 구조물 및 프레임	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 체결 도구	- Wire Rpo Clip 체결 수량 부족	수정
	- Wire Rpoe 변형(kink) 발생	교체
6. 섬유로프	- 해당 없음	-
7. 체인	- 특이사항 없음	양호
8. 전동기	- 특이사항 없음	양호
9. 감속기 및 부속 장치	- 특이사항 없음	양호
10. 제동장치	- 특이사항 없음	양호
11. 상부 그리드	- 특이사항 없음	양호
12. 갤러리	- 2.2항 참조	-
13. 무대 바닥	- 2.3항 참조	-
14. 유압 파워 유닛	- 해당 없음	-
15. 유압 실린더 및 호스	- 해당 없음	-
16. 유압 기계실	- 해당 없음	-
17. 기어박스	- 해당 없음	-
18. 축 및 커플링	- 해당 없음	-
19. 스크루 축	- 해당 없음	-
20. 랙 및 피니언	- 해당 없음	-
21. 팬터그래프	- 해당 없음	-
22. 무대 하부	- 해당 없음	-
23. 배전반 및 제어반	- 특이사항 없음	양호
24. 조작반	- 특이사항 없음	양호
25. 배선 및 배관	- 특이사항 없음	양호
26. 리미스위치	- 특이사항 없음	양호
27. 기타	- 3항 결과분석 및 개선방안 “공통지적사항” 참조	수정

제2장 정밀안전진단 실시결과

(3) 운전검사

구분	지적사항	평가
1. 막 구조물	- 특이사항 없음	양호
2. 평형추 및 가이드 레일	- 해당 없음	-
3. 활차	- 특이사항 없음	양호
4. 드럼	- 특이사항 없음	양호
5. 와이어로프 및 섬유로프	- 특이사항 없음	양호
6. 체인	- 특이사항 없음	양호
7. 전동기	- 특이사항 없음	양호
8. 감속기	- 특이사항 없음	양호
9. 제동장치	- 특이사항 없음	양호
10. 무대 바닥 및 프레임	- 해당 없음	-
11. 유압 시스템	- 해당 없음	-
12. 동력전달장치 (스크루 축, 랙 및 피니언 등)	- 해당 없음	-
13. 기어박스	- 해당 없음	-
14. 축 및 커플링	- 해당 없음	-
15. 배전반 및 제어반	- 특이사항 없음	양호
16. 조작반	- 특이사항 없음	양호
17. 리imits위치	- 특이사항 없음	양호
18. 방화막	- 해당 없음	-

(4) 구동검사

속도 [m/min]	전동기				전류 [A]	
	출력 [kW]	전압 [V]	전동기 회전수 [RPM]	기준값	측정값	
					상승	하강
10.0	3.7	380	1,160	8.7 이하	5.5	5.3

절연저항 [MΩ]		소음 [dB(A)]		진동 [mm/s]		비고
기준값	측정값	기준값	측정값	기준값	측정값	
1 이상	900	75 이하	상승 65	하강 69	1.8 이하 1.0	전동기 감속기 1.7

☞ Remark : 상세 진동은 결과표 참조 (부록 - 2. 측정 및 시험성과표)

2.3 갤러리

점검항목	점검 결과	평가
1. 점검로 내의 추락위험방지 - 난간 설치 - 10cm 이상 추락방지턱 설치	- 특이사항 없음	양호
2. 점검로의 조도 - 평균 조도 100 lux 이상	- 특이사항 없음	양호

☞ Remark :

2.4 무대 바닥

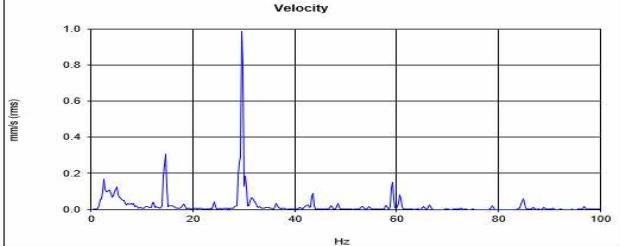
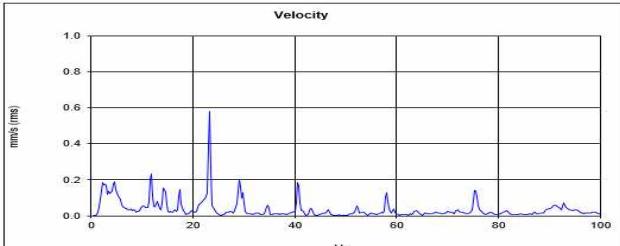
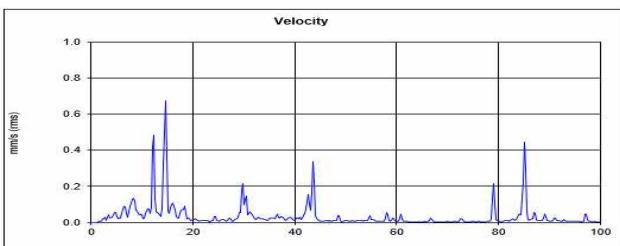
점검항목	점검 결과	평가
1. 무대 바닥의 수평 상태 - 돌출부 및 변형, 파손 없을 것	- 특이사항 없음	양호

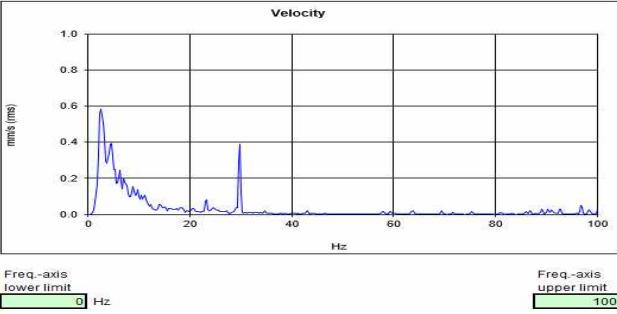
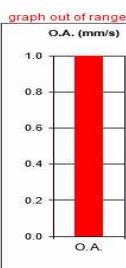
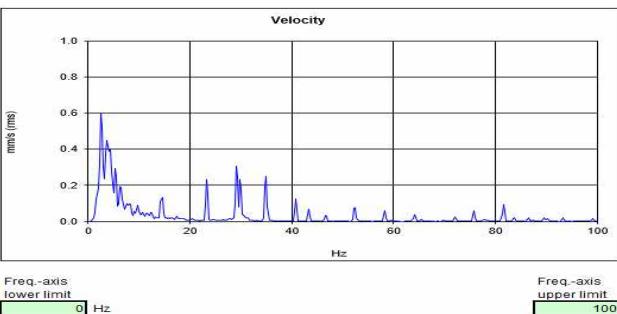
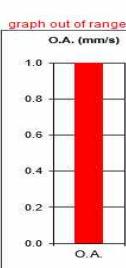
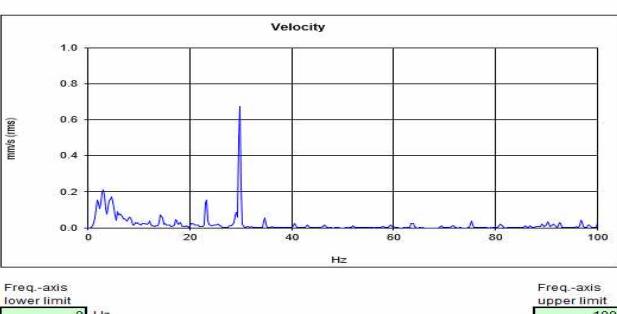
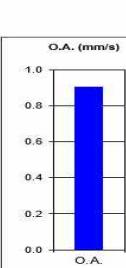
☞ Remark :

2.5 정밀진동분석(FFT - Spectrum Mode 측정)

2.5.1 진동분석

(1) No.1 Light Bridge

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>526</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:39:31</td></tr> <tr><td>Range (mm/s)</td><td>100</td></tr> <tr><td>Frequency Span (Hz)</td><td>100</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2023/11/30 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>5.25</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.236</td></tr> </table>	Store address	526	Store Date/Time	2025/07/31 16:39:31	Range (mm/s)	100	Frequency Span (Hz)	100	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2023/11/30 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	5.25	O.A.value (mm/s (rms))	1.236	 <div style="display: flex; justify-content: space-around; width: 100%;"> Freq-axis lower limit 0 Hz 100 Hz Freq-axis upper limit </div> <div style="text-align: center; margin-top: 10px;">Adjust freq-axis</div> <div style="display: flex; justify-content: space-around; width: 100%;"> graph out of range O.A. (mm/s) </div> <div style="background-color: red; width: 100px; height: 100px; margin-top: 10px;"></div>
Store address	526																																																		
Store Date/Time	2025/07/31 16:39:31																																																		
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Overload	Off																																																		
Trigger:																																																			
Trigger Mode	Free																																																		
Start Date / Time	2023/11/30 00:00:00																																																		
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Trigger Source	Level Trigger																																																		
Pre-Trigger	None																																																		
Trigger Level	1																																																		
Slope	+																																																		
Sensor:																																																			
Type	PV-571																																																		
Sensitivity (mV/ms ⁻²)	5.25																																																		
O.A.value (mm/s (rms))	1.236																																																		
검토의견	30Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임																																																		
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																		
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제2장 정밀안전진단 실시결과

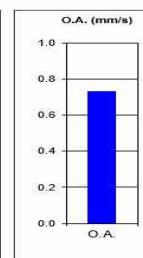
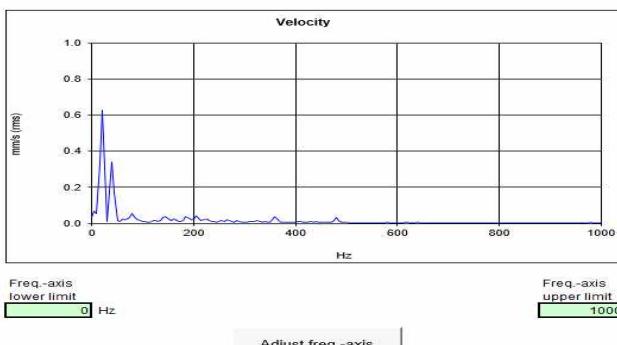
(2) No.2 Light Bridge

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
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Overload	Off																																																		
Trigger:																																																			
Trigger Mode	Free																																																		
Start Date / Time	2024/05/20 00:00:00																																																		
Store Interval	1min																																																		
Store Number	1																																																		
Trigger Source	Level Trigger																																																		
Pre-Trigger	None																																																		
Trigger Level	1																																																		
Slope	+																																																		
Sensor:																																																			
Type	PV-57I																																																		
Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	1.057																																																		
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																		
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>337</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:40:15</td></tr> <tr><td>Range (mm/s)</td><td>3.16</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>20</td></tr> <tr><td>Average count</td><td>20</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2025/08/04 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>5.25</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.468</td></tr> </table> <p>Velocity</p> <p>graph out of range</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p> <p>O.A. (mm/s)</p> <p>O.A.</p>	Store address	337	Store Date/Time	2025/07/31 14:40:15	Range (mm/s)	3.16	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	20	Average count	20	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2025/08/04 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	5.25	O.A.value (mm/s (rms))	1.468	검토의견 480Hz에서 최대 1.4mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.
Store address	337																																																		
Store Date/Time	2025/07/31 14:40:15																																																		
Range (mm/s)	3.16																																																		
Frequency Span (Hz)	1000																																																		
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Window	Hanning																																																		
Operating Type	LIN																																																		
Set average number	20																																																		
Average count	20																																																		
High Pass Filter	3Hz																																																		
Low Pass Filter	1kHz																																																		
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Trigger Source	Level Trigger																																																		
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측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																		
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>338</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:40:25</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.9922</td></tr> </table> <p>Velocity</p> <p>graph out of range</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p> <p>O.A. (mm/s)</p> <p>O.A.</p>	Store address	338	Store Date/Time	2025/07/31 14:40:25	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.9922	검토의견 125Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.
Store address	338																																																		
Store Date/Time	2025/07/31 14:40:25																																																		
Range (mm/s)	10																																																		
Frequency Span (Hz)	1000																																																		
Lines	200																																																		
Window	Hanning																																																		
Operating Type	LIN																																																		
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Trigger Source	Level Trigger																																																		
Pre-Trigger	None																																																		
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Sensor:																																																			
Type	PV-57I																																																		
Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	0.9922																																																		

측정 위치 및 측정 Mode

감속기 수직(Vertical) 방향

Spectrum Mode		Velocity
Store address	339	
Store Date/Time	2025/07/31 14:40:34	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	0.7337	



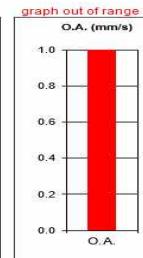
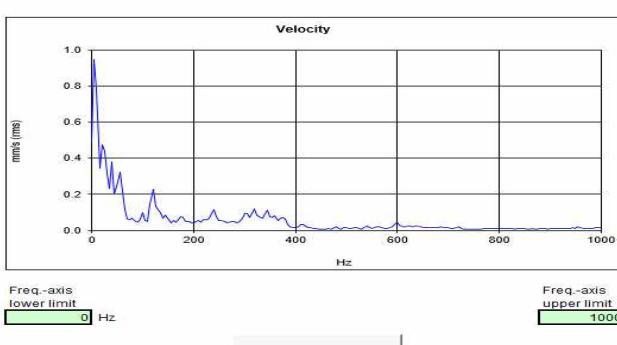
검토의견

40Hz에서 최대 0.7mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 수평(Horizontal) 방향

Spectrum Mode		Velocity
Store address	340	
Store Date/Time	2025/07/31 14:40:44	
Range (mm/s)	3.16	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	20	
Average count	20	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/08/04 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	1.476	



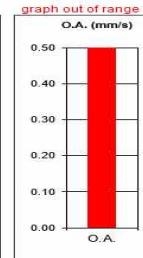
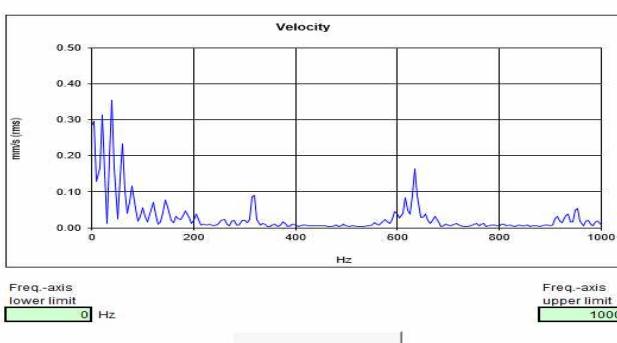
검토의견

120Hz에서 최대 1.4mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 축(Axial) 방향

Spectrum Mode		Velocity
Store address	341	
Store Date/Time	2025/07/31 14:40:57	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	0.7155	

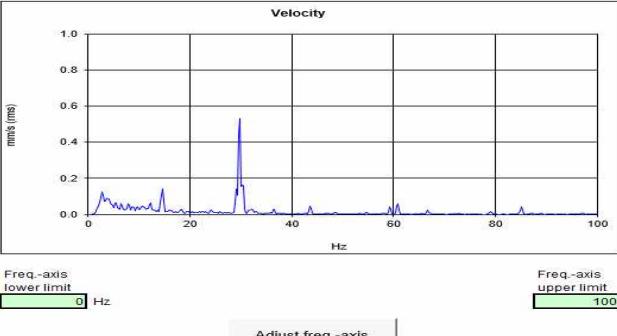
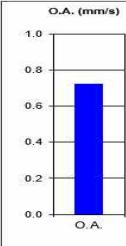
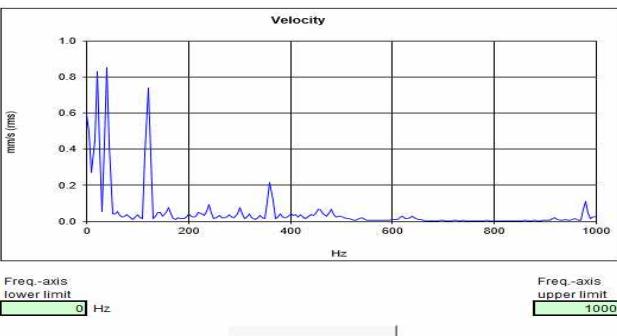
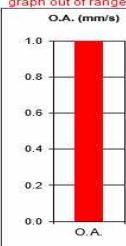
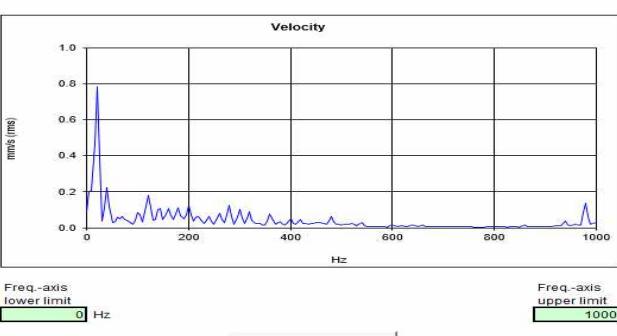
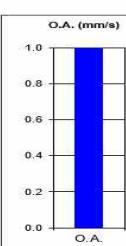


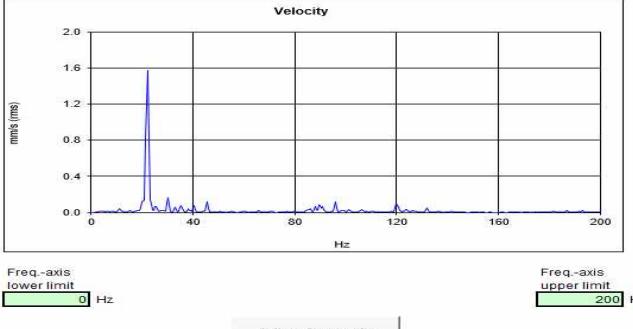
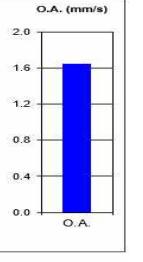
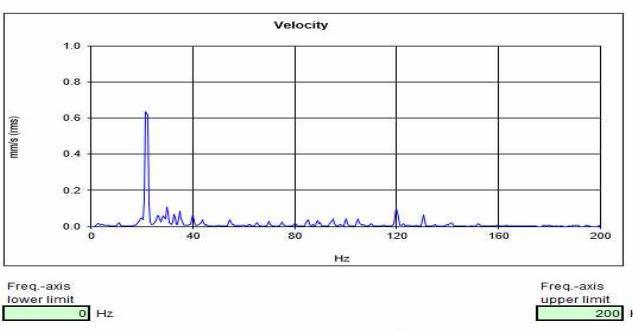
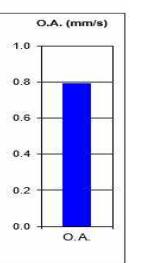
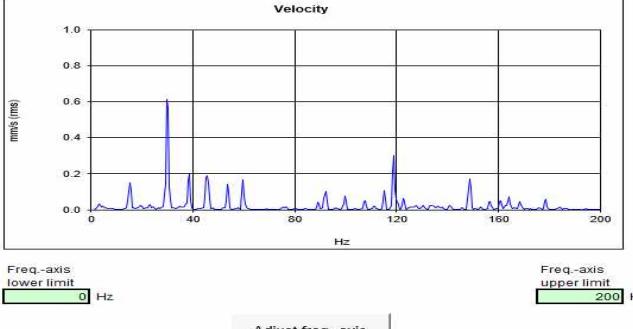
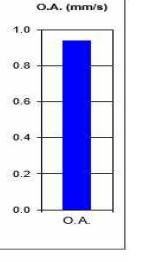
검토의견

640Hz에서 최대 0.7mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.

제2장 정밀안전진단 실시결과

(3) No.3 Light Bridge

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>516</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:34:58</td></tr> <tr><td>Range (mm/s)</td><td>100</td></tr> <tr><td>Frequency Span (Hz)</td><td>100</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2023/11/30 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>5.25</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.7228</td></tr> </table>	Store address	516	Store Date/Time	2025/07/31 16:34:58	Range (mm/s)	100	Frequency Span (Hz)	100	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2023/11/30 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	5.25	O.A.value (mm/s (rms))	0.7228	 Velocity mm/s (rms) Hz 0 Hz 100 Hz Freq.-axis lower limit Freq.-axis upper limit Adjust freq.-axis	 O.A. (mm/s) mm/s Hz 0.0 1.0 O.A.
Store address	516																																																			
Store Date/Time	2025/07/31 16:34:58																																																			
Range (mm/s)	100																																																			
Frequency Span (Hz)	100																																																			
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검토의견	30Hz에서 최대 0.7mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>516</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:35:40</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.601</td></tr> </table>	Store address	516	Store Date/Time	2025/07/31 16:35:40	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.601	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq.-axis lower limit Freq.-axis upper limit Adjust freq.-axis	 graph out of range O.A. (mm/s) mm/s Hz 0.0 1.0 O.A.
Store address	516																																																			
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검토의견	40Hz에서 최대 1.6mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>517</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:35:51</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.9985</td></tr> </table>	Store address	517	Store Date/Time	2025/07/31 16:35:51	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.9985	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq.-axis lower limit Freq.-axis upper limit Adjust freq.-axis	 O.A. (mm/s) mm/s Hz 0.0 1.0 O.A.
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Sensitivity (mV/ms ⁻²)	4.86																																																			
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검토의견	120Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			

측정 위치 및 측정 Mode		감속기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" data-bbox="218 353 550 734"> <tr><td>Store address</td><td>993</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:34:50</td></tr> <tr><td>Range (mm/s)</td><td>31.6</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>5.25</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.646</td></tr> </table>	Store address	993	Store Date/Time	2025/07/31 16:34:50	Range (mm/s)	31.6	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	5.25	O.A.value (mm/s (rms))	1.646	 <p>Velocity</p> <p>mm/s (rms)</p> <p>0.0 0.4 0.8 1.2 1.6 2.0</p> <p>0 40 80 120 160 200 Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 200 Hz</p> <p>Adjust freq.-axis</p>	 <p>O.A. (mm/s)</p> <p>0.0 0.4 0.8 1.2 1.6 2.0</p> <p>O.A.</p>
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검토의견	22Hz에서 최대 1.6mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode		감속기 수평(Horizontal) 방향																																																		
Spectrum Mode Velocity <table border="1" data-bbox="218 913 550 1317"> <tr><td>Store address</td><td>994</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:35:42</td></tr> <tr><td>Range (mm/s)</td><td>31.6</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>5.25</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.7919</td></tr> </table>	Store address	994	Store Date/Time	2025/07/31 16:35:42	Range (mm/s)	31.6	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	5.25	O.A.value (mm/s (rms))	0.7919	 <p>Velocity</p> <p>mm/s (rms)</p> <p>0.0 0.2 0.4 0.6 0.8 1.0</p> <p>0 40 80 120 160 200 Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 200 Hz</p> <p>Adjust freq.-axis</p>	 <p>O.A. (mm/s)</p> <p>0.0 0.2 0.4 0.6 0.8 1.0</p> <p>O.A.</p>
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검토의견	22Hz에서 최대 0.8mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode		감속기 축(Axial) 방향																																																		
Spectrum Mode Velocity <table border="1" data-bbox="218 1496 550 1877"> <tr><td>Store address</td><td>995</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:35:52</td></tr> <tr><td>Range (mm/s)</td><td>31.6</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>5.25</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.9415</td></tr> </table>	Store address	995	Store Date/Time	2025/07/31 16:35:52	Range (mm/s)	31.6	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	5.25	O.A.value (mm/s (rms))	0.9415	 <p>Velocity</p> <p>mm/s (rms)</p> <p>0.0 0.2 0.4 0.6 0.8 1.0</p> <p>0 40 80 120 160 200 Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 200 Hz</p> <p>Adjust freq.-axis</p>	 <p>O.A. (mm/s)</p> <p>0.0 0.2 0.4 0.6 0.8 1.0</p> <p>O.A.</p>
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검토의견	30Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			

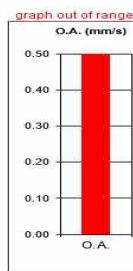
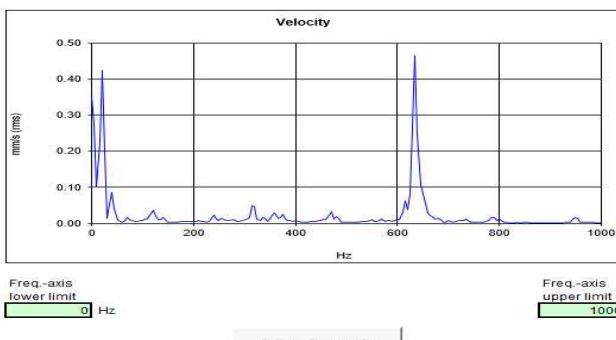
(4) No.4 Light Bridge

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>362</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:50:42</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.264</td></tr> </table>	Store address	362	Store Date/Time	2025/07/31 14:50:42	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.264	<p>Velocity</p> <p>mm/s (rms)</p> <p>0.0 0.4 0.8 1.2 1.6 2.0</p> <p>0 200 400 600 800 1000 Hz</p> <p>Freq.-axis lower limit 0 Hz Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p> <p>O.A. (mm/s)</p> <p>0.0 0.4 0.8 1.2 1.6 2.0</p> <p>0.0 O.A.</p>
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<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>363</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:50:53</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.029</td></tr> </table>	Store address	363	Store Date/Time	2025/07/31 14:50:53	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.029	<p>Velocity</p> <p>mm/s (rms)</p> <p>0.0 0.2 0.4 0.6 0.8 1.0</p> <p>0 200 400 600 800 1000 Hz</p> <p>Freq.-axis lower limit 0 Hz Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p> <p>O.A. (mm/s)</p> <p>0.0 0.2 0.4 0.6 0.8 1.0</p> <p>0.0 O.A.</p>
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High Pass Filter	3Hz																																																		
Low Pass Filter	1kHz																																																		
Overload	Off																																																		
Trigger:																																																			
Trigger Mode	Free																																																		
Start Date / Time	2024/05/20 00:00:00																																																		
Store Interval	1min																																																		
Store Number	1																																																		
Trigger Source	Level Trigger																																																		
Pre-Trigger	None																																																		
Trigger Level	1																																																		
Slope	+																																																		
Sensor:																																																			
Type	PV-57I																																																		
Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	1.029																																																		
검토의견	360Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																		
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>364</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:51:03</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.4759</td></tr> </table>	Store address	364	Store Date/Time	2025/07/31 14:51:03	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.4759	<p>Velocity</p> <p>mm/s (rms)</p> <p>0.00 0.10 0.20 0.30 0.40 0.50</p> <p>0 200 400 600 800 1000 Hz</p> <p>Freq.-axis lower limit 0 Hz Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p> <p>O.A. (mm/s)</p> <p>0.00 0.10 0.20 0.30 0.40 0.50</p> <p>0.00 O.A.</p>
Store address	364																																																		
Store Date/Time	2025/07/31 14:51:03																																																		
Range (mm/s)	10																																																		
Frequency Span (Hz)	1000																																																		
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Slope	+																																																		
Sensor:																																																			
Type	PV-57I																																																		
Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	0.4759																																																		
검토의견	125Hz에서 최대 0.4mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																		

측정 위치 및 측정 Mode

감속기 수직(Vertical) 방향

Spectrum Mode		Velocity
Store address	366	
Store Date/Time	2025/07/31 14:51:25	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	0.7731	



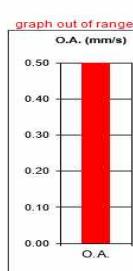
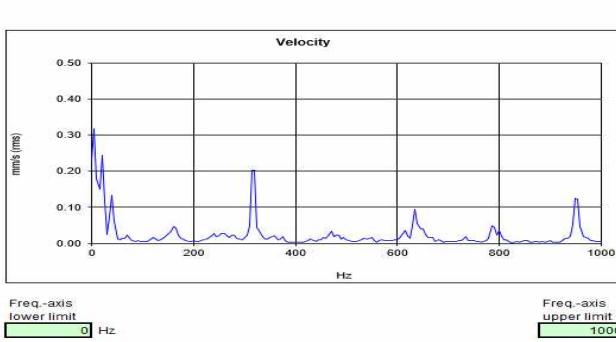
검토의견

635Hz에서 최대 0.77mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 수평(Horizontal) 방향

Spectrum Mode		Velocity
Store address	366	
Store Date/Time	2025/07/31 14:51:35	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	0.5702	



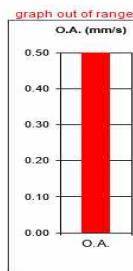
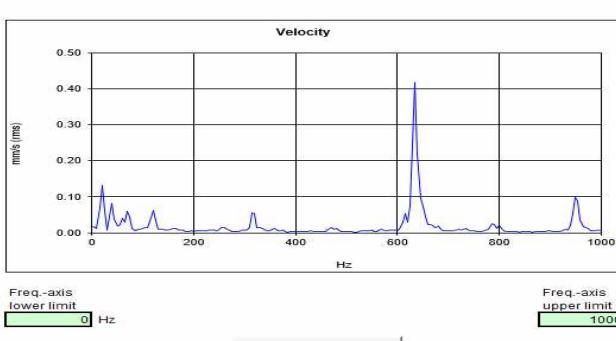
검토의견

360Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 축(Axial) 방향

Spectrum Mode		Velocity
Store address	367	
Store Date/Time	2025/07/31 14:51:44	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	0.5151	



검토의견

635Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.

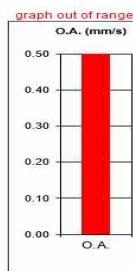
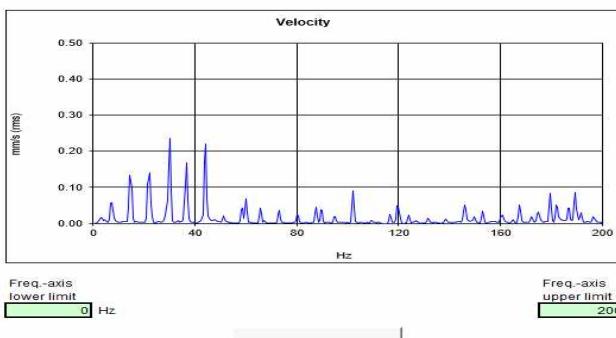
(5) No.5 Light Bridge

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>505</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:30:25</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.233</td></tr> </table> <p>Velocity</p> <p>mm/s (rms)</p> <p>0 Hz 1000 Hz</p> <p>O.A. (mm/s)</p> <p>0.0 2.0</p> <p>0.0 1.2 0.8 0.4 0.0 O.A.</p> <p>Adjust freq.-axis</p>	Store address	505	Store Date/Time	2025/07/31 16:30:25	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.233	검토의견 365Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.
Store address	505																																																		
Store Date/Time	2025/07/31 16:30:25																																																		
Range (mm/s)	10																																																		
Frequency Span (Hz)	1000																																																		
Lines	200																																																		
Window	Hanning																																																		
Operating Type	LIN																																																		
Set average number	10																																																		
Average count	10																																																		
High Pass Filter	3Hz																																																		
Low Pass Filter	1kHz																																																		
Overload	Off																																																		
Trigger:																																																			
Trigger Mode	Free																																																		
Start Date / Time	2024/05/20 00:00:00																																																		
Store Interval	1min																																																		
Store Number	1																																																		
Trigger Source	Level Trigger																																																		
Pre-Trigger	None																																																		
Trigger Level	1																																																		
Slope	+																																																		
Sensor:																																																			
Type	PV-57I																																																		
Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	1.233																																																		
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																		
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>506</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:30:38</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.4919</td></tr> </table> <p>Velocity</p> <p>mm/s (rms)</p> <p>0 Hz 1000 Hz</p> <p>O.A. (mm/s)</p> <p>0.00 0.50</p> <p>0.00 0.40 0.30 0.20 0.10 0.00 O.A.</p> <p>Adjust freq.-axis</p>	Store address	506	Store Date/Time	2025/07/31 16:30:38	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.4919	검토의견 360Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.
Store address	506																																																		
Store Date/Time	2025/07/31 16:30:38																																																		
Range (mm/s)	10																																																		
Frequency Span (Hz)	1000																																																		
Lines	200																																																		
Window	Hanning																																																		
Operating Type	LIN																																																		
Set average number	10																																																		
Average count	10																																																		
High Pass Filter	3Hz																																																		
Low Pass Filter	1kHz																																																		
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Start Date / Time	2024/05/20 00:00:00																																																		
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Store Number	1																																																		
Trigger Source	Level Trigger																																																		
Pre-Trigger	None																																																		
Trigger Level	1																																																		
Slope	+																																																		
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O.A.value (mm/s (rms))	0.4919																																																		
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																		
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>507</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:30:49</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.81</td></tr> </table> <p>Velocity</p> <p>mm/s (rms)</p> <p>0 Hz 1000 Hz</p> <p>O.A. (mm/s)</p> <p>0.0 1.0</p> <p>0.0 0.8 0.6 0.4 0.2 0.0 O.A.</p> <p>Adjust freq.-axis</p>	Store address	507	Store Date/Time	2025/07/31 16:30:49	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.81	검토의견 120Hz에서 최대 0.8mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.
Store address	507																																																		
Store Date/Time	2025/07/31 16:30:49																																																		
Range (mm/s)	10																																																		
Frequency Span (Hz)	1000																																																		
Lines	200																																																		
Window	Hanning																																																		
Operating Type	LIN																																																		
Set average number	10																																																		
Average count	10																																																		
High Pass Filter	3Hz																																																		
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Start Date / Time	2024/05/20 00:00:00																																																		
Store Interval	1min																																																		
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Sensor:																																																			
Type	PV-57I																																																		
Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	0.81																																																		

측정 위치 및 측정 Mode

감속기 수직(Vertical) 방향

Spectrum Mode		Velocity
Store address	983	
Store Date/Time	2025/07/31 16:30:24	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-571	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	0.5119	



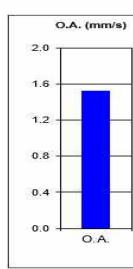
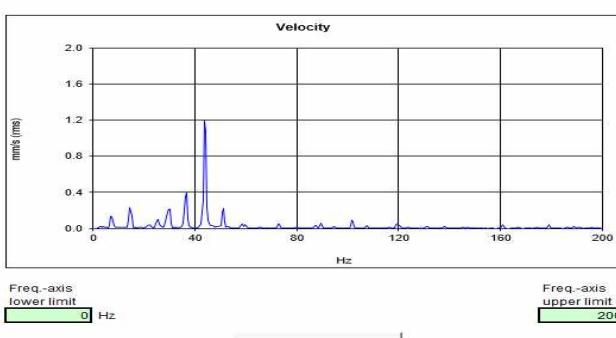
검토의견

30Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 수평(Horizontal) 방향

Spectrum Mode		Velocity
Store address	984	
Store Date/Time	2025/07/31 16:30:38	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-571	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	1.52	



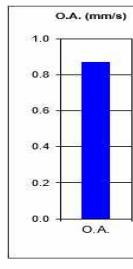
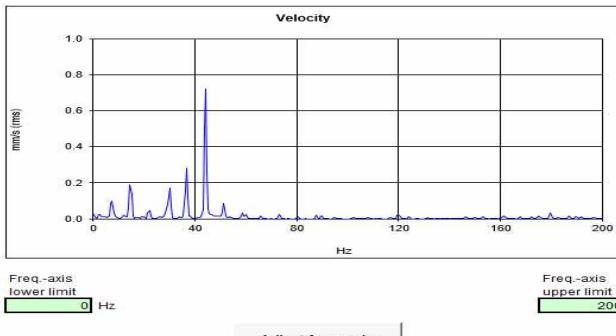
검토의견

44Hz에서 최대 1.5mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 축(Axial) 방향

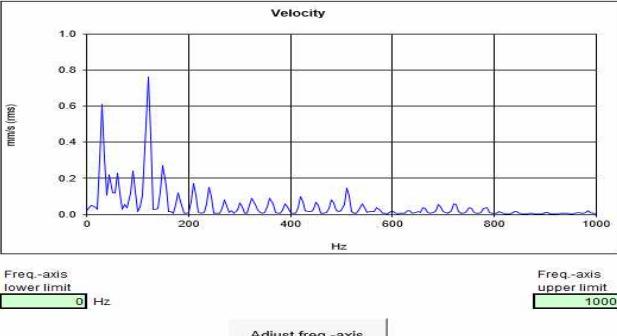
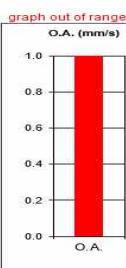
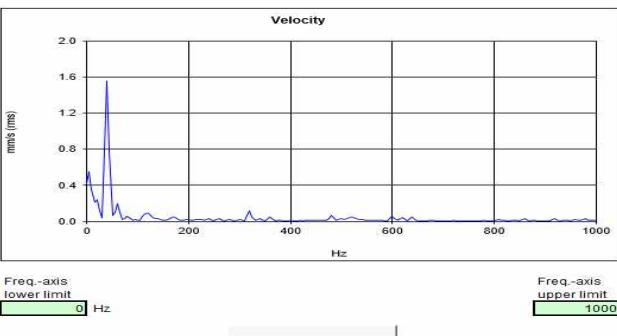
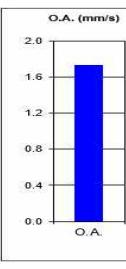
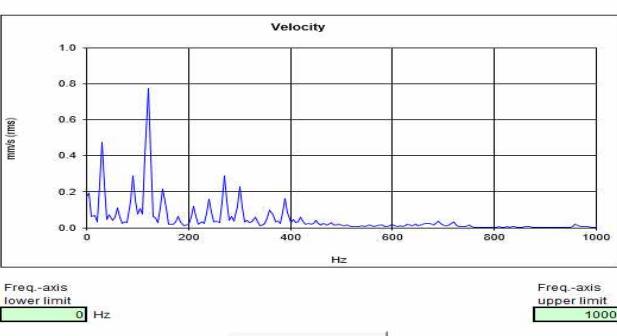
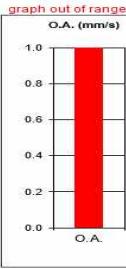
Spectrum Mode		Velocity
Store address	985	
Store Date/Time	2025/07/31 16:30:49	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-571	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	0.8688	



검토의견

44Hz에서 최대 0.8mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

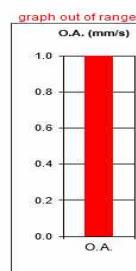
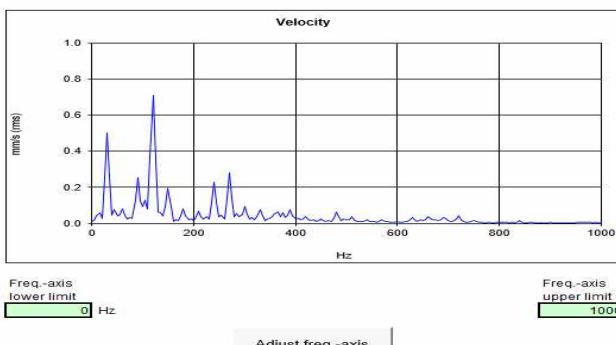
(6) No.6 Light Bridge

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>380</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:57:36</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.183</td></tr> </table>	Store address	380	Store Date/Time	2025/07/31 14:57:36	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.183	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq.-axis lower limit Freq.-axis upper limit Adjust freq.-axis  graph out of range O.A. (mm/s) 1.0 0.8 0.6 0.4 0.2 0.0 O.A.
Store address	380																																																		
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Frequency Span (Hz)	1000																																																		
Lines	200																																																		
Window	Hanning																																																		
Operating Type	LIN																																																		
Set average number	10																																																		
Average count	10																																																		
High Pass Filter	3Hz																																																		
Low Pass Filter	1kHz																																																		
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Trigger:																																																			
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Trigger Source	Level Trigger																																																		
Pre-Trigger	None																																																		
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Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	1.183																																																		
검토의견	120Hz에서 최대 1.1mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>381</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:57:53</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.735</td></tr> </table>	Store address	381	Store Date/Time	2025/07/31 14:57:53	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.735	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq.-axis lower limit Freq.-axis upper limit Adjust freq.-axis  O.A. (mm/s) 2.0 1.6 1.2 0.8 0.4 0.0 O.A.
Store address	381																																																		
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Lines	200																																																		
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Sensor:																																																			
Type	PV-57I																																																		
Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	1.735																																																		
검토의견	325Hz에서 최대 1.7mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>382</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:58:15</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.147</td></tr> </table>	Store address	382	Store Date/Time	2025/07/31 14:58:15	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.147	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq.-axis lower limit Freq.-axis upper limit Adjust freq.-axis  graph out of range O.A. (mm/s) 1.0 0.8 0.6 0.4 0.2 0.0 O.A.
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검토의견	120Hz에서 최대 1.1mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		

측정 위치 및 측정 Mode

감속기 수직(Vertical) 방향

Spectrum Mode		Velocity
Store address	383	
Store Date/Time	2025/07/31 14:58:35	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	1.055	



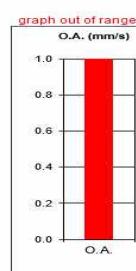
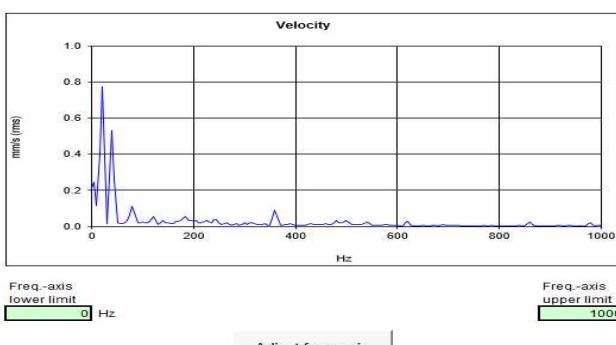
검토의견

120Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 수평(Horizontal) 방향

Spectrum Mode		Velocity
Store address	384	
Store Date/Time	2025/07/31 14:58:44	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	1.009	



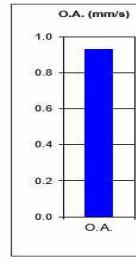
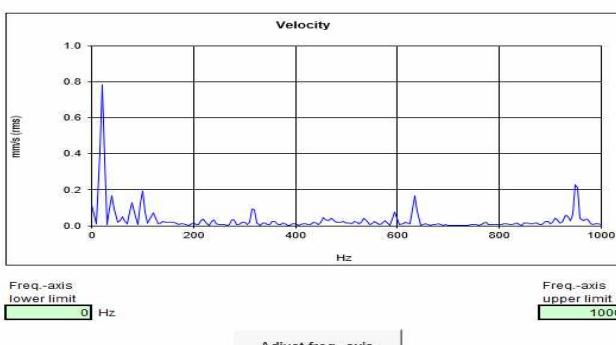
검토의견

40Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 축(Axial) 방향

Spectrum Mode		Velocity
Store address	385	
Store Date/Time	2025/07/31 14:58:53	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	0.9292	



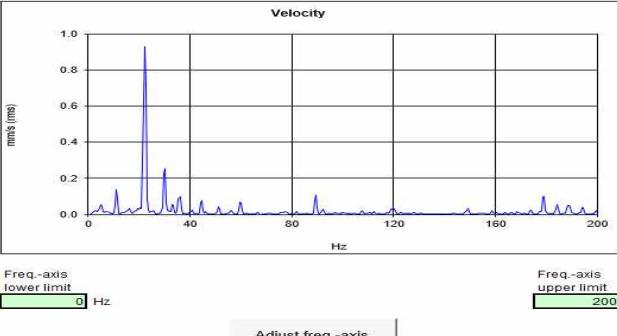
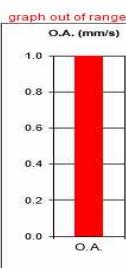
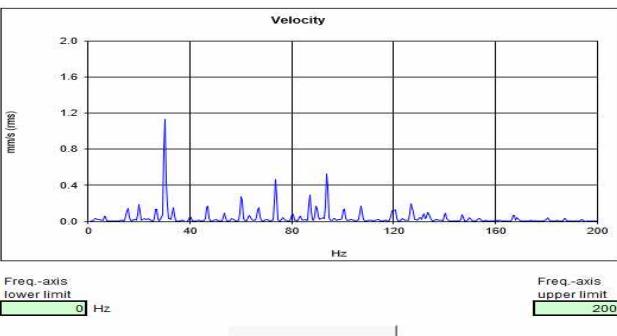
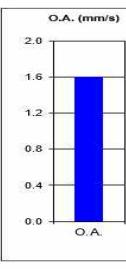
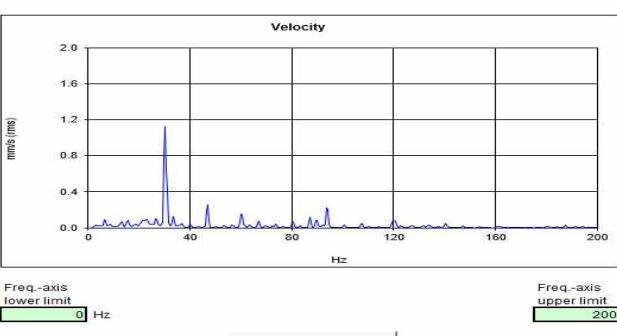
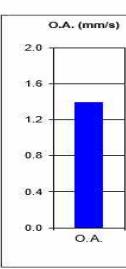
검토의견

20Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

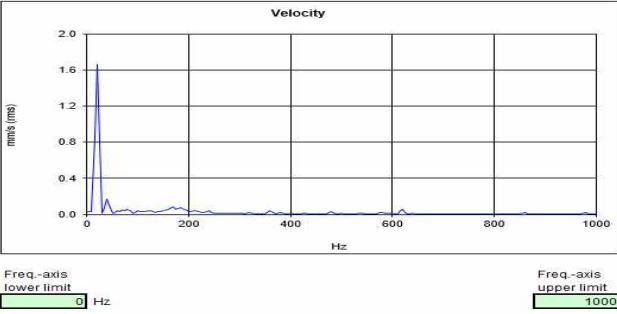
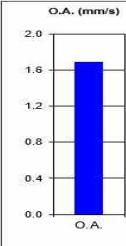
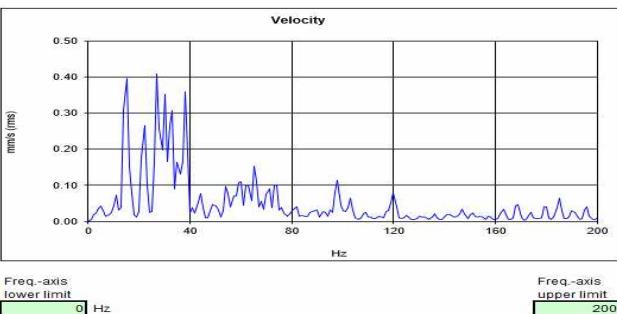
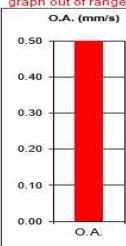
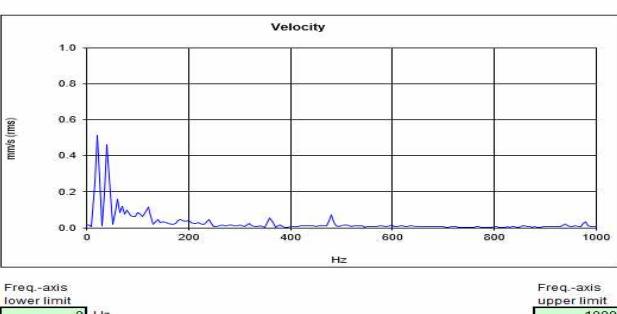
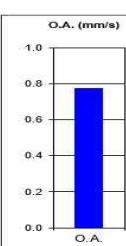
제2장 정밀안전진단 실시결과

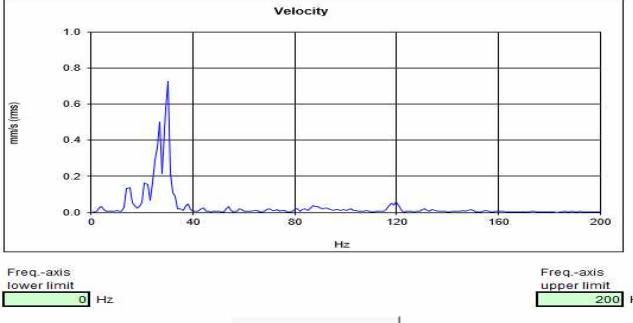
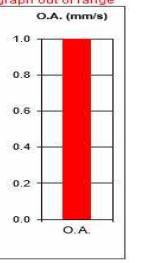
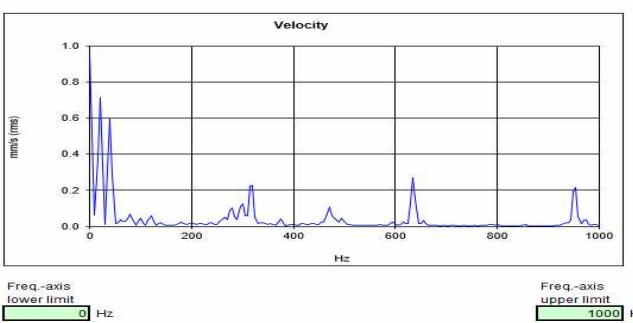
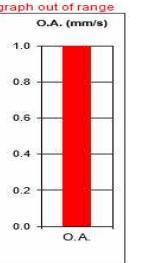
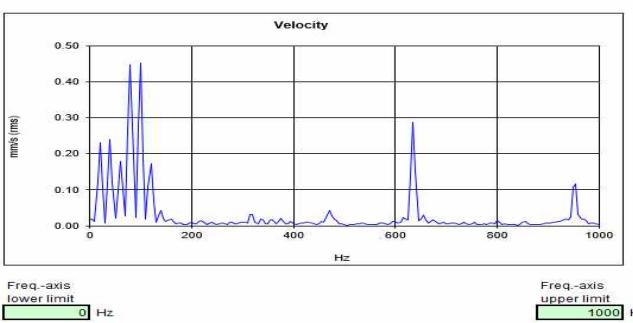
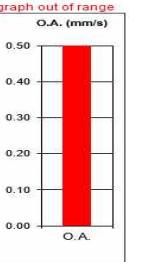
(7) No.7 Light Bridge

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>494</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:24:52</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.373</td></tr> </table> <p>Velocity</p> <p>O.A. (mm/s)</p>	Store address	494	Store Date/Time	2025/07/31 16:24:52	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.373	검토의견 170Hz에서 최대 1.3mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.
Store address	494																																																		
Store Date/Time	2025/07/31 16:24:52																																																		
Range (mm/s)	10																																																		
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Store address	495																																																		
Store Date/Time	2025/07/31 16:25:07																																																		
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<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>496</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:25:19</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.6392</td></tr> </table> <p>Velocity</p> <p>graph out of range</p> <p>O.A. (mm/s)</p>	Store address	496	Store Date/Time	2025/07/31 16:25:19	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.6392	검토의견 40Hz에서 최대 0.6mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.
Store address	496																																																		
Store Date/Time	2025/07/31 16:25:19																																																		
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측정 위치 및 측정 Mode	감속기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>974</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:24:55</td></tr> <tr><td>Range (mm/s)</td><td>31.6</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>5.25</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.08</td></tr> </table>	Store address	974	Store Date/Time	2025/07/31 16:24:55	Range (mm/s)	31.6	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	5.25	O.A.value (mm/s (rms))	1.08		
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검토의견	22Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	감속기 수평(Horizontal) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>975</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:25:07</td></tr> <tr><td>Range (mm/s)</td><td>31.6</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>5.25</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.605</td></tr> </table>	Store address	975	Store Date/Time	2025/07/31 16:25:07	Range (mm/s)	31.6	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	5.25	O.A.value (mm/s (rms))	1.605		
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검토의견	30Hz에서 최대 1.4mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			

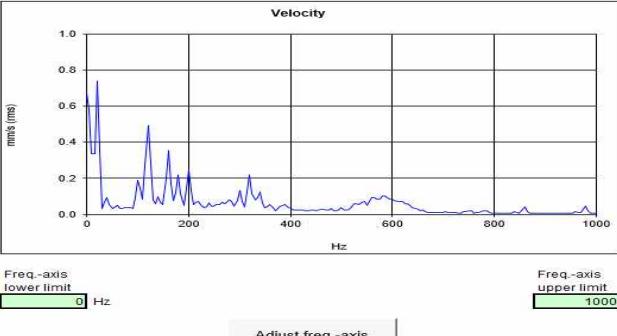
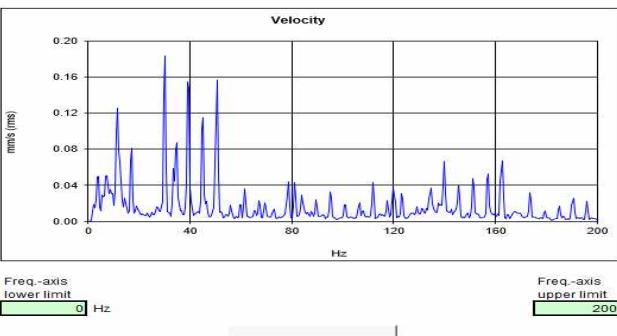
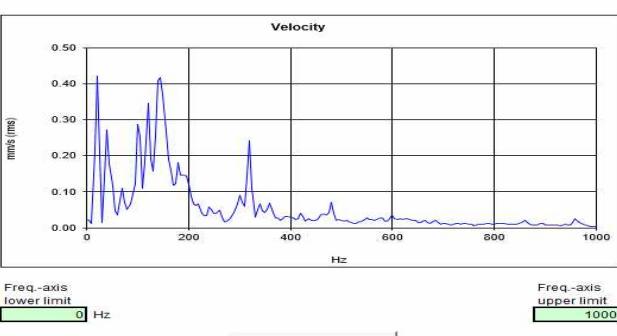
(8) No.8 Light Bridge

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>410</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:12:01</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.69</td></tr> </table>	Store address	410	Store Date/Time	2025/07/31 15:12:01	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.69		
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검토의견	20Hz에서 최대 1.7mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																			
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Sensitivity (mV/ms ⁻²)	4.86																																																			
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검토의견	27Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																			
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Sensitivity (mV/ms ⁻²)	4.86																																																			
O.A.value (mm/s (rms))	0.7731																																																			
검토의견	40Hz에서 최대 0.77mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			

측정 위치 및 측정 Mode		감속기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" data-bbox="218 353 550 734"> <tr><td>Store address</td><td>413</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:12:35</td></tr> <tr><td>Range (mm/s)</td><td>31.6</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.031</td></tr> </table>	Store address	413	Store Date/Time	2025/07/31 15:12:35	Range (mm/s)	31.6	Frequency Span (Hz)	200	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.031	 <div style="display: flex; justify-content: space-around; width: 100%;"> Freq.-axis lower limit 0 Hz Adjust freq.-axis Freq.-axis upper limit 200 Hz </div>	 <p>graph out of range O.A. (mm/s) 1.0 0.8 0.6 0.4 0.2 0.0 O.A.</p>
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Sensitivity (mV/ms ⁻²)	4.86																																																			
O.A.value (mm/s (rms))	1.031																																																			
검토의견	30Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode		감속기 수평(Horizontal) 방향																																																		
Spectrum Mode Velocity <table border="1" data-bbox="218 913 550 1301"> <tr><td>Store address</td><td>414</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:12:55</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.396</td></tr> </table>	Store address	414	Store Date/Time	2025/07/31 15:12:55	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.396	 <div style="display: flex; justify-content: space-around; width: 100%;"> Freq.-axis lower limit 0 Hz Adjust freq.-axis Freq.-axis upper limit 1000 Hz </div>	 <p>graph out of range O.A. (mm/s) 1.0 0.8 0.6 0.4 0.2 0.0 O.A.</p>
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제2장 정밀안전진단 실시결과

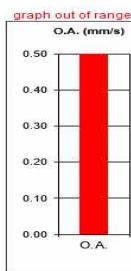
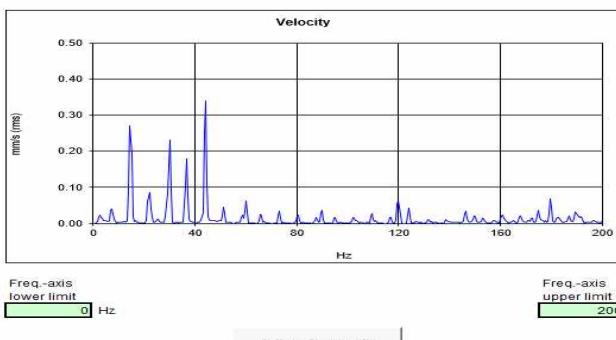
(9) No.9 Light Bridge

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>486</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:19:19</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.409</td></tr> </table>	Store address	486	Store Date/Time	2025/07/31 16:19:19	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.409	 <div style="display: flex; justify-content: space-around; width: 100%;"> graph out of range O.A. (mm/s) </div> <div style="display: flex; justify-content: space-around; width: 100%;"> 0.00 1.00 </div> <div style="display: flex; justify-content: space-around; width: 100%;"> 0 Hz 1000 Hz </div> <div style="text-align: center; margin-top: 10px;">Adjust freq.-axis</div>
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검토의견	120Hz에서 최대 1.4mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																		
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검토의견	30Hz에서 최대 0.47mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																		
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검토의견	4140Hz에서 최대 1.1mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		

측정 위치 및 측정 Mode

감속기 수직(Vertical) 방향

Spectrum Mode		Velocity
Store address	963	
Store Date/Time	2025/07/31 16:19:20	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-571	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	0.5906	



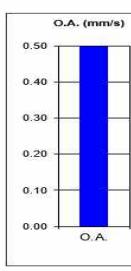
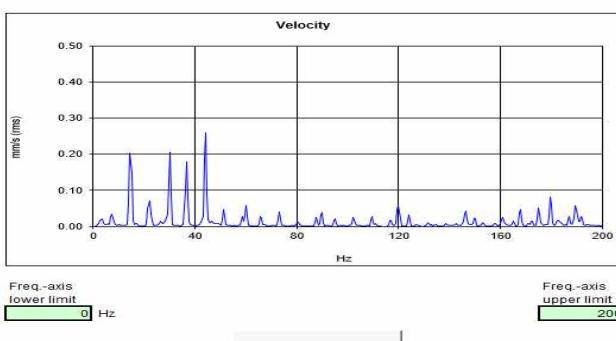
검토의견

44Hz에서 최대 0.6mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 수평(Horizontal) 방향

Spectrum Mode		Velocity
Store address	964	
Store Date/Time	2025/07/31 16:19:19	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-571	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	0.4981	



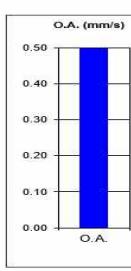
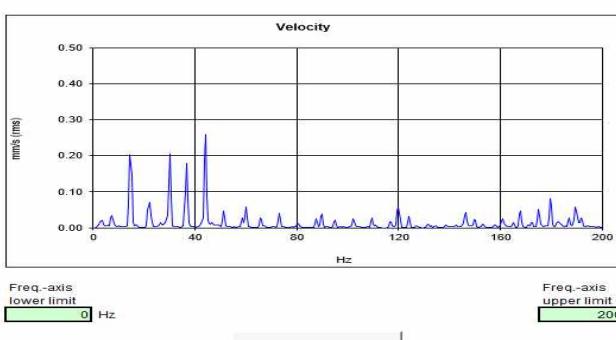
검토의견

44Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 축(Axial) 방향

Spectrum Mode		Velocity
Store address	965	
Store Date/Time	2025/07/31 16:19:34	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-571	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	0.4981	



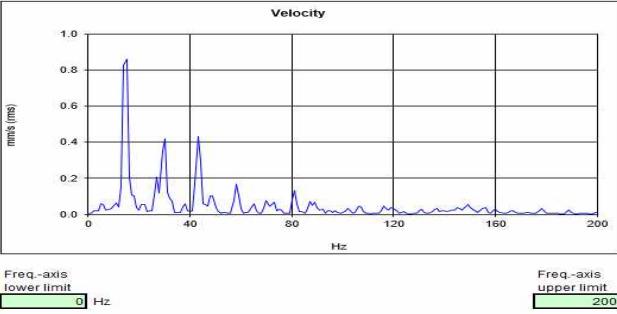
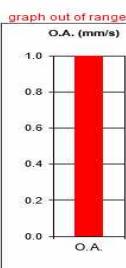
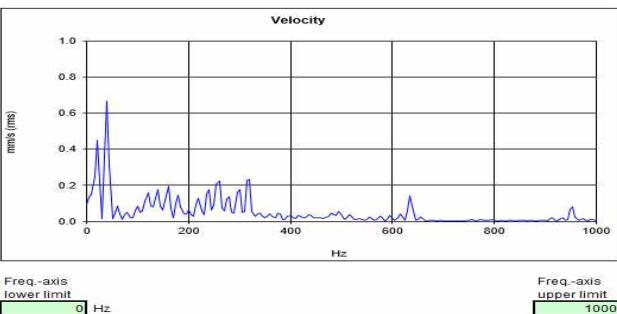
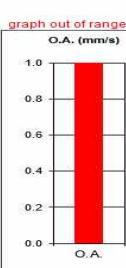
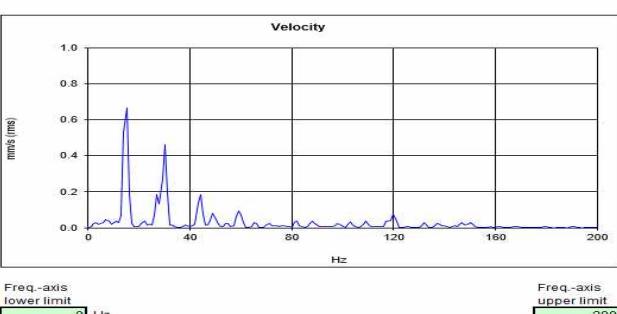
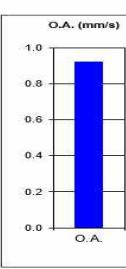
검토의견

44Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.

제2장 정밀안전진단 실시결과

(10) No.10 Light Bridge

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>416</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:13:18</td></tr> <tr><td>Range (mm/s)</td><td>31.6</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.8958</td></tr> </table>	Store address	416	Store Date/Time	2025/07/31 15:13:18	Range (mm/s)	31.6	Frequency Span (Hz)	200	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.8958	<p>Velocity</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 200 Hz</p> <p>Adjust freq.-axis</p>	<p>O.A. (mm/s)</p> <p>mm/s</p> <p>O.A.</p>
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검토의견	30Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
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검토의견	30Hz에서 최대 0.6mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			
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검토의견	29Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			

측정 위치 및 측정 Mode	감속기 수직(Vertical) 방향																																																			
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검토의견	44Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
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검토의견	260Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
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제2장 정밀안전진단 실시결과

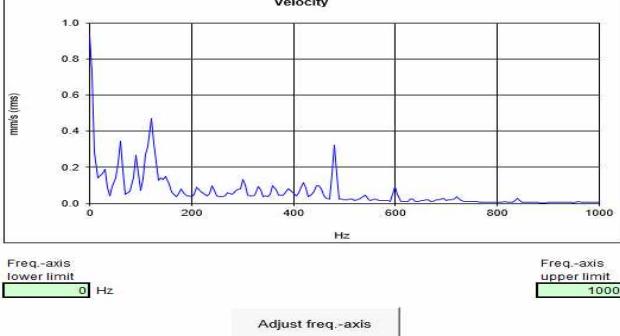
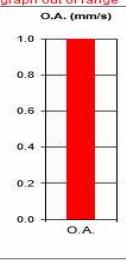
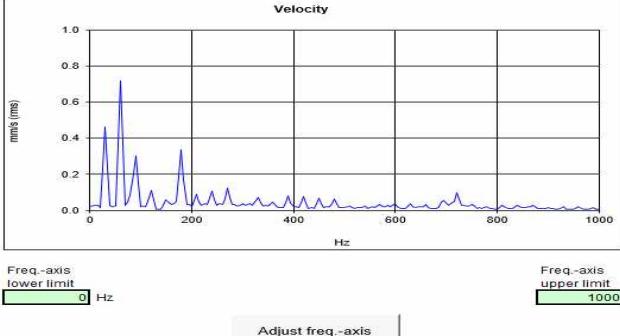
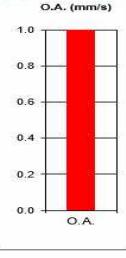
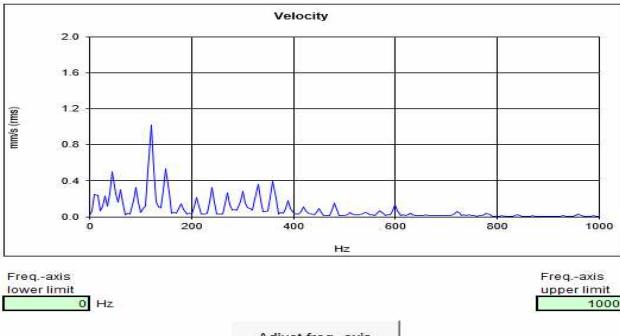
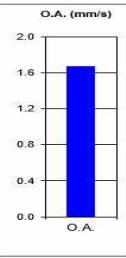
(11) No.1 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																	
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>518</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:37:30</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.08</td></tr> </table> <p>Velocity</p> <p>graph out of range O.A. (mm/s)</p> <p>Adjust freq.-axis</p> <p>Freq.-axis lower limit 0 Hz Freq.-axis upper limit 1000 Hz</p>	Store address	518	Store Date/Time	2025/07/31 16:37:30	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.08
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Store Date/Time	2025/07/31 16:37:30																																																	
Range (mm/s)	10																																																	
Frequency Span (Hz)	1000																																																	
Lines	200																																																	
Window	Hanning																																																	
Operating Type	LIN																																																	
Set average number	10																																																	
Average count	10																																																	
High Pass Filter	3Hz																																																	
Low Pass Filter	1kHz																																																	
Overload	Off																																																	
Trigger:																																																		
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Start Date / Time	2024/05/20 00:00:00																																																	
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Store Number	1																																																	
Trigger Source	Level Trigger																																																	
Pre-Trigger	None																																																	
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<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>522</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:38:02</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.33</td></tr> </table> <p>Velocity</p> <p>graph out of range O.A. (mm/s)</p> <p>Adjust freq.-axis</p> <p>Freq.-axis lower limit 0 Hz Freq.-axis upper limit 1000 Hz</p>	Store address	522	Store Date/Time	2025/07/31 16:38:02	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.33
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검토의견	365Hz에서 최대 1.3mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	

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Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>996</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:37:30</td></tr> <tr><td>Range (mm/s)</td><td>31.6</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>5.25</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.9415</td></tr> </table>	Store address	996	Store Date/Time	2025/07/31 16:37:30	Range (mm/s)	31.6	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	5.25	O.A.value (mm/s (rms))	0.9415	<p>Velocity</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 200 Hz</p> <p>Adjust freq.-axis</p>	<p>O.A. (mm/s)</p> <p>0.0 0.2 0.4 0.6 0.8 1.0</p> <p>O.A.</p>
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제2장 정밀안전진단 실시결과

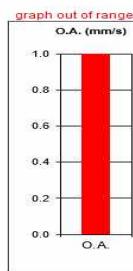
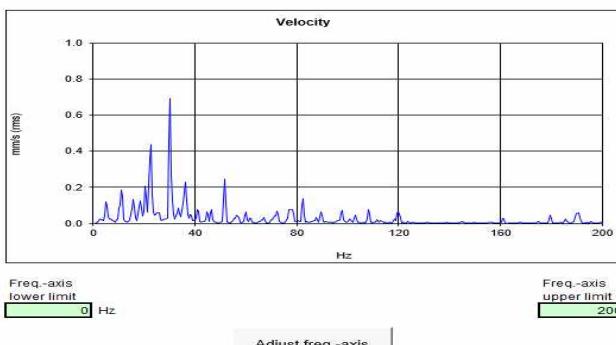
(12) No.2 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																	
Spectrum Mode Velocity <table border="1" data-bbox="218 353 545 734"> <tr><td>Store address</td><td>523</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:38:53</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.432</td></tr> </table>  	Store address	523	Store Date/Time	2025/07/31 16:38:53	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.432
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검토의견	125Hz에서 최대 1.4mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																	
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검토의견	60Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																	
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검토의견	120Hz에서 최대 1.6mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	

측정 위치 및 측정 Mode

감속기 수직(Vertical) 방향

Spectrum Mode		Velocity
Store address	999	
Store Date/Time	2025/07/31 16:39:53	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-571	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	1.077	



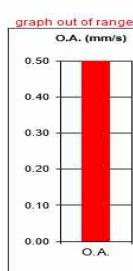
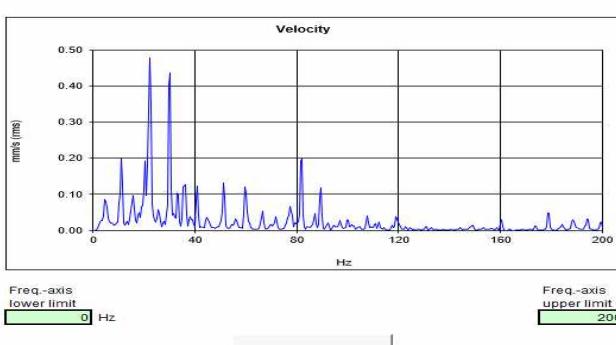
검토의견

30Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 수평(Horizontal) 방향

Spectrum Mode		Velocity
Store address	1000	
Store Date/Time	2025/07/31 16:39:02	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-571	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	0.9216	



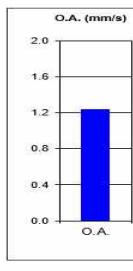
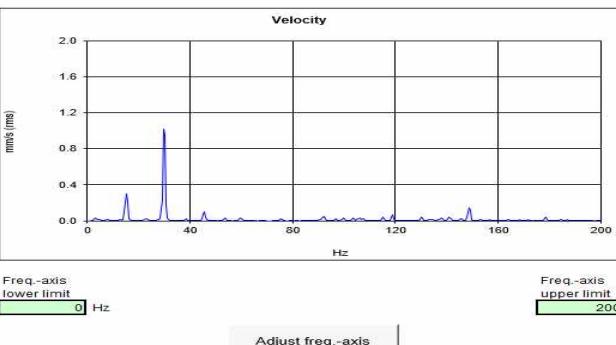
검토의견

22Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 축(Axial) 방향

Spectrum Mode		Velocity
Store address	1	
Store Date/Time	2025/07/31 16:39:13	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-571	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	1.235	

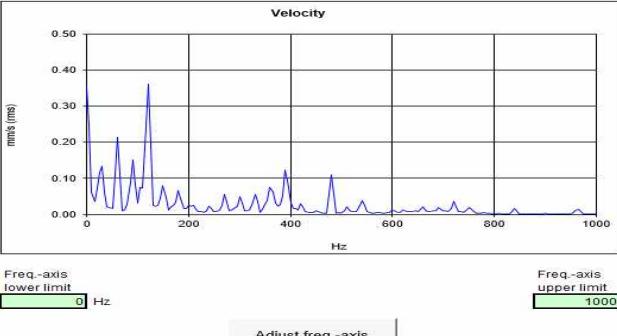
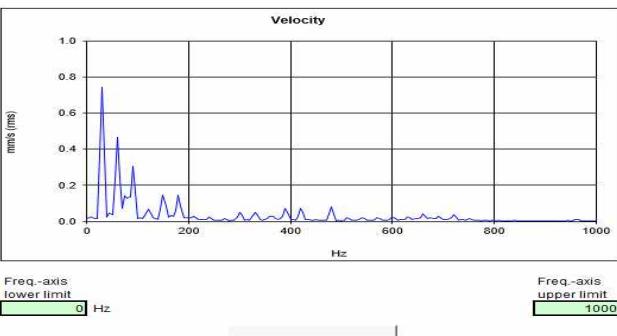
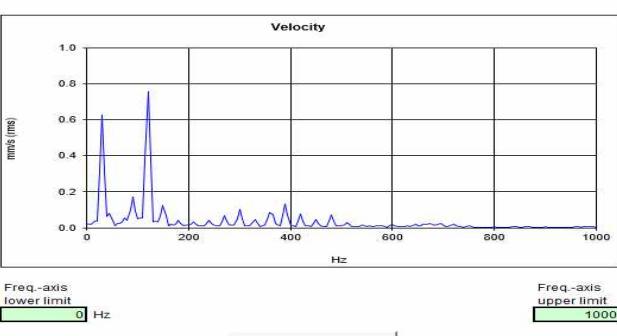


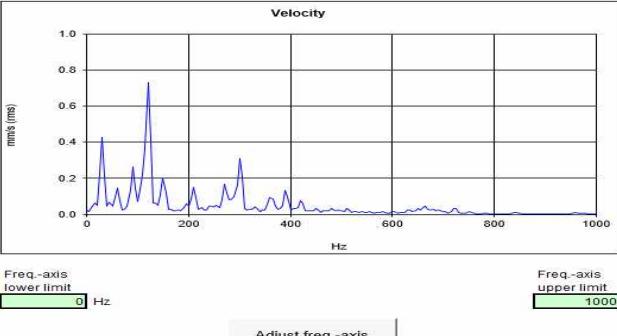
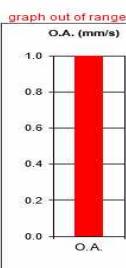
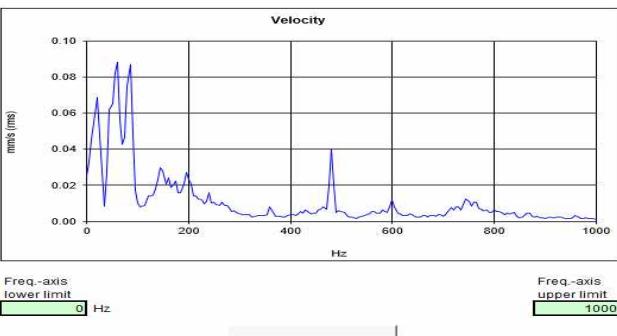
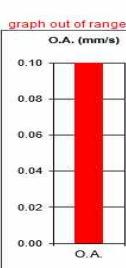
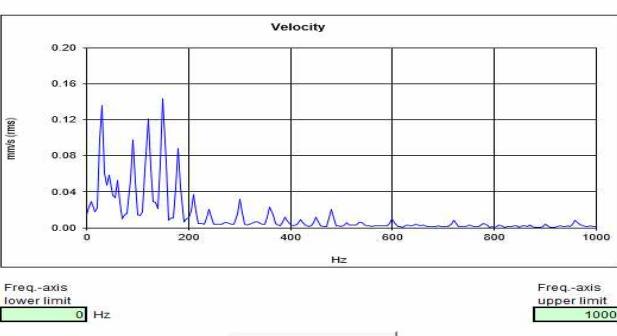
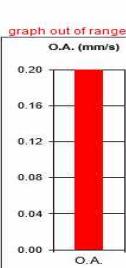
검토의견

30Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

제2장 정밀안전진단 실시결과

(13) No.3 Hoist

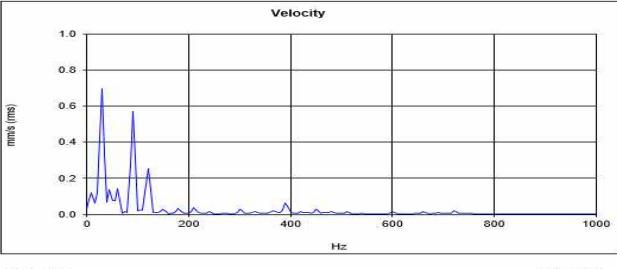
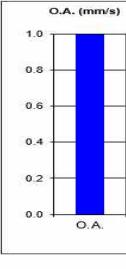
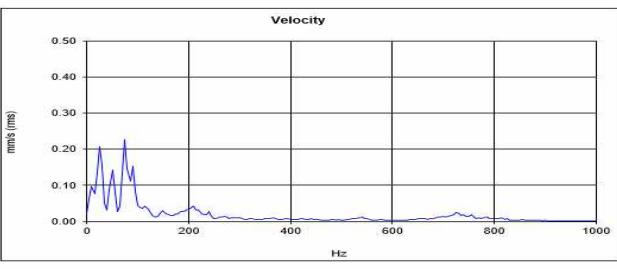
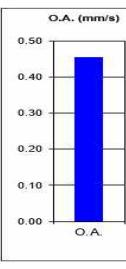
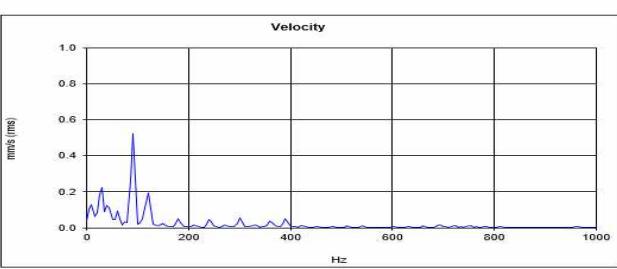
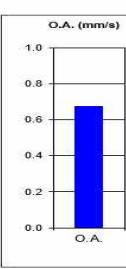
측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>304</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:25:38</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.6658</td></tr> </table>	Store address	304	Store Date/Time	2025/07/31 14:25:38	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.6658	 <div style="display: flex; justify-content: space-between; width: 100%;"> graph out of range O.A. (mm/s) </div> <div style="display: flex; justify-content: space-between; width: 100%;"> 0.50 0.40 0.30 0.20 0.10 0.00 </div> <div style="display: flex; justify-content: space-between; width: 100%;"> O.A. 0.6658 </div>
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검토의견	120Hz에서 최대 0.6mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																		
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Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>305</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:25:54</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.9924</td></tr> </table>	Store address	305	Store Date/Time	2025/07/31 14:25:54	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.9924	 <div style="display: flex; justify-content: space-between; width: 100%;"> graph out of range O.A. (mm/s) </div> <div style="display: flex; justify-content: space-between; width: 100%;"> 1.0 0.8 0.6 0.4 0.2 0.0 </div> <div style="display: flex; justify-content: space-between; width: 100%;"> O.A. 0.9924 </div>
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검토의견	65Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>306</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:26:25</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.054</td></tr> </table>	Store address	306	Store Date/Time	2025/07/31 14:26:25	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.054	 <div style="display: flex; justify-content: space-between; width: 100%;"> graph out of range O.A. (mm/s) </div> <div style="display: flex; justify-content: space-between; width: 100%;"> 1.0 0.8 0.6 0.4 0.2 0.0 </div> <div style="display: flex; justify-content: space-between; width: 100%;"> O.A. 1.054 </div>
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검토의견	120Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		

측정 위치 및 측정 Mode	감속기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>307</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:26:35</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.103</td></tr> </table>	Store address	307	Store Date/Time	2025/07/31 14:26:35	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.103	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq.-axis lower limit Freq.-axis upper limit <input type="button" value="Adjust freq.-axis"/>	 graph out of range O.A. (mm/s) 1.0 0.8 0.6 0.4 0.2 0.0 O.A.
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검토의견	125Hz에서 최대 1.1mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	감속기 수평(Horizontal) 방향																																																			
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검토의견	480Hz에서 최대 0.2mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	감속기 축(Axial) 방향																																																			
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검토의견	155Hz에서 최대 0.3mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			

제2장 정밀안전진단 실시결과

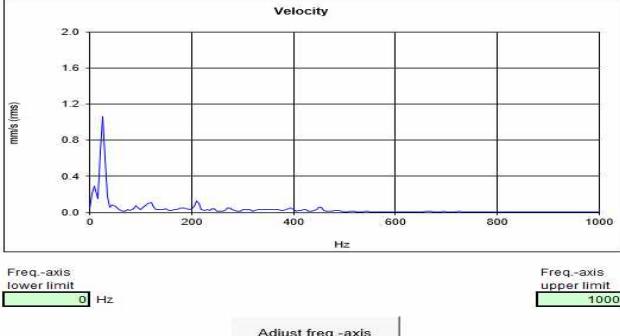
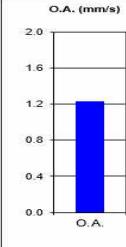
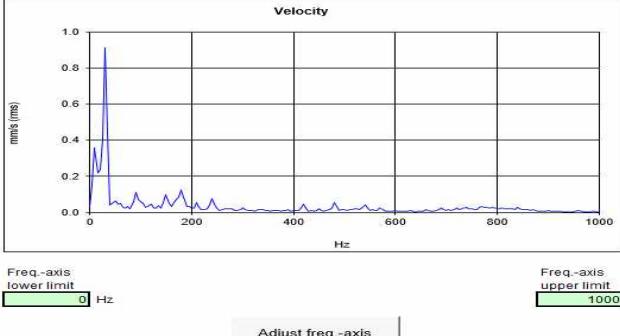
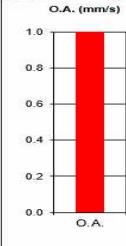
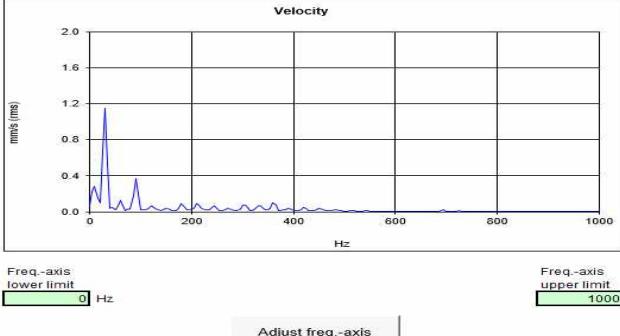
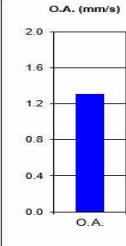
(14) No.4 Hoist

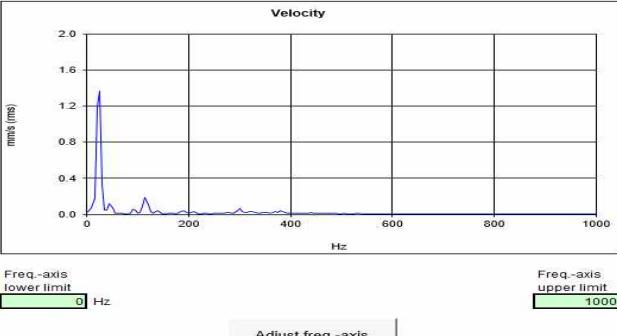
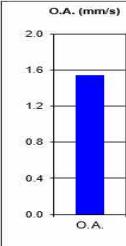
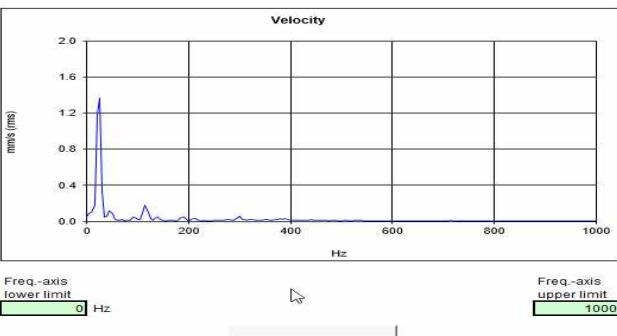
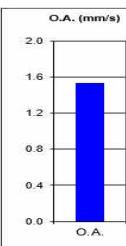
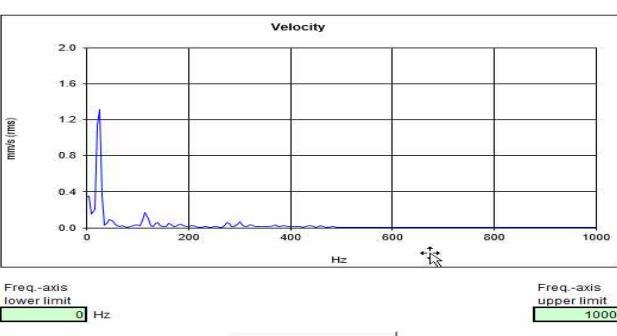
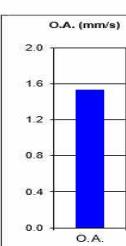
측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																	
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>297</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:19:59</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.9399</td></tr> </table>	Store address	297	Store Date/Time	2025/07/31 14:19:59	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.9399
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제2장 정밀안전진단 실시결과

(15) No.5 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																	
Spectrum Mode Velocity <table border="1" data-bbox="218 331 550 734"> <tr><td>Store address</td><td>289</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:16:06</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.232</td></tr> </table>  	Store address	289	Store Date/Time	2025/07/31 14:16:06	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.232
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O.A.value (mm/s (rms))	1.232																																																	
검토의견	210Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																	
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Sensitivity (mV/ms ⁻²)	4.86																																																	
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검토의견	180Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																	
Spectrum Mode Velocity <table border="1" data-bbox="218 1442 550 1868"> <tr><td>Store address</td><td>291</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:16:38</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.311</td></tr> </table>  	Store address	291	Store Date/Time	2025/07/31 14:16:38	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.311
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검토의견	90Hz에서 최대 1.3mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	

측정 위치 및 측정 Mode	감속기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>282</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:09:59</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.538</td></tr> </table>	Store address	282	Store Date/Time	2025/07/31 14:09:59	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.538	 Velocity mm/s (rms) Hz <div style="display: flex; justify-content: space-around; margin-top: 10px;"> Freq.-axis lower limit 0 Hz Adjust freq.-axis Freq.-axis upper limit 1000 Hz </div>	 O.A. (mm/s) mm/s <div style="display: flex; justify-content: space-around; margin-top: 10px;"> O.A. </div>
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검토의견	110Hz에서 최대 1.5mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	감속기 수평(Horizontal) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>283</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:10:07</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.536</td></tr> </table>	Store address	283	Store Date/Time	2025/07/31 14:10:07	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.536	 Velocity mm/s (rms) Hz <div style="display: flex; justify-content: space-around; margin-top: 10px;"> Freq.-axis lower limit 0 Hz Adjust freq.-axis Freq.-axis upper limit 1000 Hz </div>	 O.A. (mm/s) mm/s <div style="display: flex; justify-content: space-around; margin-top: 10px;"> O.A. </div>
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제2장 정밀안전진단 실시결과

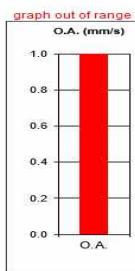
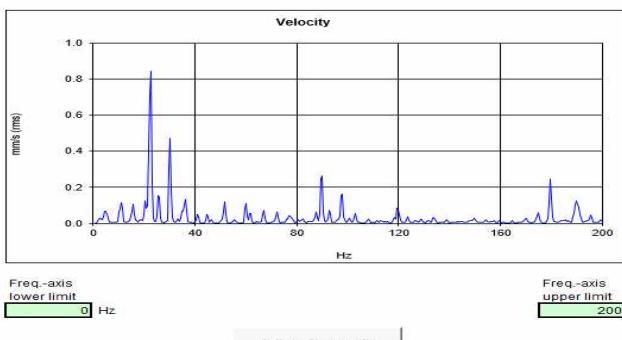
(16) No.6 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>508</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:32:03</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.417</td></tr> </table>	Store address	508	Store Date/Time	2025/07/31 16:32:03	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.417	<p>Velocity</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p>	<p>O.A. (mm/s)</p> <p>mm/s</p> <p>O.A.</p>
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검토의견	120Hz에서 최대 1.4mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
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검토의견	120Hz에서 최대 1.3mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			

측정 위치 및 측정 Mode

감속기 수직(Vertical) 방향

Spectrum Mode		Velocity
Store address	987	
Store Date/Time	2025/07/31 16:32:02	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	1.229	



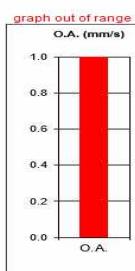
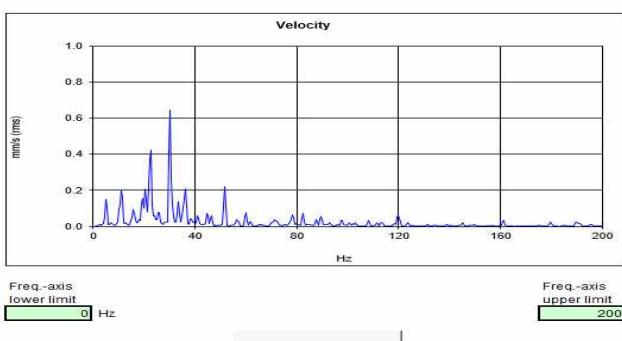
검토의견

23Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 수평(Horizontal) 방향

Spectrum Mode		Velocity
Store address	988	
Store Date/Time	2025/07/31 16:32:14	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	1.017	



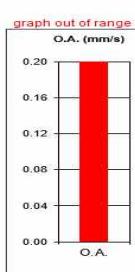
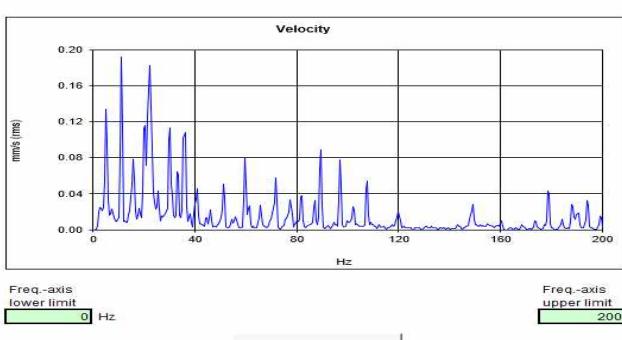
검토의견

30Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 축(Axial) 방향

Spectrum Mode		Velocity
Store address	989	
Store Date/Time	2025/07/31 16:33:37	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	0.4945	

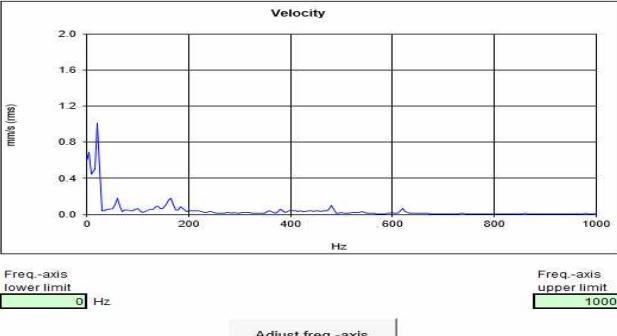
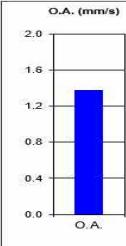
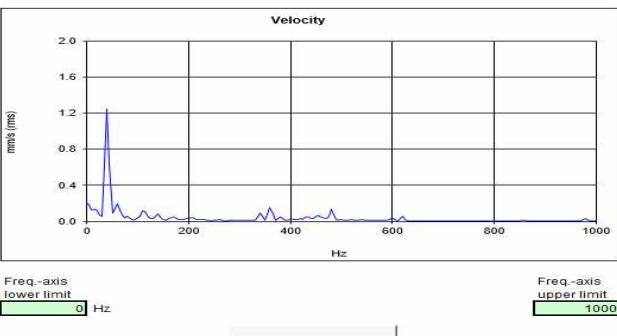
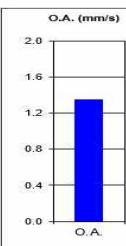
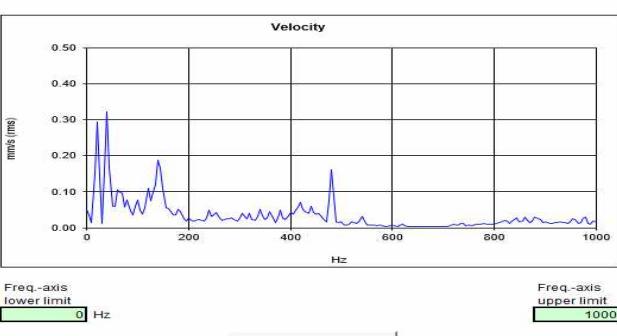
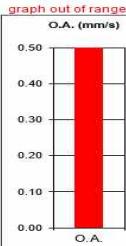


검토의견

90Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.

제2장 정밀안전진단 실시결과

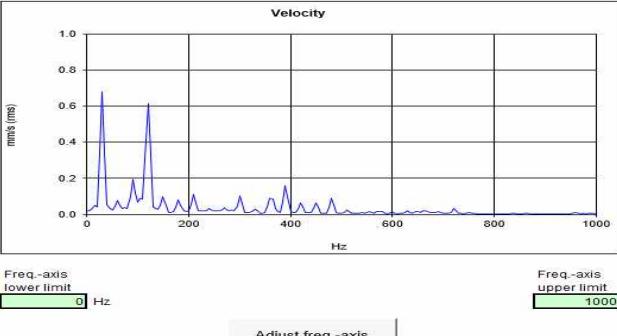
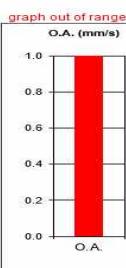
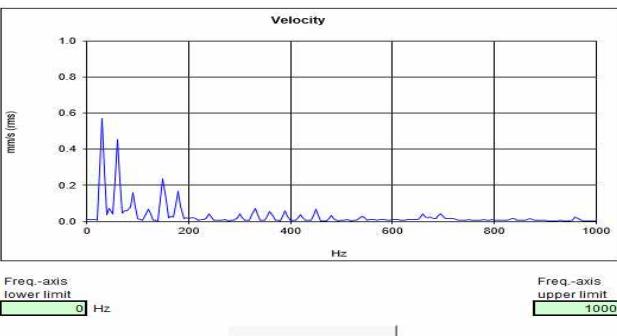
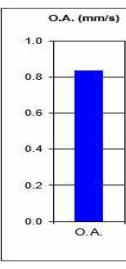
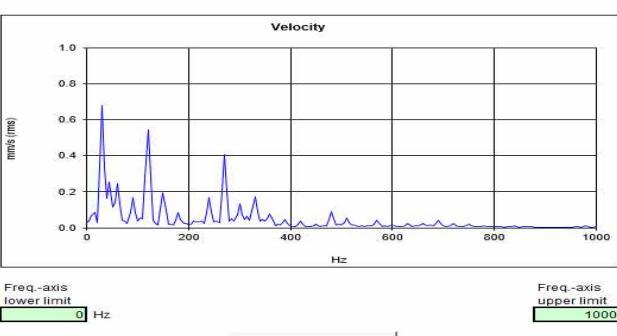
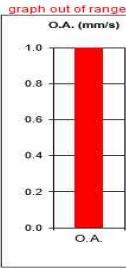
(17) No.7 Hoist

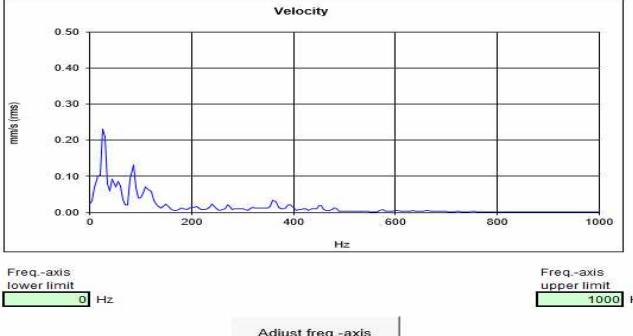
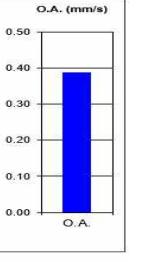
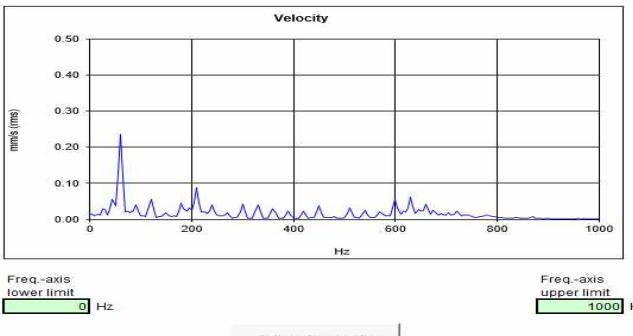
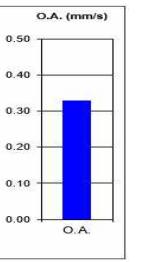
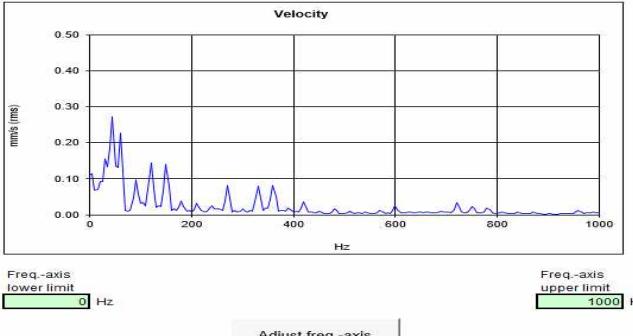
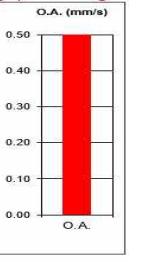
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Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>494</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:24:52</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.373</td></tr> </table>	Store address	494	Store Date/Time	2025/07/31 16:24:52	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.373	 
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Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	1.373																																																		
검토의견	160Hz에서 최대 1.3mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
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검토의견	365Hz에서 최대 1.3mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
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검토의견	480Hz에서 최대 0.6mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																		

측정 위치 및 측정 Mode	감속기 수직(Vertical) 방향																																																			
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검토의견	89Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
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제2장 정밀안전진단 실시결과

(18) No.8 Hoist

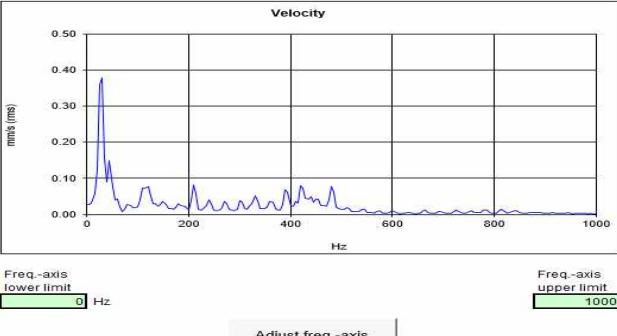
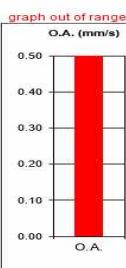
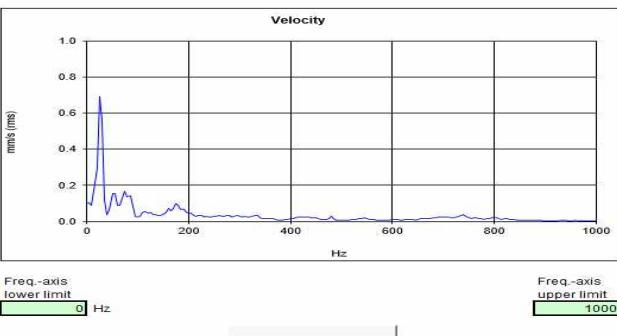
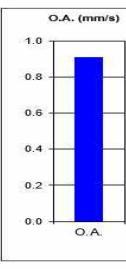
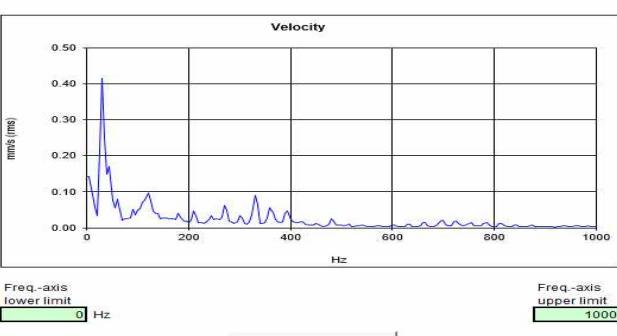
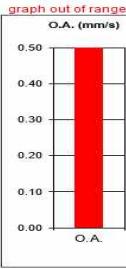
측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100px; border-collapse: collapse; margin-bottom: 5px;"> <tr><td>Store address</td><td>329</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:36:50</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; border-collapse: collapse; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; border-collapse: collapse; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.014</td></tr> </table>	Store address	329	Store Date/Time	2025/07/31 14:36:50	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.014	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq.-axis lower limit Freq.-axis upper limit Adjust freq.-axis  graph out of range O.A. (mm/s) 1.0 0.8 0.6 0.4 0.2 0.0 O.A.	
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Spectrum Mode Velocity <table border="1" data-bbox="218 353 550 734"> <tr><td>Store address</td><td>332</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:37:28</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.3877</td></tr> </table>	Store address	332	Store Date/Time	2025/07/31 14:37:28	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.3877	 <p>Velocity</p> <p>mm/s (rms)</p> <p>0.50</p> <p>0.40</p> <p>0.30</p> <p>0.20</p> <p>0.10</p> <p>0.00</p> <p>0 200 400 600 800 1000 Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p>	 <p>O.A. (mm/s)</p> <p>0.50</p> <p>0.40</p> <p>0.30</p> <p>0.20</p> <p>0.10</p> <p>0.00</p> <p>O.A.</p>
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Window	Hanning																																																			
Operating Type	LIN																																																			
Set average number	10																																																			
Average count	10																																																			
High Pass Filter	3Hz																																																			
Low Pass Filter	1kHz																																																			
Overload	Off																																																			
Trigger:																																																				
Trigger Mode	Free																																																			
Start Date / Time	2024/05/20 00:00:00																																																			
Store Interval	1min																																																			
Store Number	1																																																			
Trigger Source	Level Trigger																																																			
Pre-Trigger	None																																																			
Trigger Level	1																																																			
Slope	+																																																			
Sensor:																																																				
Type	PV-571																																																			
Sensitivity (mV/ms ⁻²)	4.86																																																			
O.A.value (mm/s (rms))	0.5389																																																			
검토의견	125Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			

제2장 정밀안전진단 실시결과

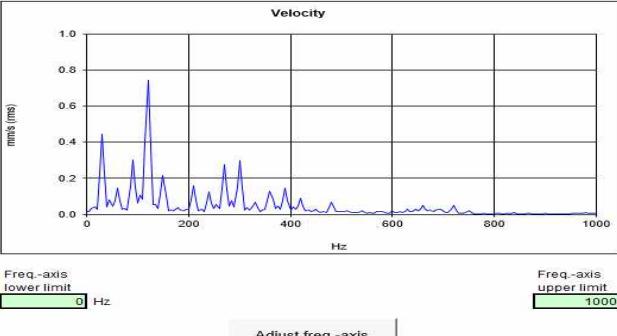
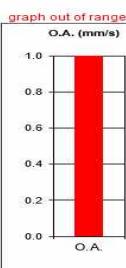
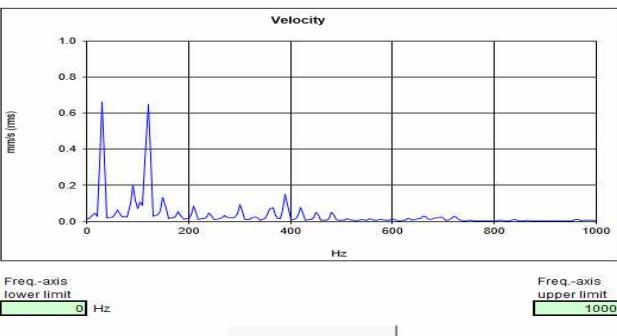
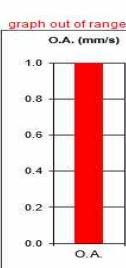
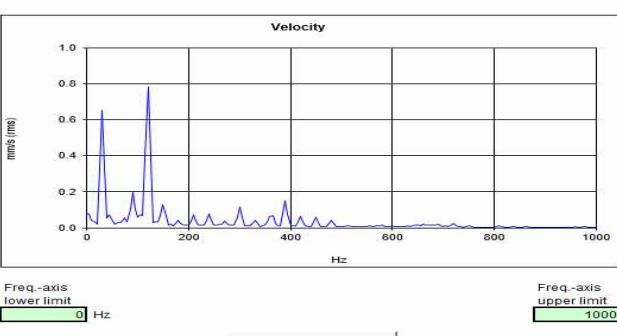
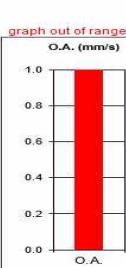
(19) No.9 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																	
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>316</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:31:39</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.087</td></tr> </table> <p>graph out of range O.A. (mm/s) 1.0 0.8 0.6 0.4 0.2 0.0 O.A.</p>	Store address	316	Store Date/Time	2025/07/31 14:31:39	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.087
Store address	316																																																	
Store Date/Time	2025/07/31 14:31:39																																																	
Range (mm/s)	10																																																	
Frequency Span (Hz)	1000																																																	
Lines	200																																																	
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Set average number	10																																																	
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Sensitivity (mV/ms ⁻²)	4.86																																																	
O.A.value (mm/s (rms))	1.087																																																	
검토의견	110Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																	
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>317</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:31:51</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.7056</td></tr> </table> <p>graph out of range O.A. (mm/s) 0.50 0.40 0.30 0.20 0.10 0.00 O.A.</p>	Store address	317	Store Date/Time	2025/07/31 14:31:51	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.7056
Store address	317																																																	
Store Date/Time	2025/07/31 14:31:51																																																	
Range (mm/s)	10																																																	
Frequency Span (Hz)	1000																																																	
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Set average number	10																																																	
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High Pass Filter	3Hz																																																	
Low Pass Filter	1kHz																																																	
Overload	Off																																																	
Trigger:																																																		
Trigger Mode	Free																																																	
Start Date / Time	2024/05/20 00:00:00																																																	
Store Interval	1min																																																	
Store Number	1																																																	
Trigger Source	Level Trigger																																																	
Pre-Trigger	None																																																	
Trigger Level	1																																																	
Slope	+																																																	
Sensor:																																																		
Type	PV-57I																																																	
Sensitivity (mV/ms ⁻²)	4.86																																																	
O.A.value (mm/s (rms))	0.7056																																																	
검토의견	480Hz에서 최대 0.7mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																	
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>318</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:32:03</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.243</td></tr> </table> <p>graph out of range O.A. (mm/s) 1.0 0.8 0.6 0.4 0.2 0.0 O.A.</p>	Store address	318	Store Date/Time	2025/07/31 14:32:03	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.243
Store address	318																																																	
Store Date/Time	2025/07/31 14:32:03																																																	
Range (mm/s)	10																																																	
Frequency Span (Hz)	1000																																																	
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Trigger:																																																		
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Store Interval	1min																																																	
Store Number	1																																																	
Trigger Source	Level Trigger																																																	
Pre-Trigger	None																																																	
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Sensor:																																																		
Type	PV-57I																																																	
Sensitivity (mV/ms ⁻²)	4.86																																																	
O.A.value (mm/s (rms))	1.243																																																	
검토의견	90Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	

측정 위치 및 측정 Mode	감속기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>319</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:32:18</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.5618</td></tr> </table>	Store address	319	Store Date/Time	2025/07/31 14:32:18	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.5618	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq.-axis lower limit Freq.-axis upper limit <input type="button" value="Adjust freq.-axis"/>	 graph out of range O.A. (mm/s) 0.50 0.40 0.30 0.20 0.10 0.00 O.A.
Store address	319																																																			
Store Date/Time	2025/07/31 14:32:18																																																			
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Sensitivity (mV/ms ⁻²)	4.86																																																			
O.A.value (mm/s (rms))	0.5618																																																			
검토의견	215Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	감속기 수평(Horizontal) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>320</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:32:37</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.9079</td></tr> </table>	Store address	320	Store Date/Time	2025/07/31 14:32:37	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.9079	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq.-axis lower limit Freq.-axis upper limit <input type="button" value="Adjust freq.-axis"/>	 O.A. (mm/s) 1.0 0.8 0.6 0.4 0.2 0.0 O.A.
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검토의견	180Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	감속기 축(Axial) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>321</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:33:04</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.5819</td></tr> </table>	Store address	321	Store Date/Time	2025/07/31 14:33:04	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.5819	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq.-axis lower limit Freq.-axis upper limit <input type="button" value="Adjust freq.-axis"/>	 graph out of range O.A. (mm/s) 0.50 0.40 0.30 0.20 0.10 0.00 O.A.
Store address	321																																																			
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Overload	Off																																																			
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Sensitivity (mV/ms ⁻²)	4.86																																																			
O.A.value (mm/s (rms))	0.5819																																																			
검토의견	330Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			

제2장 정밀안전진단 실시결과

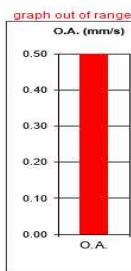
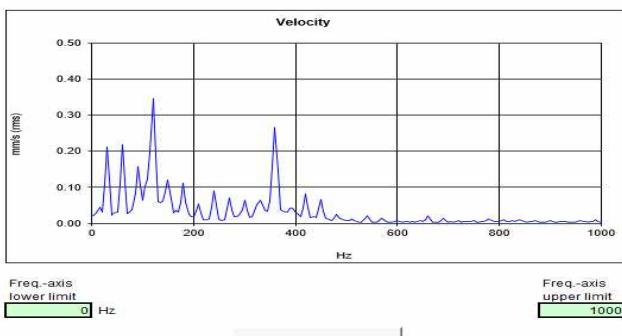
(20) No.10 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																	
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>310</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:27:26</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.119</td></tr> </table>  	Store address	310	Store Date/Time	2025/07/31 14:27:26	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.119
Store address	310																																																	
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검토의견	120Hz에서 최대 1.1mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																	
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>311</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:28:26</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.02</td></tr> </table>  	Store address	311	Store Date/Time	2025/07/31 14:28:26	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.02
Store address	311																																																	
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검토의견	120Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																	
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>312</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:28:38</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.099</td></tr> </table>  	Store address	312	Store Date/Time	2025/07/31 14:28:38	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.099
Store address	312																																																	
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검토의견	120Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	

측정 위치 및 측정 Mode

감속기 수직(Vertical) 방향

Spectrum Mode		Velocity
Store address	313	
Store Date/Time	2025/07/31 14:30:10	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	0.6755	



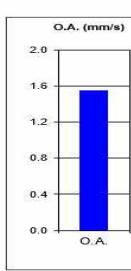
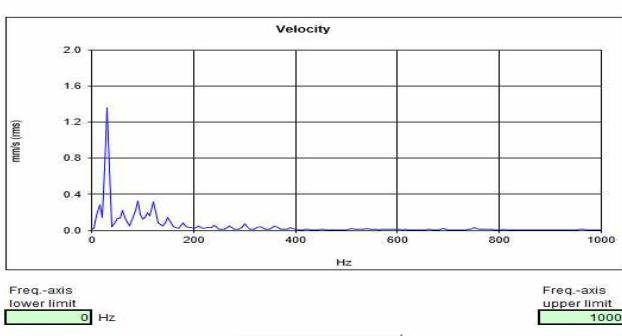
검토의견

120Hz에서 최대 0.6mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 수평(Horizontal) 방향

Spectrum Mode		Velocity
Store address	314	
Store Date/Time	2025/07/31 14:30:26	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	1.548	



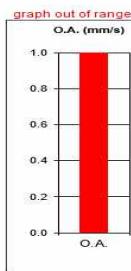
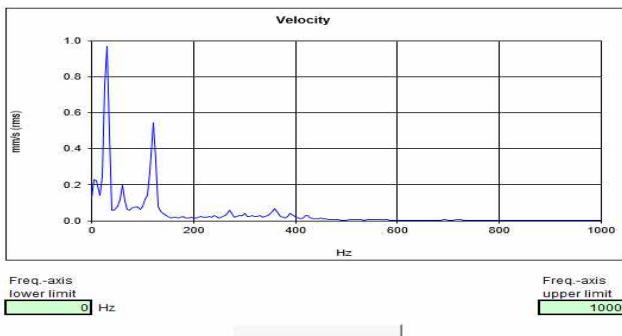
검토의견

120Hz에서 최대 1.5mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 축(Axial) 방향

Spectrum Mode		Velocity
Store address	315	
Store Date/Time	2025/07/31 14:30:45	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	1.32	



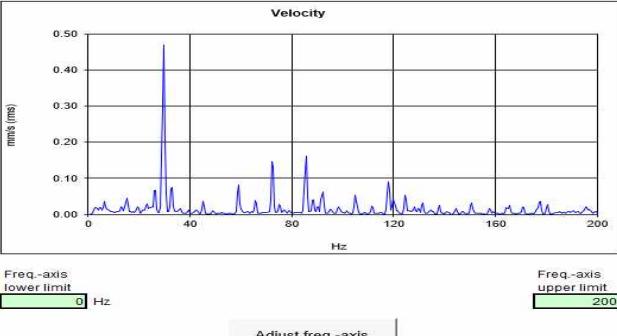
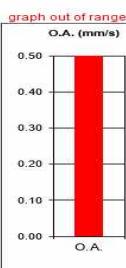
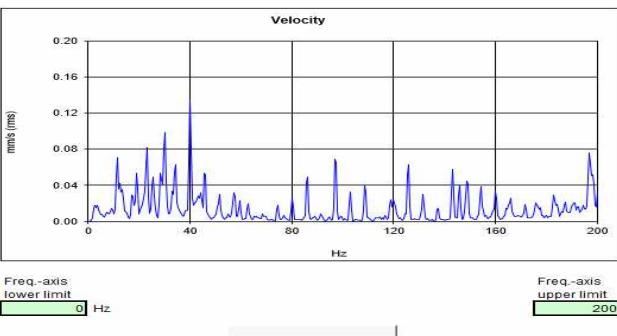
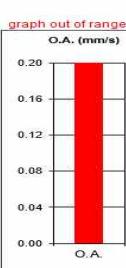
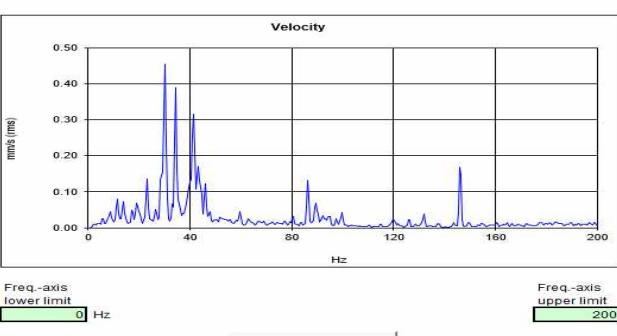
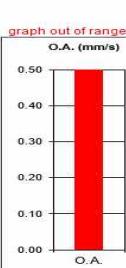
검토의견

125Hz에서 최대 1.3mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

제2장 정밀안전진단 실시결과

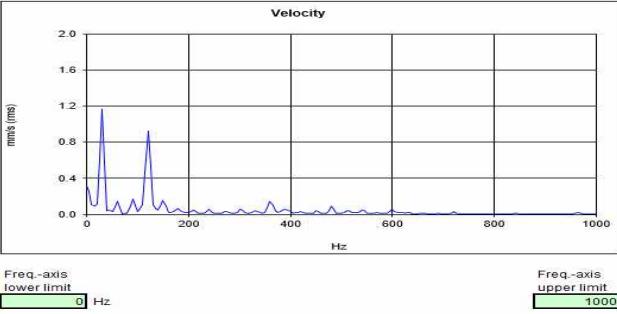
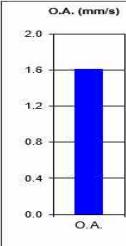
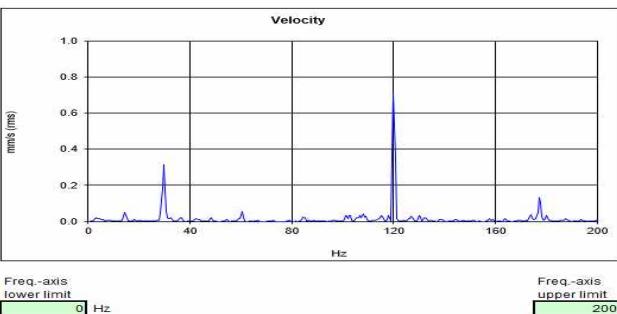
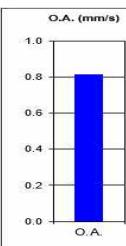
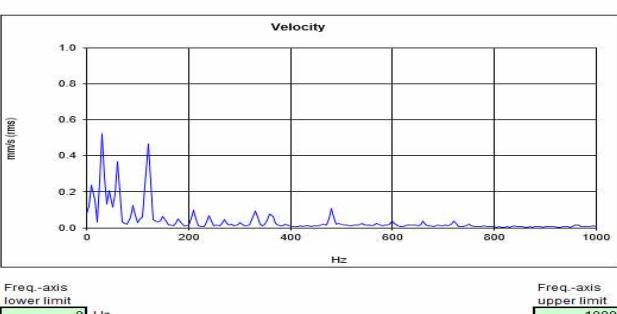
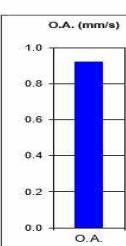
(21) No.11 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>497</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:26:25</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.9778</td></tr> </table>	Store address	497	Store Date/Time	2025/07/31 16:26:25	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.9778	<p>Velocity</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p>	<p>O.A. (mm/s)</p> <p>mm/s</p> <p>O.A.</p>
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제2장 정밀안전진단 실시결과

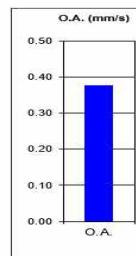
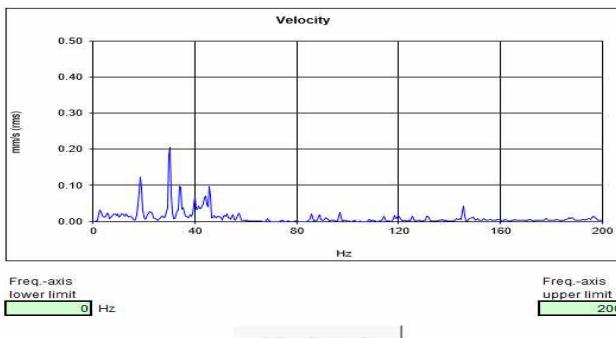
(22) No.12 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>502</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:29:25</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.614</td></tr> </table>	Store address	502	Store Date/Time	2025/07/31 16:29:25	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.614	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq.-axis lower limit Freq.-axis upper limit Adjust freq.-axis	 O.A. (mm/s) mm/s Hz 0.0 2.0 O.A.
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검토의견	120Hz에서 최대 1.6mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>503</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:29:38</td></tr> <tr><td>Range (mm/s)</td><td>100</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2023/11/30 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>5.25</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.8159</td></tr> </table>	Store address	503	Store Date/Time	2025/07/31 16:29:38	Range (mm/s)	100	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2023/11/30 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	5.25	O.A.value (mm/s (rms))	0.8159	 Velocity mm/s (rms) Hz 0 Hz 200 Hz Freq.-axis lower limit Freq.-axis upper limit Adjust freq.-axis	 O.A. (mm/s) mm/s Hz 0.0 1.0 O.A.
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검토의견	120Hz에서 최대 0.8mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>504</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:29:47</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.921</td></tr> </table>	Store address	504	Store Date/Time	2025/07/31 16:29:47	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.921	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq.-axis lower limit Freq.-axis upper limit Adjust freq.-axis	 O.A. (mm/s) mm/s Hz 0.0 1.0 O.A.
Store address	504																																																			
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검토의견	120Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			

측정 위치 및 측정 Mode

감속기 수직(Vertical) 방향

Spectrum Mode		Velocity
Store address	980	
Store Date/Time	2025/07/31 16:29:25	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-571	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	0.3767	



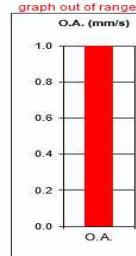
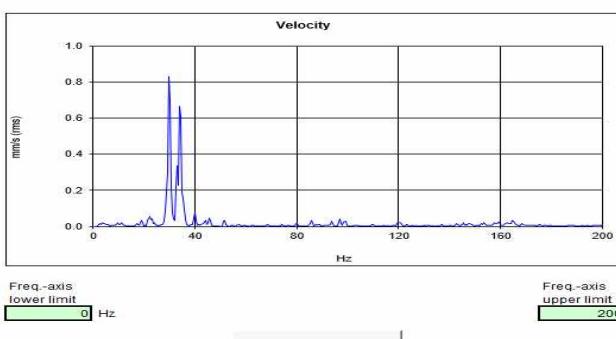
검토의견

30Hz에서 최대 0.3mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 수평(Horizontal) 방향

Spectrum Mode		Velocity
Store address	981	
Store Date/Time	2025/07/31 16:29:40	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-571	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	1.281	



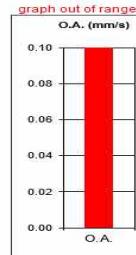
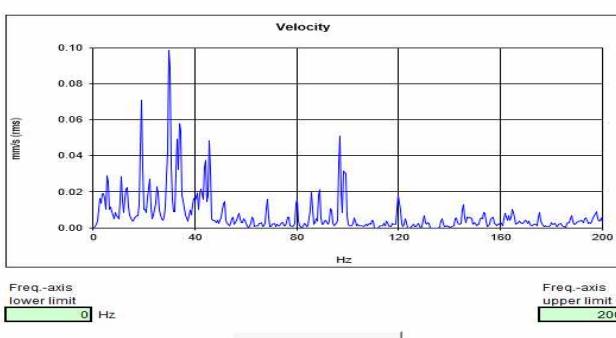
검토의견

30Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 축(Axial) 방향

Spectrum Mode		Velocity
Store address	982	
Store Date/Time	2025/07/31 16:29:47	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-571	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	0.2217	

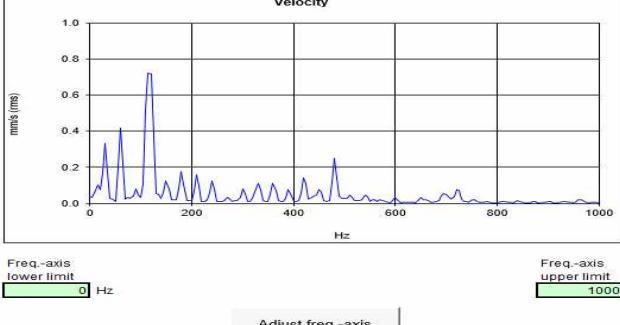
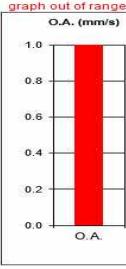
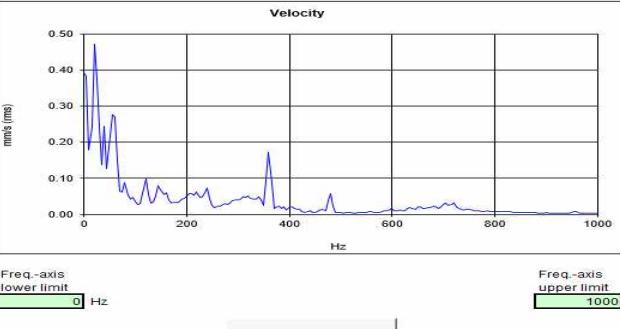
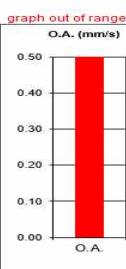
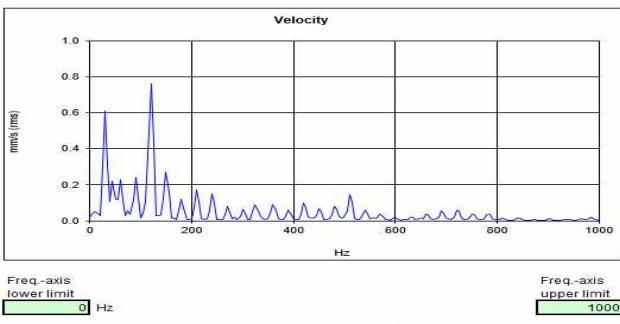
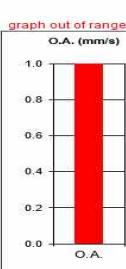


검토의견

97Hz에서 최대 0.3mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.

제2장 정밀안전진단 실시결과

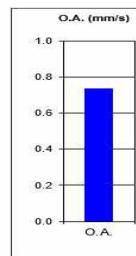
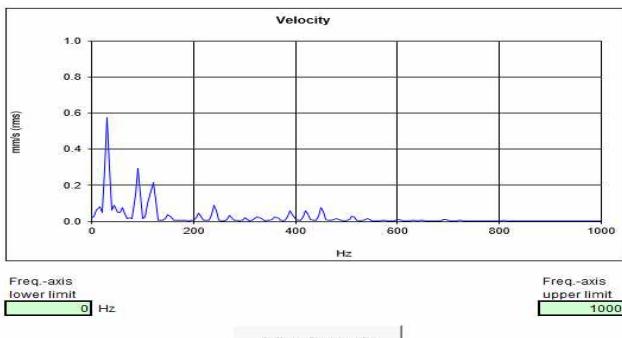
(23) No.13 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																	
Spectrum Mode Velocity <table border="1" data-bbox="218 331 550 734"> <tr><td>Store address</td><td>354</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:47:00</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.244</td></tr> </table>  	Store address	354	Store Date/Time	2025/07/31 14:47:00	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.244
Store address	354																																																	
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검토의견	125Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																	
Spectrum Mode Velocity <table border="1" data-bbox="218 925 550 1305"> <tr><td>Store address</td><td>355</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:47:11</td></tr> <tr><td>Range (mm/s)</td><td>3.16</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>20</td></tr> <tr><td>Average count</td><td>20</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>5.25</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.9402</td></tr> </table>  	Store address	355	Store Date/Time	2025/07/31 14:47:11	Range (mm/s)	3.16	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	20	Average count	20	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	5.25	O.A.value (mm/s (rms))	0.9402
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Sensor:																																																		
Type	PV-571																																																	
Sensitivity (mV/ms ⁻²)	5.25																																																	
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검토의견	360Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																	
Spectrum Mode Velocity <table border="1" data-bbox="218 1462 550 1843"> <tr><td>Store address</td><td>356</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:47:23</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.183</td></tr> </table>  	Store address	356	Store Date/Time	2025/07/31 14:47:23	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.183
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검토의견	120Hz에서 최대 1.1mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	

측정 위치 및 측정 Mode

감속기 수직(Vertical) 방향

Spectrum Mode		Velocity
Store address	357	
Store Date/Time	2025/07/31 14:47:47	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	0.735	



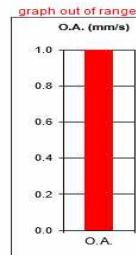
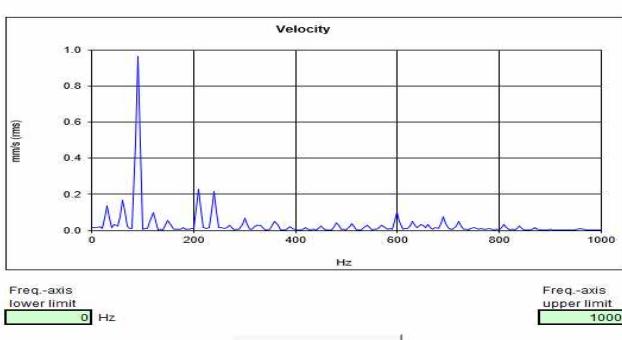
검토의견

90Hz에서 최대 0.73mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 수평(Horizontal) 방향

Spectrum Mode		Velocity
Store address	358	
Store Date/Time	2025/07/31 14:47:57	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	1.068	



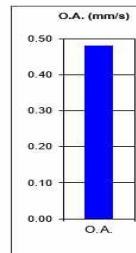
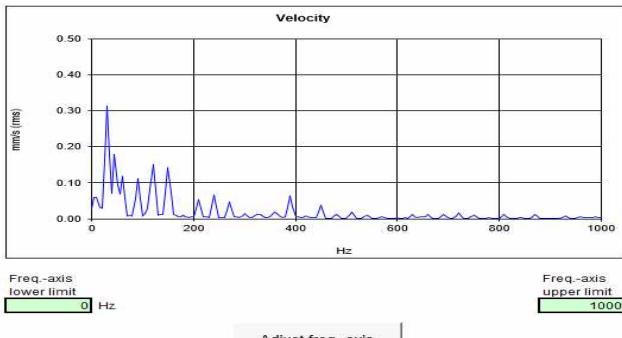
검토의견

210Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 축(Axial) 방향

Spectrum Mode		Velocity
Store address	359	
Store Date/Time	2025/07/31 14:48:12	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	0.4808	

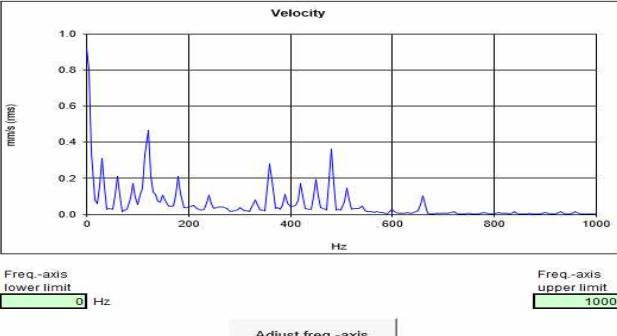
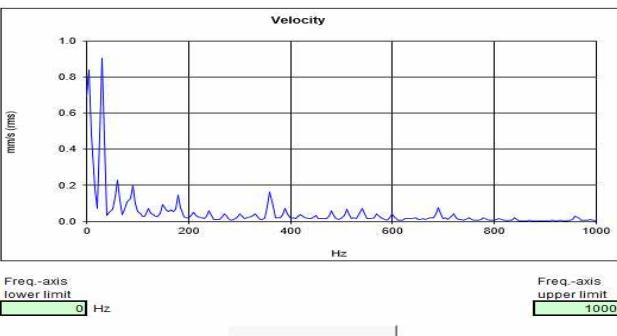
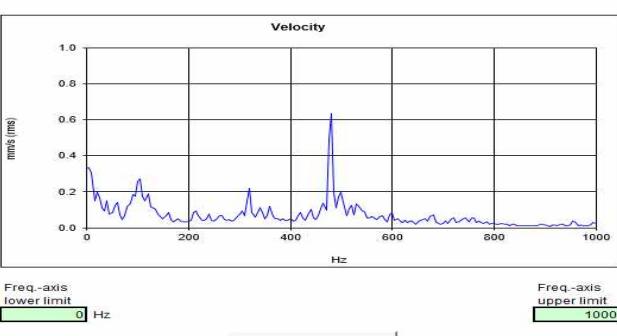


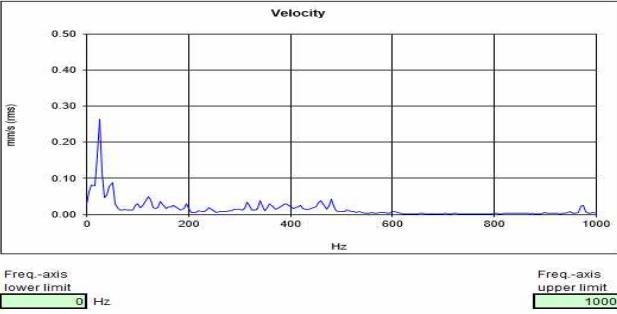
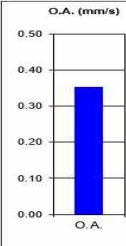
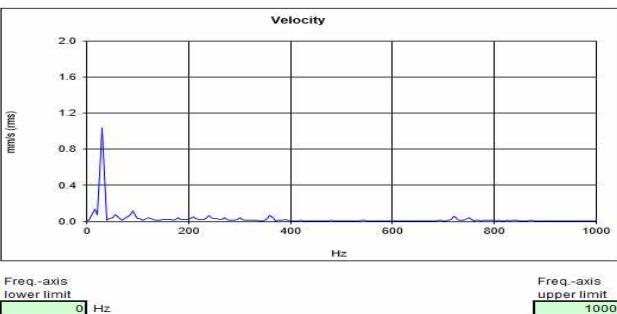
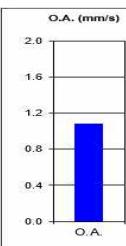
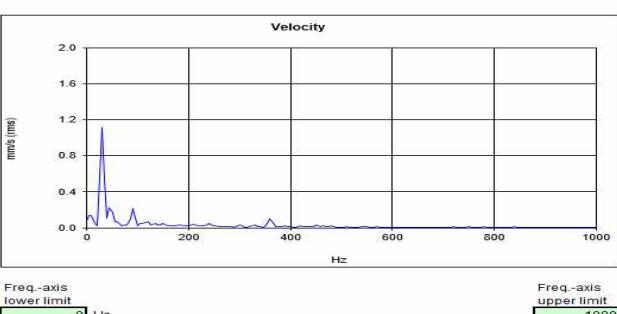
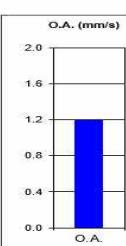
검토의견

390Hz에서 최대 0.48mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.

제2장 정밀안전진단 실시결과

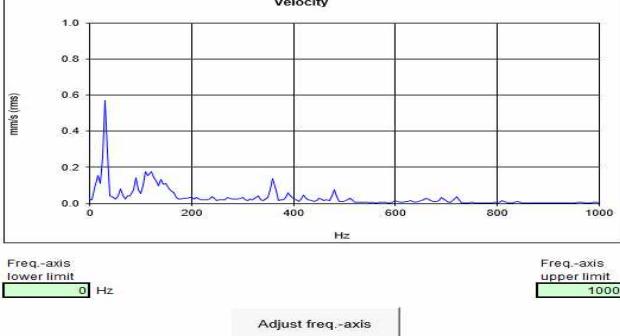
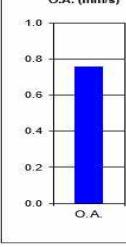
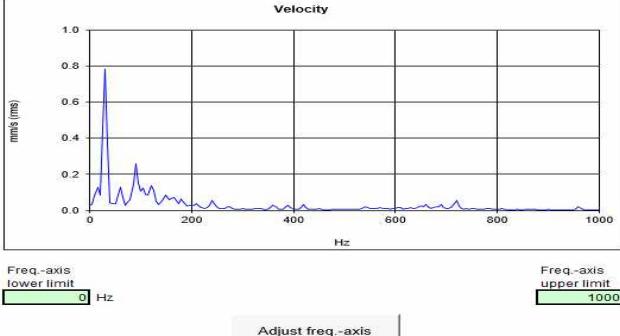
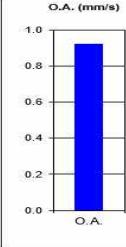
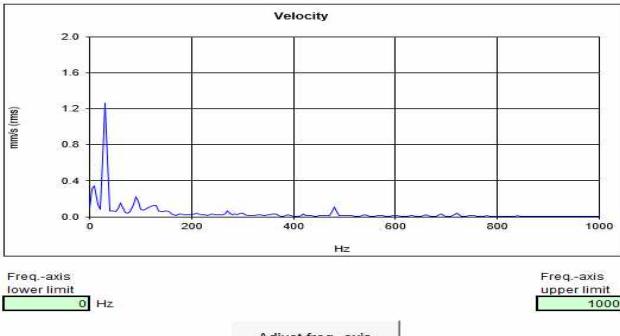
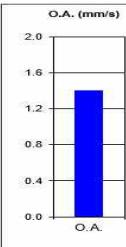
(24) No.14 Hoist

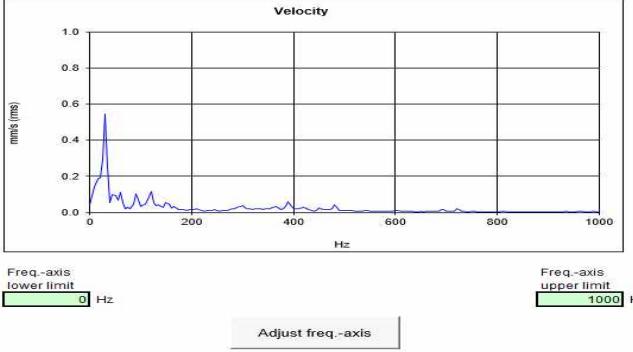
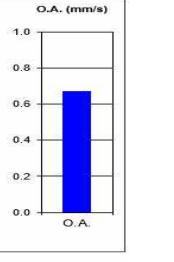
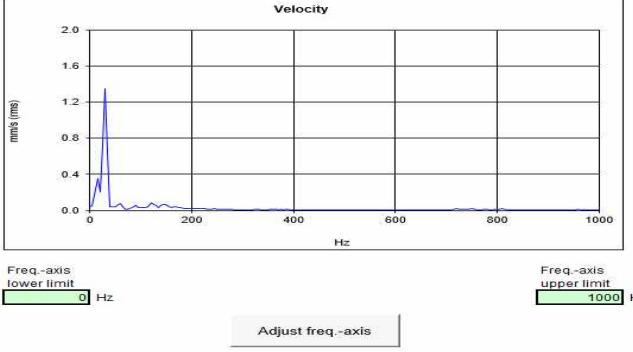
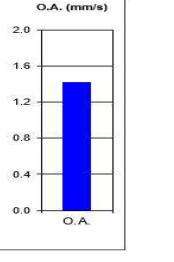
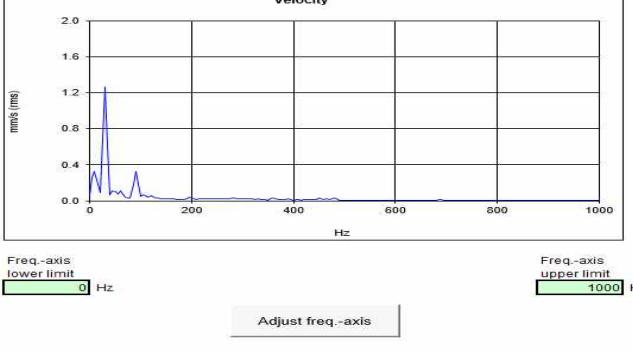
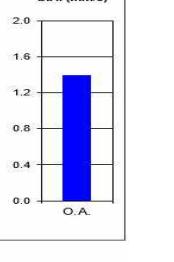
측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>348</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:45:11</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.412</td></tr> </table>	Store address	348	Store Date/Time	2025/07/31 14:45:11	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.412	 <div style="display: flex; justify-content: space-around; width: 100%;"> graph out of range O.A. (mm/s) </div> <div style="display: flex; justify-content: space-around; width: 100%;"> 0.0 1.0 </div> <div style="display: flex; justify-content: space-around; width: 100%;"> 0 Hz 1000 Hz </div> <div style="text-align: center; margin-top: 10px;">Adjust freq.-axis</div>
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Store address	349																																																		
Store Date/Time	2025/07/31 14:45:21																																																		
Range (mm/s)	10																																																		
Frequency Span (Hz)	1000																																																		
Lines	200																																																		
Window	Hanning																																																		
Operating Type	LIN																																																		
Set average number	10																																																		
Average count	10																																																		
High Pass Filter	3Hz																																																		
Low Pass Filter	1kHz																																																		
Overload	Off																																																		
Trigger:																																																			
Trigger Mode	Free																																																		
Start Date / Time	2024/05/20 00:00:00																																																		
Store Interval	1min																																																		
Store Number	1																																																		
Trigger Source	Level Trigger																																																		
Pre-Trigger	None																																																		
Trigger Level	1																																																		
Slope	+																																																		
Sensor:																																																			
Type	PV-57I																																																		
Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	1.432																																																		
검토의견	365Hz에서 최대 1.4mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>350</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:45:31</td></tr> <tr><td>Range (mm/s)</td><td>3.16</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>20</td></tr> <tr><td>Average count</td><td>20</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2025/08/04 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>5.25</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.206</td></tr> </table>	Store address	350	Store Date/Time	2025/07/31 14:45:31	Range (mm/s)	3.16	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	20	Average count	20	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2025/08/04 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	5.25	O.A.value (mm/s (rms))	1.206	 <div style="display: flex; justify-content: space-around; width: 100%;"> graph out of range O.A. (mm/s) </div> <div style="display: flex; justify-content: space-around; width: 100%;"> 0.0 1.0 </div> <div style="display: flex; justify-content: space-around; width: 100%;"> 0 Hz 1000 Hz </div> <div style="text-align: center; margin-top: 10px;">Adjust freq.-axis</div>
Store address	350																																																		
Store Date/Time	2025/07/31 14:45:31																																																		
Range (mm/s)	3.16																																																		
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Lines	200																																																		
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High Pass Filter	3Hz																																																		
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Trigger:																																																			
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Start Date / Time	2025/08/04 00:00:00																																																		
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Trigger Source	Level Trigger																																																		
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Sensitivity (mV/ms ⁻²)	5.25																																																		
O.A.value (mm/s (rms))	1.206																																																		
검토의견	480Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		

측정 위치 및 측정 Mode	감속기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>351</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:45:48</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.352</td></tr> </table>	Store address	351	Store Date/Time	2025/07/31 14:45:48	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.352	 Velocity mm/s (rms) Hz Freq-axis lower limit 0 Hz Freq-axis upper limit 1000 Hz Adjust freq.-axis  O.A. (mm/s) mm/s O.A.
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Type	PV-571																																																		
Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	0.352																																																		
검토의견	120Hz에서 최대 0.3mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	감속기 수평(Horizontal) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>352</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:46:03</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.078</td></tr> </table>	Store address	352	Store Date/Time	2025/07/31 14:46:03	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.078	 Velocity mm/s (rms) Hz Freq-axis lower limit 0 Hz Freq-axis upper limit 1000 Hz Adjust freq.-axis  O.A. (mm/s) mm/s O.A.
Store address	352																																																		
Store Date/Time	2025/07/31 14:46:03																																																		
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검토의견	365Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	감속기 축(Axial) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>353</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:46:28</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.191</td></tr> </table>	Store address	353	Store Date/Time	2025/07/31 14:46:28	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.191	 Velocity mm/s (rms) Hz Freq-axis lower limit 0 Hz Freq-axis upper limit 1000 Hz Adjust freq.-axis  O.A. (mm/s) mm/s O.A.
Store address	353																																																		
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검토의견	360Hz에서 최대 1.1mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		

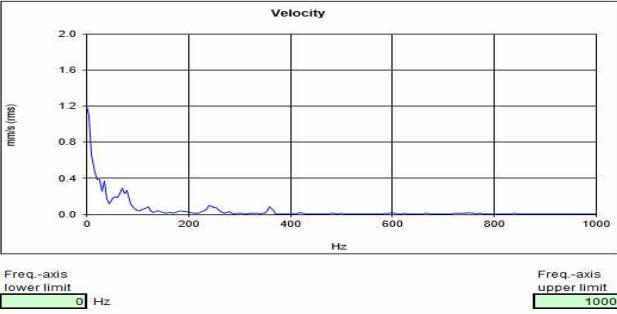
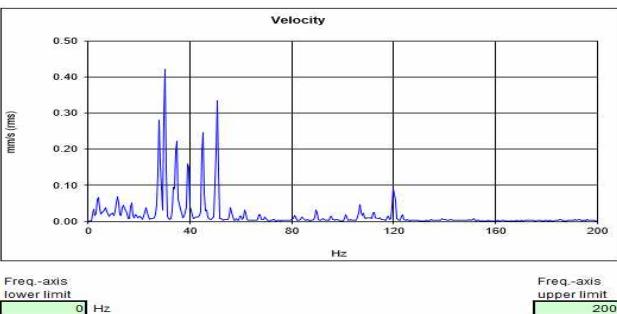
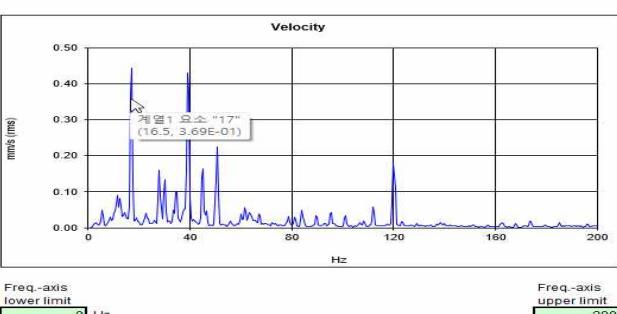
제2장 정밀안전진단 실시결과

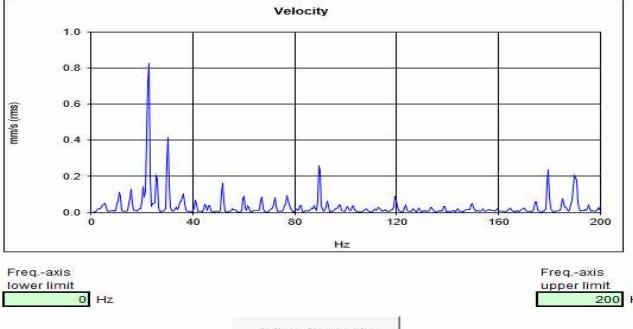
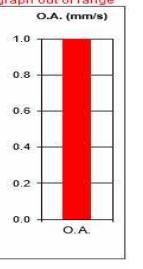
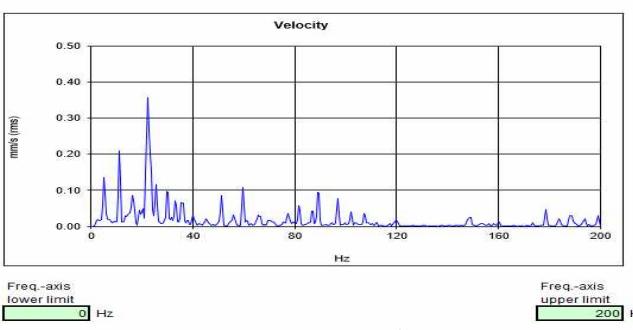
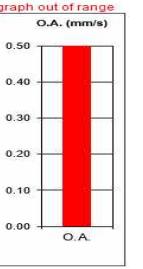
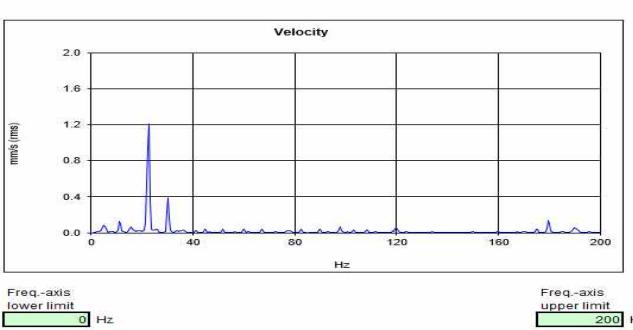
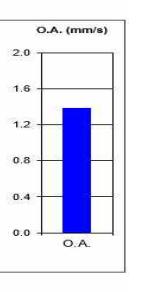
(25) No.15 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																	
Spectrum Mode Velocity <table border="1" data-bbox="218 353 550 734"> <tr><td>Store address</td><td>342</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:43:05</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.7559</td></tr> </table>  	Store address	342	Store Date/Time	2025/07/31 14:43:05	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.7559
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검토의견	360Hz에서 최대 0.75mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																	
Spectrum Mode Velocity <table border="1" data-bbox="218 936 550 1317"> <tr><td>Store address</td><td>343</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:43:15</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.9226</td></tr> </table>  	Store address	343	Store Date/Time	2025/07/31 14:43:15	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.9226
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Trigger Source	Level Trigger																																																	
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Sensitivity (mV/ms ⁻²)	4.86																																																	
O.A.value (mm/s (rms))	0.9226																																																	
검토의견	90Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																	
Spectrum Mode Velocity <table border="1" data-bbox="218 1473 550 1854"> <tr><td>Store address</td><td>344</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:43:30</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.406</td></tr> </table>  	Store address	344	Store Date/Time	2025/07/31 14:43:30	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.406
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Sensitivity (mV/ms ⁻²)	4.86																																																	
O.A.value (mm/s (rms))	1.406																																																	
검토의견	485Hz에서 최대 1.4mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	

측정 위치 및 측정 Mode		감속기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" data-bbox="218 353 550 734"> <tr><td>Store address</td><td>345</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:43:51</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.6718</td></tr> </table>	Store address	345	Store Date/Time	2025/07/31 14:43:51	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.6718		
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Sensitivity (mV/ms ⁻²)	4.86																																																			
O.A.value (mm/s (rms))	0.6718																																																			
검토의견	395Hz에서 최대 0.6mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	감속기 수평(Horizontal) 방향																																																			
Spectrum Mode Velocity <table border="1" data-bbox="218 929 550 1310"> <tr><td>Store address</td><td>346</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:44:02</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.423</td></tr> </table>	Store address	346	Store Date/Time	2025/07/31 14:44:02	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.423		
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Sensitivity (mV/ms ⁻²)	4.86																																																			
O.A.value (mm/s (rms))	1.423																																																			
검토의견	42Hz에서 최대 0.5mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	감속기 축(Axial) 방향																																																			
Spectrum Mode Velocity <table border="1" data-bbox="218 1505 550 1886"> <tr><td>Store address</td><td>347</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:44:15</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.395</td></tr> </table>	Store address	347	Store Date/Time	2025/07/31 14:44:15	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.395		
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Sensitivity (mV/ms ⁻²)	4.86																																																			
O.A.value (mm/s (rms))	1.395																																																			
검토의견	130Hz에서 최대 1.3mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			

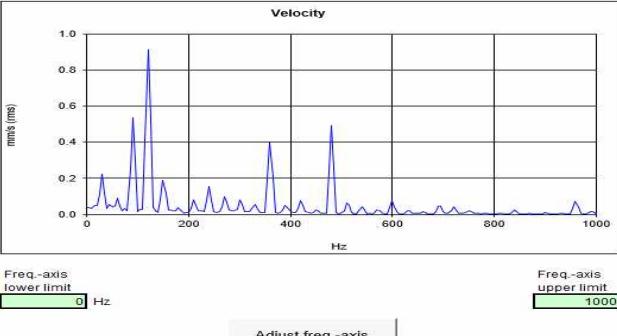
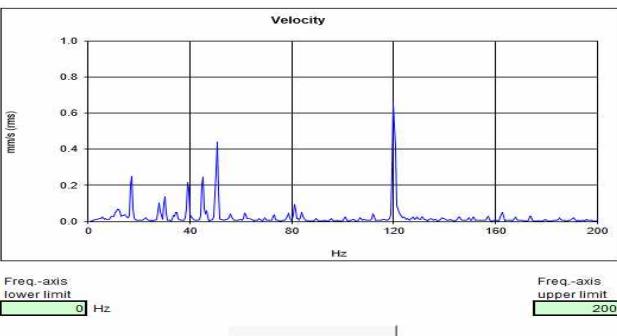
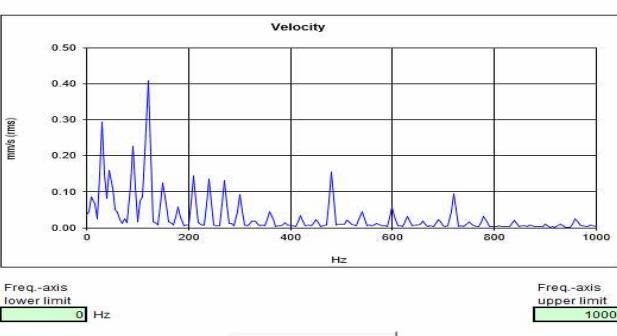
(26) No.16 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>491</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:23:30</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.694</td></tr> </table>	Store address	491	Store Date/Time	2025/07/31 16:23:30	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.694	 <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="text-align: center;"> <p>Velocity</p> <p>mm/s (rms)</p> <p>0.0 0.4 0.8 1.2 1.6 2.0</p> <p>0 200 400 600 800 1000 Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p> </div> <div style="text-align: center;"> <p>Adjust freq.-axis</p> </div> <div style="text-align: center;"> <p>O.A. (mm/s)</p> <p>0.0 0.4 0.8 1.2 1.6 2.0</p> <p>O.A. 1.694</p> </div> </div>
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검토의견	255Hz에서 최대 1.6mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
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검토의견	120Hz에서 최대 0.8mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		

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제2장 정밀안전진단 실시결과

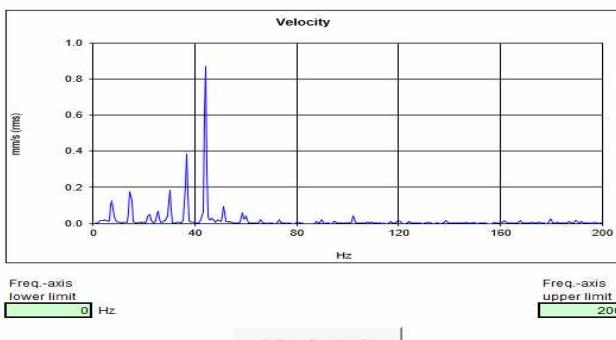
(27) No.17 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>488</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:21:10</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.319</td></tr> </table>	Store address	488	Store Date/Time	2025/07/31 16:21:10	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.319	 <div style="display: flex; justify-content: space-between; width: 100%;"> graph out of range O.A. (mm/s) </div> <div style="display: flex; justify-content: space-between; width: 100%;"> 0 Hz 1000 Hz </div> <div style="text-align: center; margin-top: 10px;">Adjust freq.-axis</div>
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O.A.value (mm/s (rms))	0.7032																																																		
검토의견	125Hz에서 최대 0.7mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																		

측정 위치 및 측정 Mode

감속기 수직(Vertical) 방향

Spectrum Mode		Velocity
Store address	966	
Store Date/Time	2025/07/31 16:21:10	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	8	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-571	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	1.044	



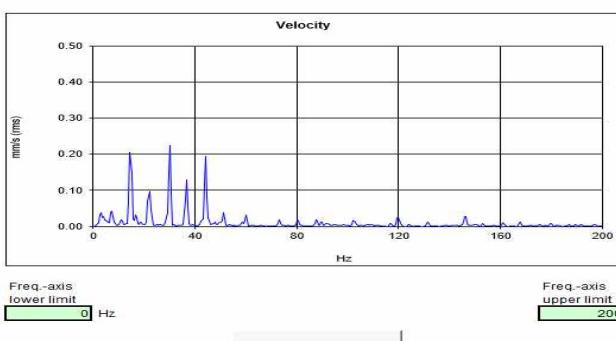
검토의견

44Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 수평(Horizontal) 방향

Spectrum Mode		Velocity
Store address	967	
Store Date/Time	2025/07/31 16:21:24	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-571	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	0.429	



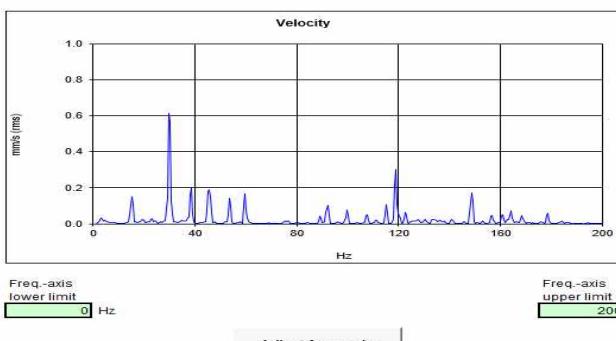
검토의견

30Hz에서 최대 0.4mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 축(Axial) 방향

Spectrum Mode		Velocity
Store address	968	
Store Date/Time	2025/07/31 16:21:36	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-571	
Sensitivity (mV/ms ⁻²)	5.25	
O.A.value (mm/s (rms))	0.9415	

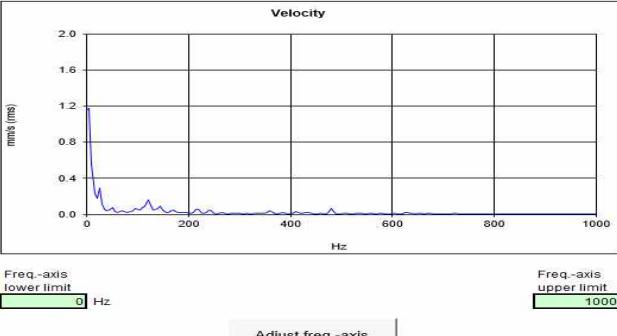
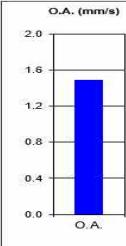
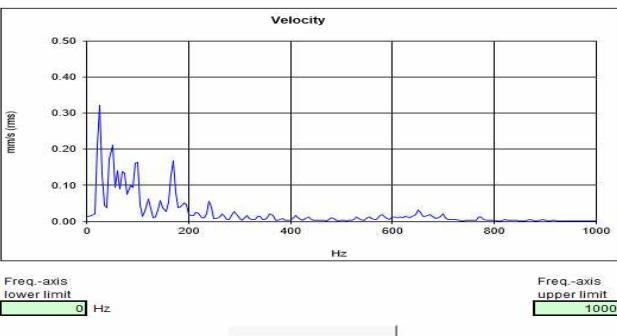
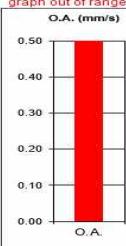
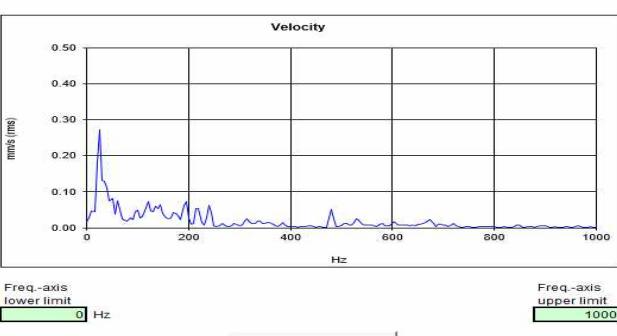
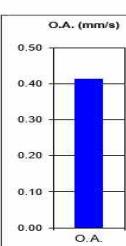


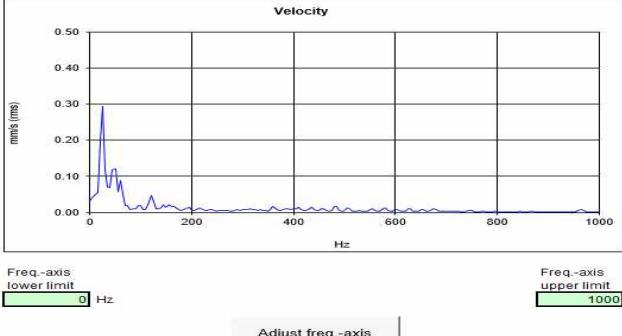
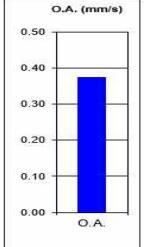
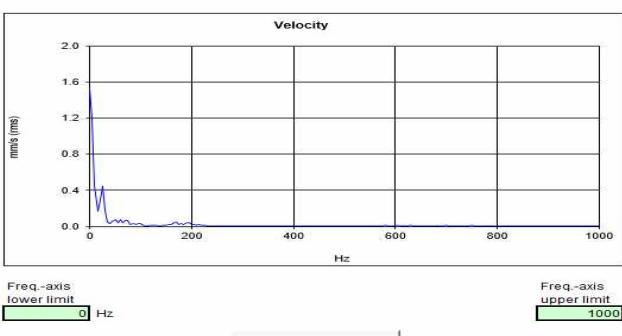
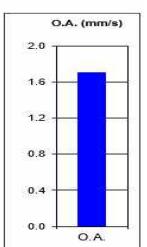
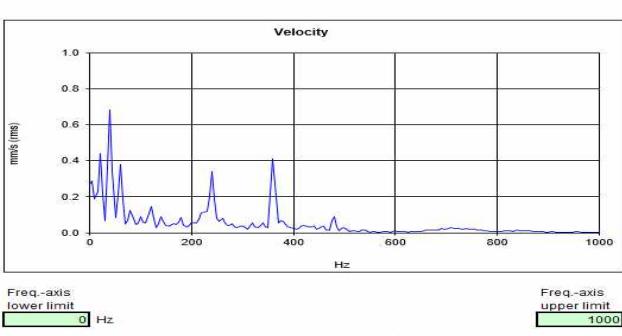
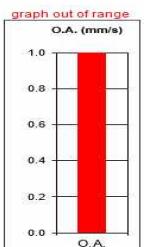
검토의견

30Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

제2장 정밀안전진단 실시결과

(28) No.18 Hoist

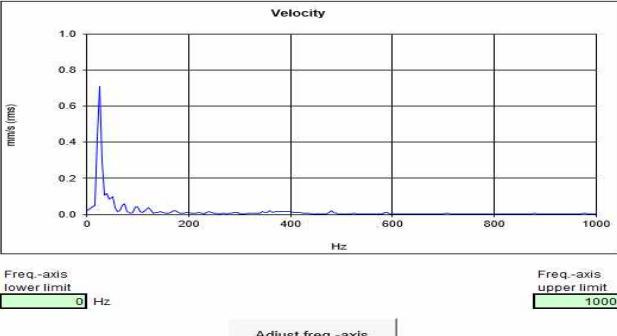
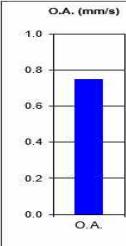
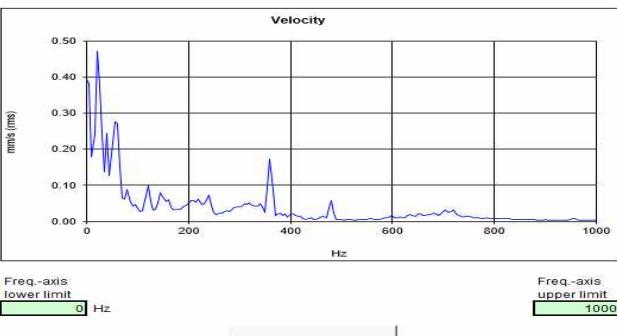
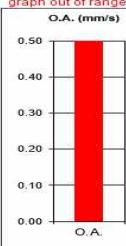
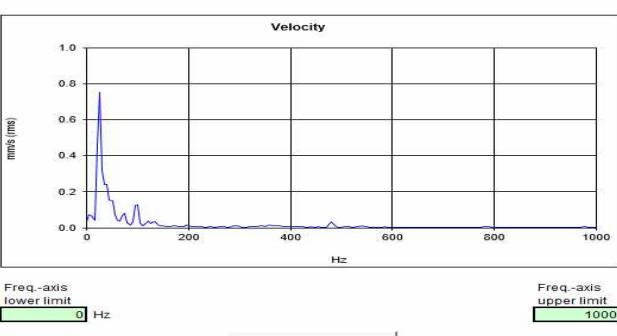
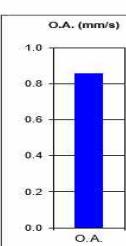
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O.A.value (mm/s (rms))	1.49																																																		
검토의견	120Hz에서 최대 1.4mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>375</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:55:20</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.5702</td></tr> </table>	Store address	375	Store Date/Time	2025/07/31 14:55:20	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.5702	 
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O.A.value (mm/s (rms))	0.5702																																																		
검토의견	170Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>376</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:55:34</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.4127</td></tr> </table>	Store address	376	Store Date/Time	2025/07/31 14:55:34	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.4127	 
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검토의견	485Hz에서 최대 0.4mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																		

측정 위치 및 측정 Mode		감속기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" data-bbox="218 353 555 734"> <tr><td>Store address</td><td>377</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:55:51</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.3752</td></tr> </table>	Store address	377	Store Date/Time	2025/07/31 14:55:51	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.3752	 <p>Velocity</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p>	 <p>O.A. (mm/s)</p> <p>mm/s</p> <p>O.A.</p>
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검토의견	125Hz에서 최대 0.3mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode		감속기 수평(Horizontal) 방향																																																		
Spectrum Mode Velocity <table border="1" data-bbox="218 913 555 1317"> <tr><td>Store address</td><td>378</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:56:06</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.705</td></tr> </table>	Store address	378	Store Date/Time	2025/07/31 14:56:06	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.705	 <p>Velocity</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p>	 <p>O.A. (mm/s)</p> <p>mm/s</p> <p>O.A.</p>
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Sensitivity (mV/ms ⁻²)	4.86																																																			
O.A.value (mm/s (rms))	1.705																																																			
검토의견	180Hz에서 최대 1.7mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode		감속기 축(Axial) 방향																																																		
Spectrum Mode Velocity <table border="1" data-bbox="218 1473 555 1877"> <tr><td>Store address</td><td>379</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 14:56:26</td></tr> <tr><td>Range (mm/s)</td><td>3.16</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>20</td></tr> <tr><td>Average count</td><td>20</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2025/08/04 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>5.25</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.198</td></tr> </table>	Store address	379	Store Date/Time	2025/07/31 14:56:26	Range (mm/s)	3.16	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	20	Average count	20	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2025/08/04 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	5.25	O.A.value (mm/s (rms))	1.198	 <p>Velocity</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p>	 <p>graph out of range</p> <p>O.A. (mm/s)</p> <p>mm/s</p> <p>O.A.</p>
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검토의견	365Hz에서 최대 1.1mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			

제2장 정밀안전진단 실시결과

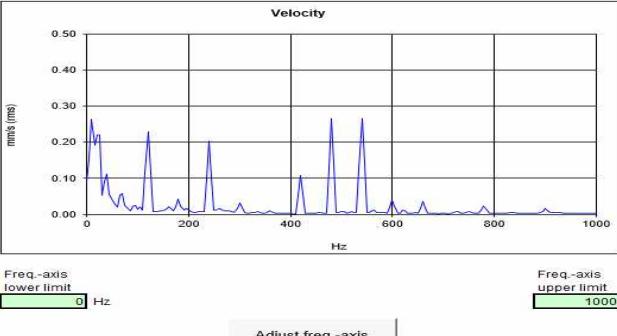
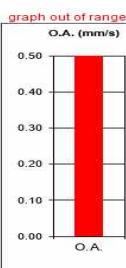
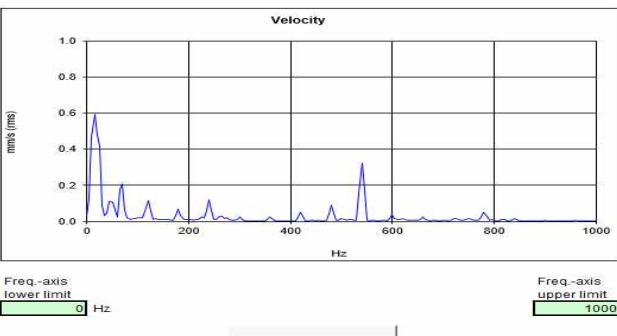
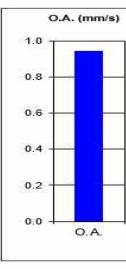
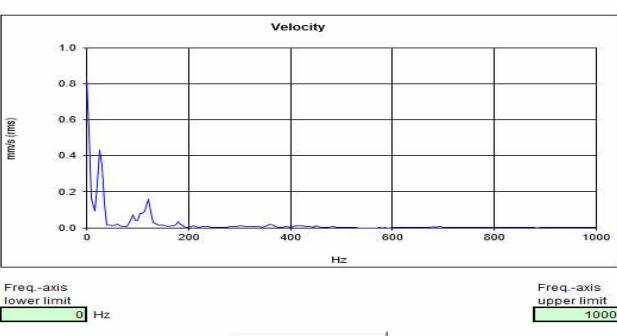
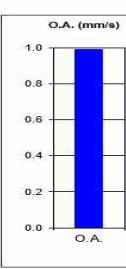
(29) No.19 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																			
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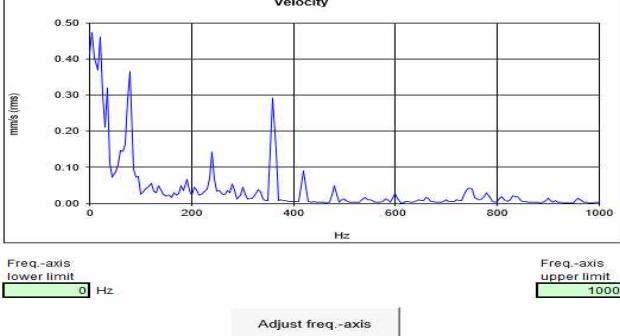
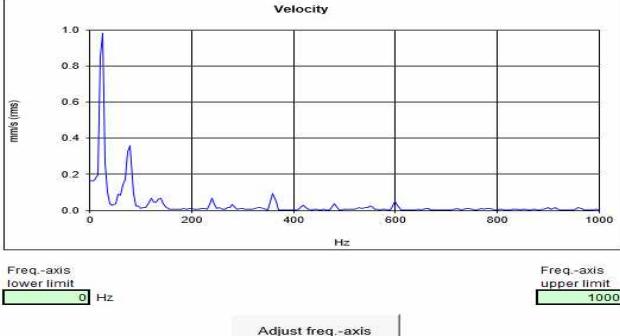
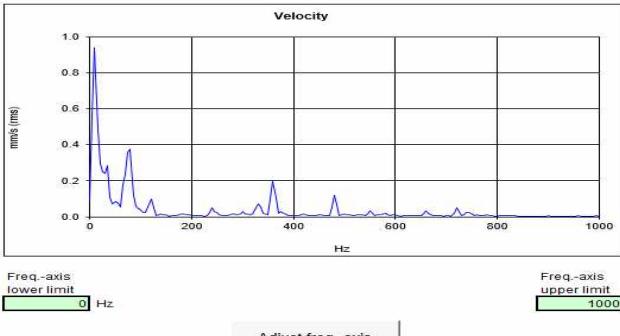
(30) No.20 Hoist

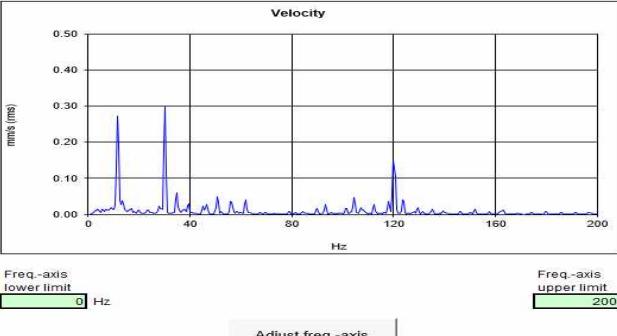
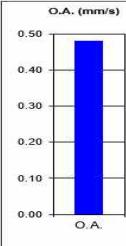
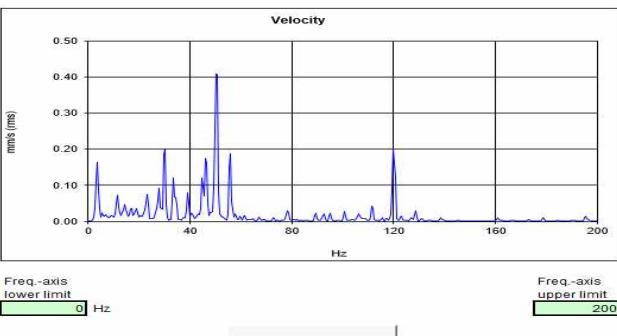
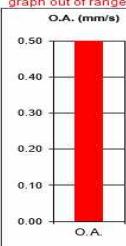
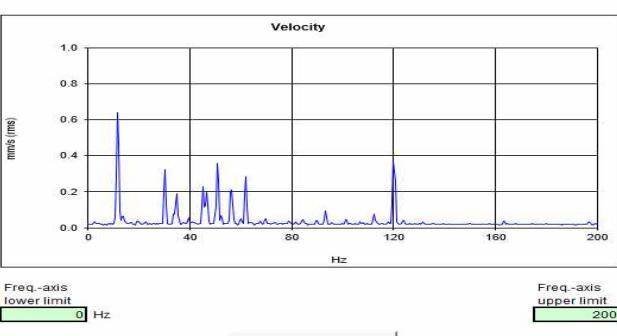
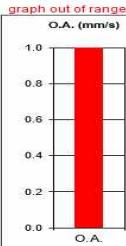
측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																	
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>386</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:01:03</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.488</td></tr> </table> <p>Velocity</p> <p>graph out of range</p> <p>O.A. (mm/s)</p> <p>0.0 0.2 0.4 0.6 0.8 1.0</p> <p>O.A.</p> <p>Adjust freq.-axis</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p>	Store address	386	Store Date/Time	2025/07/31 15:01:03	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.488
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O.A.value (mm/s (rms))	1.488																																																	
검토의견	120Hz에서 최대 1.4mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
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<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>387</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:01:15</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.383</td></tr> </table> <p>Velocity</p> <p>graph out of range</p> <p>O.A. (mm/s)</p> <p>0.0 0.2 0.4 0.6 0.8 1.0</p> <p>O.A.</p> <p>Adjust freq.-axis</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p>	Store address	387	Store Date/Time	2025/07/31 15:01:15	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.383
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Sensitivity (mV/ms ⁻²)	4.86																																																	
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검토의견	245Hz에서 최대 1.3mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																	
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>388</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:01:35</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.9922</td></tr> </table> <p>Velocity</p> <p>O.A. (mm/s)</p> <p>0.0 0.2 0.4 0.6 0.8 1.0</p> <p>O.A.</p> <p>Adjust freq.-axis</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p>	Store address	388	Store Date/Time	2025/07/31 15:01:35	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.9922
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검토의견	120Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	

측정 위치 및 측정 Mode	감속기 수직(Vertical) 방향																																																			
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검토의견	540Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	감속기 축(Axial) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>391</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:02:45</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.9922</td></tr> </table>	Store address	391	Store Date/Time	2025/07/31 15:02:45	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.9922	 Velocity mm/s (rms) Hz <div style="display: flex; justify-content: space-around; margin-top: 10px;"> Freq.-axis lower limit 0 Hz Adjust freq.-axis Freq.-axis upper limit 1000 Hz </div>	 O.A. (mm/s) O.A.
Store address	391																																																			
Store Date/Time	2025/07/31 15:02:45																																																			
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검토의견	360Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			

제2장 정밀안전진단 실시결과

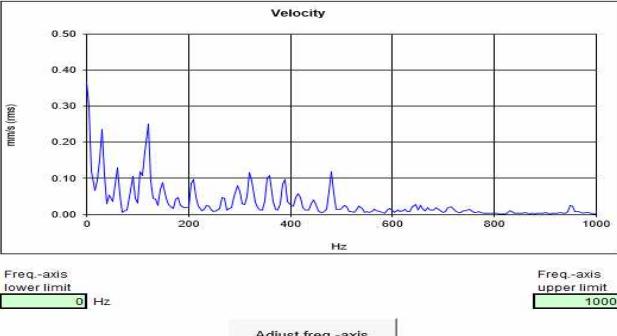
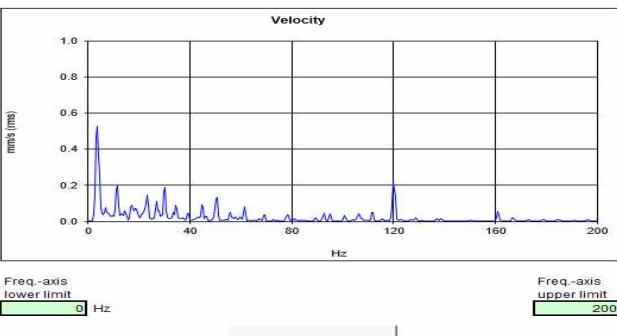
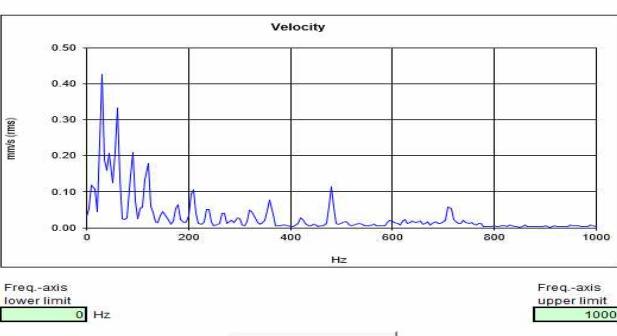
(31) No.21 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																	
Spectrum Mode Velocity <table border="1" data-bbox="218 353 550 734"> <tr><td>Store address</td><td>468</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:11:13</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.073</td></tr> </table>  <div style="text-align: center;">Adjust freq.-axis</div> <div style="text-align: right;">Freq-axis upper limit 1000 Hz</div> <div style="text-align: left;">Freq-axis lower limit 0 Hz</div>	Store address	468	Store Date/Time	2025/07/31 16:11:13	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.073
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Sensitivity (mV/ms ⁻²)	4.86																																																	
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검토의견	360Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																	
Spectrum Mode Velocity <table border="1" data-bbox="218 936 550 1317"> <tr><td>Store address</td><td>469</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:11:24</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.225</td></tr> </table>  <div style="text-align: center;">Adjust freq.-axis</div> <div style="text-align: right;">Freq-axis upper limit 1000 Hz</div> <div style="text-align: left;">Freq-axis lower limit 0 Hz</div>	Store address	469	Store Date/Time	2025/07/31 16:11:24	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.225
Store address	469																																																	
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Trigger Source	Level Trigger																																																	
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Type	PV-57I																																																	
Sensitivity (mV/ms ⁻²)	4.86																																																	
O.A.value (mm/s (rms))	1.225																																																	
검토의견	365Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																	
Spectrum Mode Velocity <table border="1" data-bbox="218 1473 550 1854"> <tr><td>Store address</td><td>470</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:11:36</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.227</td></tr> </table>  <div style="text-align: center;">Adjust freq.-axis</div> <div style="text-align: right;">Freq-axis upper limit 1000 Hz</div> <div style="text-align: left;">Freq-axis lower limit 0 Hz</div>	Store address	470	Store Date/Time	2025/07/31 16:11:36	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.227
Store address	470																																																	
Store Date/Time	2025/07/31 16:11:36																																																	
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Frequency Span (Hz)	1000																																																	
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Sensitivity (mV/ms ⁻²)	4.86																																																	
O.A.value (mm/s (rms))	1.227																																																	
검토의견	360Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	

측정 위치 및 측정 Mode	감속기 수직(Vertical) 방향																										
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>473</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:12:33</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <p>Trigger: Trigger Mode: Free Start Date / Time: 2024/05/20 00:00:00 Store Interval: 1min Store Number: 1 Trigger Source: Level Trigger Pre-Trigger: None Trigger Level: 1 Slope: +</p> <p>Sensor: Type: PV-571 Sensitivity (mV/ms⁻²): 4.86 O.A.value (mm/s (rms)): 0.4816</p>  				Store address	473	Store Date/Time	2025/07/31 16:12:33	Range (mm/s)	10	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off
Store address	473																										
Store Date/Time	2025/07/31 16:12:33																										
Range (mm/s)	10																										
Frequency Span (Hz)	200																										
Lines	400																										
Window	Hanning																										
Operating Type	LIN																										
Set average number	10																										
Average count	10																										
High Pass Filter	3Hz																										
Low Pass Filter	1kHz																										
Overload	Off																										
검토의견	30Hz에서 최대 0.4mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																										
측정 위치 및 측정 Mode	감속기 수평(Horizontal) 방향																										
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>474</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:12:50</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <p>Trigger: Trigger Mode: Free Start Date / Time: 2024/05/20 00:00:00 Store Interval: 1min Store Number: 1 Trigger Source: Level Trigger Pre-Trigger: None Trigger Level: 1 Slope: +</p> <p>Sensor: Type: PV-571 Sensitivity (mV/ms⁻²): 4.86 O.A.value (mm/s (rms)): 0.7294</p>  				Store address	474	Store Date/Time	2025/07/31 16:12:50	Range (mm/s)	10	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off
Store address	474																										
Store Date/Time	2025/07/31 16:12:50																										
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Operating Type	LIN																										
Set average number	10																										
Average count	10																										
High Pass Filter	3Hz																										
Low Pass Filter	1kHz																										
Overload	Off																										
검토의견	50Hz에서 최대 0.72mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																										
측정 위치 및 측정 Mode	감속기 축(Axial) 방향																										
<p>Spectrum Mode Velocity</p> <table border="1"> <tr><td>Store address</td><td>475</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:12:50</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <p>Trigger: Trigger Mode: Free Start Date / Time: 2024/05/20 00:00:00 Store Interval: 1min Store Number: 1 Trigger Source: Level Trigger Pre-Trigger: None Trigger Level: 1 Slope: +</p> <p>Sensor: Type: PV-571 Sensitivity (mV/ms⁻²): 4.86 O.A.value (mm/s (rms)): 1.152</p>  				Store address	475	Store Date/Time	2025/07/31 16:12:50	Range (mm/s)	10	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off
Store address	475																										
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Set average number	10																										
Average count	10																										
High Pass Filter	3Hz																										
Low Pass Filter	1kHz																										
Overload	Off																										
검토의견	120Hz에서 최대 1.1mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																										

제2장 정밀안전진단 실시결과

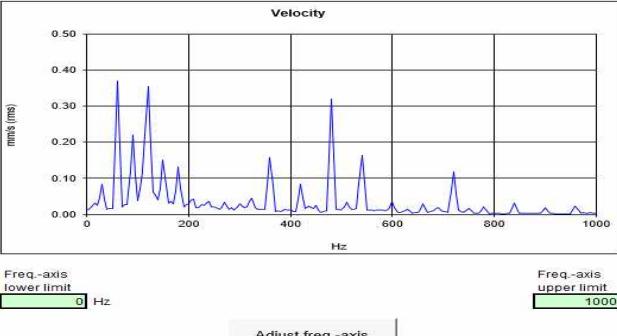
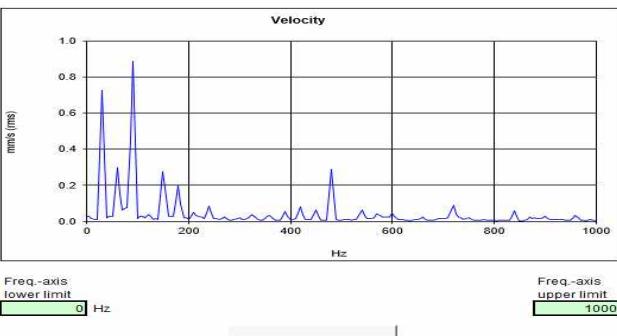
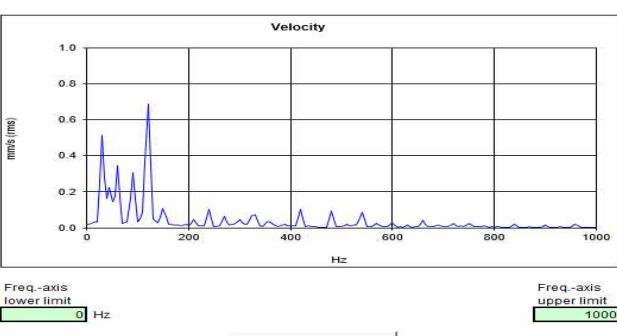
(32) No.22 Hoist

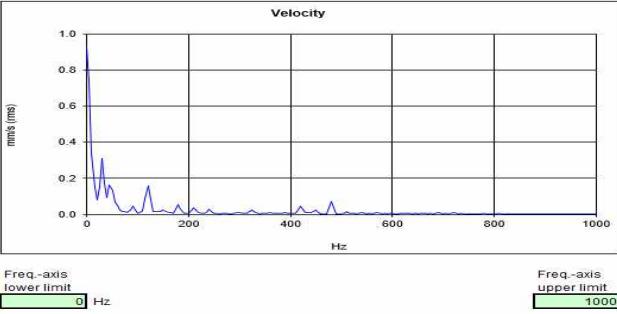
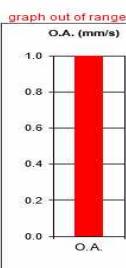
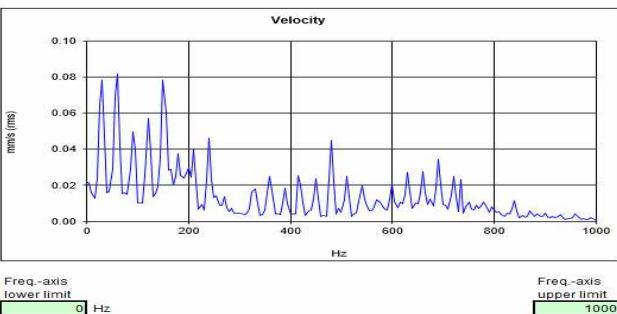
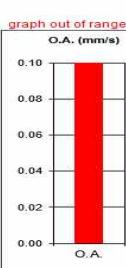
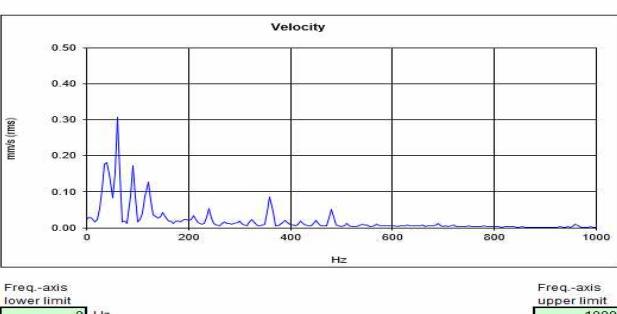
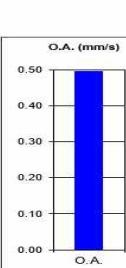
측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
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검토의견	90Hz에서 최대 0.8mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
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Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>484</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:16:28</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.6394</td></tr> </table>	Store address	484	Store Date/Time	2025/07/31 16:16:28	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.6394	<p>Velocity</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p>	<p>graph out of range</p> <p>O.A. (mm/s)</p> <p>0.50</p> <p>0.40</p> <p>0.30</p> <p>0.20</p> <p>0.10</p> <p>0.00</p> <p>O.A.</p>
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검토의견	365Hz에서 최대 0.6mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			

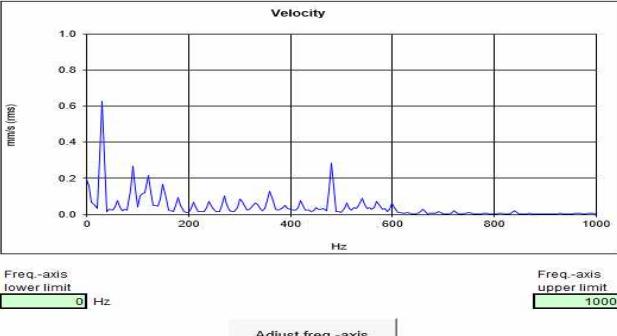
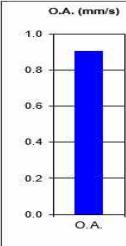
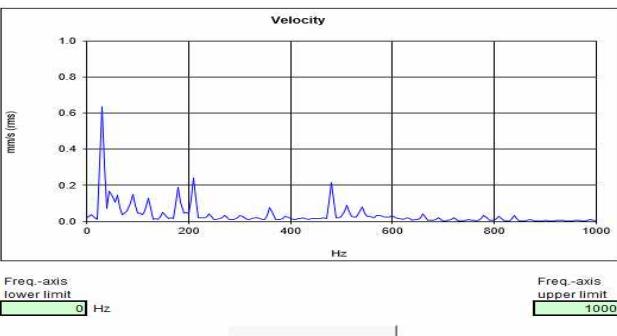
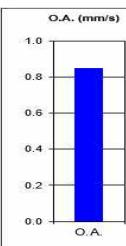
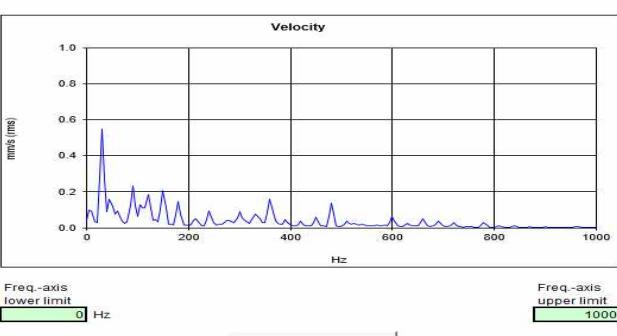
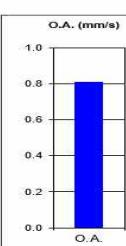
제2장 정밀안전진단 실시결과

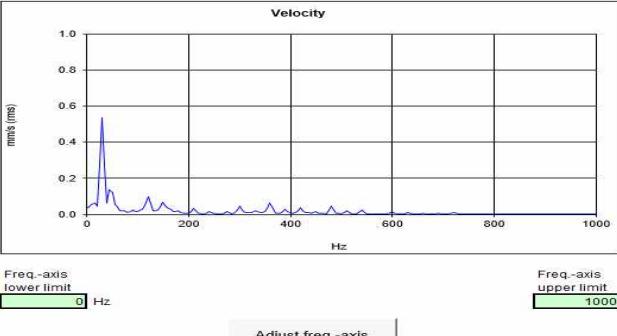
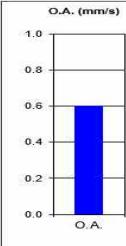
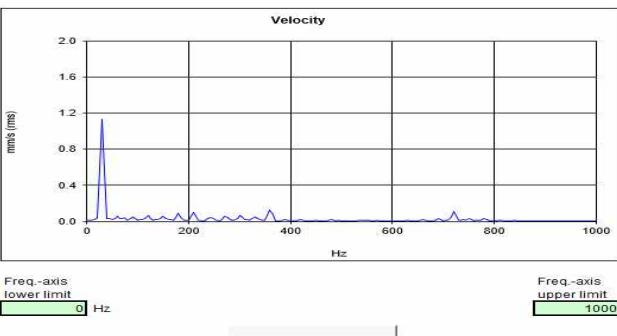
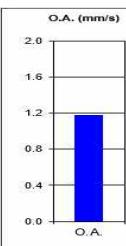
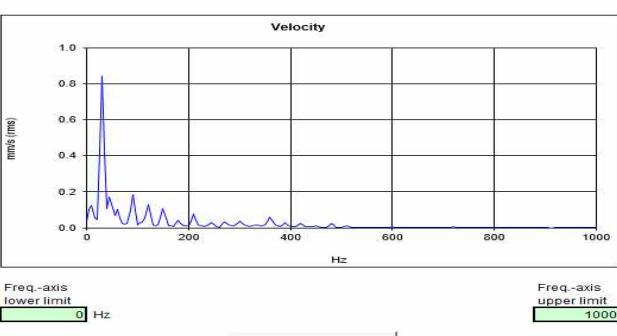
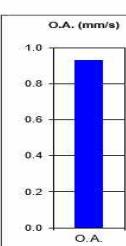
(33) No.23 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>398</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:06:26</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.7748</td></tr> </table>	Store address	398	Store Date/Time	2025/07/31 15:06:26	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.7748	 <div style="display: flex; justify-content: space-around; width: 100%;"> graph out of range O.A. (mm/s) </div> <div style="display: flex; justify-content: space-around; width: 100%;"> 0.50 0.40 0.30 0.20 0.10 0.00 </div> <div style="display: flex; justify-content: space-around; width: 100%;"> 0 Hz 1000 Hz </div> <div style="text-align: center; margin-top: 10px;">Adjust freq.-axis</div>
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검토의견	60Hz에서 최대 0.77mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
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검토의견	90Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
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검토의견	120Hz에서 최대 1.1mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
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Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>402</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:07:17</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.2388</td></tr> </table>	Store address	402	Store Date/Time	2025/07/31 15:07:17	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.2388	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq.-axis lower limit Freq.-axis upper limit <input type="button" value="Adjust freq.-axis"/>	 graph out of range O.A. (mm/s) 0.10 0.08 0.06 0.04 0.02 0.00 O.A. <input type="button" value="O.A."/>
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검토의견	60Hz에서 최대 0.3mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			
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Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>403</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:07:28</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.4956</td></tr> </table>	Store address	403	Store Date/Time	2025/07/31 15:07:28	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.4956	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq.-axis lower limit Freq.-axis upper limit <input type="button" value="Adjust freq.-axis"/>	 O.A. (mm/s) 0.50 0.40 0.30 0.20 0.10 0.00 O.A. <input type="button" value="O.A."/>
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검토의견	360Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			

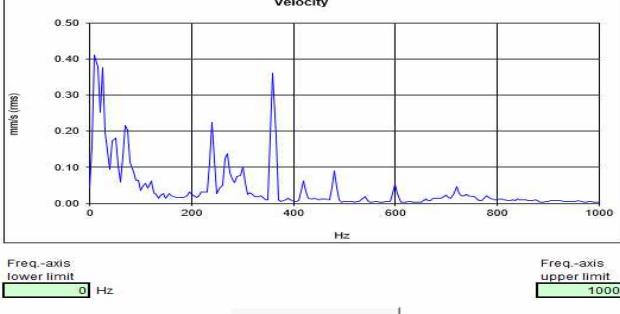
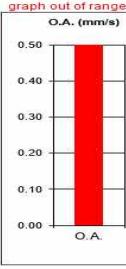
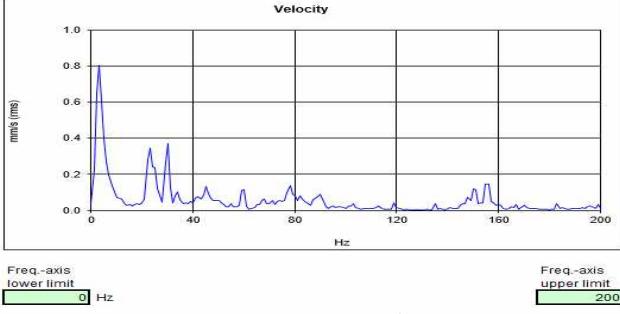
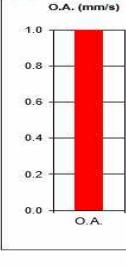
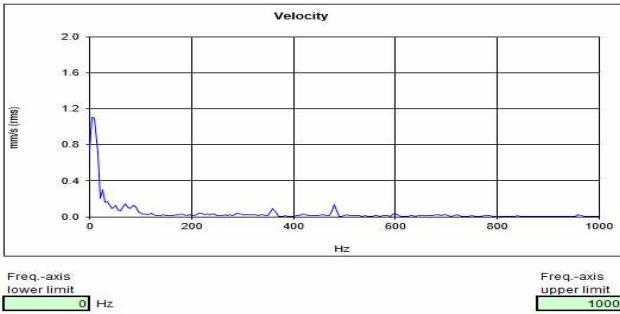
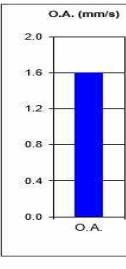
(34) No.24 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>392</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:03:42</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.9032</td></tr> </table>	Store address	392	Store Date/Time	2025/07/31 15:03:42	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.9032	 <p>Velocity (mm/sec) vs Frequency (Hz) from 0 to 1000 Hz. The plot shows a dominant peak at approximately 480 Hz with a value of about 0.9 mm/sec. There are several smaller peaks at higher frequencies.</p> <p>Adjust freq.-axis</p>  <p>O.A. (mm/s) vs Frequency (Hz) from 0 to 1000 Hz. A single blue bar is shown at 0.9032 mm/sec.</p>
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검토의견	480Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																		
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검토의견	210Hz에서 최대 0.8mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																		
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검토의견	360Hz에서 최대 0.8mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		

측정 위치 및 측정 Mode	감속기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>395</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:04:20</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.601</td></tr> </table>	Store address	395	Store Date/Time	2025/07/31 15:04:20	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.601		
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O.A.value (mm/s (rms))	0.601																																																			
검토의견	125Hz에서 최대 0.6mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	감속기 수평(Horizontal) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>396</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:04:38</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.176</td></tr> </table>	Store address	396	Store Date/Time	2025/07/31 15:04:38	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.176		
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Sensitivity (mV/ms ⁻²)	4.86																																																			
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검토의견	360Hz에서 최대 1.1mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	감속기 축(Axial) 방향																																																			
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검토의견	365Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			

제2장 정밀안전진단 실시결과

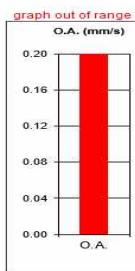
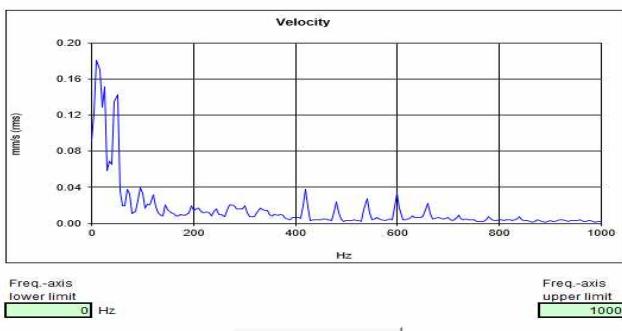
(35) No.25 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																	
Spectrum Mode Velocity <table border="1" data-bbox="218 353 550 734"> <tr><td>Store address</td><td>404</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:09:19</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.9105</td></tr> </table>  	Store address	404	Store Date/Time	2025/07/31 15:09:19	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.9105
Store address	404																																																	
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검토의견	360Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																	
Spectrum Mode Velocity <table border="1" data-bbox="218 929 550 1310"> <tr><td>Store address</td><td>405</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:09:39</td></tr> <tr><td>Range (mm/s)</td><td>31.6</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.348</td></tr> </table>  	Store address	405	Store Date/Time	2025/07/31 15:09:39	Range (mm/s)	31.6	Frequency Span (Hz)	200	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.348
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Sensitivity (mV/ms ⁻²)	4.86																																																	
O.A.value (mm/s (rms))	1.348																																																	
검토의견	155Hz에서 최대 1.3mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																	
Spectrum Mode Velocity <table border="1" data-bbox="218 1467 550 1848"> <tr><td>Store address</td><td>406</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:09:50</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.604</td></tr> </table>  	Store address	406	Store Date/Time	2025/07/31 15:09:50	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.604
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검토의견	485Hz에서 최대 1.6mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																	

측정 위치 및 측정 Mode

감속기 수직(Vertical) 방향

Spectrum Mode		Velocity
Store address	407	
Store Date/Time	2025/07/31 15:10:11	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	0.3682	



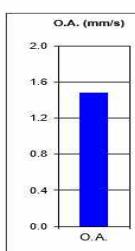
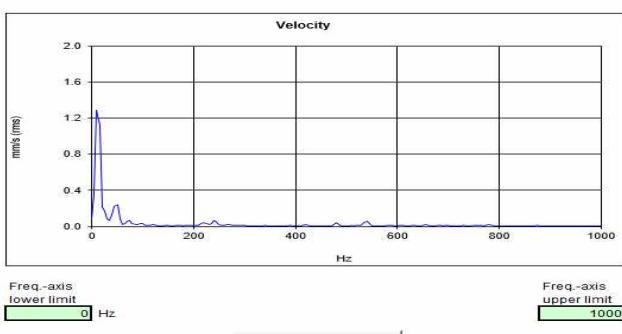
검토의견

425Hz에서 최대 0.3mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 수평(Horizontal) 방향

Spectrum Mode		Velocity
Store address	408	
Store Date/Time	2025/07/31 15:10:23	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	1.48	



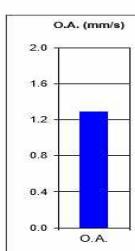
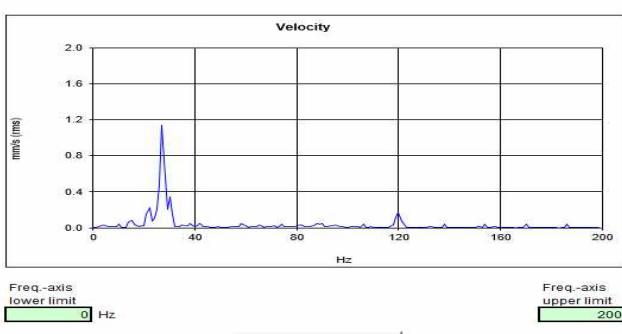
검토의견

245Hz에서 최대 1.4mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 축(Axial) 방향

Spectrum Mode		Velocity
Store address	409	
Store Date/Time	2025/07/31 15:10:35	
Range (mm/s)	31.6	
Frequency Span (Hz)	200	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	1.292	

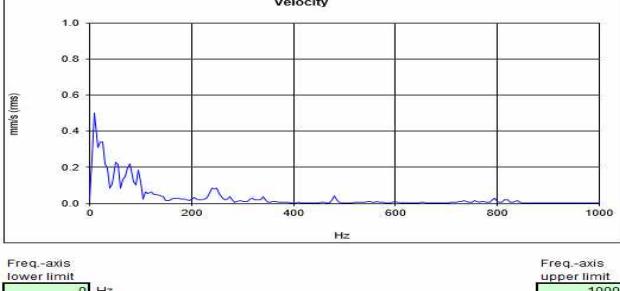
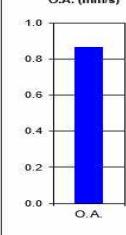
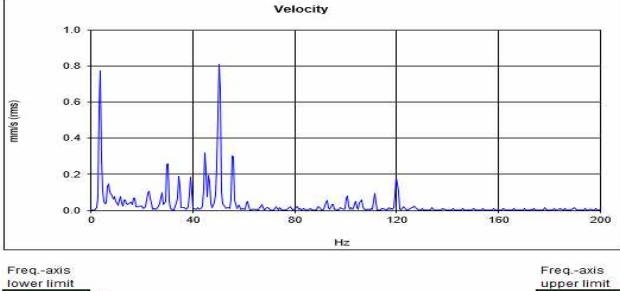
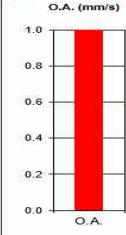
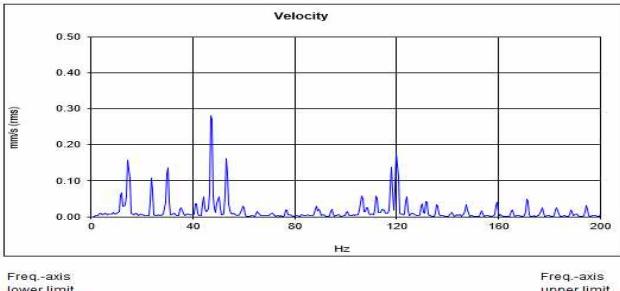
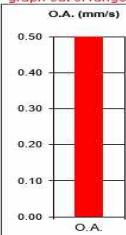


검토의견

27Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

제2장 정밀안전진단 실시결과

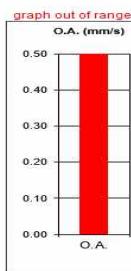
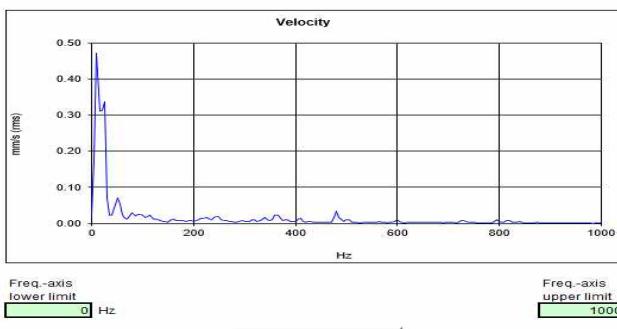
(36) No.26 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>455</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:06:21</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.8638</td></tr> </table>	Store address	455	Store Date/Time	2025/07/31 16:06:21	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.8638	 
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High Pass Filter	3Hz																																																		
Low Pass Filter	1kHz																																																		
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Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	0.8638																																																		
검토의견	250Hz에서 최대 0.8mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																		
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Type	PV-57I																																																		
Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	1.449																																																		
검토의견	50Hz에서 최대 1.4mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>458</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:07:03</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.5542</td></tr> </table>	Store address	458	Store Date/Time	2025/07/31 16:07:03	Range (mm/s)	10	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.5542	 
Store address	458																																																		
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Range (mm/s)	10																																																		
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Sensor:																																																			
Type	PV-57I																																																		
Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	0.5542																																																		
검토의견	48Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																		

측정 위치 및 측정 Mode

감속기 수직(Vertical) 방향

Spectrum Mode		Velocity
Store address	459	
Store Date/Time	2025/07/31 16:07:12	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	0.6279	



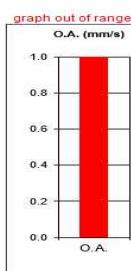
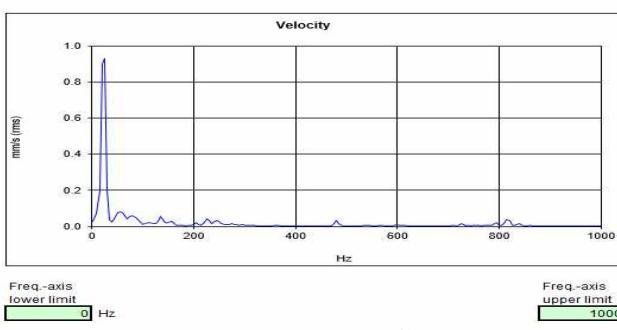
검토의견

485Hz에서 최대 0.6mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 수평(Horizontal) 방향

Spectrum Mode		Velocity
Store address	460	
Store Date/Time	2025/07/31 16:07:28	
Range (mm/s)	10	
Frequency Span (Hz)	1000	
Lines	200	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	1.1	



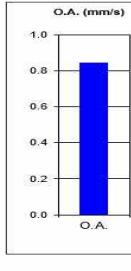
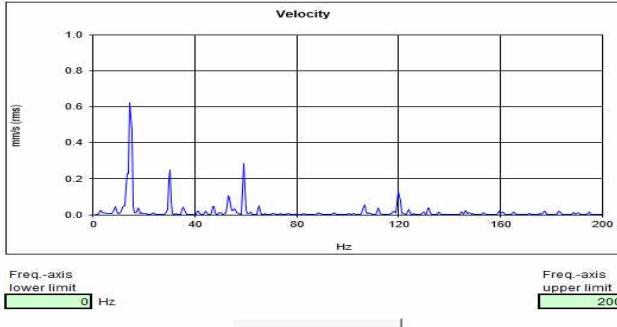
검토의견

485Hz에서 최대 1.1mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

측정 위치 및 측정 Mode

감속기 축(Axial) 방향

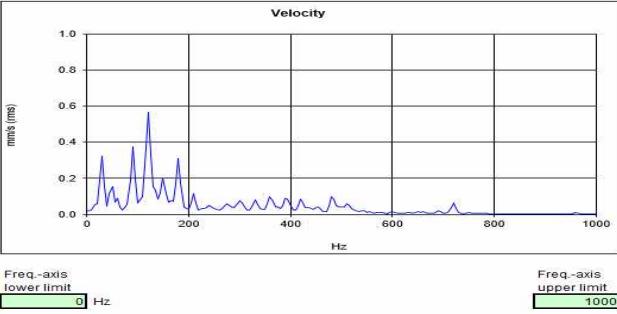
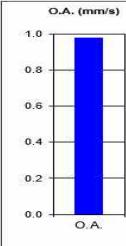
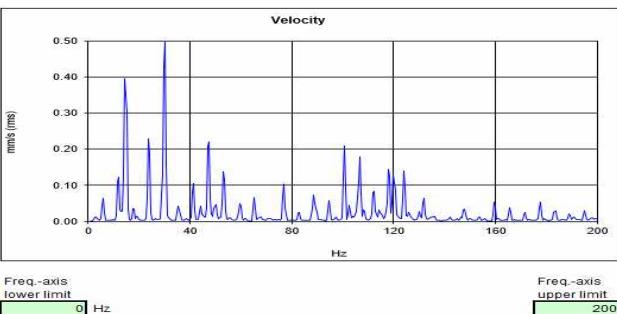
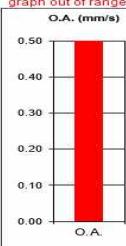
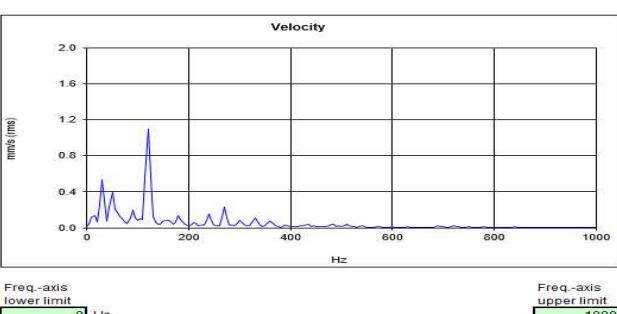
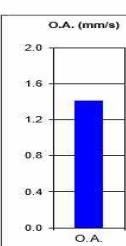
Spectrum Mode		Velocity
Store address	461	
Store Date/Time	2025/07/31 16:07:48	
Range (mm/s)	10	
Frequency Span (Hz)	200	
Lines	400	
Window	Hanning	
Operating Type	LIN	
Set average number	10	
Average count	10	
High Pass Filter	3Hz	
Low Pass Filter	1kHz	
Overload	Off	
Trigger:		
Trigger Mode	Free	
Start Date / Time	2024/05/20 00:00:00	
Store Interval	1min	
Store Number	1	
Trigger Source	Level Trigger	
Pre-Trigger	None	
Trigger Level	1	
Slope	+	
Sensor:		
Type	PV-57I	
Sensitivity (mV/ms ⁻²)	4.86	
O.A.value (mm/s (rms))	0.8447	

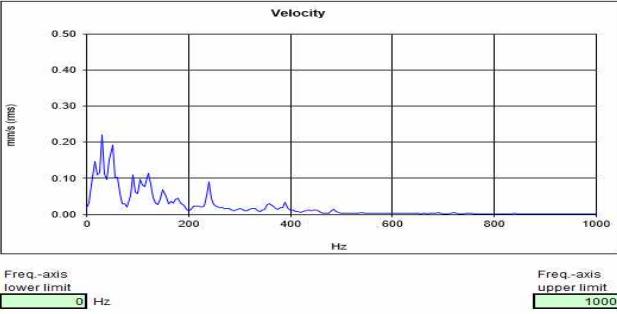
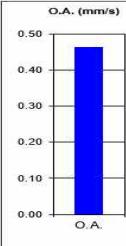
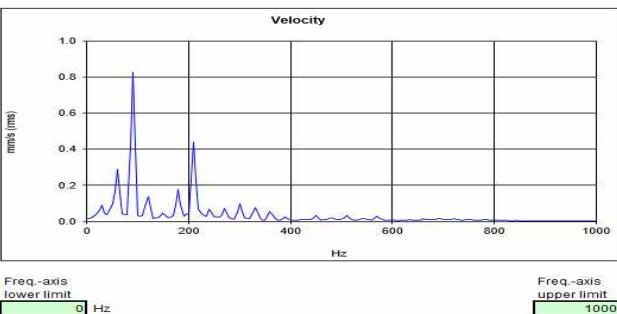
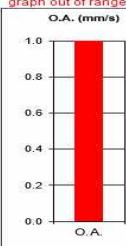
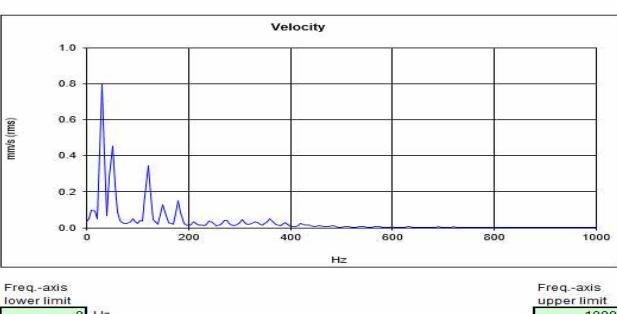
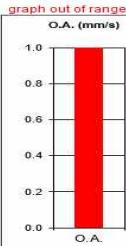


검토의견

59Hz에서 최대 0.8mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.

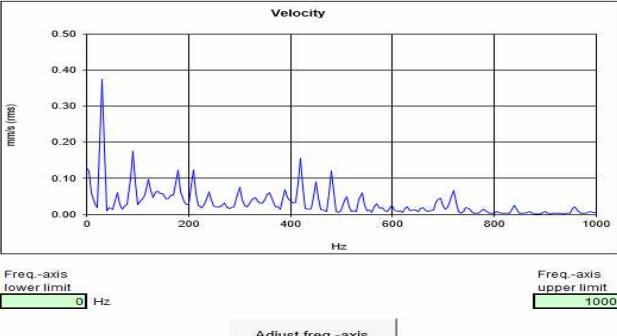
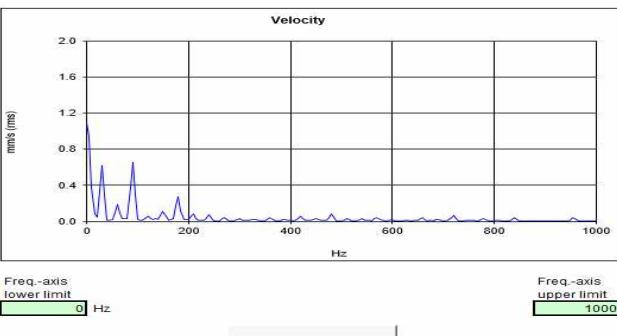
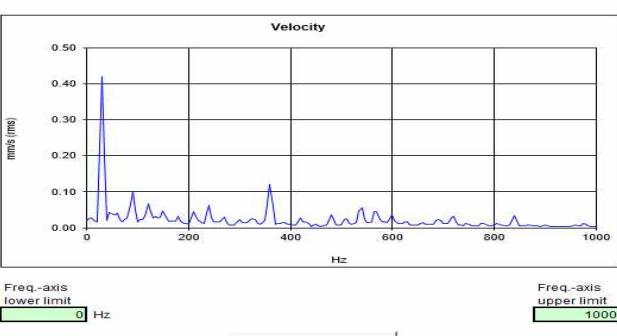
(37) No.27 Hoist

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100px; border-collapse: collapse; margin-bottom: 5px;"> <tr><td>Store address</td><td>462</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:08:41</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; border-collapse: collapse; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; border-collapse: collapse; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.9801</td></tr> </table>	Store address	462	Store Date/Time	2025/07/31 16:08:41	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.9801	 <p>Velocity</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p>	 <p>O.A. (mm/s)</p> <p>mm/s</p> <p>O.A.</p>
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Slope	+																																																		
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Type	PV-57I																																																		
Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	1.044																																																		
검토의견	125Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		

제2장 정밀안전진단 실시결과

(38) No.28 Hoist

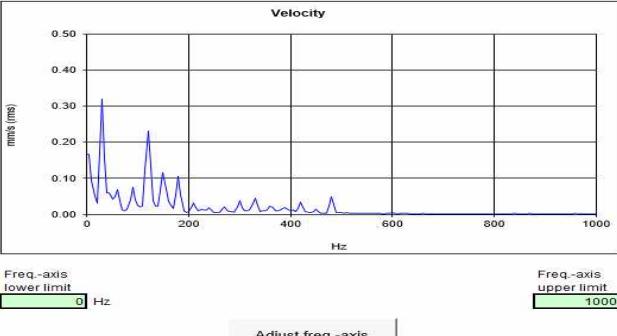
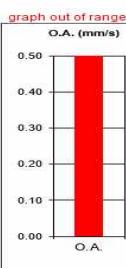
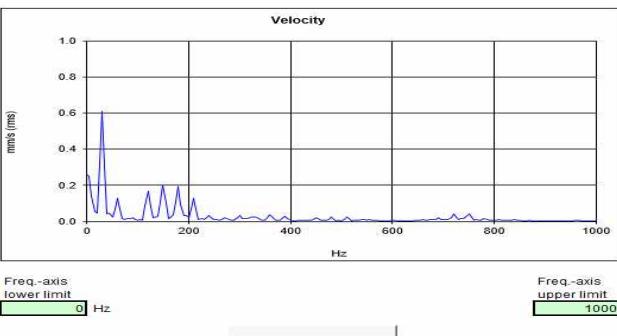
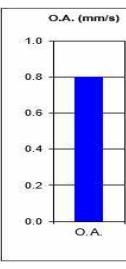
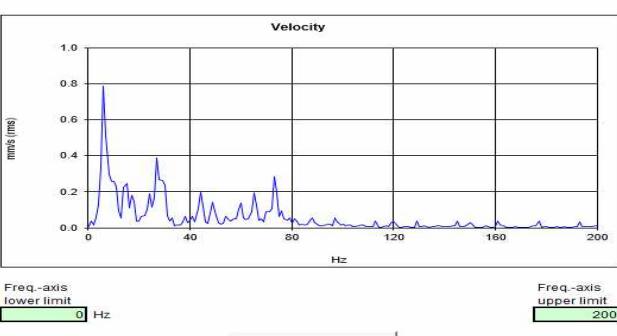
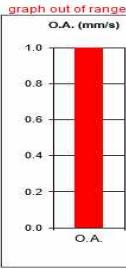
측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>429</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:17:52</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.6131</td></tr> </table>	Store address	429	Store Date/Time	2025/07/31 15:17:52	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.6131	 <div style="display: flex; justify-content: space-between; width: 100%;"> graph out of range O.A. (mm/s) </div> <div style="display: flex; justify-content: space-between; width: 100%;"> 0.50 0.40 0.30 0.20 0.10 0.00 </div> <div style="display: flex; justify-content: space-between; width: 100%;"> O.A. 0.6131 </div>
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Sensitivity (mV/ms ⁻²)	4.86																																																		
O.A.value (mm/s (rms))	0.6131																																																		
검토의견	95Hz에서 최대 0.6mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>430</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:18:04</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.58</td></tr> </table>	Store address	430	Store Date/Time	2025/07/31 15:18:04	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.58	 <div style="display: flex; justify-content: space-between; width: 100%;"> graph out of range O.A. (mm/s) </div> <div style="display: flex; justify-content: space-between; width: 100%;"> 2.0 1.6 1.2 0.8 0.4 0.0 </div> <div style="display: flex; justify-content: space-between; width: 100%;"> O.A. 1.58 </div>
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검토의견	90z에서 최대 1.5mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
측정 위치 및 측정 Mode	전동기 축(Axial) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>431</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:18:19</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.5056</td></tr> </table>	Store address	431	Store Date/Time	2025/07/31 15:18:19	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.5056	 <div style="display: flex; justify-content: space-between; width: 100%;"> graph out of range O.A. (mm/s) </div> <div style="display: flex; justify-content: space-between; width: 100%;"> 0.50 0.40 0.30 0.20 0.10 0.00 </div> <div style="display: flex; justify-content: space-between; width: 100%;"> O.A. 0.5056 </div>
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검토의견	360Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																		

측정 위치 및 측정 Mode	감속기 수직(Vertical) 방향																																																			
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검토의견	175Hz에서 최대 0.9mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	감속기 축(Axial) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>434</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:18:56</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.2505</td></tr> </table>	Store address	434	Store Date/Time	2025/07/31 15:18:56	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.2505	<p>Velocity</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p>	<p>graph out of range</p> <p>O.A. (mm/s)</p> <p>mm/s</p> <p>O.A.</p>
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검토의견	360Hz에서 최대 0.3mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			

제2장 정밀안전진단 실시결과

(39) No.29 Hoist

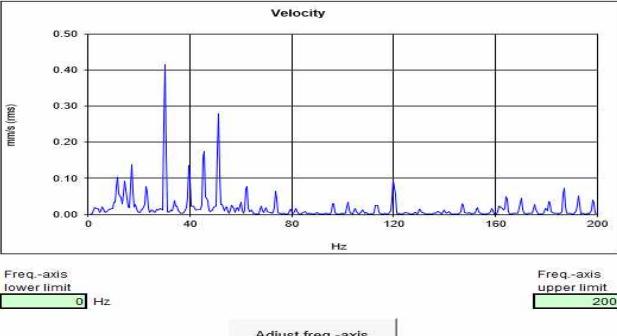
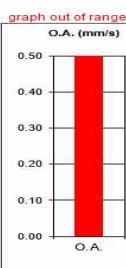
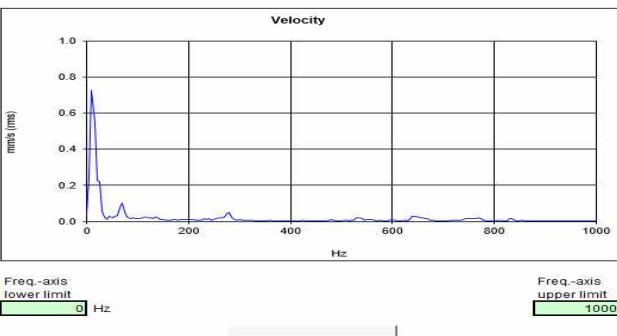
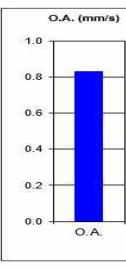
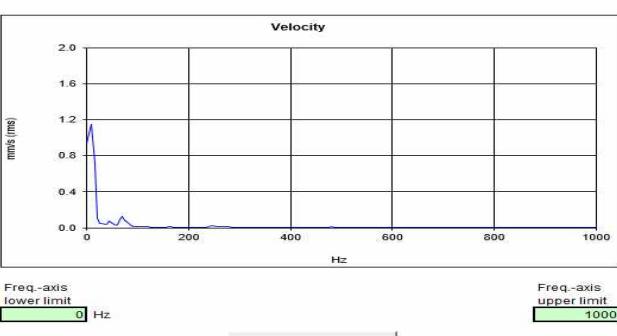
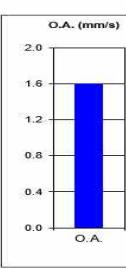
측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>422</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:16:01</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.799</td></tr> </table>	Store address	422	Store Date/Time	2025/07/31 15:16:01	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.799	<p>Velocity</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p>	<p>O.A. (mm/s)</p> <p>mm/s</p> <p>O.A.</p>
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검토의견	335Hz에서 최대 1.7mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																			
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검토의견	74Hz에서 최대 0.8mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
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검토의견	120Hz에서 최대 1.3mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			

측정 위치 및 측정 Mode	감속기 수직(Vertical) 방향																																																			
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검토의견	485Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			
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Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>427</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:17:05</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.8029</td></tr> </table>	Store address	427	Store Date/Time	2025/07/31 15:17:05	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.8029	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq-axis lower limit Freq-axis upper limit <input type="button" value="Adjust freq.-axis"/>	 O.A. (mm/s) 1.0 0.8 0.6 0.4 0.2 0.0 O.A.
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검토의견	360Hz에서 최대 0.8mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	감속기 축(Axial) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>428</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:17:20</td></tr> <tr><td>Range (mm/s)</td><td>31.6</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.256</td></tr> </table>	Store address	428	Store Date/Time	2025/07/31 15:17:20	Range (mm/s)	31.6	Frequency Span (Hz)	200	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.256	 Velocity mm/s (rms) Hz 0 Hz 200 Hz Freq-axis lower limit Freq-axis upper limit <input type="button" value="Adjust freq.-axis"/>	 graph out of range O.A. (mm/s) 1.0 0.8 0.6 0.4 0.2 0.0 O.A.
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검토의견	73Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			

제2장 정밀안전진단 실시결과

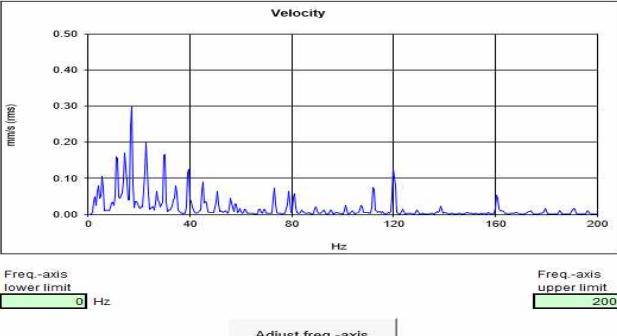
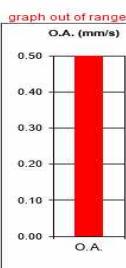
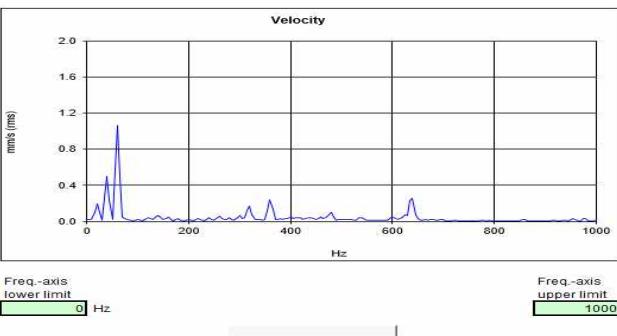
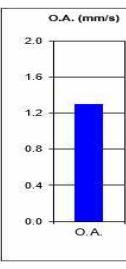
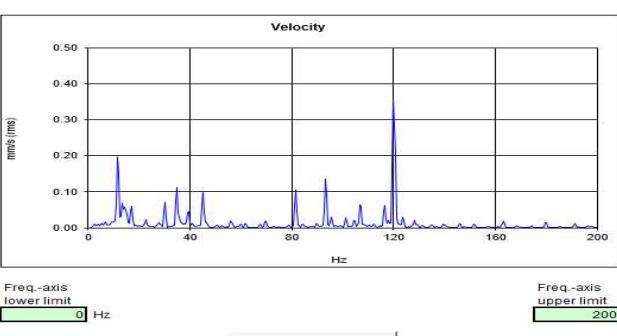
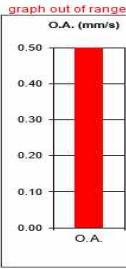
(40) No.30 Hoist

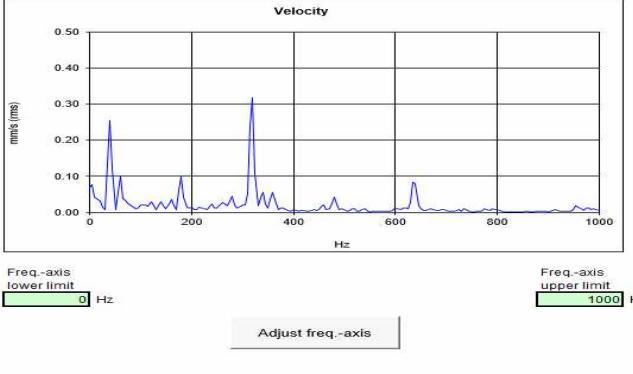
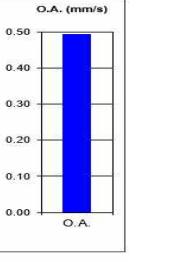
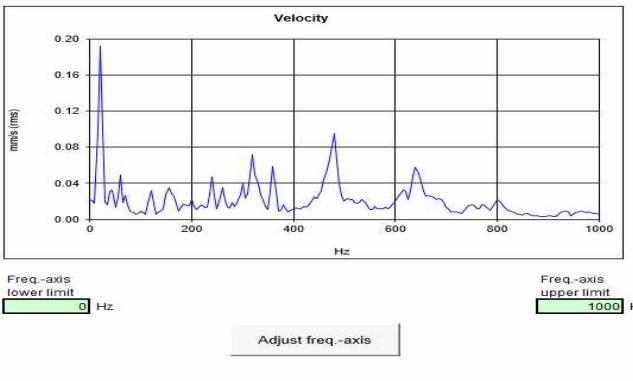
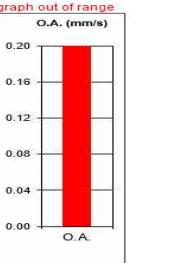
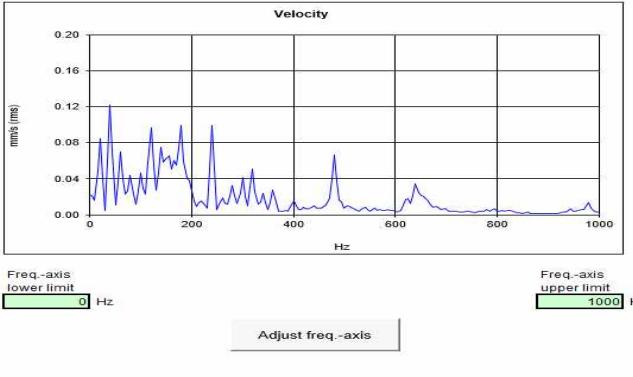
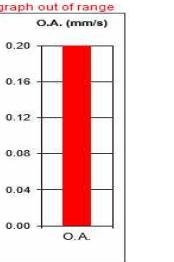
측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>435</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:20:12</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.69</td></tr> </table>	Store address	435	Store Date/Time	2025/07/31 15:20:12	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.69	<p>Velocity</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p>	<p>O.A. (mm/s)</p> <p>mm/s</p> <p>O.A.</p>
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검토의견	250Hz에서 최대 1.7mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode	전동기 수평(Horizontal) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>436</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:20:38</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.75</td></tr> </table>	Store address	436	Store Date/Time	2025/07/31 15:20:38	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.75	<p>Velocity</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 1000 Hz</p> <p>Adjust freq.-axis</p>	<p>O.A. (mm/s)</p> <p>mm/s</p> <p>O.A.</p>
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검토의견	260Hz에서 최대 1.7mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
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검토의견	121Hz에서 최대 0.3mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			

측정 위치 및 측정 Mode	감속기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>438</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:20:59</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.6589</td></tr> </table>	Store address	438	Store Date/Time	2025/07/31 15:20:59	Range (mm/s)	10	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.6589		
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검토의견	285Hz에서 최대 0.8mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
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검토의견	260Hz에서 최대 1.6mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			

제2장 정밀안전진단 실시결과

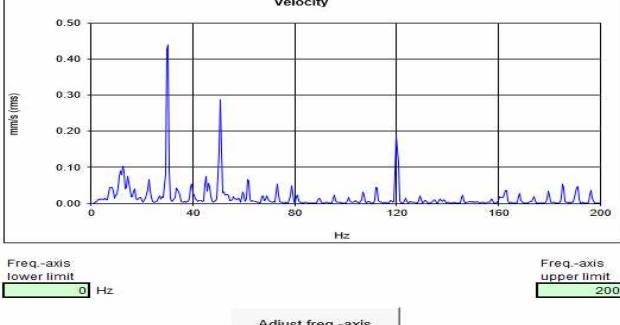
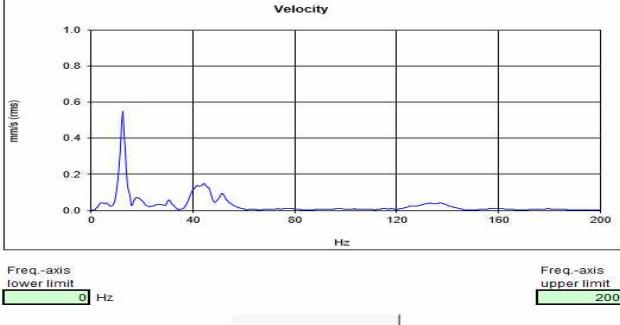
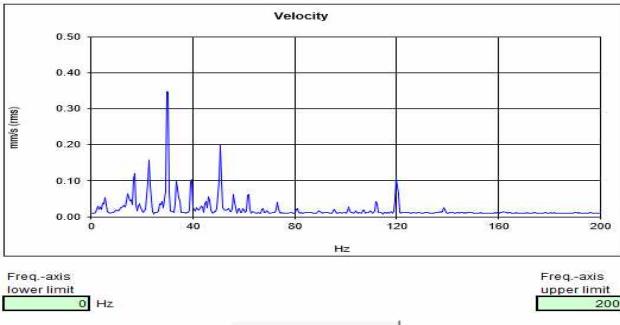
(41) Black Horizont Curtain

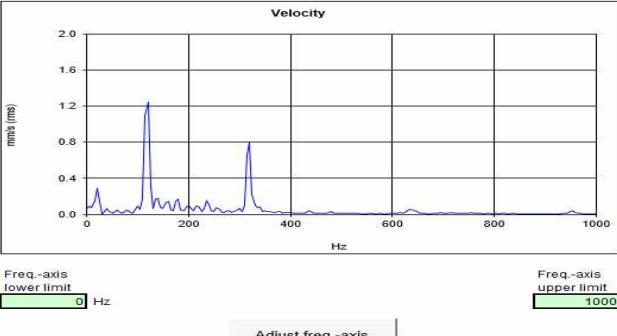
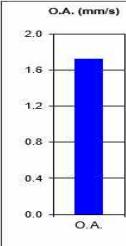
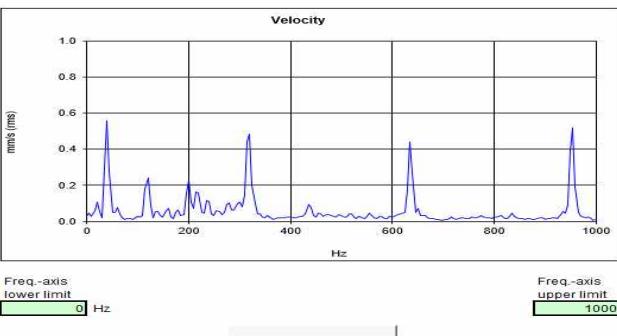
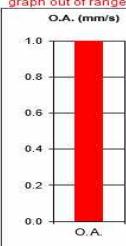
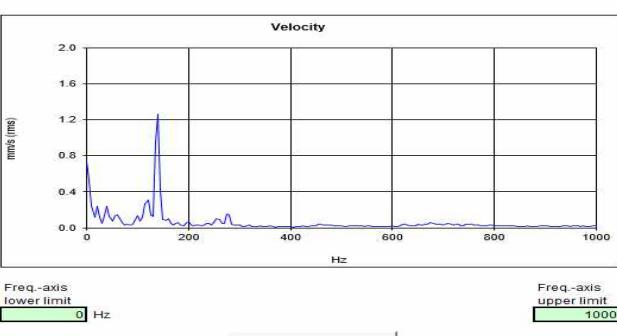
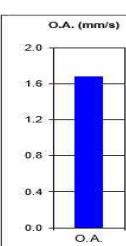
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Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>448</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:04:01</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.6295</td></tr> </table>	Store address	448	Store Date/Time	2025/07/31 16:04:01	Range (mm/s)	10	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.6295	 <p>Velocity</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 200 Hz</p> <p>Adjust freq.-axis</p>  <p>graph out of range</p> <p>O.A. (mm/s)</p> <p>0.50</p> <p>0.40</p> <p>0.30</p> <p>0.20</p> <p>0.10</p> <p>0.00</p> <p>O.A.</p>
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검토의견	365Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
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Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>450</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:04:38</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.52</td></tr> </table>	Store address	450	Store Date/Time	2025/07/31 16:04:38	Range (mm/s)	10	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.52	 <p>Velocity</p> <p>mm/s (rms)</p> <p>Hz</p> <p>Freq.-axis lower limit 0 Hz</p> <p>Freq.-axis upper limit 200 Hz</p> <p>Adjust freq.-axis</p>  <p>graph out of range</p> <p>O.A. (mm/s)</p> <p>0.50</p> <p>0.40</p> <p>0.30</p> <p>0.20</p> <p>0.10</p> <p>0.00</p> <p>O.A.</p>
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검토의견	120Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																		

측정 위치 및 측정 Mode		감속기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" data-bbox="218 353 550 734"> <tr><td>Store address</td><td>451</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 16:04:50</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.4935</td></tr> </table>	Store address	451	Store Date/Time	2025/07/31 16:04:50	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.4935		
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검토의견	320Hz에서 최대 0.5mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			
측정 위치 및 측정 Mode		감속기 수평(Horizontal) 방향																																																		
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검토의견	480Hz에서 최대 0.3mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																			
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제2장 정밀안전진단 실시결과

(42) White horizont Curtain

측정 위치 및 측정 Mode	전동기 수직(Vertical) 방향																																																		
Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>442</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:21:58</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.696</td></tr> </table>	Store address	442	Store Date/Time	2025/07/31 15:21:58	Range (mm/s)	10	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.696	 <div style="display: flex; justify-content: space-around; width: 100%;"> graph out of range O.A. (mm/s) </div> <div style="display: flex; justify-content: space-around; width: 100%;"> 0.50 0.40 0.30 0.20 0.10 0.00 </div> <div style="display: flex; justify-content: space-around; width: 100%;"> 0 Hz 200 Hz </div> <div style="text-align: center; margin-top: 10px;">Adjust freq.-axis</div>
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검토의견	132Hz에서 최대 1.0mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																		
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Spectrum Mode Velocity <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Store address</td><td>444</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:22:25</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>200</td></tr> <tr><td>Lines</td><td>400</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> </table> <table border="1" style="width: 100px; margin-bottom: 5px;"> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-571</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>0.6072</td></tr> </table>	Store address	444	Store Date/Time	2025/07/31 15:22:25	Range (mm/s)	10	Frequency Span (Hz)	200	Lines	400	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-571	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	0.6072	 <div style="display: flex; justify-content: space-around; width: 100%;"> graph out of range O.A. (mm/s) </div> <div style="display: flex; justify-content: space-around; width: 100%;"> 0.50 0.40 0.30 0.20 0.10 0.00 </div> <div style="display: flex; justify-content: space-around; width: 100%;"> 0 Hz 200 Hz </div> <div style="text-align: center; margin-top: 10px;">Adjust freq.-axis</div>
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검토의견	120Hz에서 최대 0.6mm/sec의 진동치(A등급)를 보이고 있으며 허용범위 이내임.																																																		

측정 위치 및 측정 Mode	감속기 수직(Vertical) 방향																																																			
Spectrum Mode Velocity <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Store address</td><td>446</td></tr> <tr><td>Store Date/Time</td><td>2025/07/31 15:23:24</td></tr> <tr><td>Range (mm/s)</td><td>10</td></tr> <tr><td>Frequency Span (Hz)</td><td>1000</td></tr> <tr><td>Lines</td><td>200</td></tr> <tr><td>Window</td><td>Hanning</td></tr> <tr><td>Operating Type</td><td>LIN</td></tr> <tr><td>Set average number</td><td>10</td></tr> <tr><td>Average count</td><td>10</td></tr> <tr><td>High Pass Filter</td><td>3Hz</td></tr> <tr><td>Low Pass Filter</td><td>1kHz</td></tr> <tr><td>Overload</td><td>Off</td></tr> <tr><td>Trigger:</td><td></td></tr> <tr><td>Trigger Mode</td><td>Free</td></tr> <tr><td>Start Date / Time</td><td>2024/05/20 00:00:00</td></tr> <tr><td>Store Interval</td><td>1min</td></tr> <tr><td>Store Number</td><td>1</td></tr> <tr><td>Trigger Source</td><td>Level Trigger</td></tr> <tr><td>Pre-Trigger</td><td>None</td></tr> <tr><td>Trigger Level</td><td>1</td></tr> <tr><td>Slope</td><td>+</td></tr> <tr><td>Sensor:</td><td></td></tr> <tr><td>Type</td><td>PV-57I</td></tr> <tr><td>Sensitivity (mV/ms⁻²)</td><td>4.86</td></tr> <tr><td>O.A.value (mm/s (rms))</td><td>1.727</td></tr> </table>	Store address	446	Store Date/Time	2025/07/31 15:23:24	Range (mm/s)	10	Frequency Span (Hz)	1000	Lines	200	Window	Hanning	Operating Type	LIN	Set average number	10	Average count	10	High Pass Filter	3Hz	Low Pass Filter	1kHz	Overload	Off	Trigger:		Trigger Mode	Free	Start Date / Time	2024/05/20 00:00:00	Store Interval	1min	Store Number	1	Trigger Source	Level Trigger	Pre-Trigger	None	Trigger Level	1	Slope	+	Sensor:		Type	PV-57I	Sensitivity (mV/ms ⁻²)	4.86	O.A.value (mm/s (rms))	1.727	 Velocity mm/s (rms) Hz 0 Hz 1000 Hz Freq.-axis lower limit Freq.-axis upper limit <input type="button" value="Adjust freq.-axis"/>	 O.A. (mm/s) mm/s Hz 0.0 2.0 0.0 O.A.
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검토의견	40Hz에서 최대 1.2mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			
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검토의견	140Hz에서 최대 1.6mm/sec의 진동치(B등급)를 보이고 있으며 허용범위 이내임.																																																			

2.5.2 구동부 정밀진동측정에 대한 검토의견

구동부에 대한 진동은 대부분 B(만족)등급으로 대체적으로 양호한 것으로 측정되었으며 앞으로도 지속적인 관리와 주의를 기울이시기 바랍니다. 해당 시설명의 진동값은 부록 2.2 진동측정결과표를 참조 바랍니다.

2.5.3 정밀진동측정 및 분석 관련 사진

	
진동 FFT 측정 장비	진동 FFT 측정 사진

2.6 감속기 내시경검사

감속기의 내시경검사 또는 육안검사 등을 통하여 감속기에 대한 내부 기어의 치면 상태, 내부 윤활유 상태, 기어 치면의 맞물림 상태 등을 확인하였으며 검사결과는 다음과 같다.

2.6.1 감속기 내시경 검사결과

No	무대 설비명	내시경검사 지적사항	평가
1	No.1 Light Bridge	- 지적사항 없음	양호
2	No.2 Light Bridge	- 지적사항 없음	양호
3	No.3 Light Bridge	- 지적사항 없음	양호
4	No.4 Light Bridge	- 지적사항 없음	양호
5	No.5 Light Bridge	- 지적사항 없음	양호
6	No.6 Light Bridge	- 지적사항 없음	양호
7	No.7 Light Bridge	- 지적사항 없음	양호
8	No.8 Light Bridge	- 지적사항 없음	양호
9	No.9 Light Bridge	- 지적사항 없음	양호
10	No.10 Light Bridge	- 지적사항 없음	양호
11	No.1 Hoist	- 지적사항 없음	양호
12	No.2 Hoist	- 지적사항 없음	양호
13	No.3 Hoist	- 지적사항 없음	양호
14	No.4 Hoist	- 지적사항 없음	양호
15	No.5 Hoist	- 지적사항 없음	양호
16	No.6 Hoist	- 지적사항 없음	양호
17	No.7 Hoist	- 지적사항 없음	양호

No	무대 설비명	내시경검사 지적사항	평가
18	No.8 Hoist	- 지적사항 없음	양호
19	No.9 Hoist	- 지적사항 없음	양호
20	No.10 Hoist	- 지적사항 없음	양호
21	No.11 Hoist	- 지적사항 없음	양호
22	No.12 Hoist	- 지적사항 없음	양호
23	No.13 Hoist	- 지적사항 없음	양호
24	No.14 Hoist	- 지적사항 없음	양호
25	No.15 Hoist	- 지적사항 없음	양호
26	No.16 Hoist	- 지적사항 없음	양호
27	No.17 Hoist	- 지적사항 없음	양호
28	No.18 Hoist	- 지적사항 없음	양호
29	No.19 Hoist	- 지적사항 없음	양호
30	No.20 Hoist	- 지적사항 없음	양호
31	No.21 Hoist	- 지적사항 없음	양호
32	No.22 Hoist	- 지적사항 없음	양호
33	No.23 Hoist	- 지적사항 없음	양호
34	No.24 Hoist	- 지적사항 없음	양호
35	No.25 Hoist	- 지적사항 없음	양호
36	No.26 Hoist	- 지적사항 없음	양호
37	No.27 Hoist	- 지적사항 없음	양호
38	No.28 Hoist	- 지적사항 없음	양호

No	무대 설비명	내시경검사 지적사항	평가
39	No.29 Hoist	- 지적사항 없음	양호
40	No.30 Hoist	- 지적사항 없음	양호
41	Black Horizont Curtain	- 지적사항 없음	양호
42	White Horizont Curtain	- 지적사항 없음	양호

2.6.2 감속기 내시경 사진



No.1	No.1 Light Bridge	No.2	No.2 Light Bridge
내 용	기어 치면 상태 점검	내 용	기어 치면 상태 점검



No.3	No.3 Light Bridge	No.4	No.4 Light Bridge
내 용	기어 치면 상태 점검	내 용	기어 치면 상태 점검



No.5	No.5 Light Bridge	No.6	No.6 Light Bridge
내 용	기어 치면 상태 점검	내 용	기어 치면 상태 점검



No.7	No.7 Light Bridge	No.8	No.8 Light Bridge
내 용	기어 치면 상태 점검	내 용	기어 치면 상태 점검



No.9	No.9 Light Bridge	No.10	No.10 Light Bridge
내 용	기어 치면 상태 점검	내 용	기어 치면 상태 점검



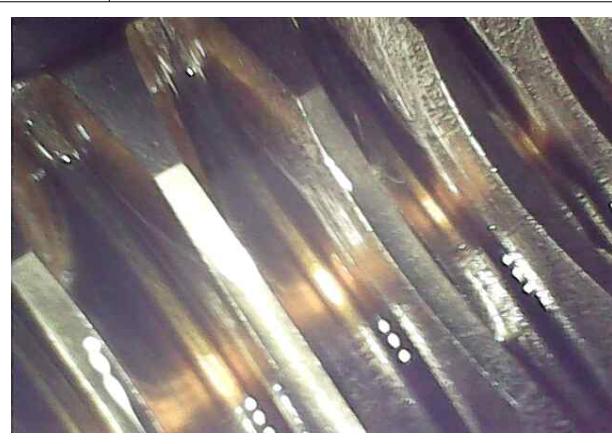
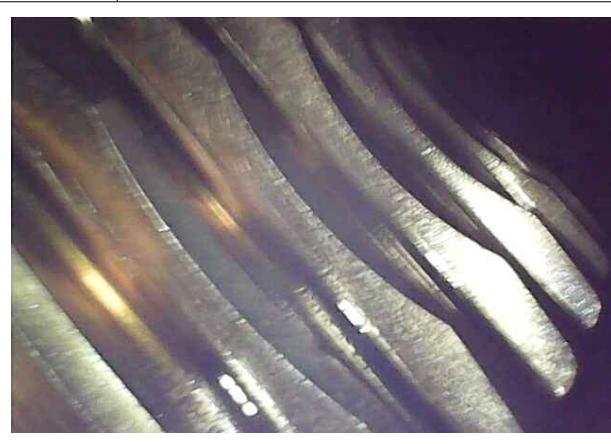
No.11	No.1 Hoist	No.12	No.2 Hoist
내 용	기어 치면 상태 점검	내 용	기어 치면 상태 점검



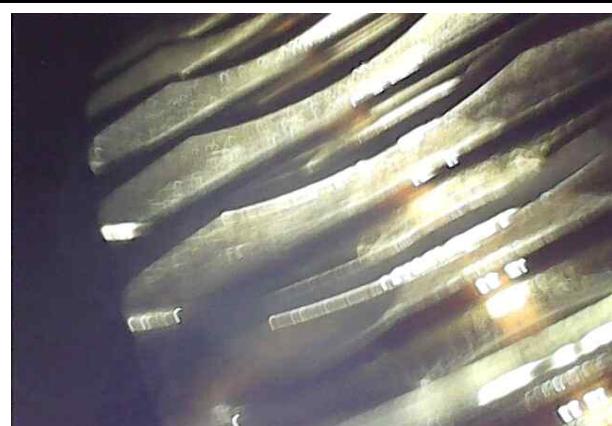
No.13	No.3 Hoist	No.14	No.4 Hoist
내 용	기어 치면 상태 점검	내 용	기어 치면 상태 점검



No.15	No.5 Hoist	No.16	No.6 Hoist
내 용	기어 치면 상태 점검	내 용	기어 치면 상태 점검



No.17	No.7 Hoist	No.18	No.8 Hoist
내 용	기어 치면 상태 점검	내 용	기어 치면 상태 점검



No.19	No.9 Hoist
내 용	기어 치면 상태 점검

No.20	No.10 Hoist
내 용	기어 치면 상태 점검



No.21	No.11 Hoist
내 용	기어 치면 상태 점검

No.22	No.12 Hoist
내 용	기어 치면 상태 점검

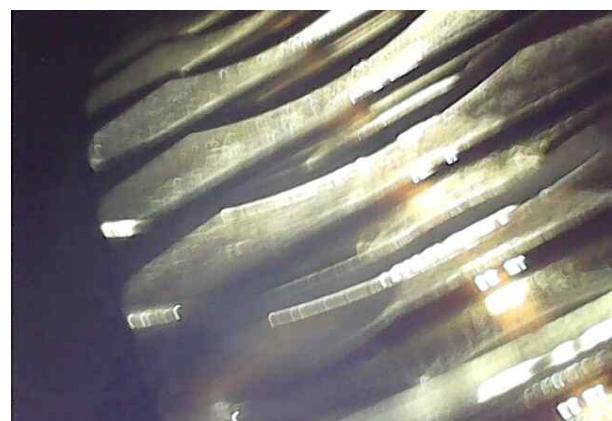


No.23	No.13 Hoist
내 용	기어 치면 상태 점검

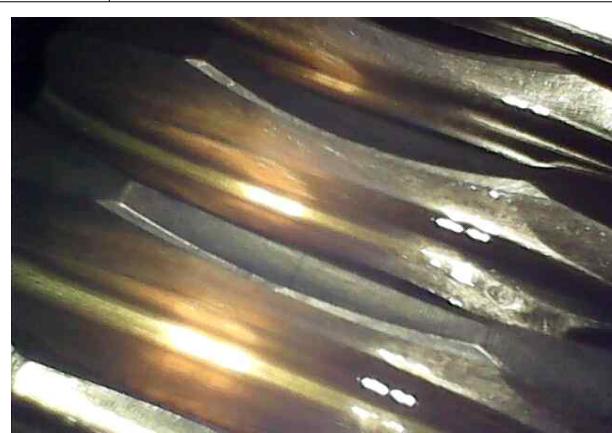
No.24	No.14 Hoist
내 용	기어 치면 상태 점검



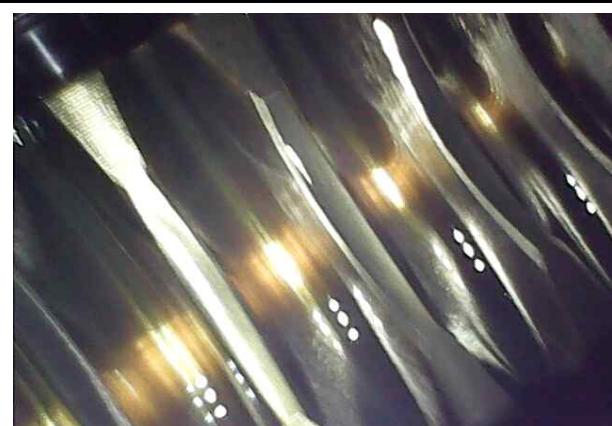
No.25	No.15 Hoist	No.26	No.16 Hoist
내 용	기어 치면 상태 점검	내 용	기어 치면 상태 점검



No.27	No.17 Hoist	No.28	No.18 Hoist
내 용	기어 치면 상태 점검	내 용	기어 치면 상태 점검

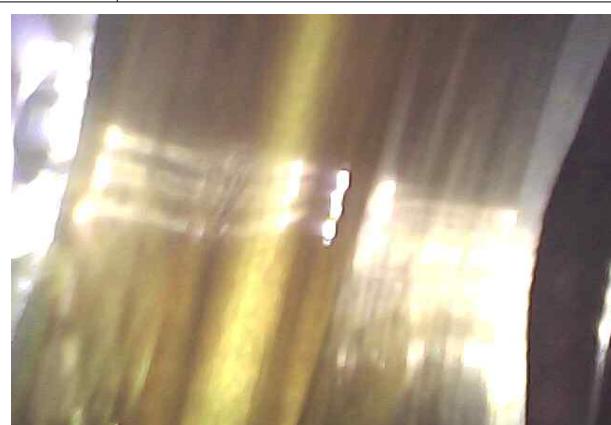


No.29	No.19 Hoist	No.30	No.20 Hoist
내 용	기어 치면 상태 점검	내 용	기어 치면 상태 점검



No.31	No.21 Hoist
내 용	기어 치면 상태 점검

No.32	No.22 Hoist
내 용	기어 치면 상태 점검



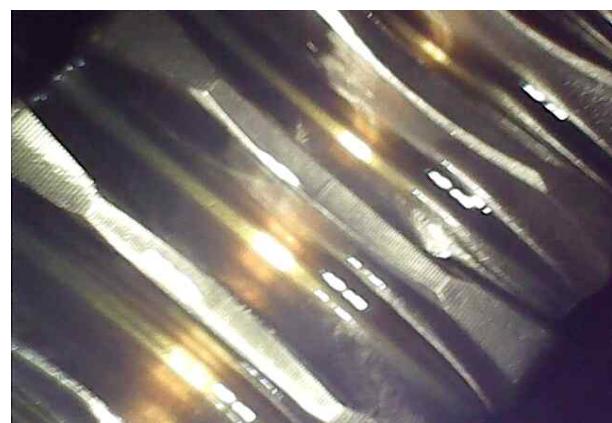
No.33	No.23 Hoist
내 용	기어 치면 상태 점검

No.34	No.24 Hoist
내 용	기어 치면 상태 점검

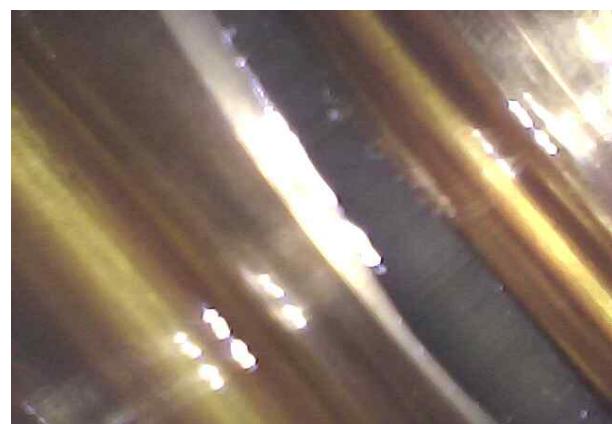


No.35	No.25 Hoist
내 용	기어 치면 상태 점검

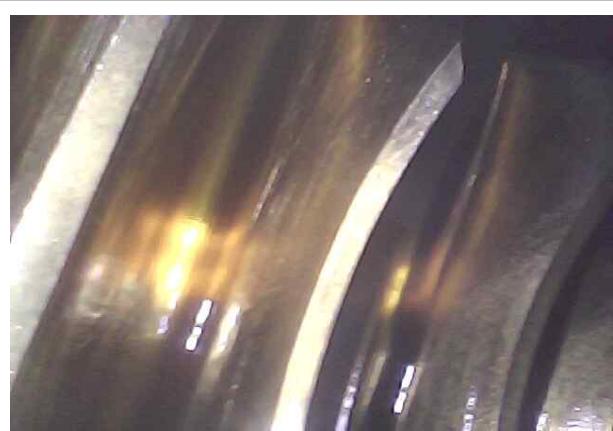
No.36	No.26 Hoist
내 용	기어 치면 상태 점검



No.37	No.27 Hoist	No.38	No.28 Hoist
내 용	기어 치면 상태 점검	내 용	기어 치면 상태 점검



No.39	No.29 Hoist	No.40	No.30 Hoist
내 용	기어 치면 상태 점검	내 용	기어 치면 상태 점검



No.41	Black Horizont Curtain	No.42	White Horizont Curtain
내 용	기어 치면 상태 점검	내 용	기어 치면 상태 점검

2.6.3 감속기 내시경검사 사진 및 사용 장비



내시경 장비



내시경검사 사진

2.7 비파괴검사

2.7.1 비파괴검사 개요

피 시험체(재료, 부품, 구조물)에 초음파, 자기, 방사선 등의 물리적 성질을 이용하여 시험체에 손상을 주지 않고 내부 또는 외부의 상태, 구조 등에 대하여 피로 손상, 기계적 손상, 자연 불연 속의 검출과 재료의 성질 등을 찾아내는 검사를 말한다. 일반적으로 널리 이용되는 비파괴검사의 종류는 아래와 같다.

가) 내부결함 검출방법

- 방사선투과검사 (Radiographic testing : R.T)
- 초음파탐상검사 (Ultrasonic testing : U.T)

나) 표면결함 검출방법

- 자분탐상검사 (Magnetic particle testing : M.T)
- 침투탐상검사 (Penetration testing : P.T)
- 육안(외관)검사 (Visual Testing : V.T)

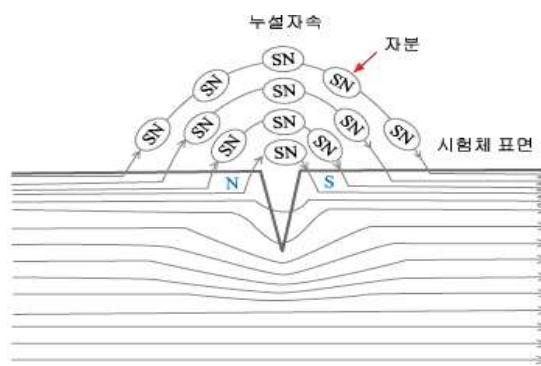
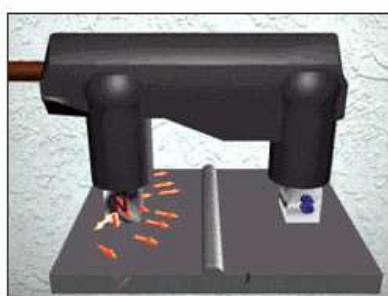
2.7.2 비파괴검사 적용 범위

비파괴검사는 공연장 무대시설 안전진단 시행세칙[별표6] 무대시설 정밀안전진단 기준(제8조 제1항 및 제2항 관련)을 적용하여 주요 용접부 및 반복하중이나 충격하중이 많이 작용되는 부위를 선정하여 자분탐상검사(M.T), 초음파탐상검사(U.T) 및 책임기술자가 필요하다고 인정되는 부분에 대하여 적정한 비파괴검사를 추가로 실시하여 안전관리에 필요한 안전율을 확보하는데 지장을 줄수 있는 결함을 탐상하기 위해 실시한다. 본 공연장 전통문화예술공연장 무대시설의 상부 그리드의 주요 용접부에 대한 M.T와 와이어드럼 회전축에 대하여 U.T를 적용하여 건전성을 평가한다.

2.8 자분탐상검사

2.8.1 자분탐상검사 원리

강자성체의 시험편에 자석의 성질을 이용한 지장을 적용하면 시험품에는 자화되어서 자속이 발생한다. 이때 시험품의 표면 및 표면근방에 자속을 차단하는 결함이 있는 경우 그 부분에서 자속이 누설되고 결함의 양쪽에 자극이 발생하여 국부적인 지장을 형성한다. 연속 과정으로서 시험편에 자분을 적용하면 국부자장에 의해 자분이 자화되어 결함부분에 흡착된다. 결함 부분에 흡착된 자분 모양은 결함 폭 보다 확대되므로 육안으로 쉽게 결함이 있음을 알 수 있게 된다. 이것이 자분탐상검사의 원리이며 주로 표면 및 표면직하 검사에 적용된다.



2.8.2 사용 장비

장비명	제조사	Model	비고
탐상기	KDE (경도양행)	MP-A2 (Serial No. : MP-6472)	A.C Yoke
탐상제 (비형광 습식)	KDE (경도양행)	WMP-1	백색페인트
		7C-BLACK	흑색자분

2.8.3 자분탐상검사(M.T) 시험방법 및 적용기준

- KS D 0213 (강자성 재료에 대한 자분탐상검사와 지시의 분류)

지시의 분류	자분 모양의 형태
○ 균열 지시	균열로 식별된 지시
○ 독립 지시	선형 지시 : 지시의 길이가 그 폭의 3배 이상인 것. 비선형 지시 : 선형지시 이외의 지시
○ 연속 지시	여러 개의 지시가 거의 동일 직선 상에 연속하여 존재하고 서로의 거리가 2mm 이하인 지시. 지시의 길이에 대해 별도의 사항을 지정하지 않았다면, 지시의 길이는 각 지시의 길이와 그 사이의 거리를 합친 값으로 한다.
○ 분산 지시	일정한 면적 내에 여러 개의 자분모양이 분산하여 존재하는 자분모양

2.8.4 합부 판정 기준

검사 기법	검사 부위	판정 기준	비고
교류 극간법 비형광 습식(연속법)	용접부 + 열영향부	검사 해당 부분에 결함이 없을 것	-

2.8.5 자분탐상 검사(M.T) 실시결과

공연장 무대시설 상부 H-Beam과 구동부 Base Frame의 용접부 및 용접부 인접(열영향부) 대해서 자분탐상검사를 실시하여 안전에 지장을 줄수 있는 결함(균열, 오버랩등)을 탐상 평가했으며 해당 부분에 결함지시는 발견되지 않았다.

<자분탐상검사(M.T) 결과>

No.	무대 설비명	검사위치	검사 길이 × 검사 개소	검사결과	비고
1	No.1 Light Bridge	Base Frame	100mm×4	결함지시 없음	
2	No.2 Light Bridge	Base Frame	100mm×4	결함지시 없음	
3	No.3 Light Bridge	Base Frame	100mm×4	결함지시 없음	
4	No.4 Light Bridge	Base Frame	100mm×4	결함지시 없음	
5	No.5 Light Bridge	Base Frame	100mm×4	결함지시 없음	
6	No.6 Light Bridge	Base Frame	100mm×4	결함지시 없음	
7	No.7 Light Bridge	Base Frame	100mm×4	결함지시 없음	
8	No.8 Light Bridge	Base Frame	100mm×4	결함지시 없음	
9	No.9 Light Bridge	Base Frame	100mm×4	결함지시 없음	
10	No.10 Light Bridge	Base Frame	100mm×4	결함지시 없음	
11	No.1 Hoist	Base frame : Bolt 체결 형식 (M.T 미적용)			
12	No.2 Hoist	Base frame : Bolt 체결 형식 (M.T 미적용)			
13	No.3 Hoist	Base frame : Bolt 체결 형식 (M.T 미적용)			
14	No.4 Hoist	Base frame : Bolt 체결 형식 (M.T 미적용)			
15	No.5 Hoist	Base frame : Bolt 체결 형식 (M.T 미적용)			
16	No.6 Hoist	Base frame : Bolt 체결 형식 (M.T 미적용)			

No.	무대 설비명	검사위치	검사 길이 × 검사 개소	검사결과	비고
17	No.7 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
18	No.8 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
19	No.9 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
20	No.10 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
21	No.11 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
22	No.12 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
23	No.13 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
24	No.14 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
25	No.15 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
26	No.16 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
27	No.17 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
28	No.18 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
29	No.19 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
30	No.20 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
31	No.21 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
32	No.22 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
33	No.23 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
34	No.24 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
35	No.25 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		

제2장 정밀안전진단 실시결과

No.	무대 설비명	검사위치	검사 길이 × 검사 개소	검사결과	비고
36	No.26 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
37	No.27 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
38	No.28 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
39	No.29 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
40	No.30 Hoist		Base frame : Bolt 체결 형식 (M.T 미적용)		
41	Black Horizont Curtain	Base Frame	100mm×4	결합지시 없음	
42	White Horizont Curtain	Base Frame	100mm×4	결합지시 없음	
43	H-Beam	Support plate	100mm×10	결합지시 없음	

* M.T 적용 : Red Color Marking (구동부 Base frame 용접부)

 (42) White Horizont
Curtain

 (10) No.10 Light Bridge

 (38) No.28 Hoist
(39) No.29 Hoist
(40) No.30 Hoist

(41) Black Horizont
Curtain

(36) No.26 Hoist
(37) No.27 Hoist

 (8) No.8 Light Bridge

 (33) No.23 Hoist
(34) No.24 Hoist
(35) No.25 Hoist

 (9) No.9 Light Bridge

(31) No.21 Hoist
(32) No.22 Hoist

 (6) No.6 Light Bridge

 (28) No.18 Hoist
(29) No.19 Hoist
(30) No.20 Hoist

 (7) No.7 Light Bridge

(26) No.16 Hoist
(27) No.17 Hoist

 (4) No.4 Light Bridge

 (23) No.13 Hoist
(24) No.14 Hoist
(25) No.15 Hoist

 (5) No.5 Light Bridge

(21) No.11 Hoist
(22) No.12 Hoist

 (2) No.2 Light Bridge

 (18) No.8 Hoist
(19) No.9 Hoist
(20) No.10 Hoist

 (3) No.3 Light Bridge

(16) No.6 Hoist
(17) No.7 Hoist



ENTRANCE

 (13) No.3 Hoist
(14) No.4 Hoist
(15) No.5 Hoist

 (1) No.1 Light Bridge

(11) No.1 Hoist
(12) No.2 Hoist

2.9 초음파탐상검사(U.T)

2.9.1 초음파탐상검사 원리

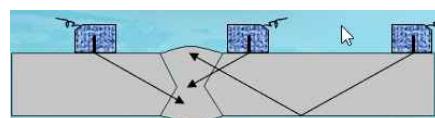
초음파검사는 재료 내부의 결함을 검출하는 방법으로써, 압전현상을 이용하여 일반적으로 고주파수(2~5MHz) 초음파 빔을 검사 부재에 침투시켜 반사된 에코(echo)를 판독함으로써 부재를 검사한다. 초음파는 재료를 통해서 진행할 때 에너지의 손실이 유발되며, 재료 계면에서 반사된다. 반사된 음파의 정도는 주로 재질의 물리적 상태 및 성질에 의해 영향을 받게 되며, 반사되는 음파에너지의 양은 두 물질의 음향특성에 의해 좌우된다. 따라서 재료내의 불연속부로부터 반사되는 에너지양, 송신된 초음파가 재료를 투과하여 불연속부로부터 반사된 진행시간, 초음파가 재료를 투과할 때 감쇠되는 에너지양의 차이가 에코로 나타내어지며 이 에코를 적용되는 법규 및 Code와 비교하여 결함의 위치와 크기 등을 측정하는 방법으로서, 재료 내부의 불연속의 크기 및 두께, 재료의 균일도 및 부식상태 등의 검사에 적용된다.

2.9.2 초음파탐상검사 장비

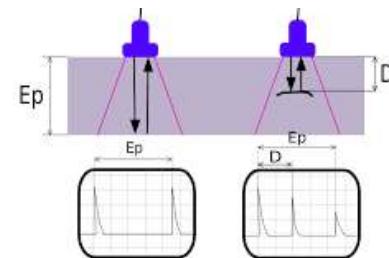
Maker	Model	탐촉자(각도,주파수,크기)	접촉매질	탐상방식
Sonatest	WAVE (S/N : I019685)	MK2S (0°, 2Mhz, Ø10) (S/N : 59077 - 606)	Ultrigel	A-SCAN



초음파탐상기



용접부 탐상 (사각탐상)



회전축 및 모재탐상(수직탐상)

2.9.3 초음파탐상검사(U.T) 시험방법 및 적용기준

- KS B 0896 (페라이트계 강 용접 이음부에 대한 초음파탐상검사)

- 두께 6mm이상인 페라이트계 강의 완전 용접 이음부를 펄스 반사법을 사용한 A-SCAN 표시의 초음파 탐상기를 이용하여 초음파탐상검사를 수동으로 실시할 때, 불연속부 검출 및 불연속부의 위치와 치수 측정

- KS D 0248 (탄소강 및 저합금강 단강품의 초음파탐상검사)

- 뒷면 에코 방식(흡 에코의 높이로 평가하는 경우)
 - 흡 에코 높이(F)와 건전부의 뒷면 에코 높이(B)와의 비(F/B)의 값을 dB 단위로 측정하여, 감도 조정에 사용한 DGS 선도에 의해 등가 결함 지름을 구한다.

2.9.4 판정 기준

검사방법	검사 부위	탐상 감도 설정	판정 기준
사각탐상	완전용입 용접부 ¹⁾	STB-A2(DAC)	KS B 0896 ²⁾
수직탐상	회전축(단강품)	뒷면 에코 방식	균열 등의 결함이 없을 것

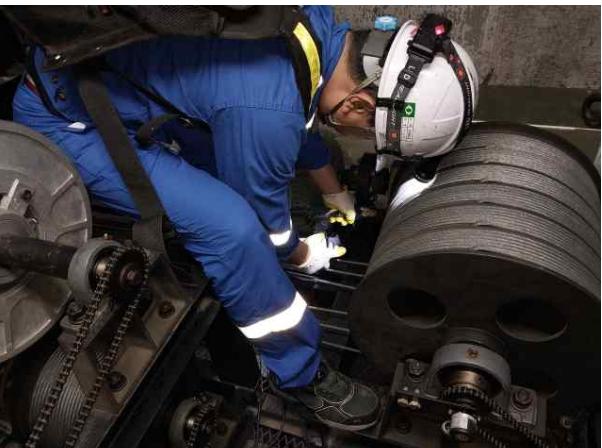
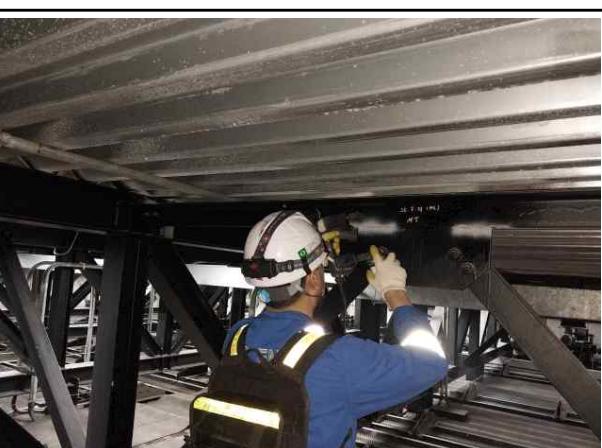
1) 용접비드 및 열영향부(HAZ)는 자분탐상검사를 실시하며 해당 부분에 결함이 없을 것

2) 인장응력, 전단응력을 받는 완전용입 맞대기 용접부 : 3류이상
T-Joint, Corner-Joint 완전용입부 : 인장응력 부재 2류이상 (압축응력 부재 3류이상)

2.9.5 초음파탐상검사(U.T) 실시결과

금번 무대시설의 정밀안전진단 기준 비파괴검사 점검대상 중 본 공연장은 완전 용입 맞대기 용접부가 적용되지 않는 구조물로써 KS B 0896에 따른 초음파탐상검사는 진행되지 않았으며, 동력전달 회전축 또한 초음파탐상검사를 적용할수 없는 구동부(회전축과 엔코더 조합형식) 무대시설로 KB D 0248을 적용한 초음파탐상검사가 진행되지 않았다.

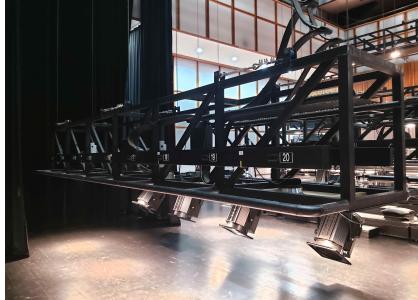
2.9.6 비파괴검사 사진

	
Base Frame 용접부 M.T	Base Frame 용접부 M.T
	
Base Frame 용접부 M.T	H-Beam 용접부 M.T
	
H-Beam 용접부 M.T	H-Beam 용접부 M.T

3. 결과분석 및 개선방안

정밀안전진단에 대한 결과분석과 개선방안은 다음과 같다.

3.1 무대 시설 공통지적사항 및 개선방안

문제점 1	장치봉, 조명봉, Hook Block(Hoist) 적재하중 및 무대 시설명 표기 누락				
점검 결과	교체	보수	수정	주의	권고
개선방안	적재하중 및 무대 시설명 표기 요함.				
관련 사진	 				
해당 시설명	장치봉 및 Hoist 전체				

3.2 무대 시설별 지적사항 및 개선방안

문제점 1	Wire Rope Clip 체결 수량 부족				
점검 결과	교체	보수	수정	주의	권고
개선방안	Wire Rope Ø10mm이하 3개 체결 요함				
관련 사진					
해당 시설명	Black Horizont Curtain, White Horizont Curtain				

제2장 정밀안전진단 실시결과

문제점 2	Wire Rpoе 변형(kink) 발생				
점검 결과	교체	보수	수정	주의	권고
	●				
개선방안	Wire Rpoе 교체를 요함				
관련 사진					
해당 시설명	White Horizont Curtain(Wire Rope No.1, 2, 3)				

문제점 3	Motor 단자박스 Cover 탈락				
점검 결과	교체	보수	수정	주의	권고
			●		
개선방안	Cover 설치를 요함				
관련 사진					
해당 시설명	No.27 Hoist				

- ※ (주) 교체 : 신규로 교체가 요구되는 사항.
- 보수 : 수리가 요구되는 사항.
- 수정 : 재조정하여 수정될 수 있는 사항.
- 주의 : 사용상 주의가 필요한 사항.
- 권고 : 안전을 위하여 권장하는 사항.

제3장 종합결론 및 건의사항

제3장 종합결론 및 건의사항

1. 무대 시설별 안전수준 및 보완 또는 개보수 요구사항

1.1 무대 시설 공통지적사항

No	무대 시설명	안전수준			보완 또는 개보수 요구사항
		양호	요보수	요고체	
1	상부 구동부	●			- 장치봉, 조명봉, Hook Block(Hoist) 적재하중 및 무대 시설명 표기 누락 ☞ 적재하중 및 무대 시설명 표기 요함
2	배전반 및 제어반	●			특이사항 없음
3	조작반	●			특이사항 없음

1.2 상부 무대 시설별 지적사항 (42조)

No	무대 시설명	안전수준			보완 또는 개보수 요구사항
		양호	요보수	요고체	
1	No.1 Light Bridge	●			특이사항 없음
2	No.2 Light Bridge	●			특이사항 없음
3	No.3 Light Bridge	●			특이사항 없음
4	No.4 Light Bridge	●			특이사항 없음
5	No.5 Light Bridge	●			특이사항 없음
6	No.6 Light Bridge	●			특이사항 없음
7	No.7 Light Bridge	●			특이사항 없음
8	No.8 Light Bridge	●			특이사항 없음
9	No.9 Light Bridge	●			특이사항 없음
10	No.10 Light Bridge	●			특이사항 없음
11	No.1 Hoist	●			특이사항 없음
12	No.2 Hoist	●			특이사항 없음
13	No.3 Hoist	●			특이사항 없음

No	무대 시설명	안전수준			보완 또는 개보수 요구사항
		양호	요보수	요고체	
14	No.4 Hoist	●			특이사항 없음
15	No.5 Hoist	●			특이사항 없음
16	No.6 Hoist	●			특이사항 없음
17	No.7 Hoist	●			특이사항 없음
18	No.8 Hoist	●			특이사항 없음
19	No.9 Hoist	●			특이사항 없음
20	No.10 Hoist	●			특이사항 없음
21	No.11 Hoist	●			특이사항 없음
22	No.12 Hoist	●			특이사항 없음
23	No.13 Hoist	●			특이사항 없음
24	No.14 Hoist	●			특이사항 없음
25	No.15 Hoist	●			특이사항 없음
26	No.16 Hoist	●			특이사항 없음
27	No.17 Hoist	●			특이사항 없음
28	No.18 Hoist	●			특이사항 없음
29	No.19 Hoist	●			특이사항 없음
30	No.20 Hoist	●			특이사항 없음
31	No.21 Hoist	●			특이사항 없음
32	No.22 Hoist	●			특이사항 없음
33	No.23 Hoist	●			특이사항 없음
34	No.24 Hoist	●			특이사항 없음
35	No.25 Hoist	●			특이사항 없음

제3장 종합결론 및 건의사항

No	무대 시설명	안전수준			보완 또는 개보수 요구사항
		양호	요보수	요교체	
36	No.26 Hoist	●			특이사항 없음
37	No.27 Hoist		●		- Motor 단자박스 Cover 탈락 ☞ Cover 설치를 요함
38	No.28 Hoist	●			
39	No.29 Hoist	●			특이사항 없음
40	No.30 Hoist	●			특이사항 없음
41	Black Horizont Curtain		●		- Wire Rpoe Clip 체결 수량 부족 ☞ Wire Rope Ø10mm이하 3개 체결 요함
42	White Horizont Curtain			●	- Wire Rpoe Clip 체결 수량 부족 ☞ Wire Rope Ø10mm이하 3개 체결 요함 - Wire Rpoe 변형(kink) 발생 ☞ Wire Rpoe 교체를 요함

※ (주) 양 호 : 안전상태가 양호한 무대 시설

요보수 : 보수나 요소 부품의 교체가 필요한 무대 시설

요교체 : 구동부 전체 또는 시스템 전체에 대한 교체가 필요한 무대 시설

2. 사용제한 무대 시설

공통 및 시설별 지적사항에 해당하는 무대 시설은 각별히 사용 주의가 필요하며, 기타 권장 사항에 대해서는 제2장 정밀 안전진단 실시결과의 “3항 결과분석 및 개선방안”을 참조하여 정비계획을 수립하여 보수·보강할 것을 권고합니다.

3. 유지관리 요구사항

- 조속히 조치 되어야 할 설비 : 없음

4. 추가사항

[부록]

1. 검사 사진
2. 측정 및 시험성과표
 - 2.1 시설별 성능 측정 결과표
 - 2.2 진동측정 결과표
 - 2.3 와이어로프 직경 측정값
 - 2.4 와이어로프 장력값
3. 무대시설 현황자료 (종합 결과표)
4. 무대시설 유지관리 참고자료

1. 검사 사진

1.1 검사 사진 List

번호	사 진 내 용
1	공연장 전경(별무리)
2	Tool Box Meeting
3	Wire Rope 장력 측정
4	Wire Rope & Sheave 점검
5	V-Belt 장력상태 점검
6	속도 측정
7	감속기 내부 내시경검사
8	정밀진동측정(FFT)
9	비파괴검사(MT)
10	Hoist Hook Block 점검
11	조도 측정
12	Cam Limit Switch 상태 점검
13	턴버클 체결상태 점검
14	소화기 점검
15	Wire Rope 직경 측정
16	조명기구 설치상태 점검
17	조작반 점검
18	와이어 로프 체결상태 점검
19	무대 바닥 점검
20	주전원 인가상태 점검
21	절연저항 측정
22	보호계전기(EOCR) 점검
23	전압 측정
24	부하전류 측정

1.2 검사 사진

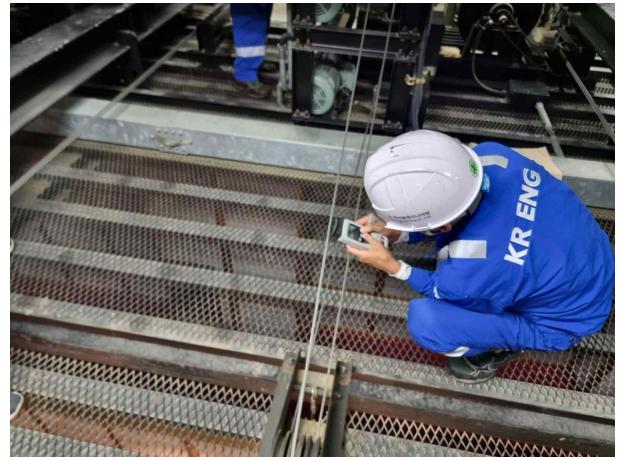
	<h3>검사 사진 보고서</h3>		
용역명 : 안산문화예술의전당 별무리 무대시설 정밀안전진단			
			
사진 설명	1. 공연장 전경	사진 설명	2. Tool Box Meeting
위치	안산문화예술의전당(별무리)	위치	스테이지
		사진 설명	3. Wire Rope 장력 측정
위치	상부 그리드	사진 설명	4. Wire Rope & Sheave 점검
위치	상부 그리드	위치	상부 그리드

(서식번호 : KRE-IF-CO-04-02)(1999.11.10)



검사 사진 보고서

용역명 : 안산문화예술의전당 별무리 무대시설 정밀안전진단

	
사진 설명 5. V-BELT 장력상태 점검	사진 설명 6. 속도 측정
위치 상부 그리드	위치 상부 그리드
	
	
사진 설명 7. 감속기 내부 내시경검사	사진 설명 8. 정밀진동측정(FFT)
위치 상부 구동부	위치 상부 구동부

(서식번호 : KRE-IF-CO-04-02)(1999.11.10)



검사 사진 보고서

용역명 : 안산문화예술의전당 별무리 무대시설 정밀안전진단



사진 설명	9. 비파괴검사(MT)	사진 설명	10. Hoist Hook Block 점검
위치	상부 그리드	위치	스테이지



사진 설명	11. 조도 측정	사진 설명	12. Cam Limit Switch 상태 점검
위치	상부 그리드	위치	상부 구동부

(서식번호 : KRE-IF-CO-04-02)(1999.11.10)



검사 사진 보고서

용역명 : 안산문화예술의전당 별무리 무대시설 정밀안전진단



사진 설명	13. 텐버클 체결상태 점검	사진 설명	14. 소화기 점검
위치	스테이지	위치	스테이지

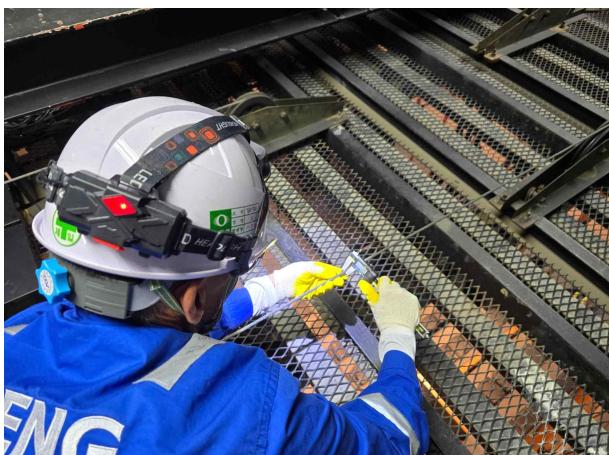


사진 설명	15. Wire Rope 직경측정	사진 설명	16. 조명기구 설치상태 점검
위치	상부 그리드	위치	스테이지



검사 사진 보고서

용역명 : 안산문화예술의전당 별무리 무대시설 정밀안전진단



사진 설명	17. 조작반 점검	사진 설명	18. 와이어 로프 체결상태 점검
위치	조작반	위치	스테이지



사진 설명	19. 무대 바닥 점검	사진 설명	20. 주전원 인가상태 점검
위치	무대 바닥	위치	제어반



검사 사진 보고서

용역명 : 안산문화예술의전당 별무리 무대시설 정밀안전진단

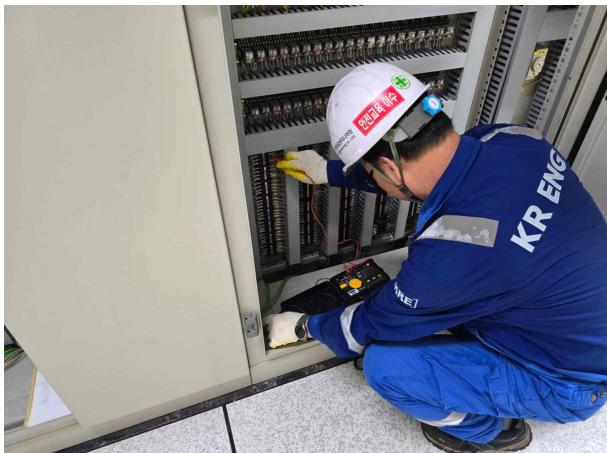


사진 설명	21. 절연저항 측정	사진 설명	22. 보호계전기(EOCR) 점검
위치	제어반	위치	제어반



사진 설명	23. 전압 측정	사진 설명	24. 부하전류 측정
위치	제어반	위치	제어반

(서식번호 : KRE-IF-CO-04-02)(1999.11.10)

2. 측정 및 시험성과표

2.1 시설별 성능 측정 결과표

No.	무대 시설명	전동기						절연저항 (MΩ)	소음 (dB(A))		속도 (m/min)		
		출력 (kW)	전압 (V)	회전수 (RPM)	전류 (A)				측정치				
					기준치 (이하)	측정치			상승	하강			
						Open	Close						
						Tilt 상	Tilt 하						
1	No.1 Light Bridge	3.7	380	1,160	8.7	6.0	5.3	1	850	75	68/67		
2	No.2 Light Bridge	3.7	380	1,160	8.7	5.8	5.4	1	570	75	69/68		
3	No.3 Light Bridge	3.7	380	1,160	8.7	6.4	5.7	1	520	75	67/67		
4	No.4 Light Bridge	3.7	380	1,160	8.7	6.5	5.6	1	650	75	68/70		
5	No.5 Light Bridge	3.7	380	1,160	8.7	6.5	5.8	1	930	75	67/68		
6	No.6 Light Bridge	3.7	380	1,160	8.7	6.1	5.3	1	1,200	75	68/68		
7	No.7 Light Bridge	3.7	380	1,160	8.7	5.7	5.1	1	590	75	69/68		
8	No.8 Light Bridge	3.7	380	1,160	8.7	5.9	5.3	1	910	75	70/70		
9	No.9 Light Bridge	3.7	380	1,160	8.7	6.3	5.7	1	610	75	67/68		
10	No.10 Light Bridge	3.7	380	1,160	8.7	6.2	5.4	1	2,000	75	68/69		
11	No.1 Hoist	2.2	380	1,720	5.3	2.2	2.1	1	2,000	75	69/68		
12	No.2 Hoist	2.2	380	1,720	5.3	1.9	1.8	1	2,000	75	68/67		
13	No.3 Hoist	2.2	380	1,720	5.3	2.3	2.3	1	2,000	75	67/67		
14	No.4 Hoist	2.2	380	1,720	5.3	1.9	1.9	1	2,000	75	68/70		
15	No.5 Hoist	2.2	380	1,720	5.3	2.0	1.9	1	2,000	75	67/68		

No.	무대 시설명	전동기						절연저항 (MΩ)	소음 (dB(A))		속도 (m/min)
		출력 (kW)	전압 (V)	회전수 (RPM)	전류 (A)		기준치 (이하)	측정치		기준치 (이하)	속도 (m/min)
					기준치 (이하)	상승		하강	Open	Close	
16	No.6 Hoist	2.2	380	1,720	5.3	2.1	1.9	1	2,000	75	68/68
17	No.7 Hoist	2.2	380	1,720	5.3	2.1	2.0	1	2,000	75	69/71
18	No.8 Hoist	2.2	380	1,720	5.3	2.0	1.9	1	2,000	75	70/69
19	No.9 Hoist	2.2	380	1,720	5.3	1.8	1.8	1	2,000	75	68/69
20	No.10 Hoist	2.2	380	1,720	5.3	1.8	1.8	1	2,000	75	68/69
21	No.11 Hoist	2.2	380	1,720	5.3	2.2	2.0	1	2,000	75	65/68
22	No.12 Hoist	2.2	380	1,720	5.3	2.2	2.2	1	2,000	75	66/65
23	No.13 Hoist	2.2	380	1,720	5.3	2.0	2.0	1	2,000	75	67/66
24	No.14 Hoist	2.2	380	1,720	5.3	1.8	1.8	1	2,000	75	70/67
25	No.15 Hoist	2.2	380	1,720	5.3	2.2	2.1	1	2,000	75	69/66
26	No.16 Hoist	2.2	380	1,720	5.3	3.5	1.7	1	2,000	75	68/70
27	No.17 Hoist	2.2	380	1,720	5.3	2.1	2.0	1	2,000	75	64/66
28	No.18 Hoist	2.2	380	1,720	5.3	2.3	2.1	1	2,000	75	63/62
29	No.19 Hoist	2.2	380	1,720	5.3	1.9	1.8	1	2,000	75	63/64
30	No.20 Hoist	2.2	380	1,720	5.3	2.6	1.8	1	2,000	75	66/67

No.	무대 시설명	전동기						절연저항 (MΩ)	소음 (dB(A))		속도 (m/min)
		출력 (kW)	전압 (V)	회전수 (RPM)	전류 (A)		기준치 (이하)	측정치		기준치 (이하)	속도 (m/min)
					기준치 (이하)	상승		하강	Open	Close	
31	No.21 Hoist	2.2	380	1,720	5.3	2.5	1.9	1	2,000	75	69/67
32	No.22 Hoist	2.2	380	1,720	5.3	3.0	2.9	1	2,000	75	69/68
33	No.23 Hoist	2.2	380	1,720	5.3	2.1	2.0	1	2,000	75	68/67
34	No.24 Hoist	2.2	380	1,720	5.3	2.0	1.9	1	2,000	75	67/67
35	No.25 Hoist	2.2	380	1,720	5.3	2.4	1.7	1	2,000	75	66/67
36	No.26 Hoist	2.2	380	1,720	5.3	2.5	1.9	1	2,000	75	65/68
37	No.27 Hoist	2.2	380	1,720	5.3	1.9	1.8	1	2,000	75	66/65
38	No.28 Hoist	2.2	380	1,720	5.3	2.0	1.9	1	2,000	75	63/64
39	No.29 Hoist	2.2	380	1,720	5.3	1.8	1.8	1	2,000	75	65/66
40	No.30 Hoist	2.2	380	1,720	5.3	2.7	2.0	1	2,000	75	68/65
41	Black Horizont Curtain	3.7	380	1,160	8.7	4.8	4.5	1	810	75	64/65
42	White Horizont Curtain	3.7	380	1,160	8.7	5.5	5.3	1	900	75	65/69

☞ Remark :

2.2 진동측정 결과표

No	무대 시설명	전동기 출력 (kW)	기준치 (mm/s) 이하	진동값(mm/s, rms)						등급	
				전동기			감속기				
				V	H	A	V	H	A		
1	No.1 Light Bridge	3.7	1.8	1.2	1.0	1.2	1.4	1.3	0.9	B	
2	No.2 Light Bridge	3.7	1.8	1.0	1.4	0.9	0.7	1.4	0.7	B	
3	No.3 Light Bridge	3.7	1.8	0.7	1.6	0.9	1.6	0.8	0.9	B	
4	No.4 Light Bridge	3.7	1.8	1.2	1.0	0.4	0.8	0.5	0.5	B	
5	No.5 Light Bridge	3.7	1.8	1.2	0.5	0.8	0.5	1.5	0.8	B	
6	No.6 Light Bridge	3.7	1.8	1.1	1.7	1.1	1.0	1.0	0.9	B	
7	No.7 Light Bridge	3.7	1.8	1.3	1.3	0.6	1.0	1.6	1.4	B	
8	No.8 Light Bridge	3.7	1.8	1.7	1.0	0.8	1.0	1.4	0.8	B	
9	No.9 Light Bridge	3.7	1.8	1.4	0.5	1.1	0.6	0.5	0.5	B	
10	No.10 Light Bridge	3.7	1.8	0.9	0.6	0.5	1.2	1.0	0.9	B	
11	No.1 Hoist	2.2	1.8	1.0	1.4	1.3	0.9	1.0	0.3	B	
12	No.2 Hoist	2.2	1.8	1.4	1.0	1.6	1.0	0.9	1.2	B	
13	No.3 Hoist	2.2	1.8	0.6	0.9	1.0	1.1	0.2	0.3	B	
14	No.4 Hoist	2.2	1.8	0.9	1.0	0.9	0.9	0.4	0.6	B	
15	No.5 Hoist	2.2	1.8	1.2	1.0	1.3	1.5	1.5	1.5	B	
16	No.6 Hoist	2.2	1.8	1.4	0.4	1.3	1.2	1.0	0.5	B	
17	No.7 Hoist	2.2	1.8	1.3	1.3	0.6	1.0	1.6	1.3	B	
18	No.8 Hoist	2.2	1.8	1.0	0.8	1.1	0.4	0.3	0.5	B	
19	No.9 Hoist	2.2	1.8	1.0	0.7	1.2	0.5	0.9	0.5	B	
20	No.10 Hoist	2.2	1.8	1.1	1.0	1.0	0.6	1.5	1.3	B	
21	No.11 Hoist	2.2	1.8	0.9	1.4	1.4	0.6	0.3	0.9	B	

No	무대 시설명	전동기 출력 (kW)	기준치 (mm/s) 이하	진동값(mm/s, rms)						등급	
				전동기			감속기				
				V	H	A	V	H	A		
22	No.12 Hoist	2.2	1.8	1.6	0.8	0.9	0.3	1.2	0.3	B	
23	No.13 Hoist	2.2	1.8	1.2	0.9	1.1	0.8	1.0	0.5	B	
24	No.14 Hoist	2.2	1.8	1.4	1.4	1.2	0.3	1.0	1.1	B	
25	No.15 Hoist	2.2	1.8	0.8	0.9	1.4	0.6	0.5	1.3	B	
26	No.16 Hoist	2.2	1.8	1.6	0.8	0.8	1.2	0.6	1.3	B	
27	No.17 Hoist	2.2	1.8	1.3	0.9	0.7	1.0	0.4	0.9	B	
28	No.18 Hoist	2.2	1.8	1.4	0.5	0.4	0.3	1.7	1.1	B	
29	No.19 Hoist	2.2	1.8	0.8	0.8	1.3	0.8	0.9	0.8	B	
30	No.20 Hoist	2.2	1.8	1.4	1.3	0.9	0.6	0.9	0.9	B	
31	No.21 Hoist	2.2	1.8	1.0	1.2	1.2	0.4	0.8	1.1	B	
32	No.22 Hoist	2.2	1.8	0.6	0.8	0.8	0.4	0.8	0.6	B	
33	No.23 Hoist	2.2	1.8	0.8	1.2	1.0	1.1	0.3	0.5	B	
34	No.24 Hoist	2.2	1.8	0.9	0.8	0.8	0.6	1.1	0.9	B	
35	No.25 Hoist	2.2	1.8	0.9	1.3	1.6	0.3	1.4	1.2	B	
36	No.26 Hoist	2.2	1.8	0.8	1.4	0.5	0.6	1.1	0.8	B	
37	No.27 Hoist	2.2	1.8	0.9	0.9	1.4	0.4	1.0	1.0	B	
38	No.28 Hoist	2.2	1.8	0.6	1.5	0.5	1.1	0.9	0.3	B	
39	No.29 Hoist	2.2	1.8	1.7	0.8	1.3	0.5	0.8	1.2	B	
40	No.30 Hoist	2.2	1.8	1.7	1.7	0.3	0.6	0.8	1.6	B	
41	Black Horizont Curtain	3.7	1.8	0.6	1.2	0.5	0.5	0.3	0.3	B	
42	White Horizont Curtain	3.7	1.8	0.7	1.0	0.6	1.7	1.2	1.6	B	

☞ Remark :

진동, 소음 평가 기준 및 등급은 아래 참조(KS A 6113:2021)

* 진동평가 기준(적용기준 ; KS B ISO 20816-1)

1. KS B ISO 20816-1 : 정격 출력 15kW까지의 출력을 갖는 전기모터
표 C.1-비회전부에 대한 영역 A/B, B/C, 및 C/D 경계의 전형적인 범위

비회전부에 대한 전형적인 영역 경계값의 범위 r.m.s(실효값) 진동 속도(mm/s)				
0.28				0.28
0.45				0.45
0.71				0.71
1.12	영역경계 A/B (0.71~4.5)			1.12
1.8		영역경계 B/C (1.8~9.3)		1.8
2.8				2.8
4.5				4.5
7.1			영역경계 C/D (4.5~14.7)	7.1
9.3				9.3
11.2				11.2
14.7				14.7
18				18
28				28
45				45

비고 1. 이 표는 특정 국제표준이 개발되어 있지 않으며 사용한 적합한 경험이 없는 기계에 대해서만 적용한다
비고 2. 소형기계들(예를 들면 15kW까지의 출력을 갖는 전기모터)은 그 범위의 하단에 있는 경향이 있으며, 대형기계들(예를 들면, 측정의 방향으로 유연한 지지를 갖는 주 원동기)은 그 범위의 상단에 있는 경향이 있다

※ 평가 영역

영역 A : 새로이 운전 개시된 기계들의 진동은 통상적으로 이 영역에 속한다.

영역 B : 이 영역 내의 진동을 갖는 기계들은 통상적으로 제한 없는 장기간 연속운전이 허용되는 것으로 간주한다.

영역 C : 이 영역 내의 진동을 갖는 기계들은 통상적으로 장기간 연속운전에 부적합한 것으로 간주된다. 일반적으로 개선 조치를 위한 적절한 기회가 올 때까지 기계는 이 조건에서 제한된 기간 동안 운전될 수 있다.

영역 D : 이 영역에 내의 진동 값은 통상적으로 기계에 손상을 유발할 수 있는 충분한 심각도인 것으로 간주한다.

적용	15kW 이하	평가	내용	비고
회전기계류 진동 (mm/s, rms)	0 - 0.71	A	양호(Good)	
	0.72 - 1.80	B	만족(Allowable)	
	1.81 - 4.50	C	제한적 허용(Limited Permission)	
	4.51 - 이상	D	허용 불가(Not Permissible)	

(평가 등급 참고자료)

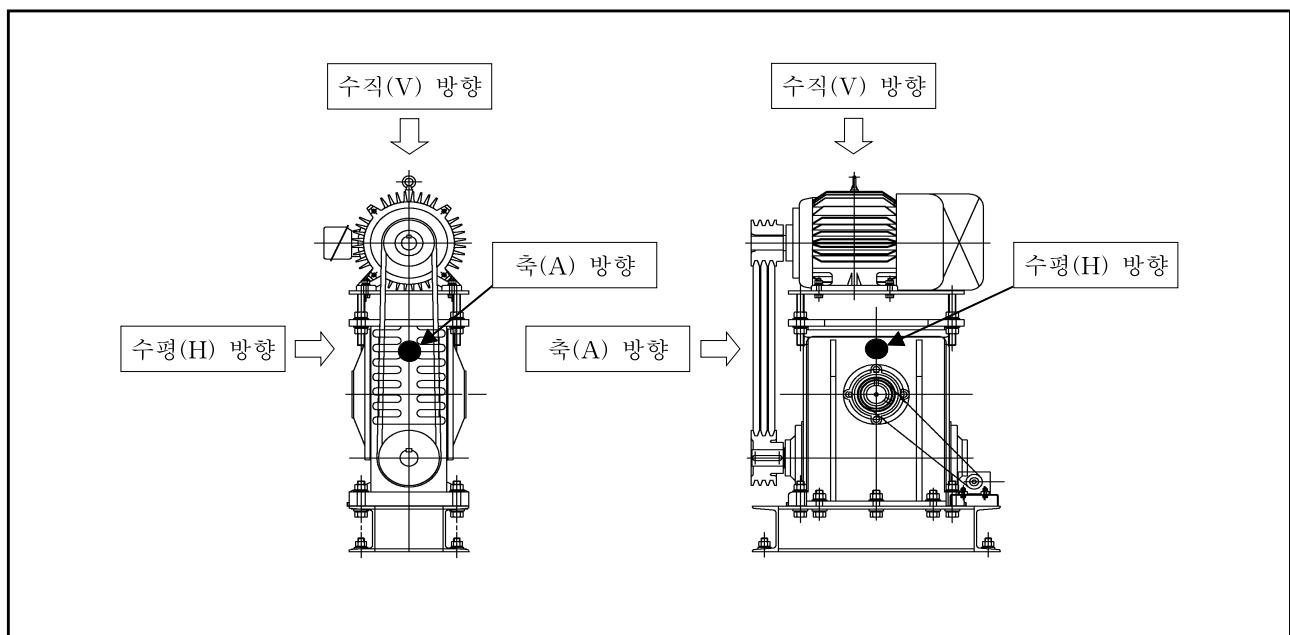
2. KS B ISO 10816-3 : 2군 기계에 대한 진동 심각도 영역 분류 : 정격 출력 15kW 초과 300kW 이하의 중형기계 (축 높이 $160\text{mm} \leq H < 315\text{mm}$ 인 전기기계)

지지대 종류	영역 경계	속도 실효값 (mm/s)	
		그룹 1	그룹 2
강성 지지대	A/B	2.3	1.4
	B/C	4.5	2.8
	C/D	7.1	4.5
유연 지지대	A/B	3.5	2.3
	B/C	7.1	4.5
	C/D	11	7.1

진동 수치 mm/s	강성 지지대		유연 지지대	
	그룹 1	그룹 2	그룹 1	그룹 2
0.45	A	A	A	A
0.71				
1.4	B	B	B	B
2.3				
2.8	C	C	C	C
3.5				
4.5	D	D	D	D
7.1				
11				
45				

Remarks :

- 1) 지지구조 : 강성지지 1차 고유진동수가 회전수 $> 25\%$ 인 경우(산업단지 공장의 기계)
- 2) 진동 등급 구분 : (A: 양호 / B: 장시간운전가능 / C: 제한적 운전허용 / D: 사용불가)
- 3) 그룹1 : 대형기계(300kW ~ 50MW), 전기기계(축 높이 $H = 315\text{mm}$ 이상)
- 4) 그룹2 : 중형기계(15 ~ 300kW), 전기기계($160 \leq H < 315\text{mm}$)



[그림] 진동측정 방향

* 소음 평가 기준

구동부에서 발생하는 소음에 대한 평가 기준은 문화체육관광부의 “공연장 무대시설 안전진단 시행세칙”의 [별표3]무대시설 정기 안전검사 기준인 아래 표의 기준값 이하일 것.
(하부 무대시설의 경우에는 공간구성 등 측정 환경을 고려하여 평가한다)

전동기 용량 (kW)	소음도 기준값(dB(A))
3.7 이하	75
3.7 초과 7.5 이하	80
7.5 초과 15 이하	85
15 초과	90

2.3 와이어로프 직경 측정값

No.	무대 시설명	Wire Rope 직경/수량	와이어로프 지름 측정값(mm)						비고
			No.1	No.2	No.3	No.4	No.5	No.6	
1	No.1 Light Bridge	Ø6×6	6.0	5.9	6.0	5.9	6.0	6.0	
2	No.2 Light Bridge	Ø6×6	5.9	5.9	6.0	6.0	6.0	5.9	
3	No.3 Light Bridge	Ø6×6	6.0	6.0	5.9	5.9	6.0	6.0	
4	No.4 Light Bridge	Ø6×6	5.9	5.9	5.9	6.0	5.9	5.9	
5	No.5 Light Bridge	Ø6×6	6.0	6.0	5.9	5.9	6.0	6.0	
6	No.6 Light Bridge	Ø6×6	6.0	5.9	6.0	6.0	6.0	6.0	
7	No.7 Light Bridge	Ø6×6	5.9	5.9	6.0	6.0	5.9	6.0	
8	No.8 Light Bridge	Ø6×6	6.0	5.9	5.9	6.0	5.9	6.0	
9	No.9 Light Bridge	Ø6×6	5.9	6.0	5.9	6.0	6.0	5.9	
10	No.10 Light Bridge	Ø6×6	5.9	5.9	5.9	6.0	6.0	5.9	
11	No.1 Hoist	Ø6×1	5.9	-	-	-	-	-	
12	No.2 Hoist	Ø6×1	6.0	-	-	-	-	-	
13	No.3 Hoist	Ø6×1	6.0	-	-	-	-	-	
14	No.4 Hoist	Ø6×1	5.9	-	-	-	-	-	
15	No.5 Hoist	Ø6×1	6.0	-	-	-	-	-	
16	No.6 Hoist	Ø6×1	5.9	-	-	-	-	-	
17	No.7 Hoist	Ø6×1	6.0	-	-	-	-	-	
18	No.8 Hoist	Ø6×1	6.0	-	-	-	-	-	
19	No.9 Hoist	Ø6×1	5.9	-	-	-	-	-	
20	No.10 Hoist	Ø6×1	6.0	-	-	-	-	-	
21	No.11 Hoist	Ø6×1	6.0	-	-	-	-	-	

No.	무대 시설명	Wire Rope 직경/수량	와이어로프 지름 측정값(mm)						비고
			No.1	No.2	No.3	No.4	No.5	No.6	
22	No.12 Hoist	Ø6×1	5.9	-	-	-	-	-	
23	No.13 Hoist	Ø6×1	6.0	-	-	-	-	-	
24	No.14 Hoist	Ø6×1	5.9	-	-	-	-	-	
25	No.15 Hoist	Ø6×1	6.0	-	-	-	-	-	
26	No.16 Hoist	Ø6×5	5.9	5.9	6.0	6.0	6.0	-	
27	No.17 Hoist	Ø6×1	5.9	-	-	-	-	-	
28	No.18 Hoist	Ø6×1	6.0	-	-	-	-	-	
29	No.19 Hoist	Ø6×1	6.0	-	-	-	-	-	
30	No.20 Hoist	Ø6×1	5.9	-	-	-	-	-	
31	No.21 Hoist	Ø6×1	5.9	-	-	-	-	-	
32	No.22 Hoist	Ø6×1	6.0	-	-	-	-	-	
33	No.23 Hoist	Ø6×1	6.0	-	-	-	-	-	
34	No.24 Hoist	Ø6×1	5.9	-	-	-	-	-	
35	No.25 Hoist	Ø6×5	5.9	6.0	6.0	5.9	5.9	-	
36	No.26 Hoist	Ø6×5	6.0	6.0	5.9	6.0	6.0	-	
37	No.27 Hoist	Ø6×1	6.0	-	-	-	-	-	
38	No.28 Hoist	Ø6×1	6.0	-	-	-	-	-	
39	No.29 Hoist	Ø6×1	6.0	-	-	-	-	-	
40	No.30 Hoist	Ø6×1	5.9	-	-	-	-	-	
41	Black Horizont Curtain	Ø6×5	6.0	5.9	6.0	5.9	6.0	-	
42	White Horizont Curtain	Ø6×5	5.9	6.0	6.0	6.0	5.9	-	

☞ Remark :

2.4 와이어로프 장력값

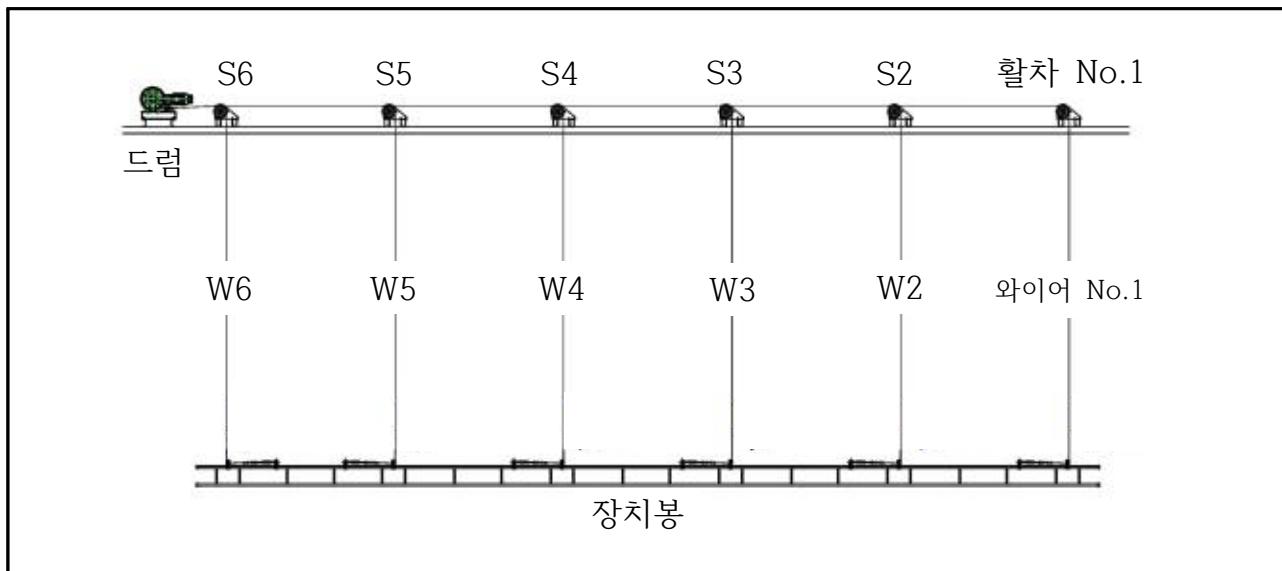
No.	무대 시설명	Wire Rope 직경/수량	와이어로프 장력 측정값(kgf)						비고
			No.1	No.2	No.3	No.4	No.5	No.6	
1	No.1 Light Bridge	Ø6×6	72	78	85	85	79	75	
2	No.2 Light Bridge	Ø6×6	66	72	86	75	77	68	
3	No.3 Light Bridge	Ø6×6	69	73	81	73	63	59	
4	No.4 Light Bridge	Ø6×6	68	72	78	76	65	57	
5	No.5 Light Bridge	Ø6×6	69	74	79	75	70	63	
6	No.6 Light Bridge	Ø6×6	75	80	86	86	79	72	
7	No.7 Light Bridge	Ø6×6	60	74	82	77	62	58	
8	No.8 Light Bridge	Ø6×6	60	62	67	60	59	59	
9	No.9 Light Bridge	Ø6×6	65	68	75	72	68	65	
10	No.10 Light Bridge	Ø6×6	60	75	82	77	69	62	
11	No.1 Hoist	Ø6×1	0	-	-	-	-	-	
12	No.2 Hoist	Ø6×1	0	-	-	-	-	-	
13	No.3 Hoist	Ø6×1	0	-	-	-	-	-	
14	No.4 Hoist	Ø6×1	0	-	-	-	-	-	
15	No.5 Hoist	Ø6×1	0	-	-	-	-	-	
16	No.6 Hoist	Ø6×1	0	-	-	-	-	-	
17	No.7 Hoist	Ø6×1	0	-	-	-	-	-	
18	No.8 Hoist	Ø6×1	0	-	-	-	-	-	
19	No.9 Hoist	Ø6×1	0	-	-	-	-	-	
20	No.10 Hoist	Ø6×1	0	-	-	-	-	-	
21	No.11 Hoist	Ø6×1	0	-	-	-	-	-	

No.	무대 시설명	Wire Rope 직경/수량	와이어로프 장력 측정값(kgf)						비고
			No.1	No.2	No.3	No.4	No.5	No.6	
22	No.12 Hoist	Ø6×1	0	-	-	-	-	-	
23	No.13 Hoist	Ø6×1	0	-	-	-	-	-	
24	No.14 Hoist	Ø6×1	0	-	-	-	-	-	
25	No.15 Hoist	Ø6×1	0	-	-	-	-	-	
26	No.16 Hoist	Ø6×5	33	36	38	36	35	-	
27	No.17 Hoist	Ø6×1	0	-	-	-	-	-	
28	No.18 Hoist	Ø6×1	0	-	-	-	-	-	
29	No.19 Hoist	Ø6×1	0	-	-	-	-	-	
30	No.20 Hoist	Ø6×5	38	39	43	38	37	-	
31	No.21 Hoist	Ø6×1	0	-	-	-	-	-	
32	No.22 Hoist	Ø6×1	0	-	-	-	-	-	
33	No.23 Hoist	Ø6×1	0	-	-	-	-	-	
34	No.24 Hoist	Ø6×1	0	-	-	-	-	-	
35	No.25 Hoist	Ø6×5	28	32	36	32	29	-	
36	No.26 Hoist	Ø6×5	34	36	40	35	36	-	
37	No.27 Hoist	Ø6×1	0	-	-	-	-	-	
38	No.28 Hoist	Ø6×1	0	-	-	-	-	-	
39	No.29 Hoist	Ø6×1	0	-	-	-	-	-	
40	No.30 Hoist	Ø6×1	0	-	-	-	-	-	
41	Black Horizont Curtain	Ø6×5	28	26	28	26	25	-	
42	White Horizont Curtain	Ø6×5	28	25	22	20	22	-	

☞ Remark :

- 와이어 순서 및 식별번호는 아래 그림 참조

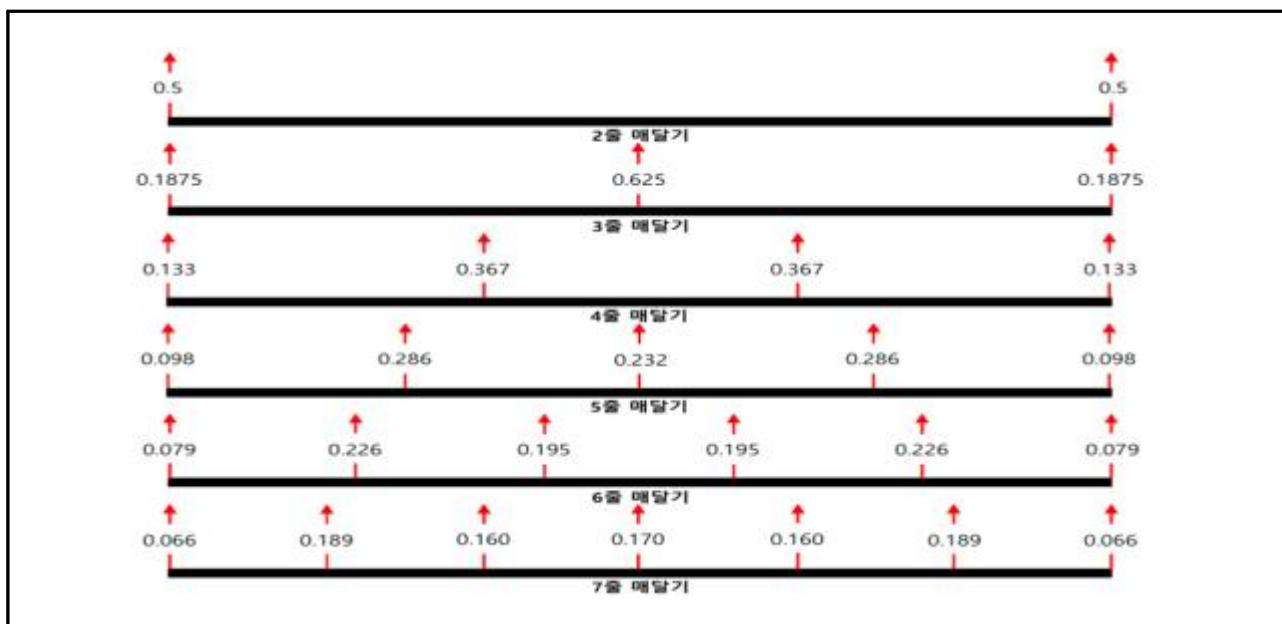
활차와 와이어의 식별번호는 아래 [그림 1]과 같이 구동장치의 Main Drum에서 가장 먼 곳의 활차에 장착된 와이어로프로 부터 1번(S1, W1)순으로 번호를 부여하였다.



[그림 1]

- 장치봉 와이어로프의 하중분포 기준

장치봉 전체가 수평을 유지하면서 하중이 고르게 분포되도록 하기 위한 기준은 아래의 [그림 2]와 같이 와이어로프의 하중분포를 기준으로 한다.



[그림 2]

3. 무대시설 현황자료 (종합 결과표)

무대 시설명	수량	안전수준			주요 지적사항	
		양호	요보수	요교체		
상부 무대 시설	방화막	0	0	0	해당 없음	
	막시설	32	29	0	0	1. 공통사항 - 장치봉, 조명봉, Hook Block(Hoist) 적재하중 및 무대 시설명 표기 누락
			0	1	0	1. Black Horizont Curtain, - Wire Rpoe Clip 체결 수량 부족
			0	0	1	1. White Horizont Curtain - Wire Rpoe Clip 체결 수량 부족 - Wire Rpoe 변형(kink) 발생
			0	1	0	1. No.27 Hoist - Motor 단자박스 Cover 틸락
	음향시설	0	0	0	해당 없음	
	조명시설	10	10	0	1. 공통사항 - 장치봉, 조명봉, Hook Block(Hoist) 적재하중 및 무대 시설명 표기 누락	
하부 무대 시설	연주승강무대	0	0	0	해당 없음	
	회전무대	0	0	0	해당 없음	
	승강무대	0	0	0	해당 없음	
	이동무대	0	0	0	해당 없음	
합계		42	39	2	1	

무대 시설명	수량	안전수준			주요 지적사항
		양호	요보수	요교체	
기타 및 공통시설	0	0	0	0	특이사항 없음

4. 무대시설 유지관리 참고자료

- 무대 시설별 문제점을 토대로 개선 계획안을 마련할 것을 권장함
- 해당 무대 시설에 대한 전반적인 개선 계획 수립이 어려운 경우 무대 시설 점검 결과 내용을 토대로 개선안을 마련할 것을 권장함
- 공연장 환경 및 운영 조건에 따라 요소 부품별 내구연한의 편차는 있으나 향후 무대 시설의 안전성 확보를 위하여 각 요소별 내구연한을 제시하오니 공연장 관리자는 다음의 표를 참고한 중장기적 개선 계획을 수립할 것을 권장함

항목	No.	품명	내구연한	비고
구동부	1	와이어로프	5 ~ 7	와이어의 상태 체크, 세부조정
	2	마닐라로프 (Manila rope)	5 ~ 7	상태 체크
	3	활차	10	구동 상태 체크
	4	장치봉	20	상태 체크
	5	락 기어	15	주기적으로 종합점검
	6	피니언 기어	15	주기적으로 종합점검
	7	구동축	15	주기적으로 종합점검
	8	구동 베어링 및 받침대	10	주기적으로 종합점검
	9	커플링	10	주기적으로 종합점검
	10	가이드 레일	10	주기적으로 종합점검
	11	가이드 슈	10	주기적으로 종합점검
	12	로프 락	10	상태 체크
	13	커튼 러너	10	상태 체크
	14	오일 씰	3 ~ 5	주기적으로 종합점검
	15	무대 시설 본체	15 ~ 20	주기적으로 종합점검
전동기	1	전동기 및 구동 기구	7 ~ 10	구동 상태 체크
	2	베어링	7 ~ 10	구동 상태 체크
	3	권선의 절연처리	10	주기적으로 측정
	4	전면 점검	20	상태 체크

항목	No.	품명	내구연한	비고
감속기	1	월기어	15	구동 상태 체크
	2	월샤프트	15	구동 상태 체크
	3	베어링	10	구동 상태 체크
	4	기어 및 오일	3	주기적으로 종합점검
	5	메인 활차, 드럼	7	밸런스 사용상태 점검
	6	브레이크슈(라이닝)	10	주기적으로 종합점검
	7	브레이크 솔레노이드	10	주기적으로 종합점검
	8	V 벨트	7	상태 체크
제어장치	1	제어반 내 일반부품(릴레이 등)	10	주기적으로 종합점검
	2	제어반 내 휴즈 엘리먼트	5	주기적으로 종합점검
	3	제어반 내 전자부품	5	주기적으로 종합점검
	4	조작반 전체	20	주기적으로 종합점검
	5	조작반 내 압침, 스위치, 표시등	5 ~ 10	모델변경 등
	6	리미트스위치, 각 제어 스위치	7 ~ 10	주기적으로 종합점검
	7	제어케이블	10	상태 체크
	8	배선교환	수시	회로절연측정
	9	전원장치	5 ~ 8	주전원 인입 상태 체크
	10	인버터 유닛	6 ~ 8	구동 상태 체크
	11	PLC	6 ~ 8	회로 체크
	12	컴퓨터	3 ~ 7	소프트웨어는 별도
기타	1	무대 시설 도장	7 ~ 10	주기적으로 종합점검