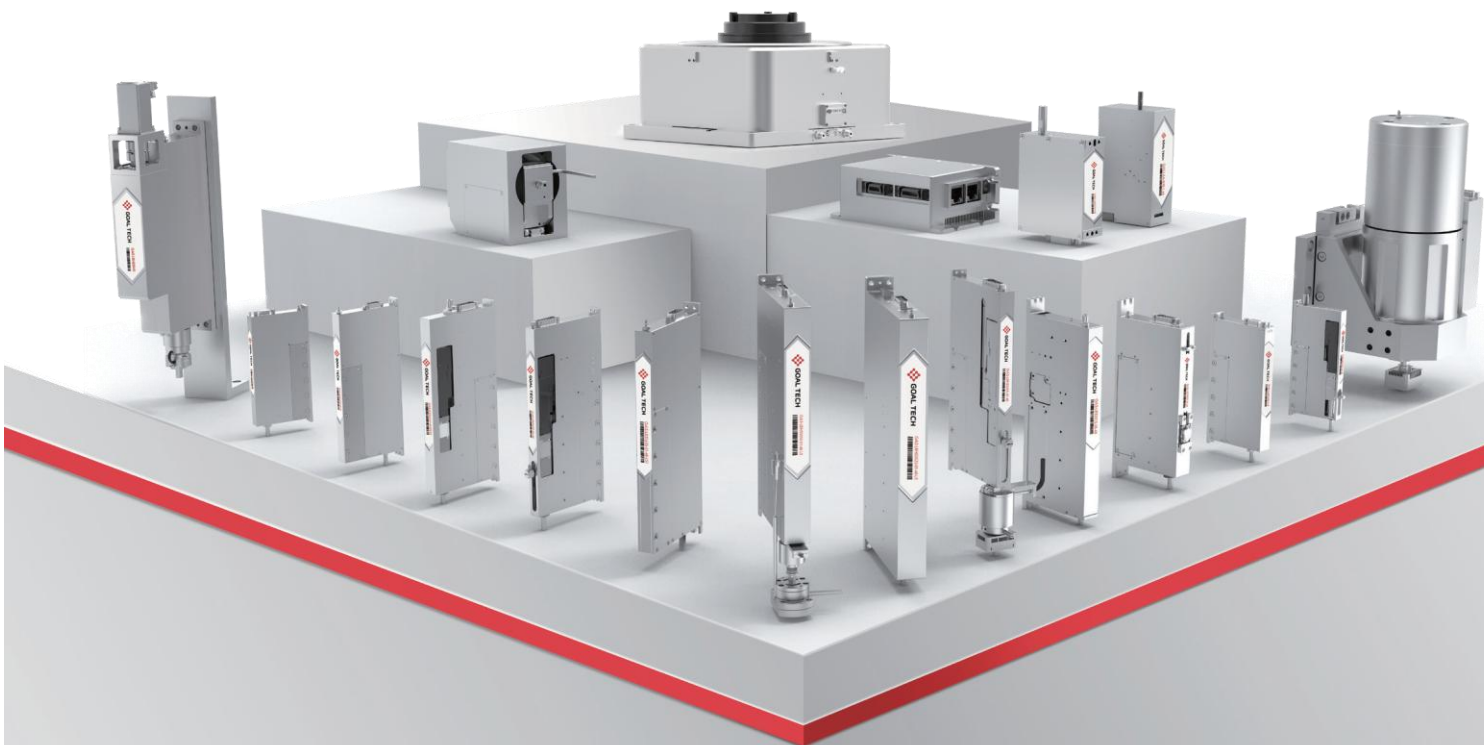


Goal Tech Motors Catalog

国奥电机产品型录 (2026)

www.goaltech.com



国奥科技（深圳）有限公司
Goal Technology(Shenzhen)Co.,Ltd.

-  **Goal Technology (Shenzhen) Co., Ltd.**
-  **PRODUCTION CENTER**
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-  **BUSINESS&TECHNICAL TELEPHONE**
+86-153-2344-9695
[Engineer Mr. Chen]



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ABOUT GOAL TECH



» COMPANY PROFILE

Goal Technology (Shenzhen) Co., Ltd.는 2018년 중국 선전에 설립된 고정밀 모터 장비 및 드라이브 전문 기업입니다.

당사의 연구센터는 홍콩이공대학교 전력전자 연구센터 출신의 박사급 연구진을 비롯하여, 화남이공대학교, 선전대학교, 광둥공업대학교의 교수진 및 박사 연구팀으로 구성되어 있으며, 고정밀 모터 장비와 드라이브 기술 연구개발에 주력하고 있습니다.

Creating Change Through Technology
|
첨단 제조 혁신을 이끌고, 세계의 변화를 선도합니다



» TECHNOLOGICAL INNOVATION

Goal Tech는 시리즈 A 투자를 성공적으로 유치하였으며, 100건 이상의 핵심 특허 및 소프트웨어 저작권을 출원하며 기술 경쟁력을 확보해 왔습니다. 직접 구동 분야에서 2019년과 2020년 연속으로 ‘기술혁신 선도기업’에 선정되었고, 2019년 중국 혁신창업대회 첨단제조 분야에서는 ‘우수기업상’을 수상하였습니다. 또한 2021년에는 ‘국가첨단기술기업’ 인증을 획득하며 첨단 기술 기업으로서의 역량을 인정받았습니다.

Goal Tech는 “기술을 통한 변화 창조”라는 기업 이념 아래, 반도체, 3C 소비자 전자제품, 산업 제조 등 다양한 산업 분야의 정밀화·지능화 발전을 지원하고 있습니다. 나아가 핵심 기술과 고급 부품 분야에서 장기간 지속되어 온 기술 독점 구조를 극복하고, 고성능 모션 제어 및 정밀 구동 기술의 국산화와 산업 발전에 기여하고자 합니다.



MOTOR



EQUIPMENT

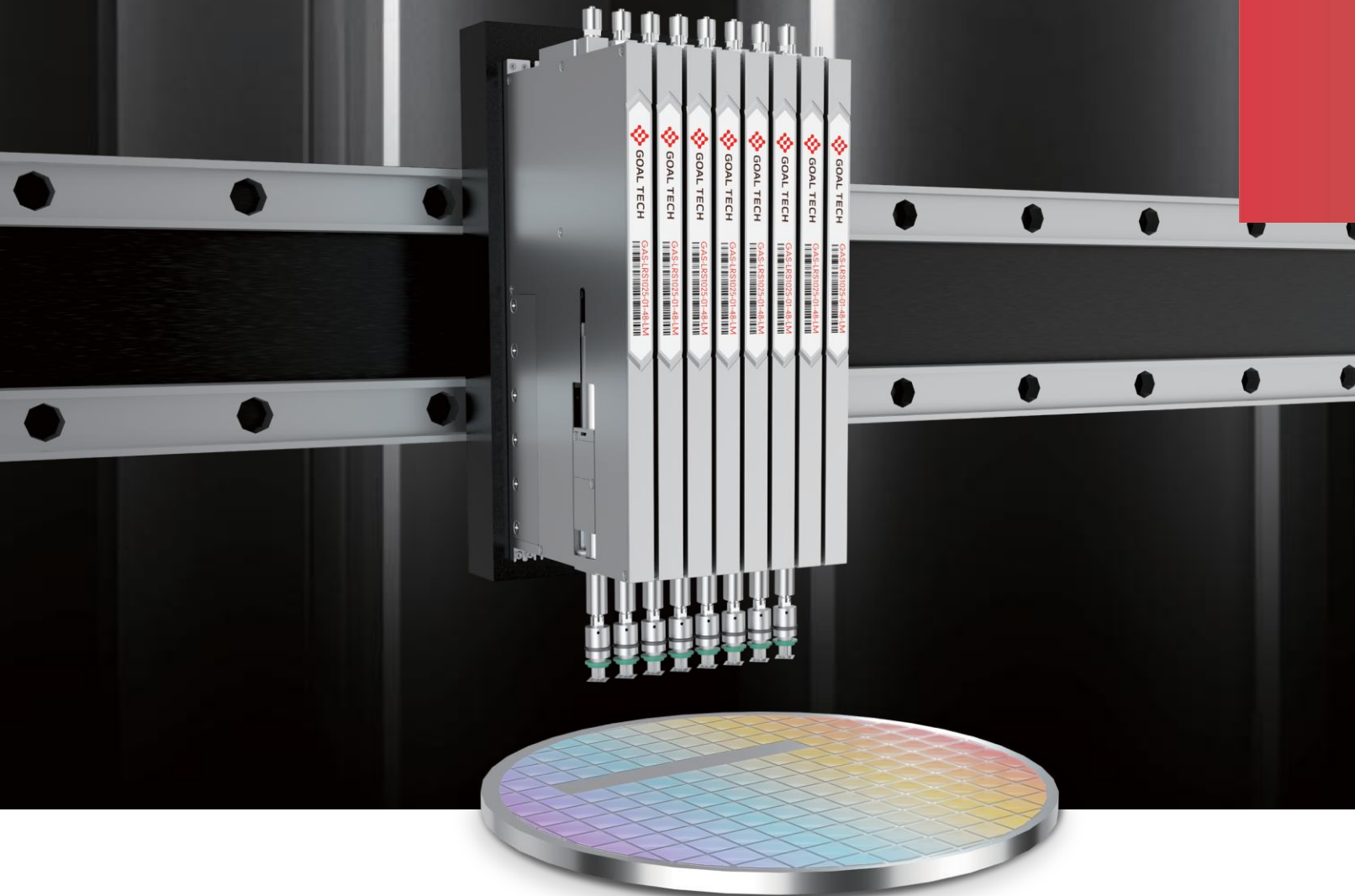


CONTROLLER



PLATFORM

Research And Development



PATENTS & PRIZES



» PARTIAL PATENTS



» PARTIAL HONORS



100 + Invention and Utility Model Patents
220 + Research Papers
70 % Proportion of R&D Personnel
50 % Proportion of R&D Investment

» World-class R&D team

GoalTech의 R&D 팀은 홍콩이공대학교 전력전자 연구센터 출신의 박사급 연구진을 중심으로, 화남이공대학교, 선전대학교, 광둥공업대학교의 교수진 및 박사 연구팀과 함께 구성되어 있습니다. 50명 이상의 전문 인력으로 구성된 R&D 팀은 석사 이상 학위 보유자가 전체의 50% 이상을 차지하고 있으며, 구조 설계, 전자기 해석, 공정 설계, 소프트웨어 설계 및 성능 테스트 등 모터 핵심 설계·개발 분야에서 풍부한 실무 경험을 보유하고 있습니다.



Maximum motion frequency
15 Hz (1 mm stroke)



Maximum rotational speed
6000 rpm



Warranty period
(1 year)

01 고정밀 Force Control | Soft-landing 기능 내장

Goal Tech의 Z축 구동 솔루션은 $\pm 1g(\pm 0.01N)$ 수준의 Force Control 성능과 내장형 Soft-Landing 기능을 제공합니다. 이를 통해 반도체 칩 표면, 미세 패턴층, 등 압력에 민감한 표면 접촉 시 접촉 속도와 가압력을 안정적으로 제어 가능합니다.

02 고정밀 위치 제어를 통한 생산 수율 향상

마이크론 단위의 위치 피드백을 통해 정밀한 데이터 취득이 가능하며, $\pm 2\mu m$ 선형 반복 위치 정밀도, $\pm 0.01^\circ$ 회전 반복 위치 정밀도, $\pm 1\mu m$ Radial Runout을 제공합니다. 고속 구동 환경에서도 정밀한 정렬이 가능하여 생산 수율과 신뢰성을 향상시킵니다.

03 다양한 어플리케이션에 대응 가능한 프로그램 제어

속도, 가속도 및 Force Control에 대한 프로그램 설정을 지원하여 다양한 어플리케이션 요구사항에 대응 가능합니다. 또한 중공형 Z축 구조와 진공 흡착용 에어 배관 포트를 사전에 확보한 설계를 적용하였으며, 부품 구조 및 특성에 따라 맞춤형 제작 서비스를 제공합니다.

04 컴팩트한 크기 및 경량 구조, Multi-Motor Configuration

"Z+R" 축 일체형 설계는 최소 두께 10mm, 중량 420g의 컴팩트하고 슬림한 구조를 갖추고 있습니다. 좁은 장비 내부에서도 여러 개의 모터를 나란히 설치 가능하여 왕복 이동 공정을 줄이고, 장비 생산 효율을 향상 시킬 수 있습니다.

05 SiC & TCB 공정용 다양한 히팅 솔루션

Goal Tech는 SiC 및 TCB 공정에 대응 가능한 다양한 히팅 솔루션을 제공합니다. 정밀한 온도 제어와 균일한 압력 제어를 통해 다양한 칩 부품의 접합 공정 요구사항을 충족하며, 공정 중 발생 할 수 있는 Tilt 및 Crack 리스크를 최소화 할 수 있습니다.

06 ZT Dual-Axis Precision Platform 기반 혁신 솔루션

Air-Flotation 구조를 적용하여 글로벌 최고 수준에 부합하는 나노미터급 정밀도를 구현합니다. 우수한 구동 특성과 회전 ZT Dual-Axis 모션을 지원하며, 고하중 대응 능력과 Low Profile Compact Design을 갖추고 있습니다.

Application Area



• 반도체 분야

- Die Bonding, Die Attach, Eutectic Bonding 장비
- 웨이퍼 연삭 장비, 웨이퍼 검사 장비, 웨이퍼 다이싱 및 Scribing 장비
- 수동 소자 고속 검사 및 선별 장비, 프로브 스테이션

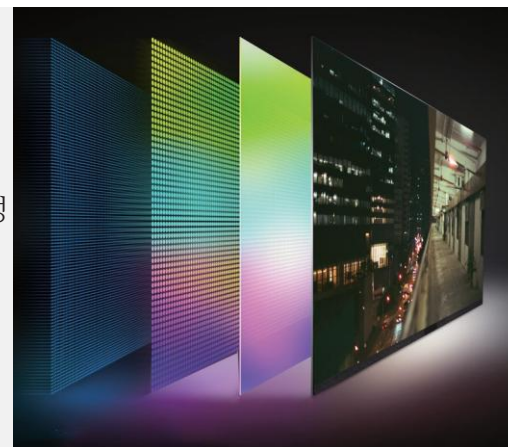


• 바이오 산업

- 의료용 소재 시험, 의약품 제조 및 포장
- 호흡 저항 검사 장비 등 의료용 테스트 장비
- 지능형 약물 주입 장치 및 협동 수술 로봇

• LED · 광전자 제조 분야

- Mini LED / Micro LED 실장, 검사 및 리페어 장비
- 정밀 광학 디바이스 검사 및 조립, 카메라 자동 초점 조정
- VR·AR 및 마이크로 프로젝터용 소형 광학 엔진 모듈
- 조립·검사 분야



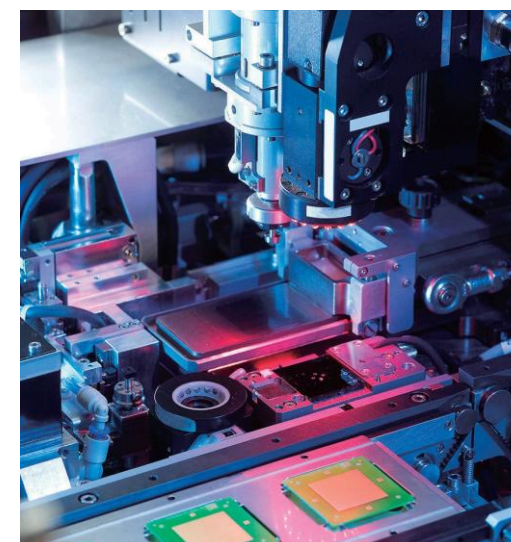
• 로봇 산업

- 로봇 스크린 터치 감도 검사
- 버튼/키 댄핑 성능의 에이징 및 테스트
- 휴머노이드 로봇 관절 및 협동로봇 고정밀 엔드 샤프트 적용



• 신에너지 산업

- PV 패널 유리 절단 및 태양광 모듈 조립
- 리튬 배터리 권취 및 적층 공정 관련 장비Rapid and
- 전해액의 고속·정밀 정량 토출 및 리튬 배터리 높이 측정
- 태양광 및 풍력 인버터 핵심 부품인 IGBT 모듈 패키징 장비

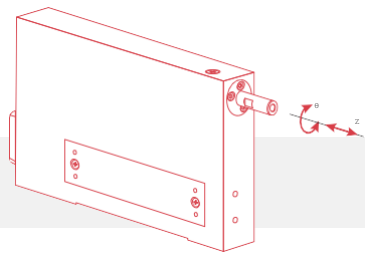


• 3C 전자제품 및 자동차 분야

- 휴대폰 렌즈, 마이크 등 정밀 부품의 검사 및 조립
- 스위치/버튼 수명 테스트, 스크린 터치 테스트 등 고속·유연 테스트
- 비표준 자동화 생산라인 내 포장, 도금, 이재 및 핸들링 공정
- PCB 조립을 포함한 다양한 SMT 실장 및 고속 이형 부품 삽입 공정

Application Case

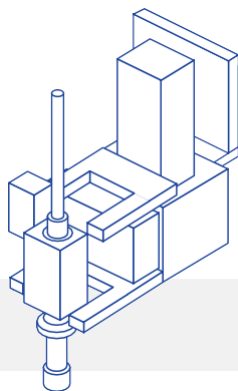
Automatic die bonder bonding head module



Linear Rotary Motor

	Linear Axis(Z)	Rotary Axis(R)	Force control(F)
Motion module	Integrated modular design		
Transmission mechanism	Linear guide rail	Coupling + precision bearings	No mechanical structure
Feedback device	Linear grating	Absolute encoder	—
Repeatability	±2μm	±0.01°	±2g

VS

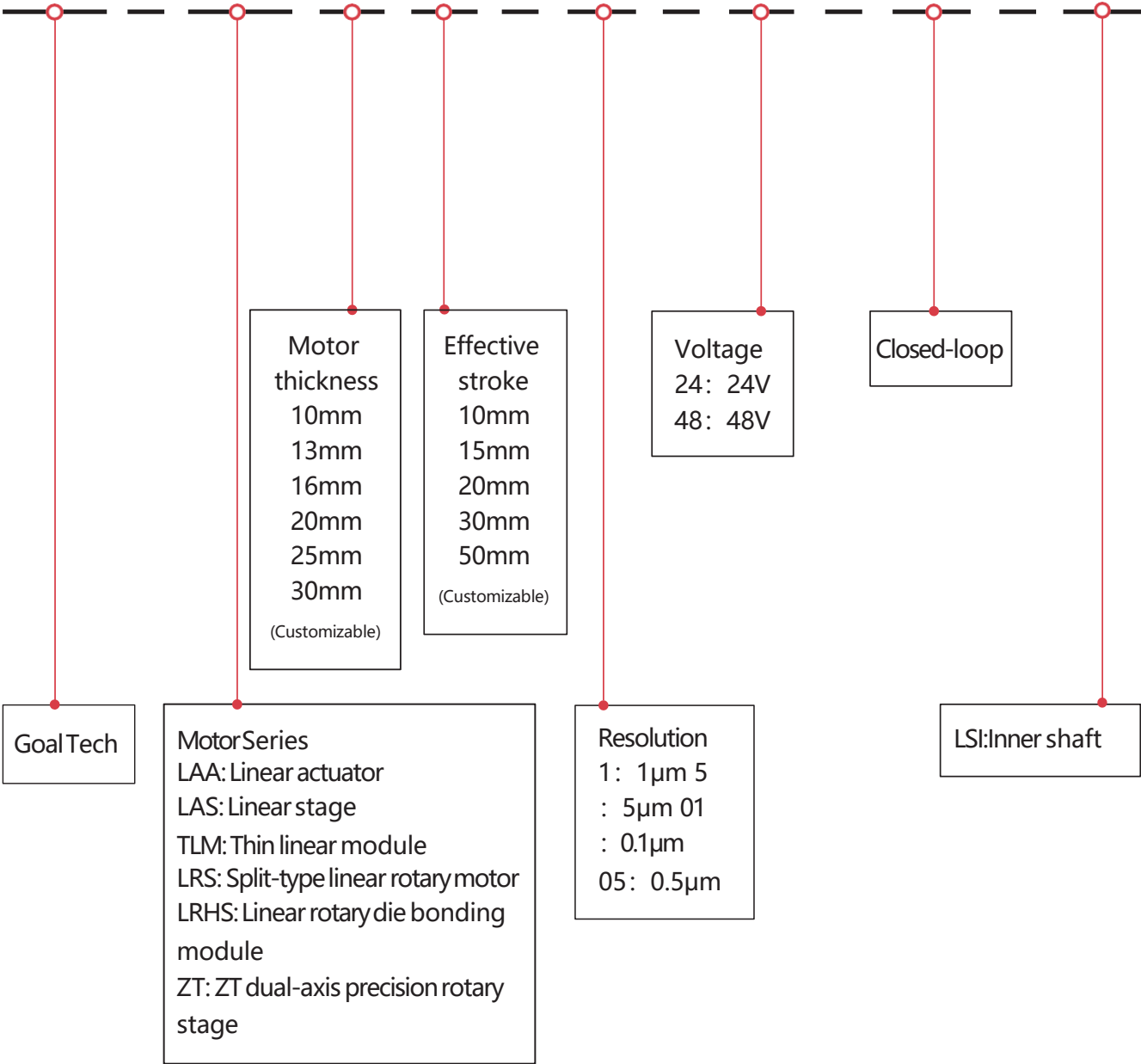


Modular pick-and-place bonding head

	Linear Axis(Z)	Rotary Axis(R)	Force control(F)
Motion module	Linear Motor	Servo motor / stepper motor	Voice coil motor (VCM)
Transmission mechanism	Linear guide rail	Gear or belt	Slider
Feedback device	Linear grating	—	—
Repeatability	±10μm	±0.5°	±10g

Model Name

GAS - LRS 10 25 - 01 - 48 - CL - LSI



Motor Series

Linear Rotary Motor(LRS Series)

Motor model	Thickness(mm)	Linear Axis(Z)		Rotary Axis(R)	Pages
		Effective Stroke (mm)	Rated Thrust (N)	Rated Torque (mN·m)	
GAS-LRS1025-01-48	10	25	5.4	1.3	P13
GAS-LRS1325-01-48	13	25	6.15	23	P15
GAS-LRS1635-01-48	16	35	11.99	23	P17
GAS-LRS1635-01-48-LSI	16	35	12.39	23	P19
GAS-LRS1640-01-48	16	40	12	23	P21
GAS-LRS1650-01-48	16	50	11.31	28	P23
GAS-LRS1655-01-48	16	55	12.8	23	P25
GAS-LRS2015-01-48	20	15	5.96	23	P27
GAS-LRS2025-01-48	20	25	8.83	23	P29
GAS-LRS2040-01-48-CL	20	40	11.3	23	P31
GAS-LRS2715-01-48-CL	27	15	16.67	23	P33
GAS-LRS3050-01-48	30	50	44.5	95	P35
GAS-LRS3535-01-48	35	35	13.45	95	P37
GAS-LRS3535-01-48-LSI	35	35	17.34	95	P39
GAS-LRS3550-01-48	35	50	12.7	64	P41

Linear Rotary Bond Head(LRHS Series)

Motor model	Maximum temperature(°C)	Linear Axis(Z)		Rotary Axis(R)	Pages
		Effective Stroke (mm)	Rated Thrust (N)	Rated Torque (mN·m)	
GAS-LRHS5040-500	450	40	209	95	P43
GAS-LRHS5040-100	400	40	144	95	P45
GAS-LRHS9440-01-48	400	40	48	25	P47

Motor Series 02

Linear Motor(LAA Series)

Motor model	Thickness(mm)	Linear Axis(Z)		Pages
		Effective Stroke (mm)	Rated Thrust (N)	
GAS-LAA1325-01-48	13	25	4.7	P49
GAS-LAA1515-01-48	15	15	3.8	P51
GAS-LAA1635-01-48	16	35	12.38	P53
GAS-LAA1640-01-48	16	40	12.35	P55
GAS-LAA1640-01-48-LSI	16	40	10.68	P57
GAS-LAA2510-1-48	25	10	7.89	P59
GAS-LAA4510-1-48	45	10	14.49	P61
GAS-LAA5520-01-48	55	20	71.6	P63

ZT DUAL-AXIS PRECISION PLATFORM(ZT Series)

Motor model	Tilt Error(urad)	Linear Axis(Z)		Rotary Axis(R)	Pages
		Positioning Accuracy(μm)	Continuous Thrust(N)	Positioning Accuracy arcsec	
GAS-ZT-10-120	±5.6	±0.15	60	±2.65	P65

Linear Rotary Motor

GAS-LRS1025-01-48



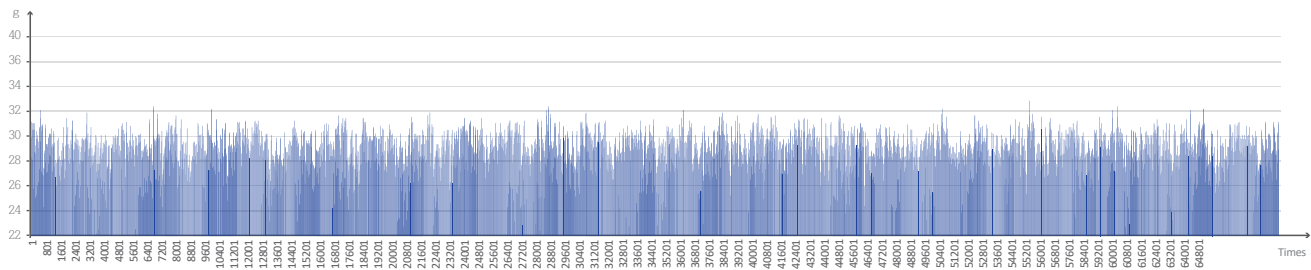
TECHNICAL PARAMETERS

Model		Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LRS1025-01-48		48	190X108X10	420	Pulse / EtherCAT
Linear Axis(Z)				Rotary Axis(R)	
Effective Stroke	25(mm)	Speed	500(mm/s)	Accuracy	±0.01(°)
Peak Thrust	16(N)	Acceleration	3(G)	Peak Torque	9.5(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	1.3(mN·m)
Force Constant	4.2(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	3.4(fi)	Linear Straightness	±3(μm)	Encoder(Bit)	4096线ABZ
Maximum Current	4.2(Amp)	Inductance	0.12(mH)	Rated Speed	1500(RPM)
Continuous Current	1.2(Amp)	-	-	Max RPM	1800(RPM)

FORCE CONTROL

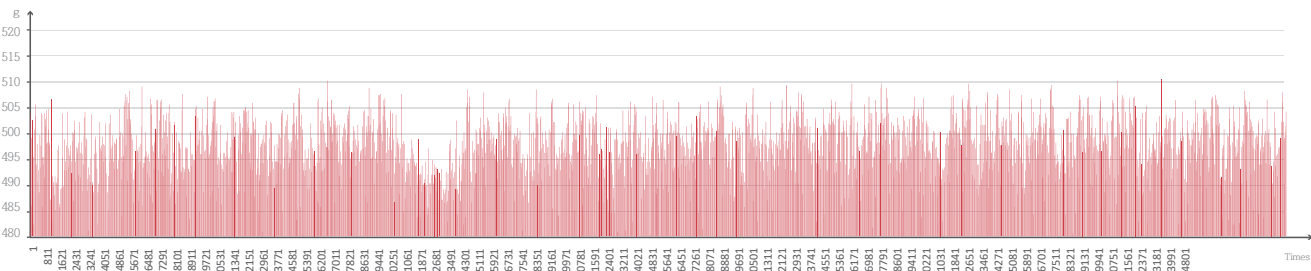
30g Force Control : 30g+3g-4g

Speed : 2mm/s , Stroke : 24mm
Cycle Time : 476ms (Compress Time : 200ms)

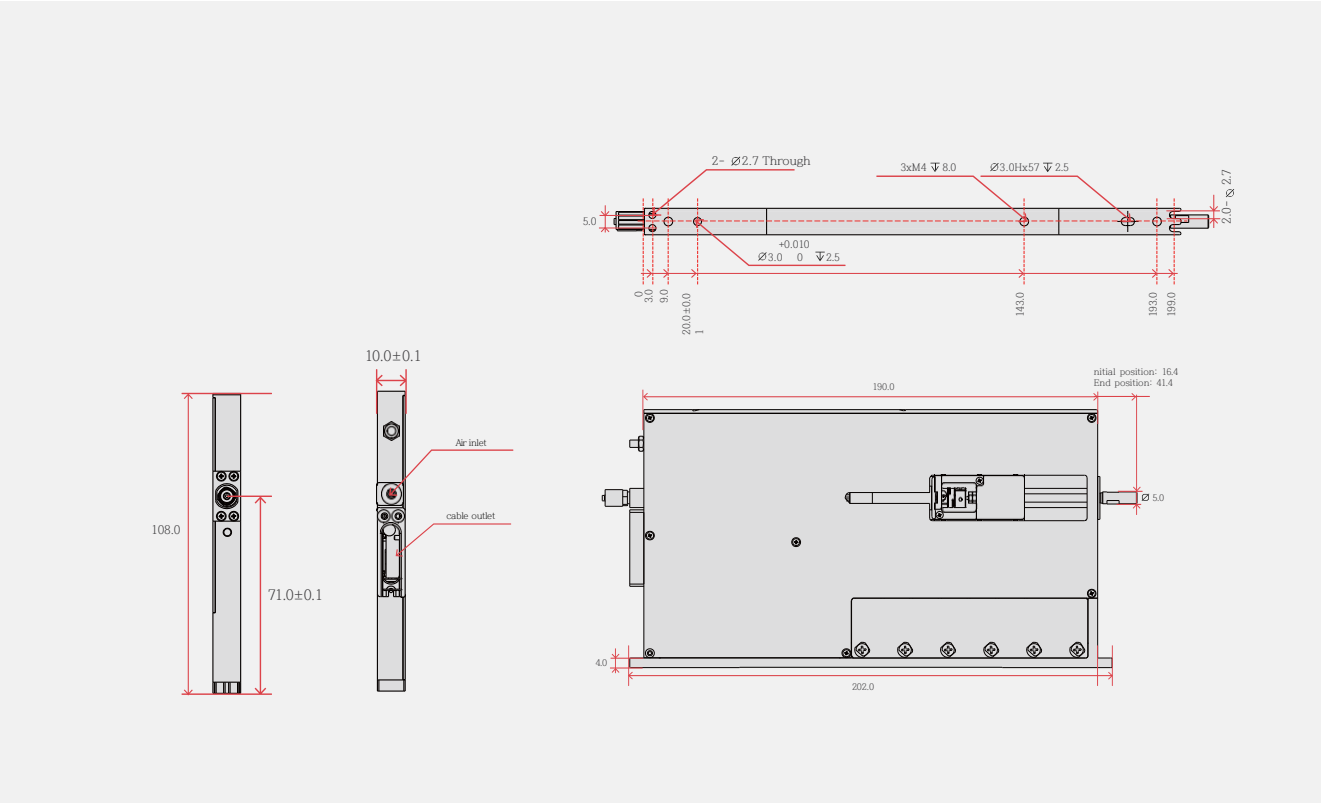


500g Force Control : 500g+10g-13g

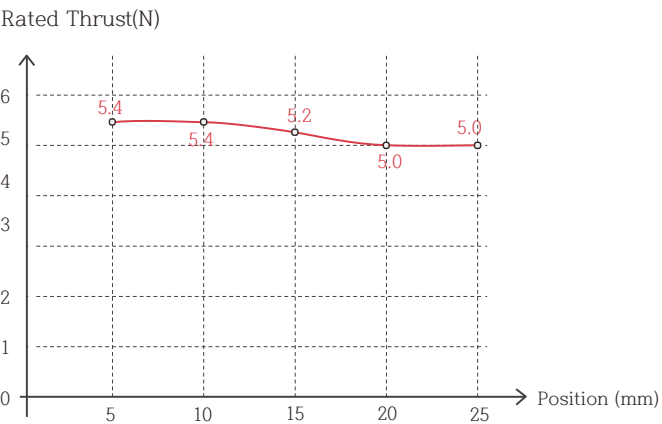
Speed : 2mm/s , Stroke : 24mm
Cycle Time : 592ms (Compress Time : 200ms)



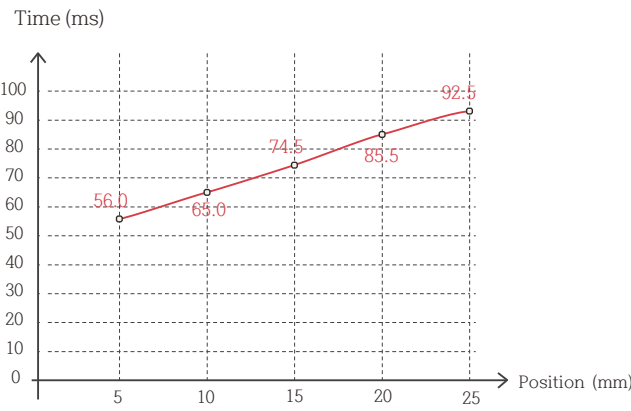
2D DIMENSION DRAWING



GAS-LRS1025-01-48 정격 추력



GAS-LRS1025-01-48 Full-axis 구동 시간
(Speed : 500mm/s Acceleration : 3G)



Linear Rotary Motor

GAS-LRS1325-01-48



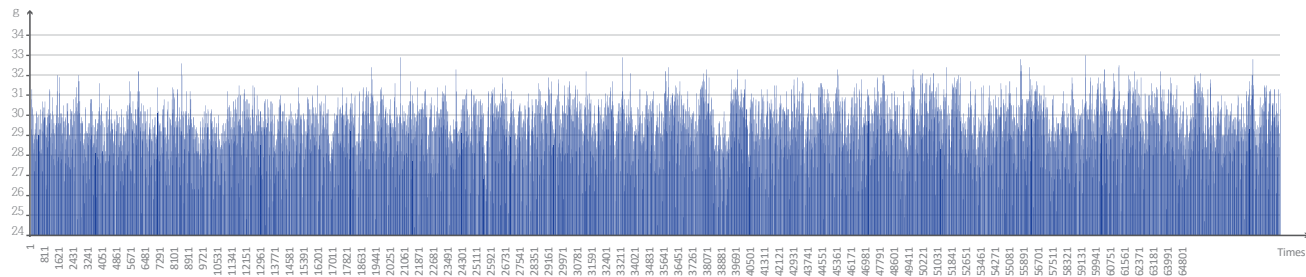
TECHNICAL PARAMETERS

Model		Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LRS1325-01-48		48	176X89X14.6	530	Pulse / EtherCAT
Linear Axis(Z)				Rotary Axis(R)	
Effective Stroke	25(mm)	Speed	800(mm/s)	Accuracy	±0.01(°)
Peak Thrust	15(N)	Acceleration	8(G)	Peak Torque	60(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	23(mN·m)
Force Constant	2.2(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	3.3(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	4.2(Amp)	Inductance	0.12(mH)	Rated Speed	1000(RPM)
Continuous Current	1.3(Amp)	-	-	Max RPM	1500(RPM)

FORCE CONTROL

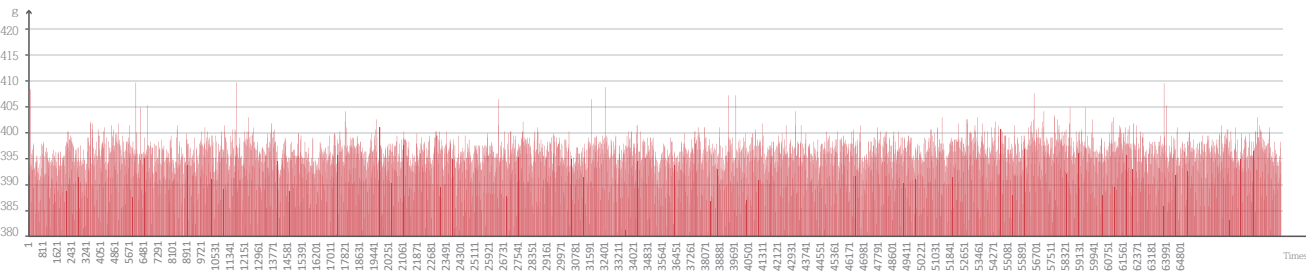
30g Force Control : 30g±3g

Speed : 2mm/s , Stroke : 23mm
Cycle Time : 530ms (Compress Time : 200ms)

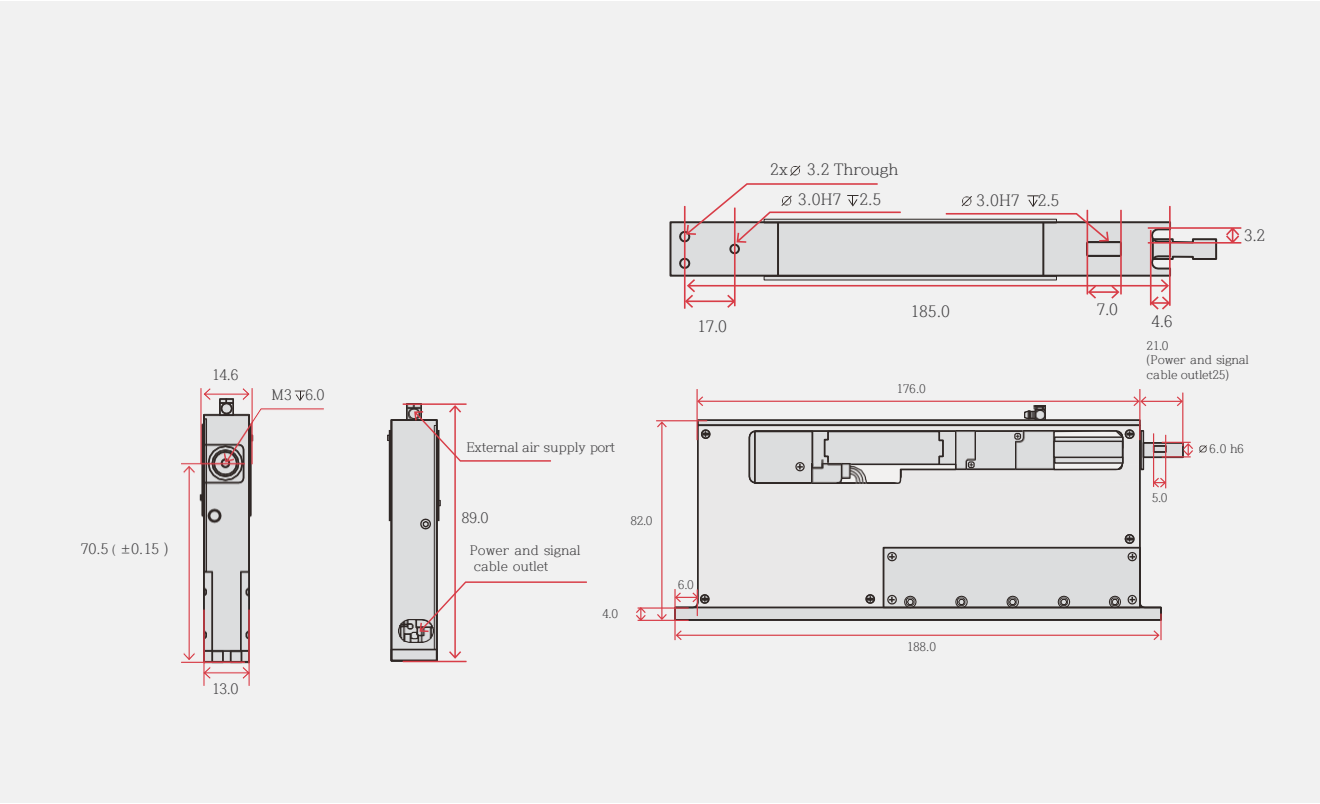


400g Force Control : 400g±10g

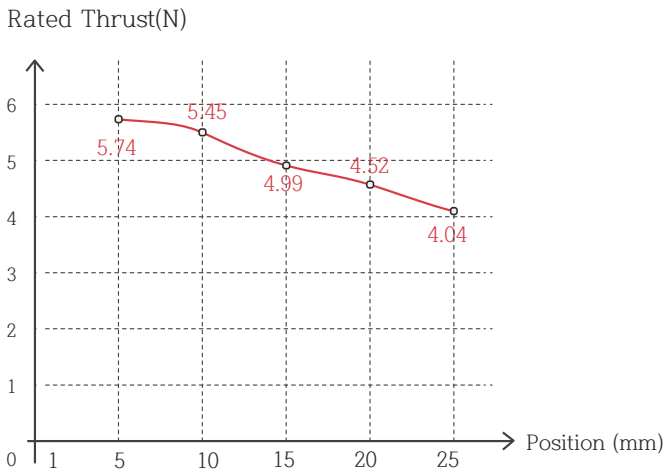
Speed : 2mm/s , Stroke : 23mm
Cycle Time : 576ms (Compress Time : 200ms)



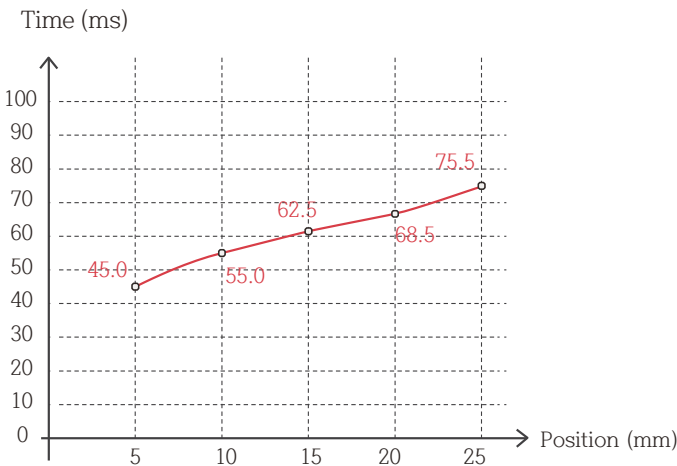
2D DIMENSION DRAWING



GAS-LRS1325-01-48 정격 추력



GAS-LRS1325-01-48 Full-axis 구동 시간
(Speed : 800mm/s Acceleration : 8G)



Linear Rotary Motor

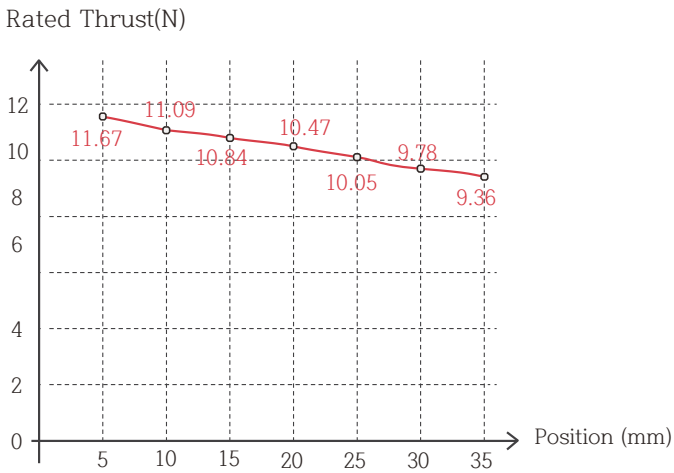
GAS-LRS1635-01-48



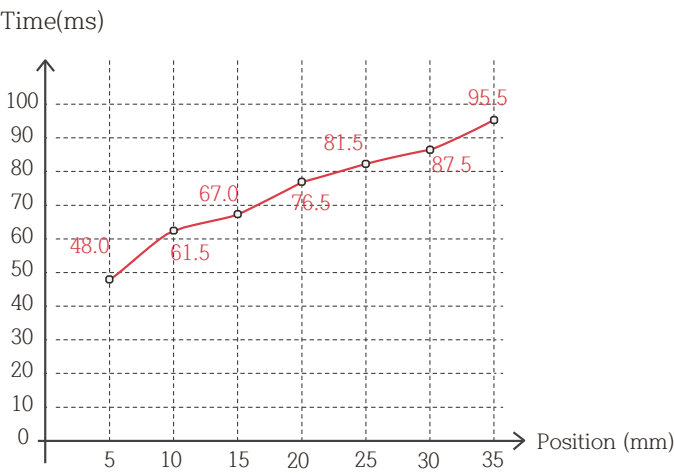
TECHNICAL PARAMETERS

Model		Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LRS1635-01-48		48	198X102X16	760	Pulse / EtherCAT
Linear Axis(Z)				Rotary Axis(R)	
Effective Stroke	35(mm)	Speed	800(mm/s)	Accuracy	±0.01(°)
Peak Thrust	28(N)	Acceleration	8(G)	Peak Torque	60(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	23(mN·m)
Force Constant	7.0(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	6.0(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	3.6(Amp)	Inductance	0.8(mH)	Rated Speed	1000(RPM)
Continuous Current	1.3(Amp)	-	-	Max RPM	1500(RPM)

GAS-LRS1635-01-48 정격 추력



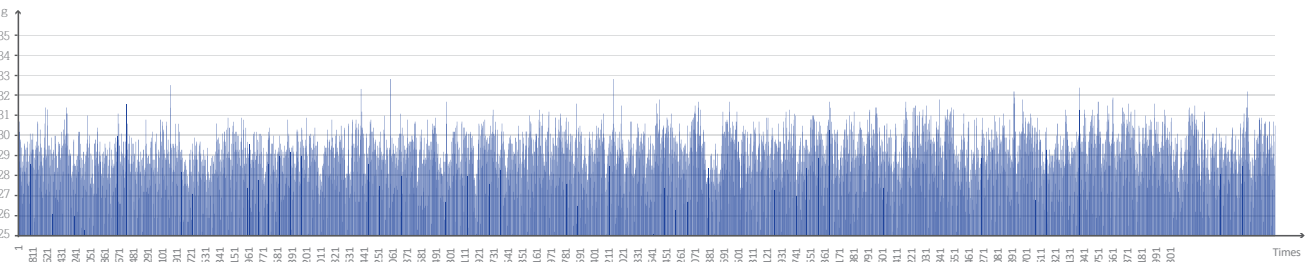
GAS-LRS1635-01-48 Full-axis 구동 시간
(Speed : 800mm/s Acceleration : 8G)



FORCE CONTROL

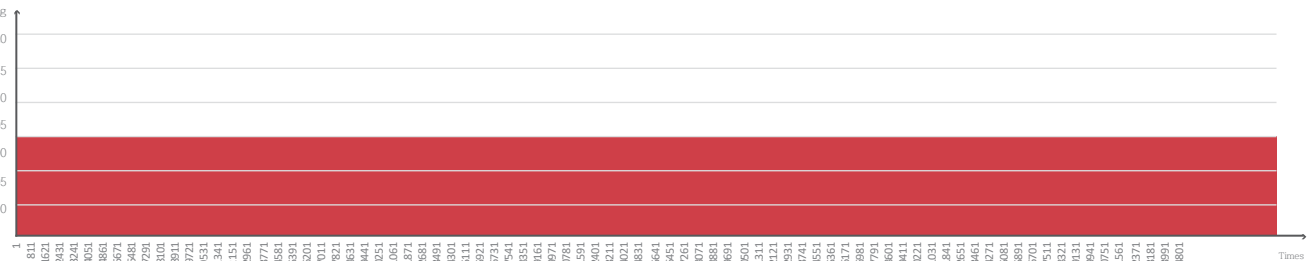
30g Force Control : 30g±3g

Speed : 2mm/s , Stroke : 33mm
Cycle Time : 580ms (Compress Time : 200ms)

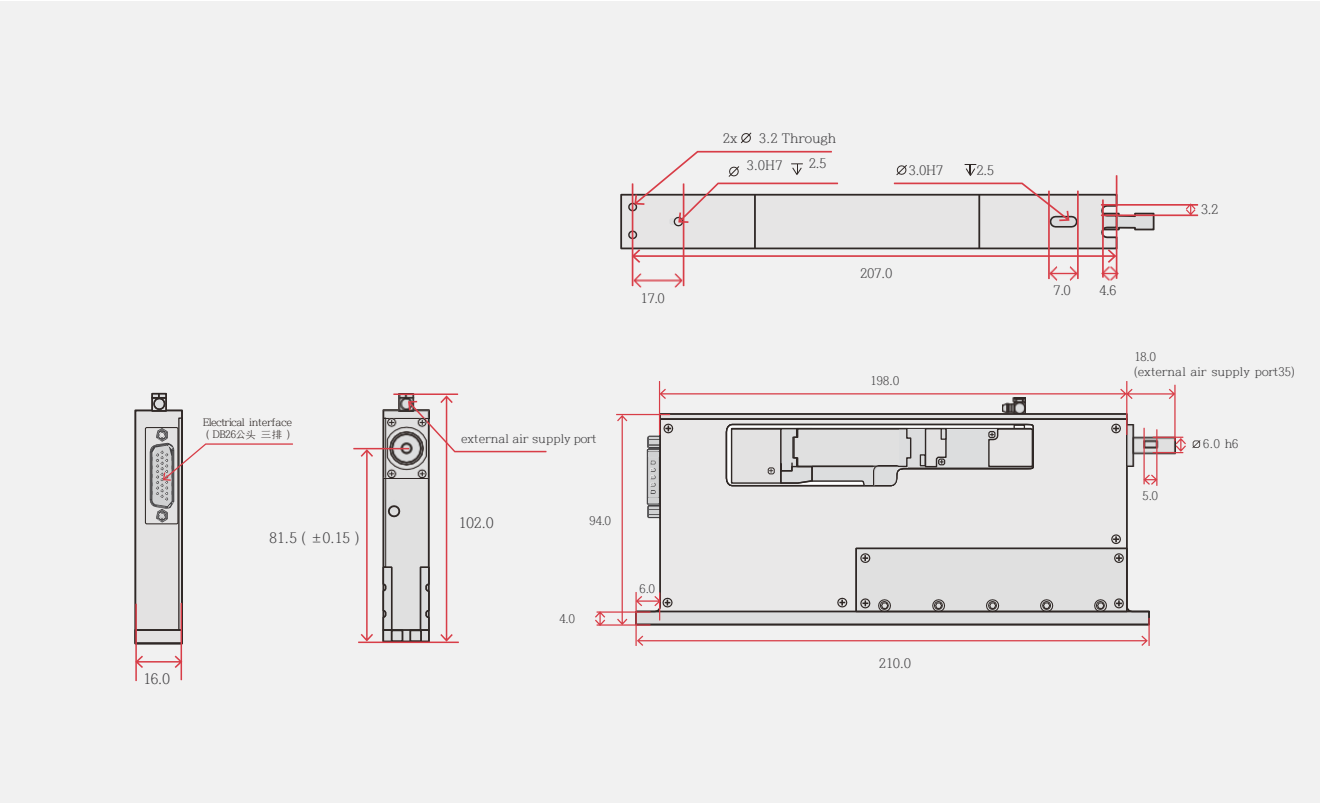


800g Force Control : 800g±10g

Speed : 2mm/s , Stroke : 33mm
Cycle Time : 744ms (Compress Time : 200ms)



2D DIMENSION DRAWING



Linear Rotary Motor

GAS-LRSI635-0I-48-LSI



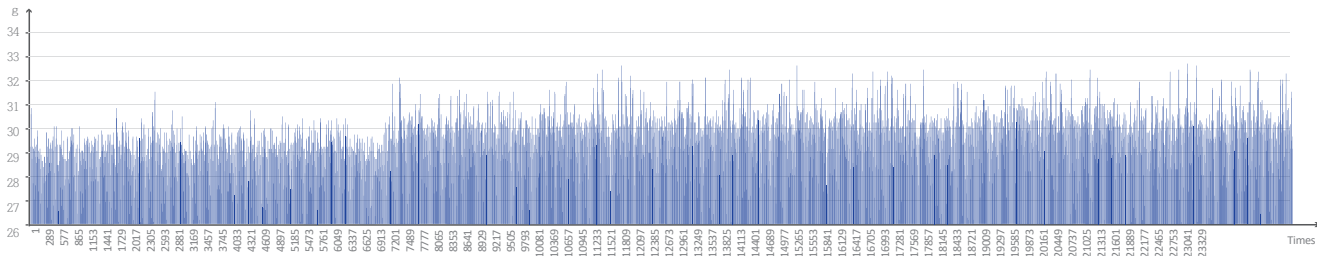
TECHNICAL PARAMETERS

Model		Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LRS1635-01-48-LSI		48	212X99X16	742	Pulse / EtherCAT
Linear Axis(Z)				Rotary Axis(R)	
Effective Stroke	35(mm)	Speed	800(mm/s)	Accuracy	±0.01(°)
Peak Thrust	28(N)	Acceleration	8(G)	Peak Torque	60(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	23(mN·m)
Force Constant	7.4(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	6.5(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	3.6(Amp)	Inductance	0.8(mH)	Rated Speed	1000(RPM)
Continuous Current	1.3(Amp)	-	-	Max RPM	1500(RPM)

FORCE CONTROL

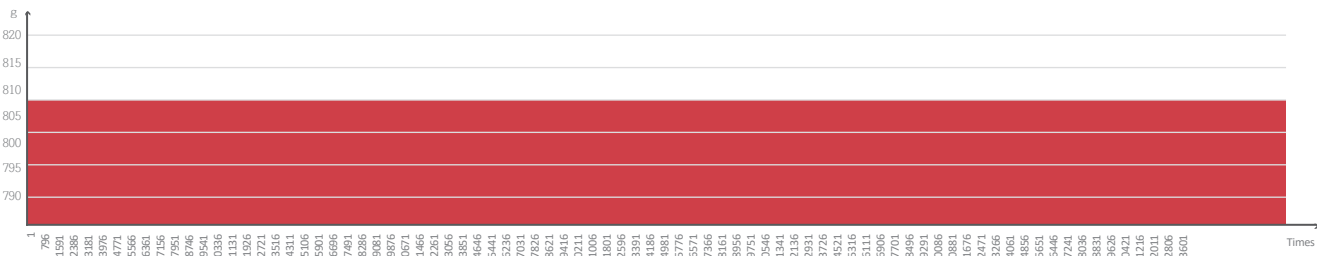
30g Force Control : 30g±3g

Speed : 2mm/s , Stroke : 33mm
Cycle Time : 591ms (Compress Time : 200ms)

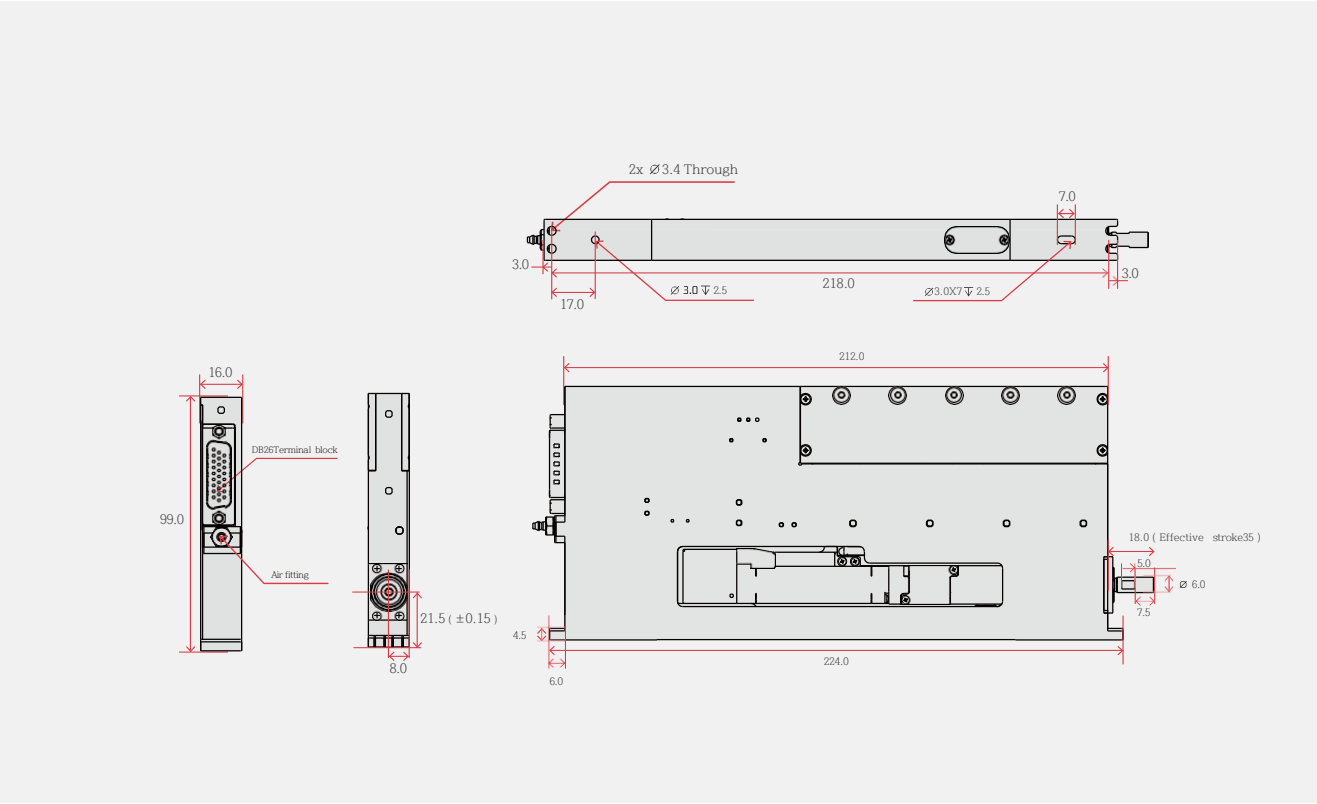


800g Force Control : 800g±10g

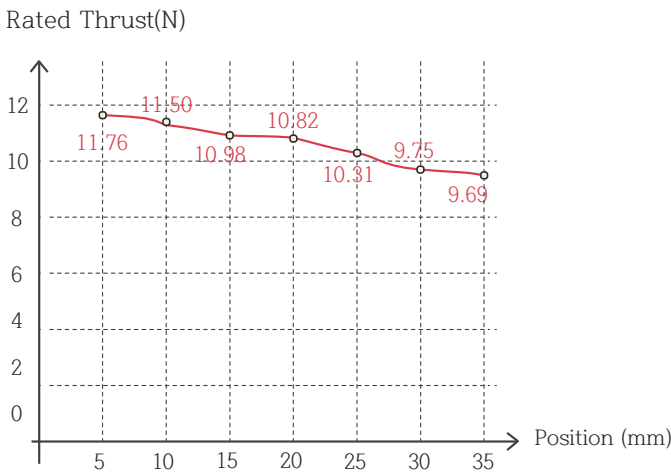
Speed : 2mm/s , Stroke : 33mm
Cycle Time : 744ms (Compress Time : 200ms)



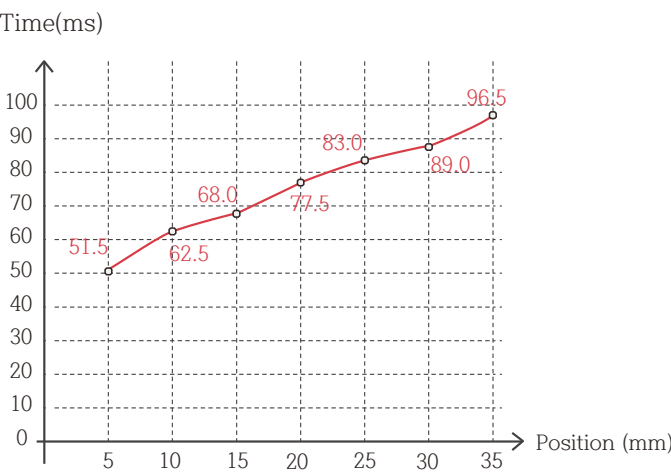
2D DIMENSION DRAWING



GAS-LRS1635-01-48-LSI 정격 추력



GAS-LRS1635-01-48-LSI Full-axis 구동 시간
(Speed : 800mm/s Acceleration : 8G)



Linear Rotary Motor

GAS-LRS1640-01-48

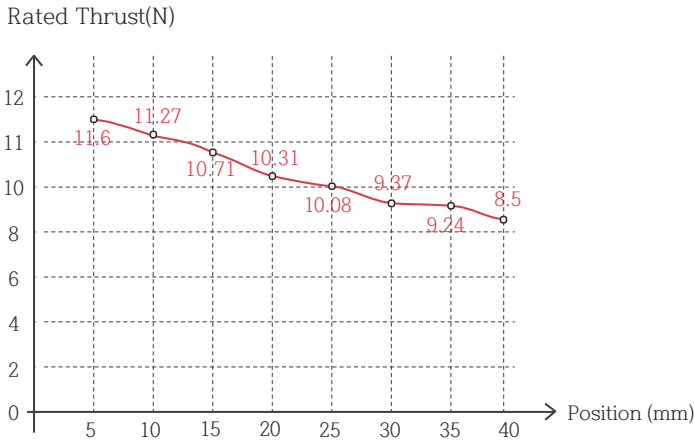


TECHNICAL PARAMETERS

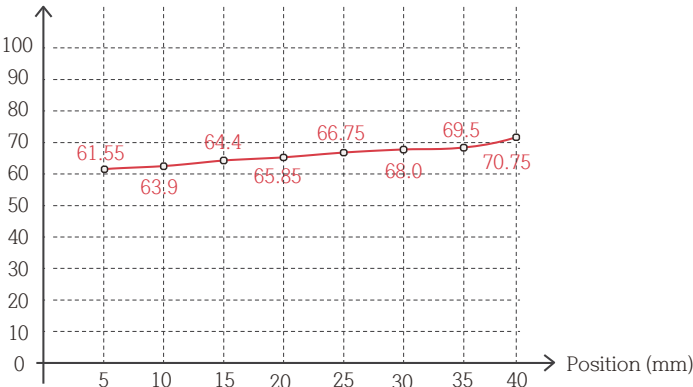
Model	Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LRS1640-01-48	48	208X99X16	800	Pulse / EtherCAT

Linear Axis(Z)				Rotary Axis(R)	
Effective Stroke	40(mm)	Speed	800(mm/s)	Accuracy	±0.01(°)
Peak Thrust	31(N)	Acceleration	8(G)	Peak Torque	60(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	23(mN·m)
Force Constant	7.0(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	6.5(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	3.6(Amp)	Inductance	0.8(mH)	Rated Speed	1000(RPM)
Continuous Current	1.3(Amp)	-	-	Max RPM	1500(RPM)

GAS-LRS1640-01-48 48 정격 추력



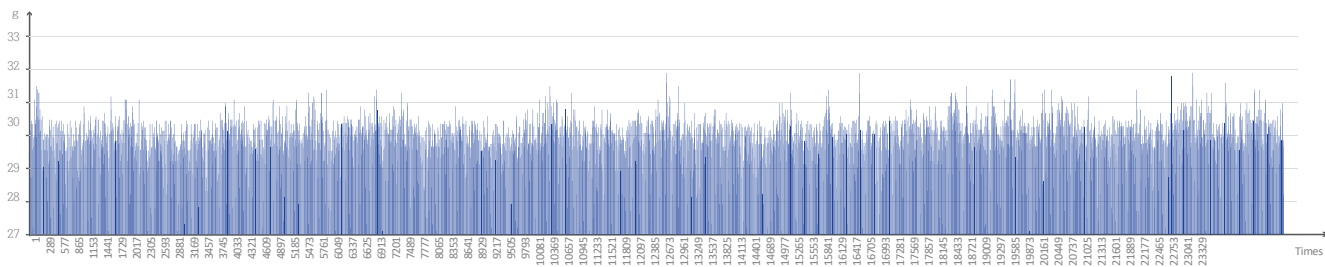
GAS-LRS1640-01-48 Full-axis 구동 시간
(Speed : 500mm/s Acceleration : 3G)



FORCE CONTROL

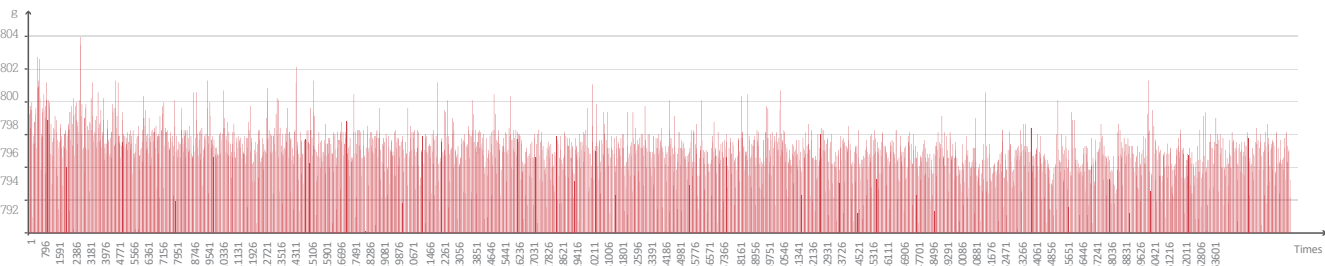
30g Force Control : 30g±2g

Speed : 2mm/s , Stroke : 39mm
Cycle Time : 878ms (Compress Time : 200ms)

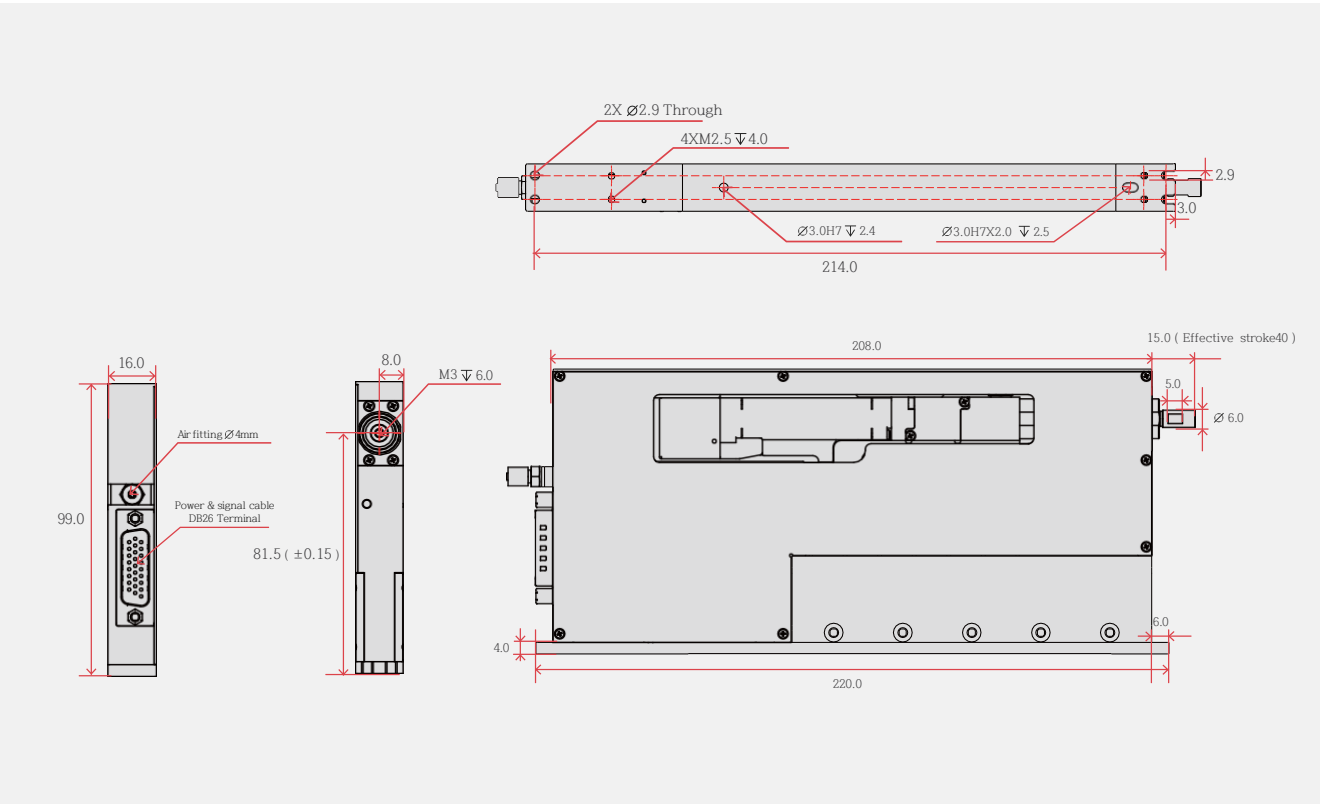


800g Force Control : 800g+4g-5g

Speed : 2mm/s , Stroke : 39mm
Cycle Time : 1103ms (Compress Time : 200ms)



2D DIMENSION DRAWING



Linear Rotary Motor

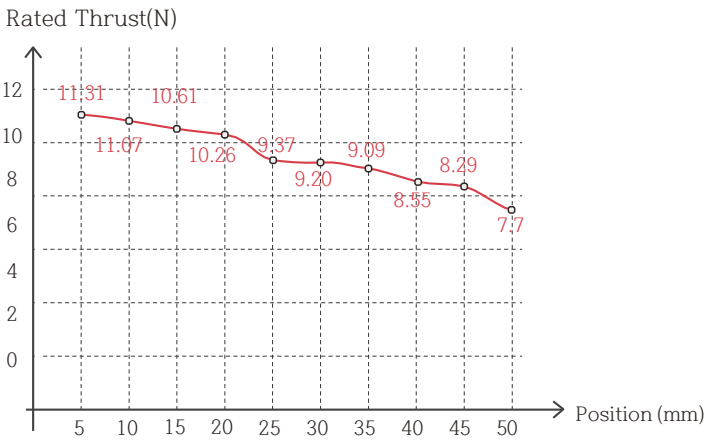
GAS-LRS1650-01-48



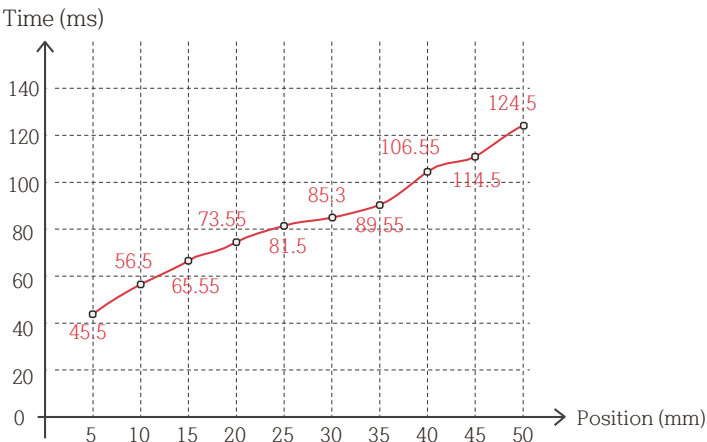
TECHNICAL PARAMETERS

Model		Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LRS1650-01-48		48	210X90X16	705	Pulse / EtherCAT
Linear Axis(Z)				Rotary Axis(R)	
Effective Stroke	50(mm)	Speed	600(mm/s)	Accuracy	±0.01(°)
Peak Thrust	30(N)	Acceleration	7(G)	Peak Torque	67(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	28(mN·m)
Force Constant	6.69(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	6.5(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	6.15(Amp)	Inductance	0.8(mH)	Rated Speed	1000(RPM)
Continuous Current	1.4(Amp)	-	-	Max RPM	1500(RPM)

GAS-LRS1650-01-48 정격 추력



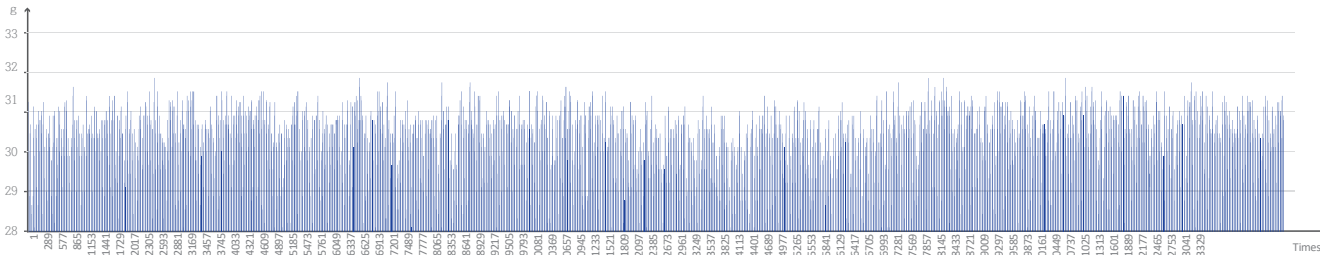
GAS-LRS1650-01-48 Full-axis 구동 시간
(Speed : 600mm/s Acceleration : 7G)



FORCE CONTROL

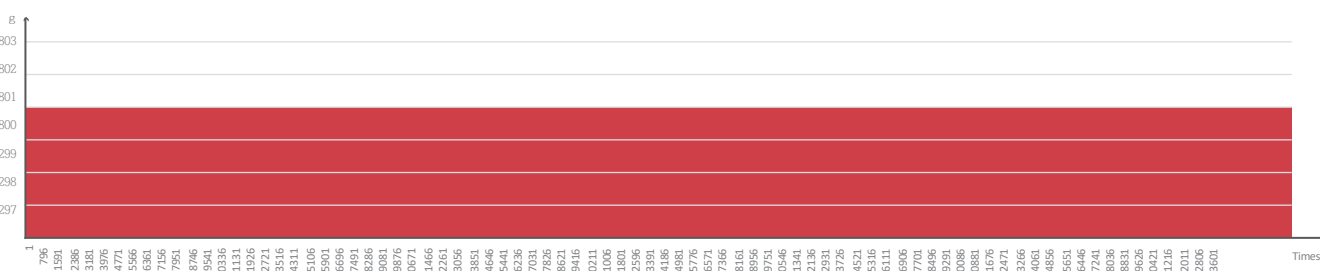
30g Force Control : 30g±2g

Speed : 2mm/s , Stroke : 48.9mm
Cycle Time : 546ms (Compress Time : 200ms)

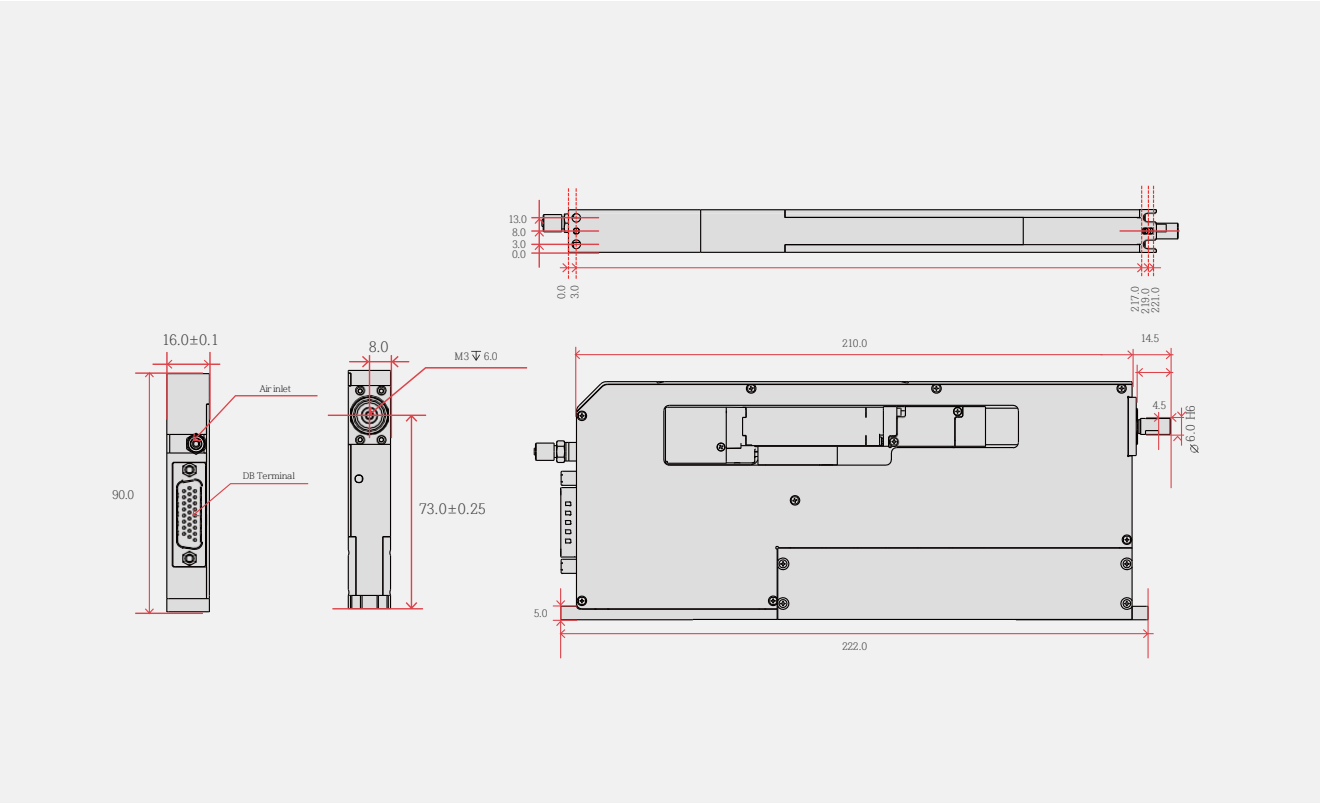


800g Force Control : 800g+2g-3g

Speed : 2mm/s , Stroke : 48.9mm
Cycle Time : 877ms (Compress Time : 200ms)



2D DIMENSION DRAWING



Linear Rotary Motor

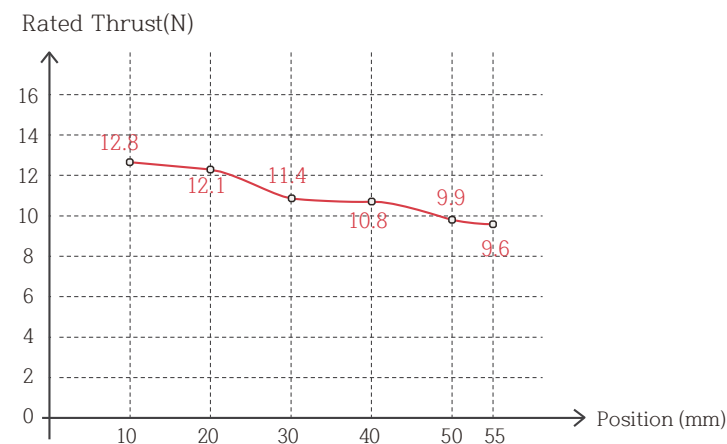
GAS-LRS1655-01-48



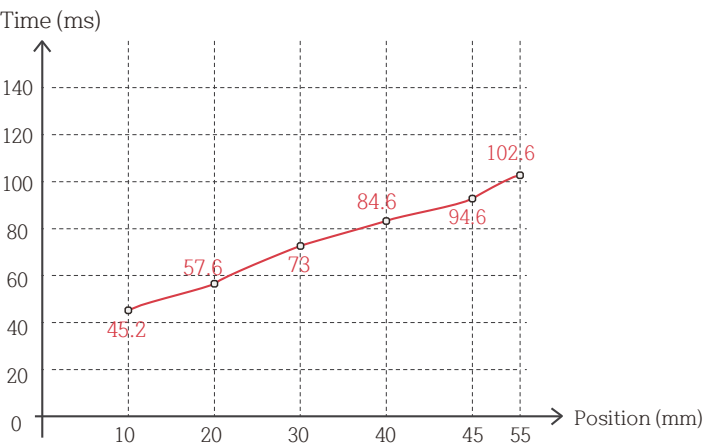
TECHNICAL PARAMETERS

Model		Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LRS1655-01-48		48	220X90X16	728	Pulse / EtherCAT
Linear Axis(Z)				Rotary Axis(R)	
Effective Stroke	55(mm)	Speed	800(mm/s)	Accuracy	±0.01(°)
Peak Thrust	30(N)	Acceleration	8(G)	Peak Torque	60(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	23(mN·m)
Force Constant	6.8(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	6.1(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	3.6(Amp)	Inductance	0.82(mH)	Rated Speed	1000(RPM)
Continuous Current	1.4(Amp)	-	-	Max RPM	1500(RPM)

GAS-LRS1655-01-48 정격 추력



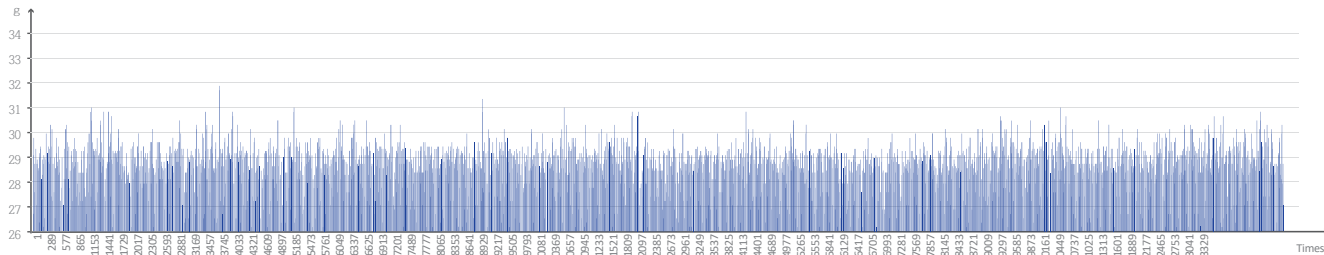
GAS-LRS1655-01-48 Full-axis 구동 시간
(Speed : 800mm/s Acceleration : 8G)



FORCE CONTROL

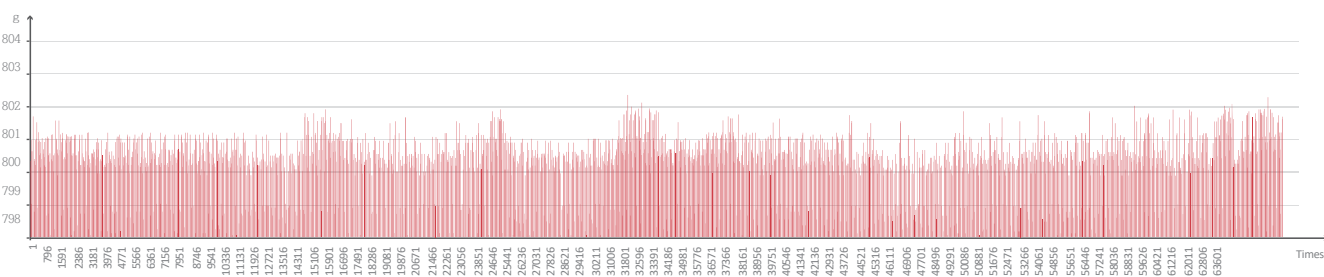
30g Force Control : 30g+2g-3g

Speed : 2mm/s , Stroke : 53.5mm
Cycle Time : 606ms (Compress Time : 200ms)

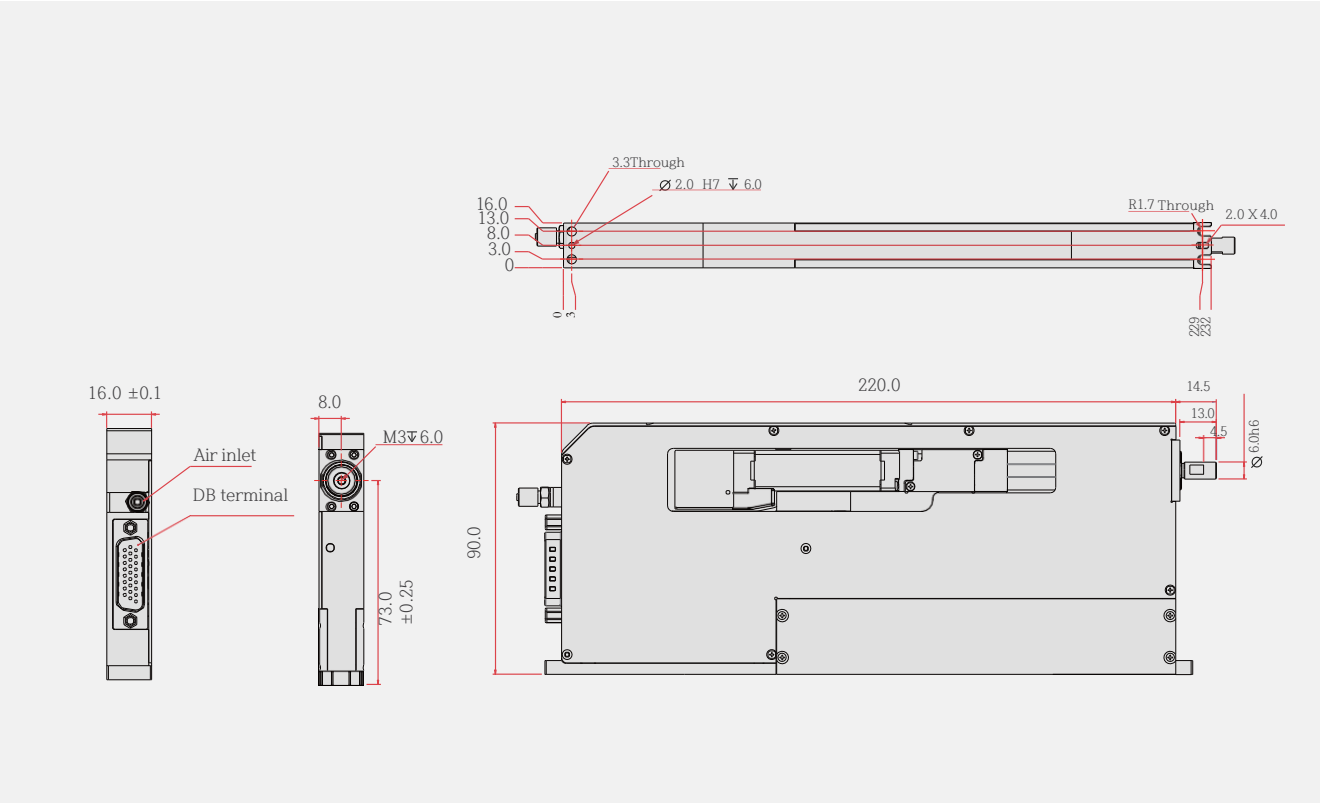


800g Force Control : 800g+3g-2g

Speed : 2mm/s , Stroke : 53.5mm
Cycle Time : 745ms (Compress Time : 200ms)



2D DIMENSION DRAWING



Linear Rotary Motor

GAS-LRS2015-01-48



TECHNICAL PARAMETERS

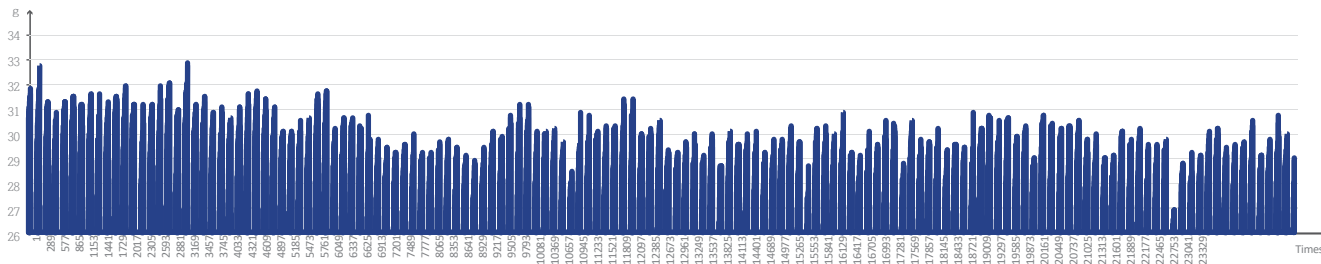
Model		Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LRS2015-01-48		48	200X90X20	887	Pulse / EtherCAT
Linear Axis(Z)				Rotary Axis(R)	
Effective Stroke	15(mm)	Speed	800(mm/s)	Accuracy	±0.01(°)
Peak Thrust	11(N)	Acceleration	6(G)	Peak Torque	60(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	23(mN·m)
Force Constant	7.0(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	29.8(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	1.5(Amp)	Inductance	5(mH)	Rated Speed	1000(RPM)
Continuous Current	0.8(Amp)	-	-	Max RPM	1500(RPM)

FORCE CONTROL

Speed : 2mm/s , Stroke : 13mm

30g Force Control : 30g±3g

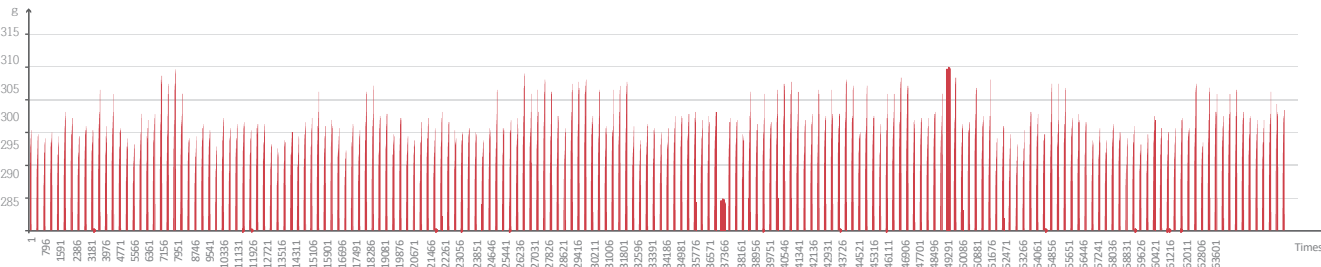
Cycle Time : 548ms (Compress Time : 200ms)



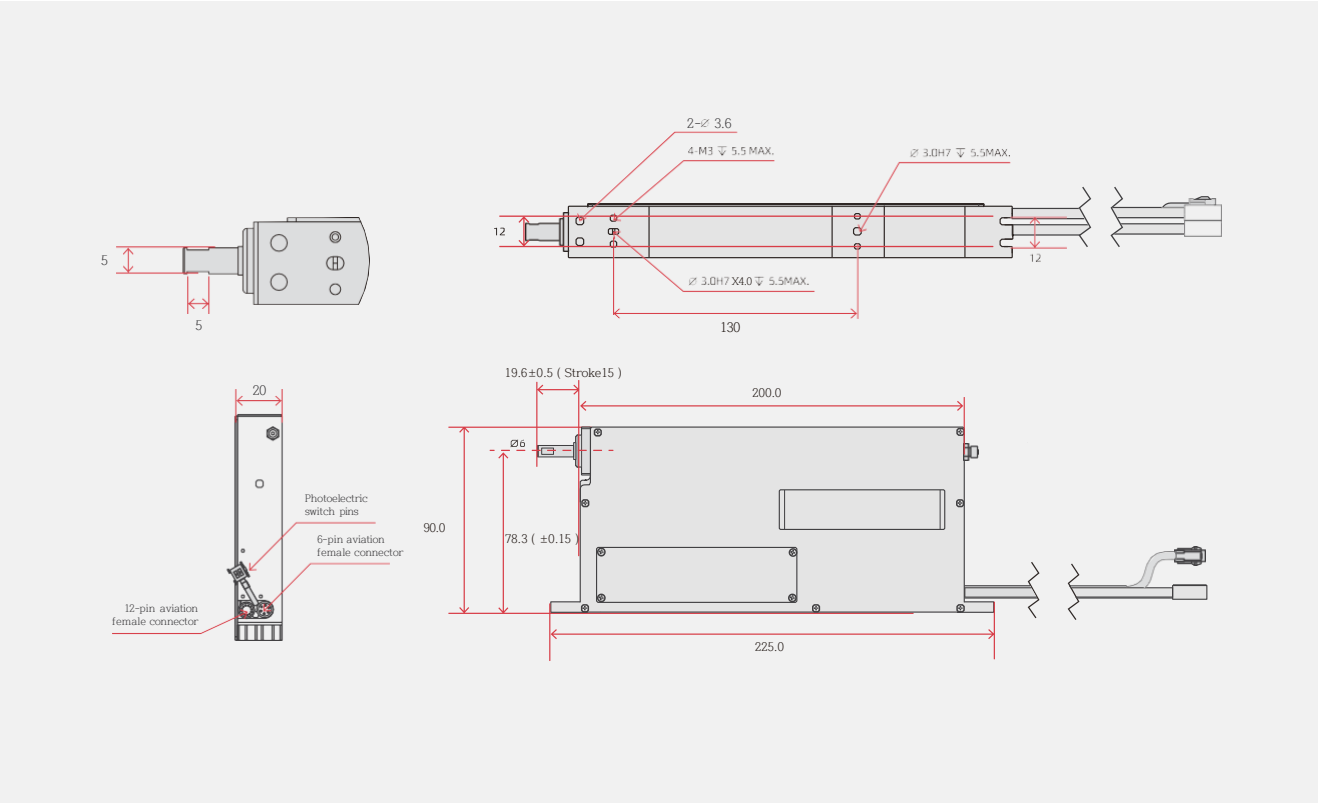
Speed : 2mm/s , Stroke : 13mm

300g Force Control : 300g±10g

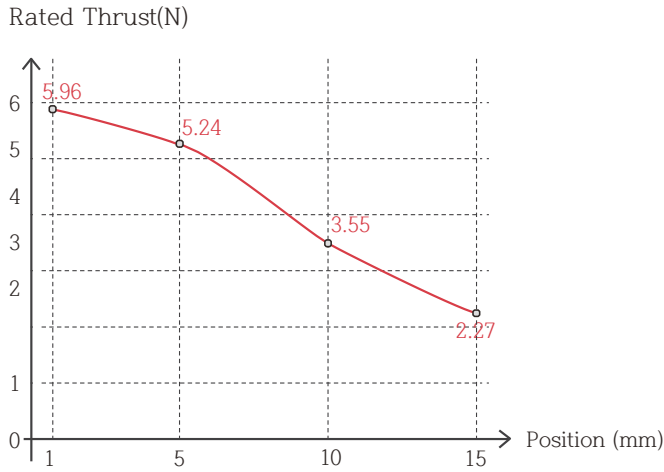
Cycle Time : 530ms (Compress Time : 200ms)



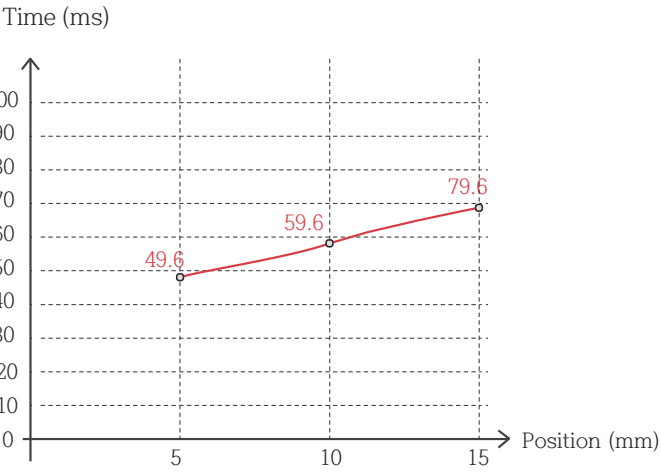
2D DIMENSION DRAWING



GAS-LRS2015-01-48 정격 추력



GAS-LRS2015-01-48 Full-axis 구동 시간
(Speed : 800mm/s Acceleration : 6G)



Linear Rotary Motor

GAS-LRS2025-01-48



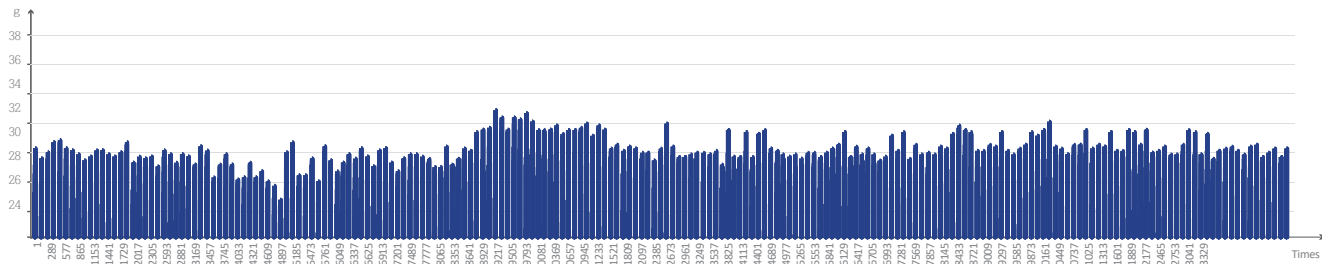
TECHNICAL PARAMETERS

Model		Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LRS2025-01-48		48	180X95X20	920	Pulse / EtherCAT
Linear Axis(Z)				Rotary Axis(R)	
Effective Stroke	25(mm)	Speed	500(mm/s)	Accuracy	±0.01(°)
Peak Thrust	10(N)	Acceleration	3(G)	Peak Torque	60(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	23(mN·m)
Force Constant	6.6(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	16.4(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	3(Amp)	Inductance	3.68(mH)	Rated Speed	1000(RPM)
Continuous Current	1.2(Amp)	-	-	Max RPM	1500(RPM)

FORCE CONTROL

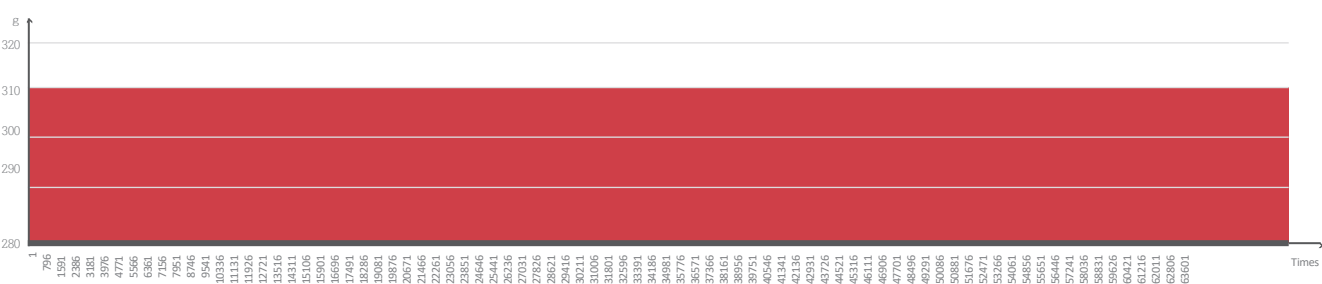
30g Force Control : 30g±3g

Speed : 2mm/s , Stroke : 23mm
Cycle Time : 536ms (Compress Time : 200ms)

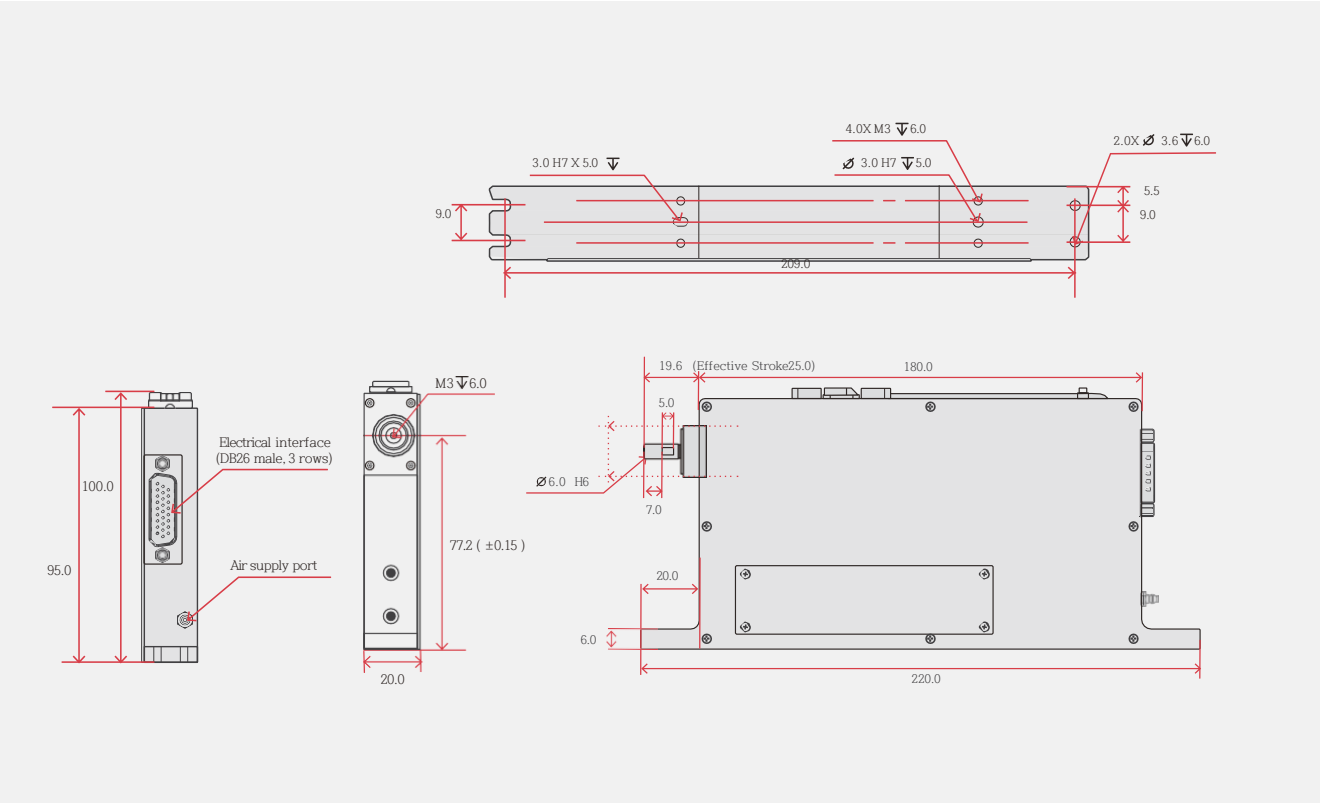


300g Force Control : 300g±10g

Speed : 2mm/s , Stroke : 23mm
Cycle Time : 545ms (Compress Time : 200ms)

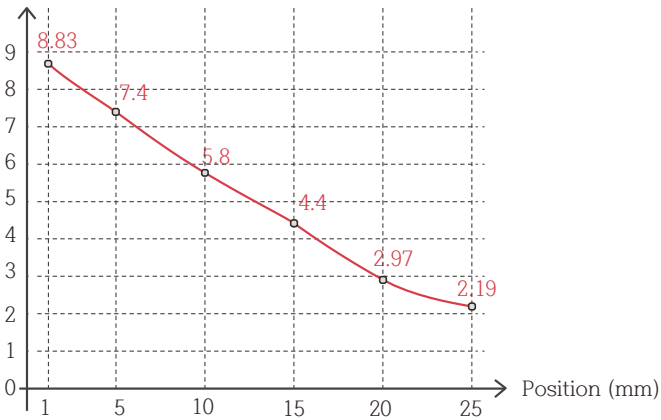


2D DIMENSION DRAWING



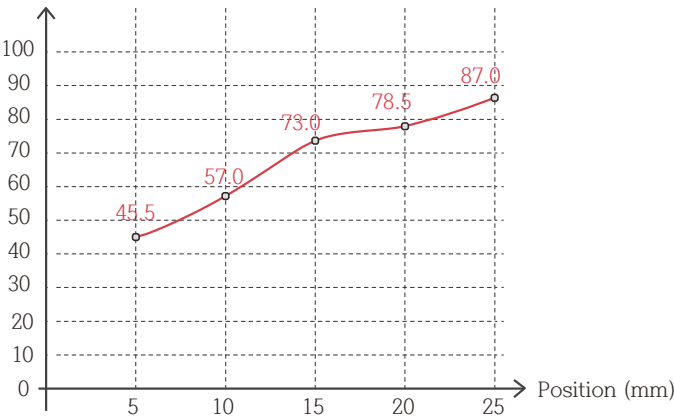
GAS-LRS2025-01-48 정격 추력

Rated Thrust(N)



GAS-LRS2025-01-48 Full-axis 구동 시간
(Speed : 500mm/s Acceleration : 3G)

Time (ms)



GAS-LRS2040-01-48-CL

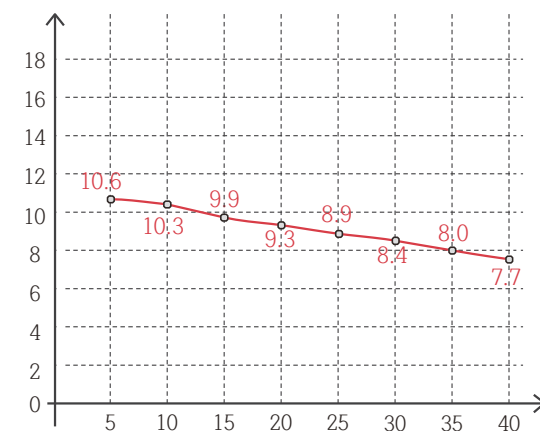


» TECHNICAL PARAMETERS

Model		Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LRS2040-01-48-CL		48	208X99X20	993	Pulse / EtherCAT
Linear Axis(Z)			Rotary Axis(R)		
Effective Stroke	40(mm)	Speed	800(mm/s)	Accuracy	±0.01(°)
Peak Thrust	30(N)	Acceleration	8(G)	Peak Torque	60(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	23(mN·m)
Force Constant	6.5(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	6.0(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	3.6(Amp)	Inductance	0.8(mH)	Rated Speed	1000(RPM)
Continuous Current	1.4(Amp)	-	-	Max RPM	1500(RPM)

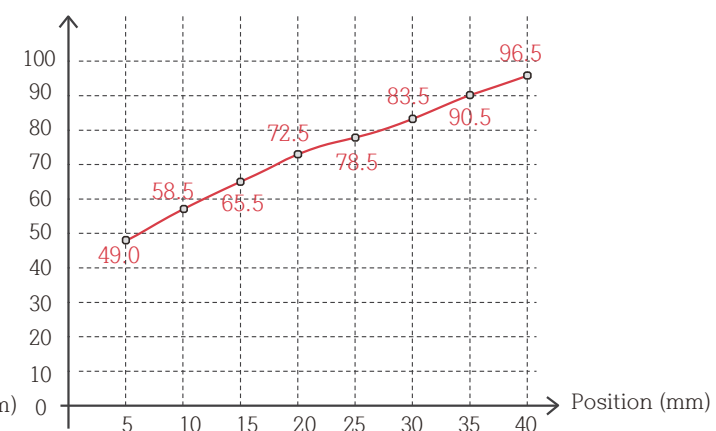
GAS-LRS2040-01-48-CL 정격 추력

Rated Thrust(N)



GAS-LRS2040-01-48-CL Full-axis 구동 시간

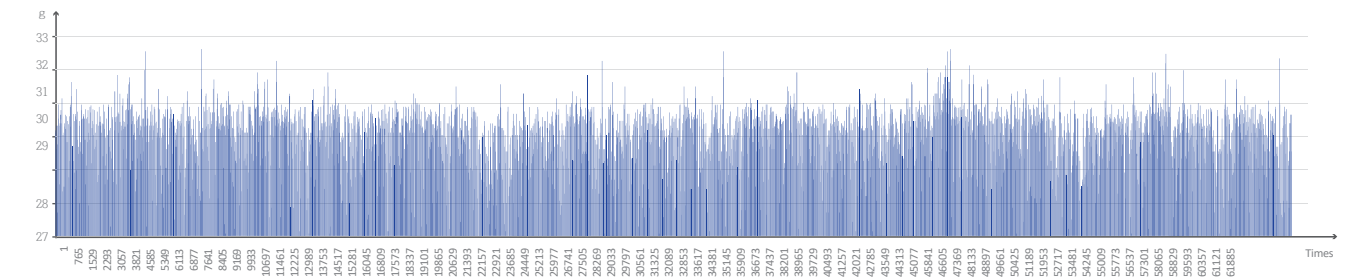
(Speed : 800mm/s Acceleration : 8G)
Time (ms)



» FORCE CONTROL

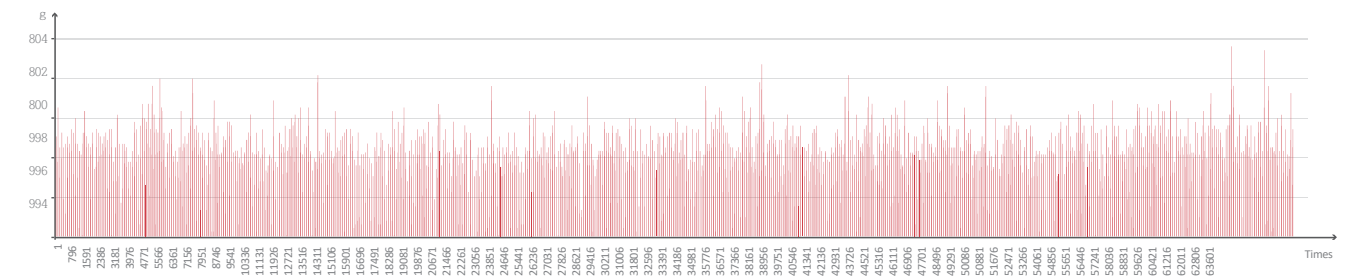
30g Force Control : $30g+3g-2g$

Speed : 2mm/s , Stroke : 39mm
Cycle Time : 545ms (Compress Time : 200ms)

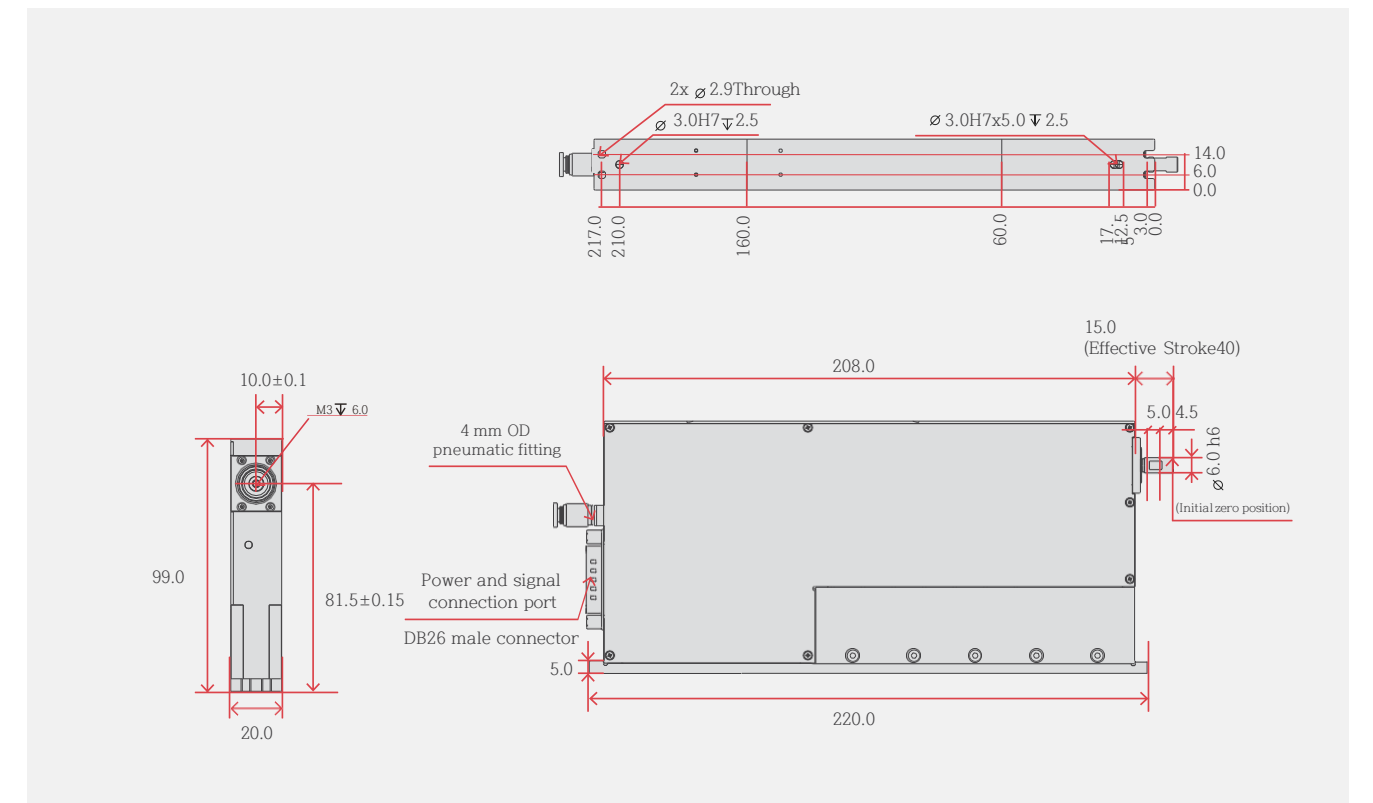


800g Force Control : $800\text{g} + 4 - 5\text{g}$

Speed : 2mm/s , Stroke : 39mm
Cycle Time : 690ms (Compress Time : 200ms)



» 2D DIMENSION DRAWING



Linear Rotary Motor

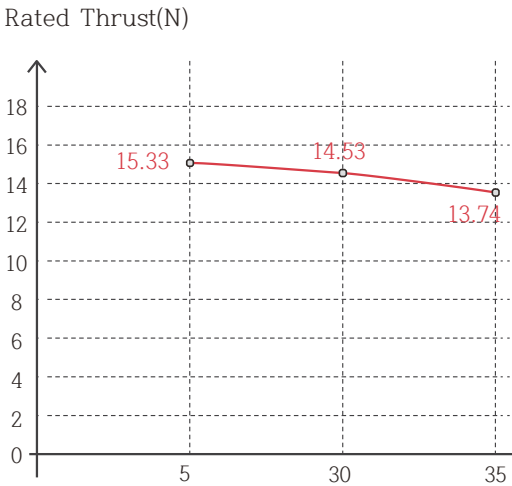
GAS-LRS2715-01-48-CL



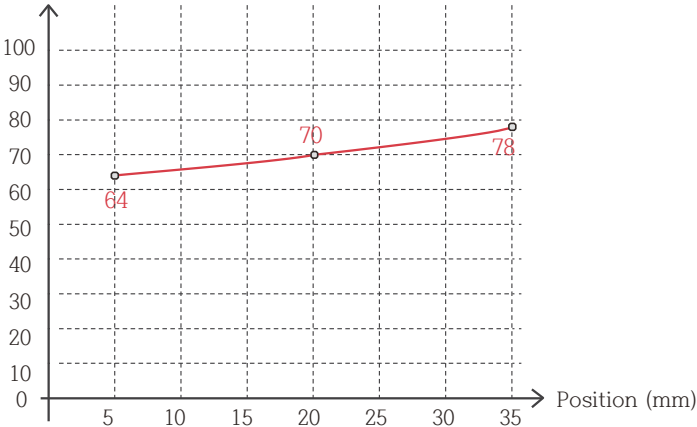
» TECHNICAL PARAMETERS

Model		Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LRS2715-01-48-CL		48	150X117X27	754	Pulse / EtherCAT
Linear Axis(Z)				Rotary Axis(R)	
Effective Stroke	15(mm)	Speed	500(mm/s)	Accuracy	±0.01(°)
Peak Thrust	34(N)	Acceleration	3(G)	Peak Torque	60(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	23(mN·m)
Force Constant	9.8(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	11(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	3.6(Amp)	Inductance	0.8(mH)	Rated Speed	1000(RPM)
Continuous Current	1.4(Amp)	-	-	Max RPM	1500(RPM)

GAS-LRS2715-01-48-CL 정격 추력



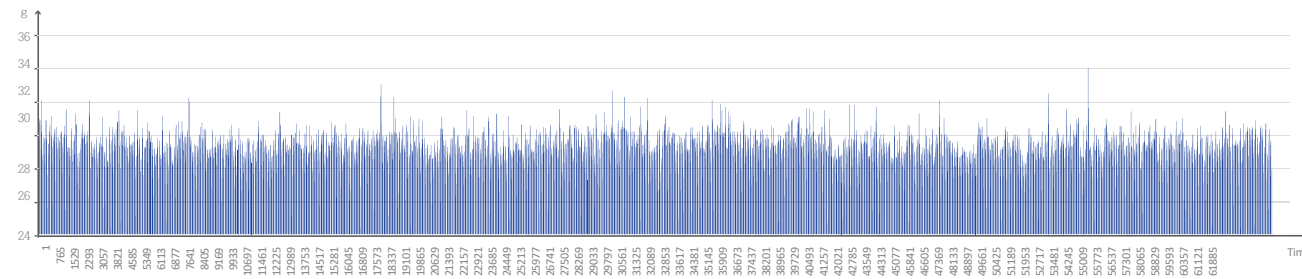
GAS-LRS2715-01-48-CL Full-axis 구동 시간
(Speed : 500mm/s Acceleration : 3G)



» FORCE CONTROL

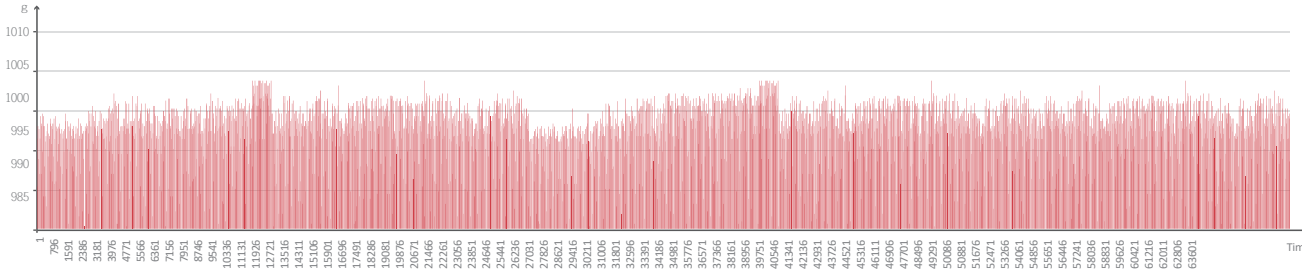
30g Force Control : 30g+4g-2g

Speed : 2mm/s , Stroke : 14.5mm
Cycle Time : 488ms (Compress Time : 200ms)

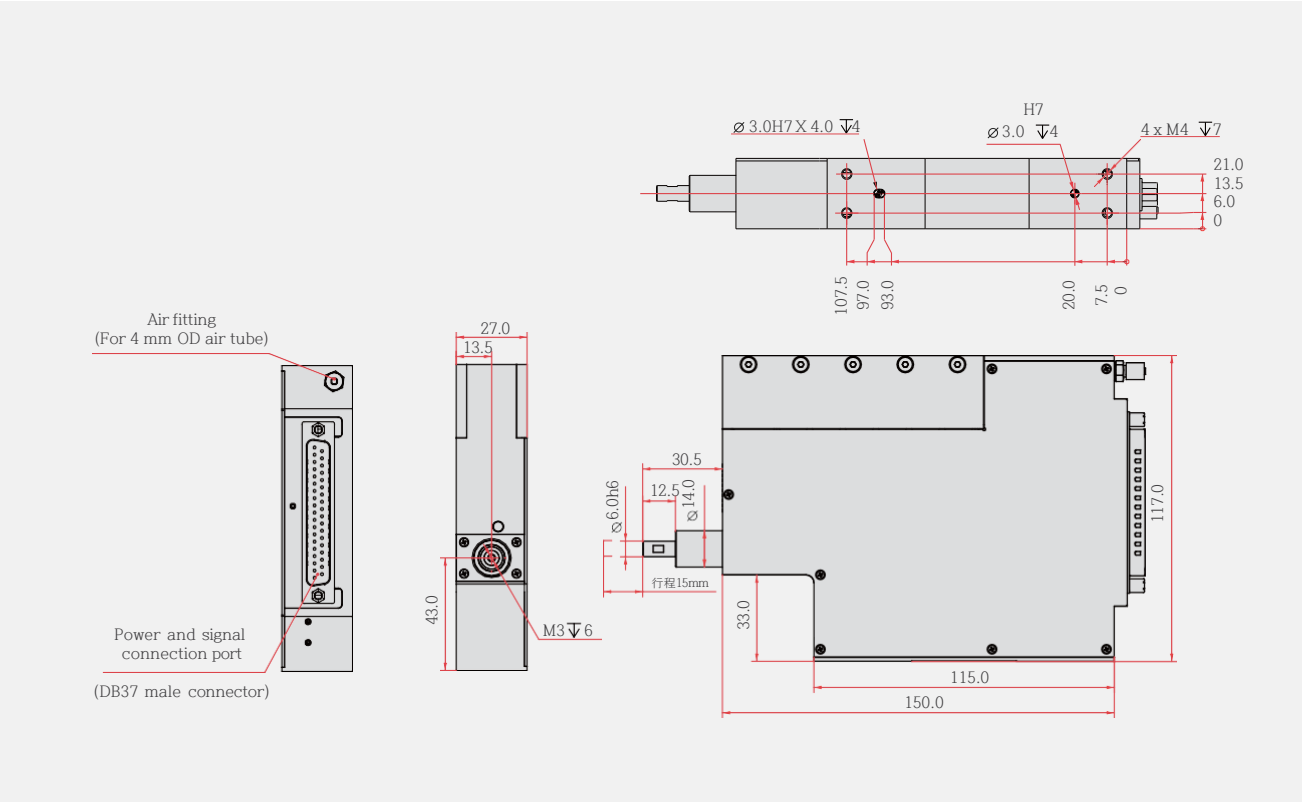


1000g Force Control : 1000g±5g

Speed : 2mm/s , Stroke : 14.5mm
Cycle Time : 655ms (Compress Time : 200ms)



» 2D DIMENSION DRAWING



Linear Rotary Motor

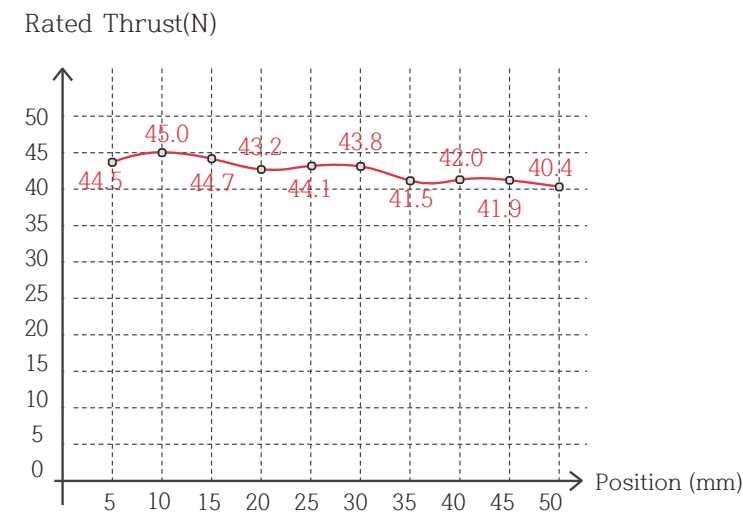
GAS-LRS3050-01-48



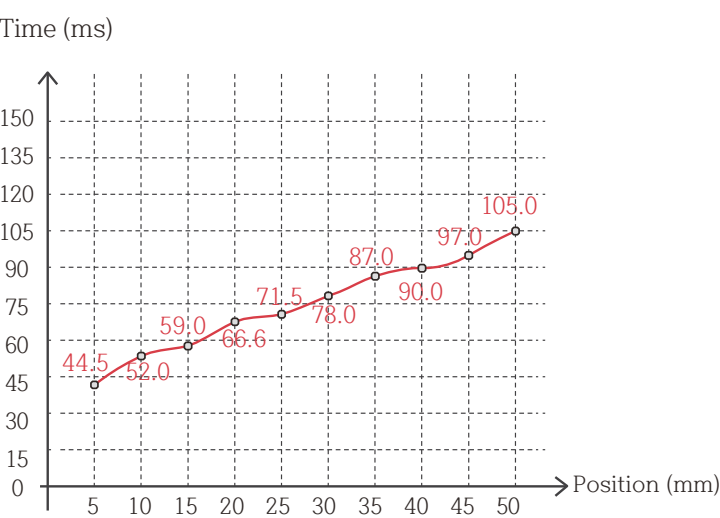
TECHNICAL PARAMETERS

Model		Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LRS3050-01-48		48	270X141X30	2537	Pulse / EtherCAT
Linear Axis(Z)				Rotary Axis(R)	
Effective Stroke	50(mm)	Speed	500(mm/s)	Accuracy	±0.01(°)
Peak Thrust	44.7(N)	Acceleration	3(G)	Peak Torque	289(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	95(mN·m)
Force Constant	17.6(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	5.5(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	4.2(Amp)	Inductance	2.8(mH)	Rated Speed	3000(RPM)
Continuous Current	2.5(Amp)	-	-	Max RPM	6000(RPM)

GAS-LRS3050-01-48 정격 추력



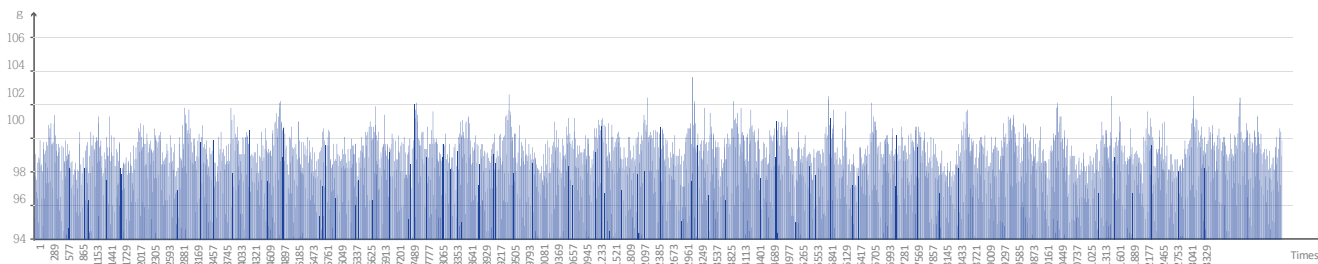
GAS-LRS3050-01-48 Full-axis 구동 시간
(Speed : 800mm/s Acceleration : 5.5G)



FORCE CONTROL

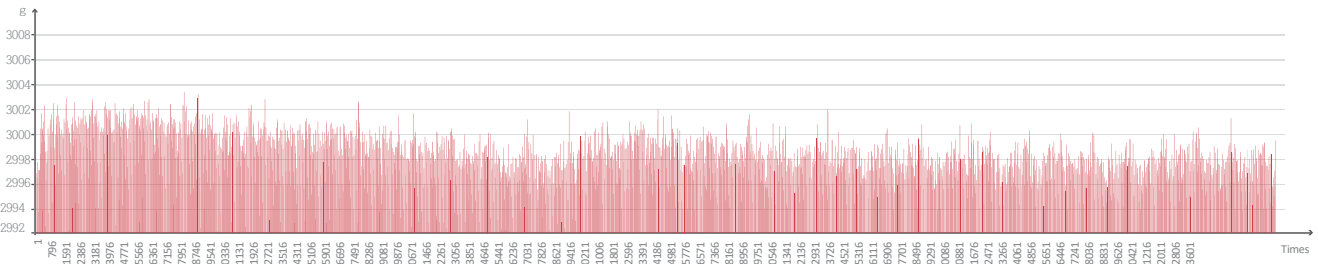
100g Force Control : 100g+4-3g

Speed : 2mm/s , Stroke : 49mm
Cycle Time : 871.5ms (Compress Time : 200ms)

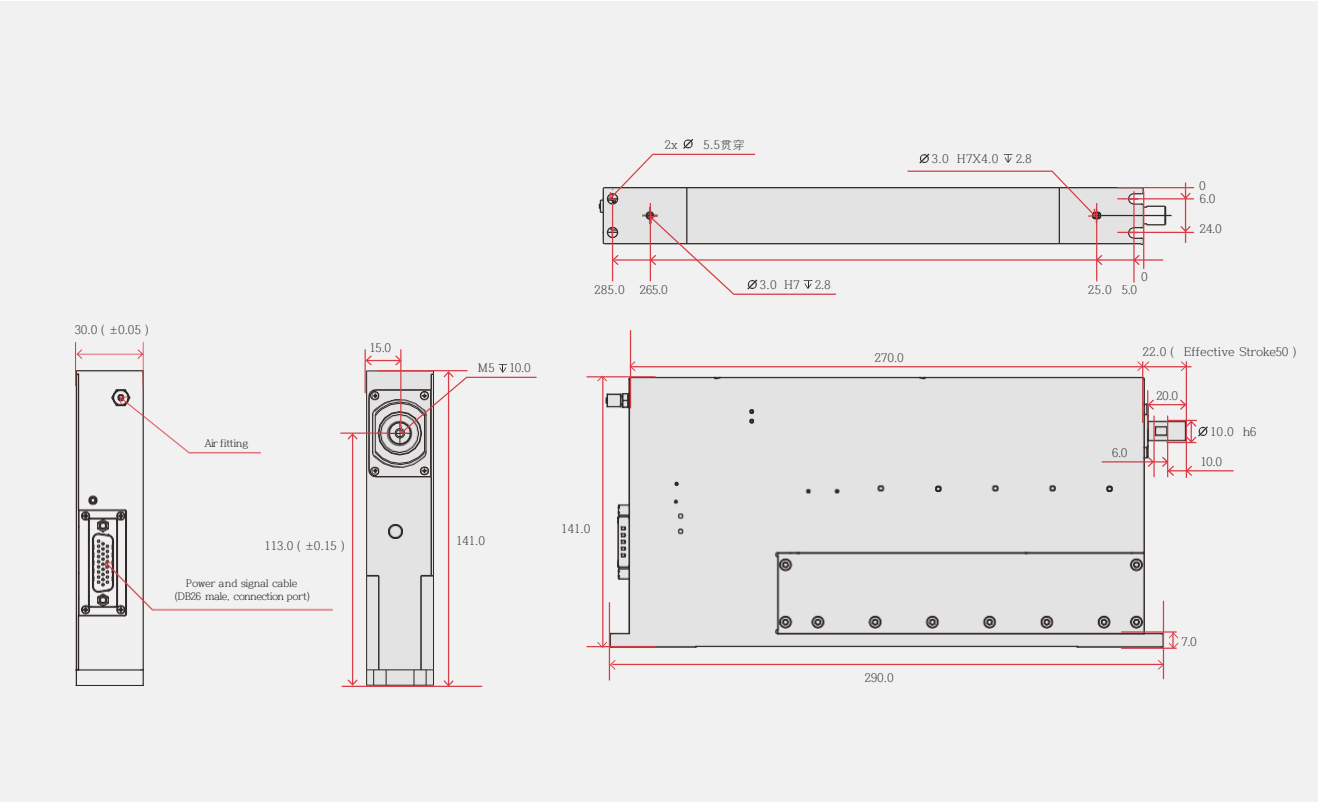


3000g Force Control : 3000g+3g-5g

Speed : 2mm/s , Stroke : 49mm
Cycle Time : 1075ms (Compress Time : 200ms)



2D DIMENSION DRAWING



Linear Rotary Motor
GAS-LRS3535-01-48

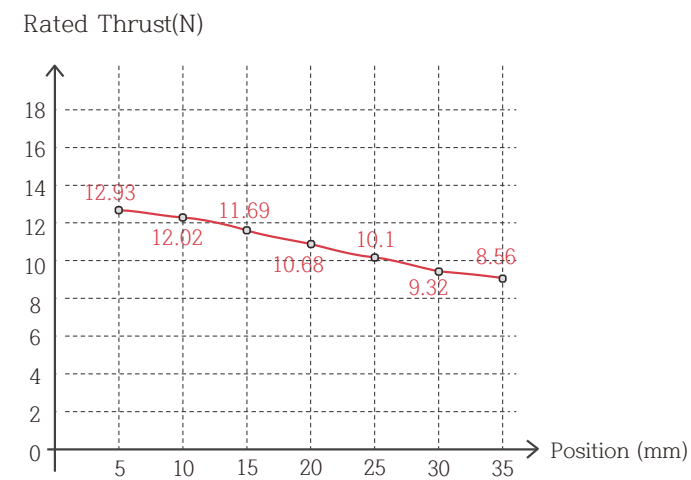


TECHNICAL PARAMETERS

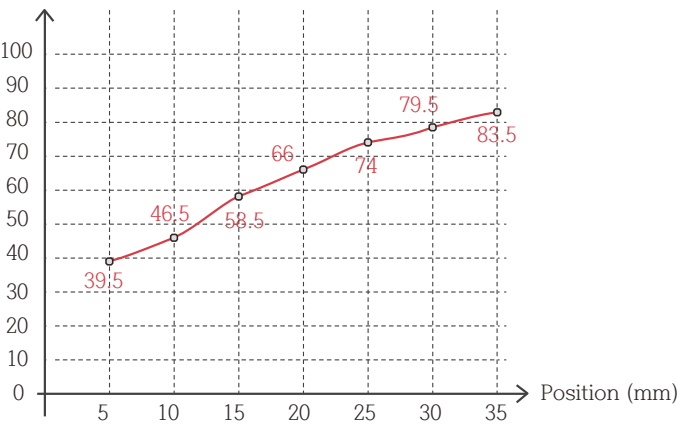
Model	Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LRS3535-01-48	48	210X106X35	1505	Pulse / EtherCAT

Linear Axis(Z)				Rotary Axis(R)	
Effective Stroke	35(mm)	Speed	800(mm/s)	Accuracy	±0.01(°)
Peak Thrust	27(N)	Acceleration	8(G)	Peak Torque	287(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	95(mN·m)
Force Constant	7.3(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	8.8(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	4.8(Amp)	Inductance	1.5(mH)	Rated Speed	3000(RPM)
Continuous Current	1.6(Amp)	-	-	Max RPM	6000(RPM)

GAS-LRS3535-01-48 정격 추력



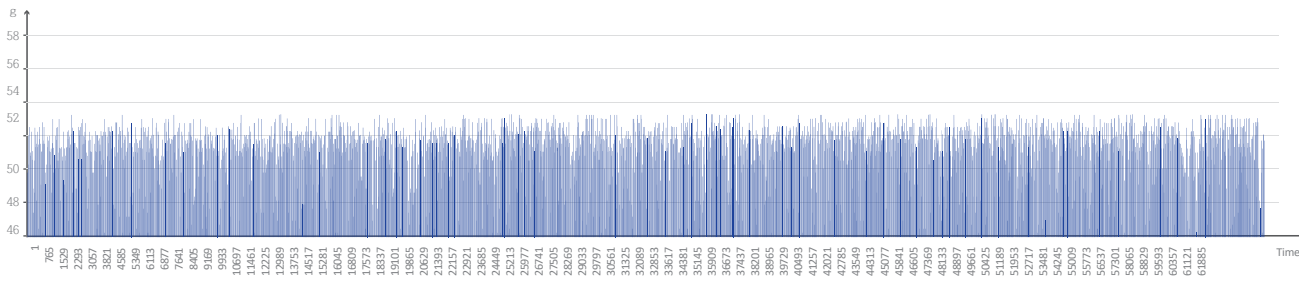
GAS-LRS3535-01-48 Full-axis 구동 시간
(Speed : 800mm/s Acceleration : 8G)



FORCE CONTROL

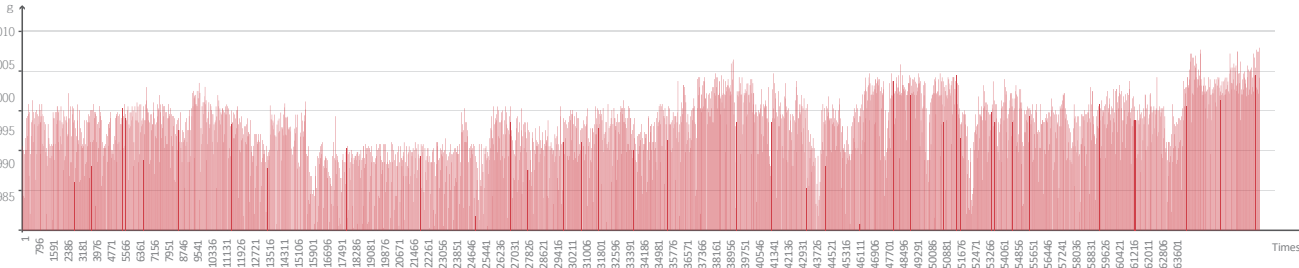
50g Force Control : 50g±3g

Speed : 2mm/s , Stroke : 34.5mm
Cycle Time : 572ms (Compress Time : 200ms)

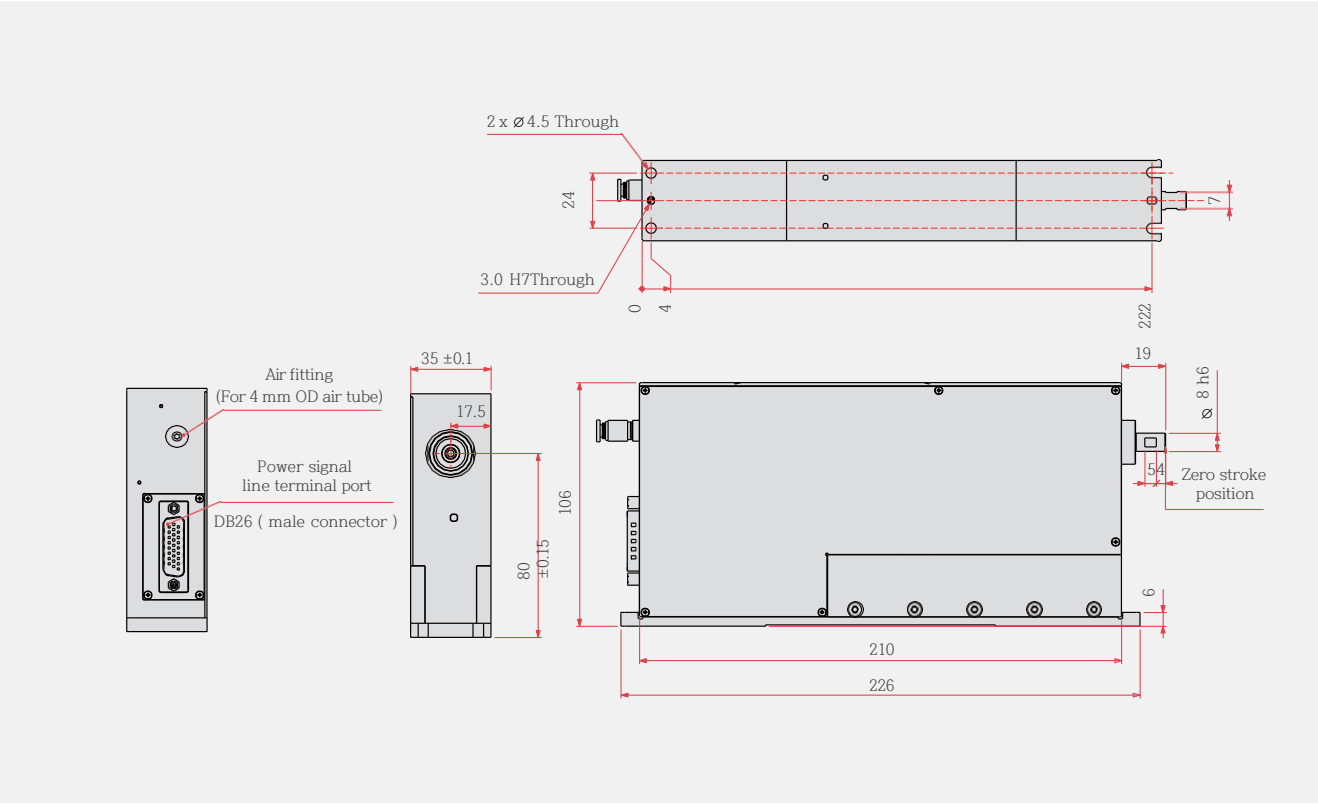


1000g Force Control : 1000g+8-12g

Speed : 2mm/s , Stroke : 34.5mm
Cycle Time : 755ms (Compress Time : 200ms)



2D DIMENSION DRAWING



Linear Rotary Motor

GAS-LRS3535-01-48-LSI



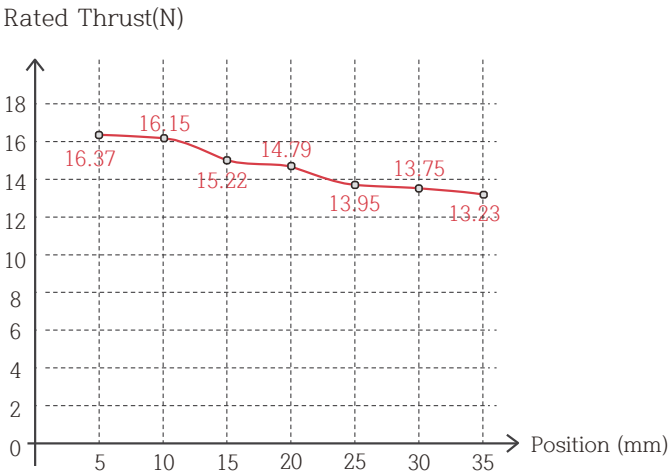
»

TECHNICAL PARAMETERS

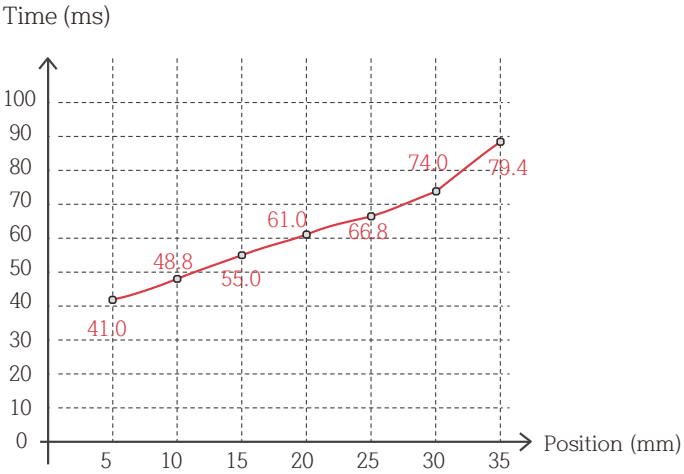
Model	Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LRS3535-01-48-LSI	48	215X108X35	1490	Pulse / EtherCAT

Linear Axis(Z)				Rotary Axis(R)	
Effective Stroke	35(mm)	Speed	800(mm/s)	Accuracy	±0.01(°)
Peak Thrust	30(N)	Acceleration	8(G)	Peak Torque	287(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	95(mN·m)
Force Constant	10.3(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	11.2(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	4.5(Amp)	Inductance	2.5(mH)	Rated Speed	3000(RPM)
Continuous Current	1.5(Amp)	-	-	Max RPM	6000(RPM)

GAS-LRS3535-01-48-LSI 정격 추력



GAS-LRS3535-01-48-LSI Full-axis 구동 시간
(Speed : 800mm/s Acceleration : 8G)



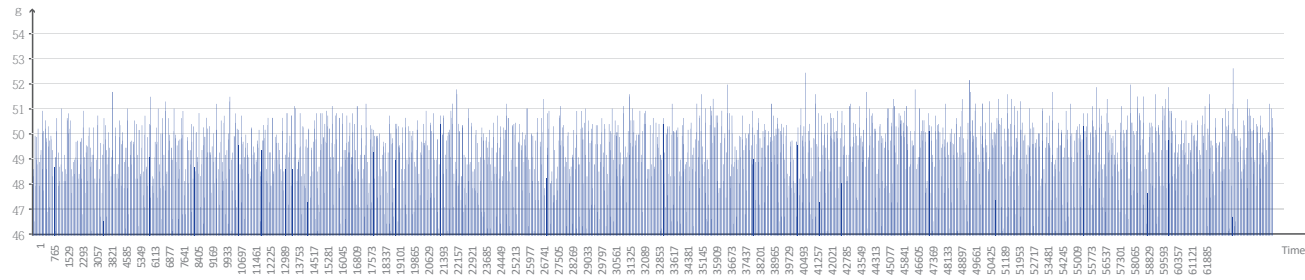
»

FORCE CONTROL

50g Force Control : 50g±3g

Speed : 2mm/s , Stroke : 34.5mm

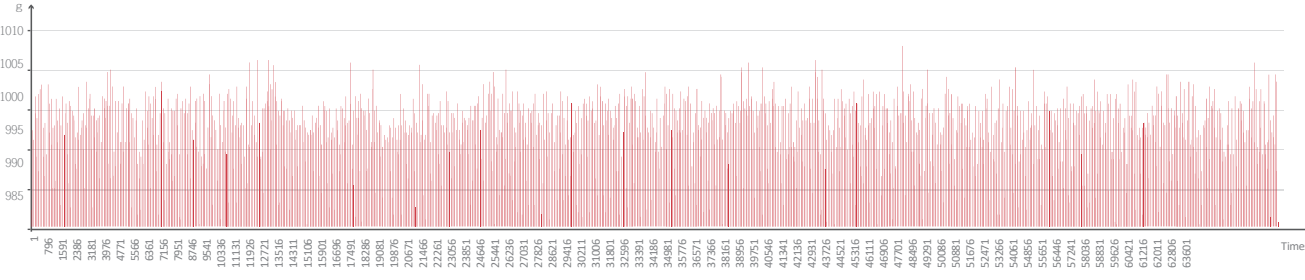
Cycle Time : 609ms (Compress Time : 200ms)



1000g Force Control : 1000g±8g

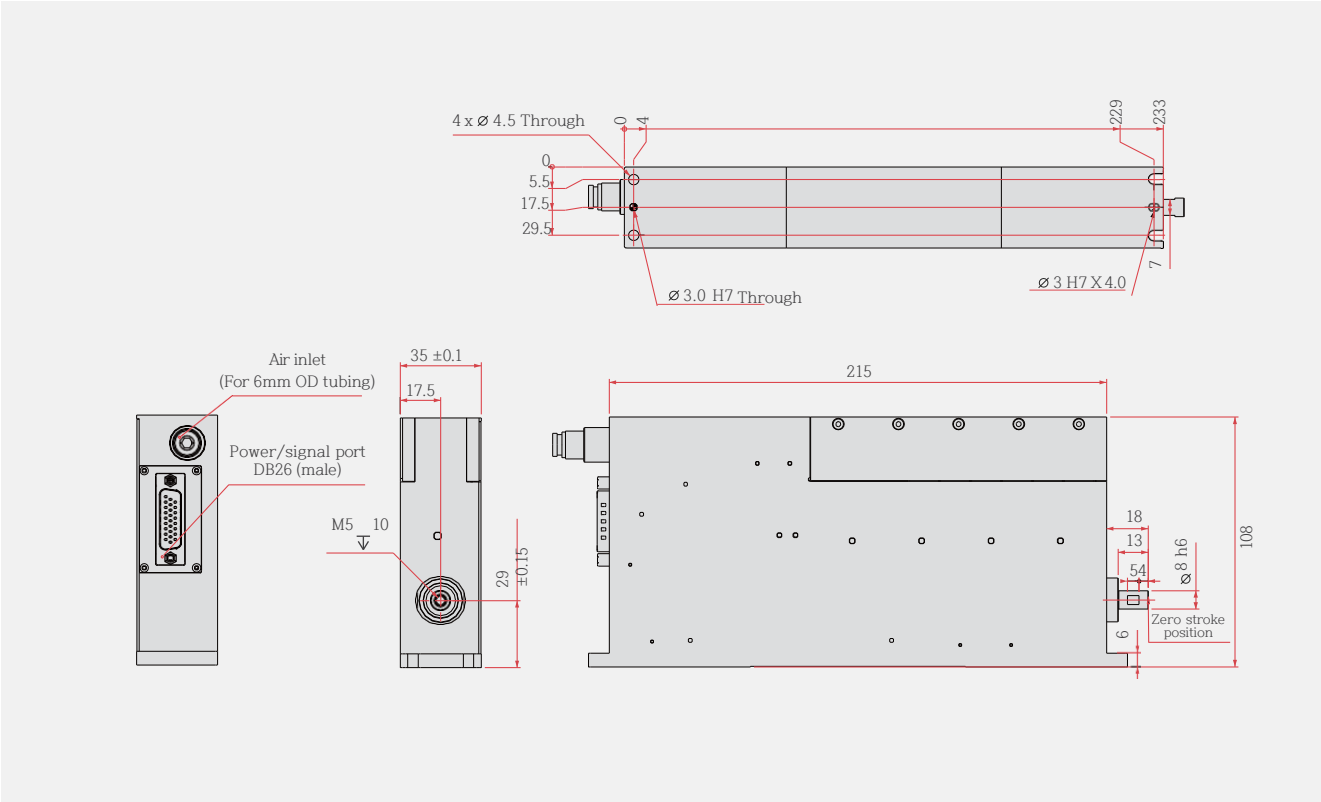
Speed : 2mm/s , Stroke : 34.5mm

Cycle Time : 749ms (Compress Time : 200ms)



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2D DIMENSION DRAWING



Linear Rotary Motor

GAS-LRS3550-01-48

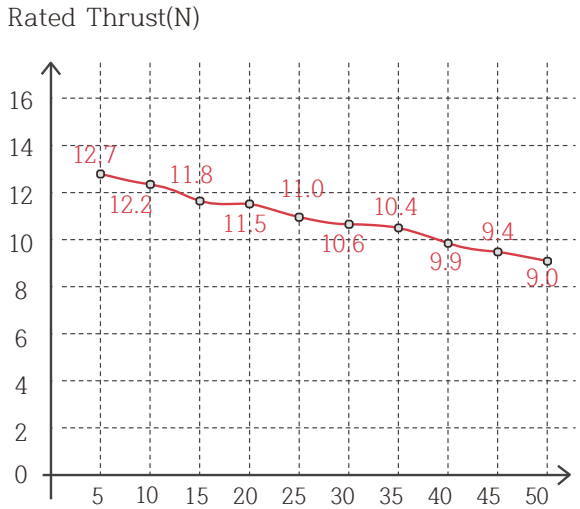


TECHNICAL PARAMETERS

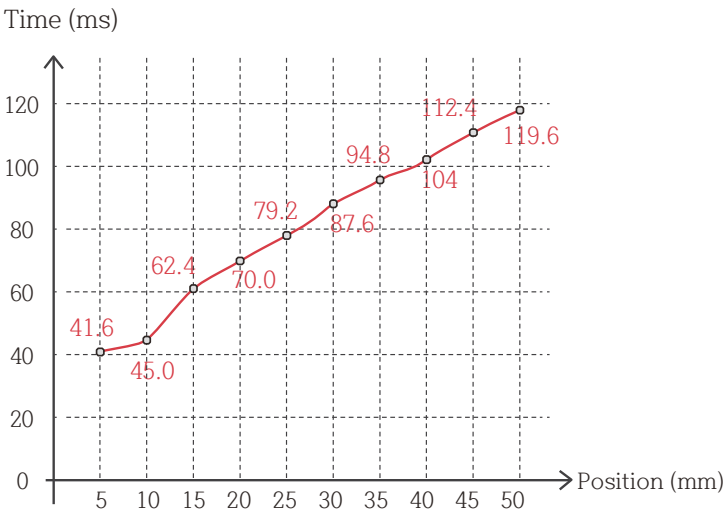
Model	Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LRS3550-01-48	48	288X40.5X35	870	Pulse / EtherCAT

Linear Axis(Z)				Rotary Axis(R)	
Effective Stroke	50(mm)	Speed	600(mm/s)	Accuracy	±0.01(°)
Peak Thrust	33(N)	Acceleration	7(G)	Peak Torque	192(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	64(mN·m)
Force Constant	7.85(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	6.2(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	3.6(Amp)	Inductance	0.8(mH)	Rated Speed	1000(RPM)
Continuous Current	1.4(Amp)	-	-	Max RPM	1500(RPM)

GAS-LRS3550-01-48 정격 추력



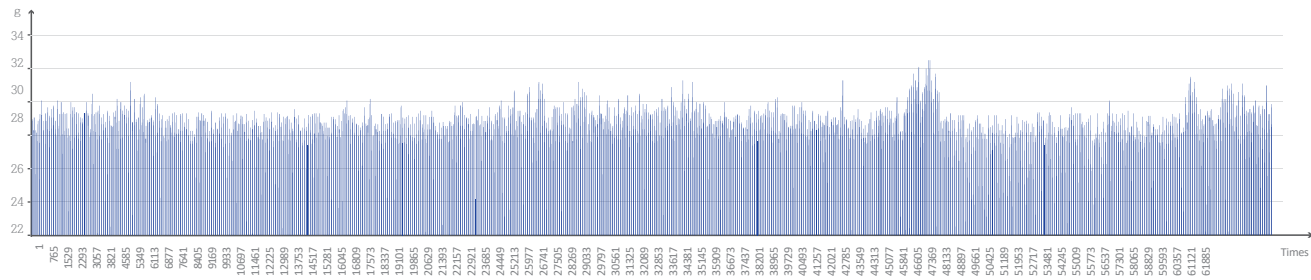
GAS-LRS3550-01-48 Full-axis 구동 시간
(Speed : 600mm/s Acceleration : 7G)



FORCE CONTROL

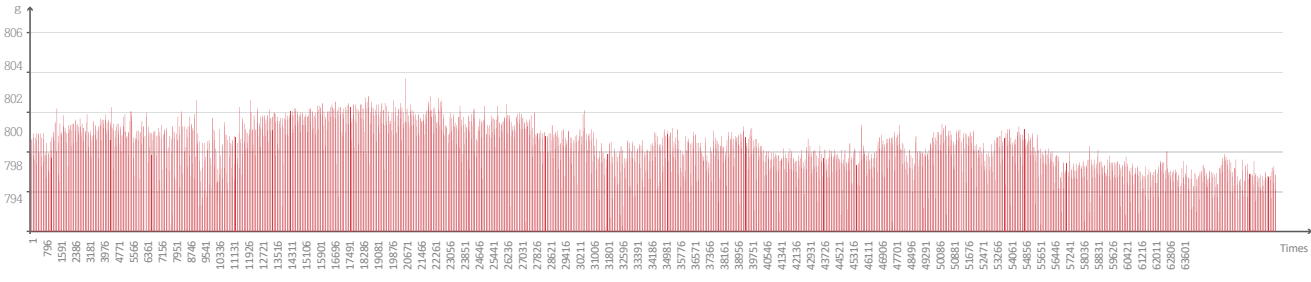
30g Force Control : 30g±3g

Speed : 2mm/s , Stroke : 48.6mm
Cycle Time : 533ms (Compress Time : 200ms)

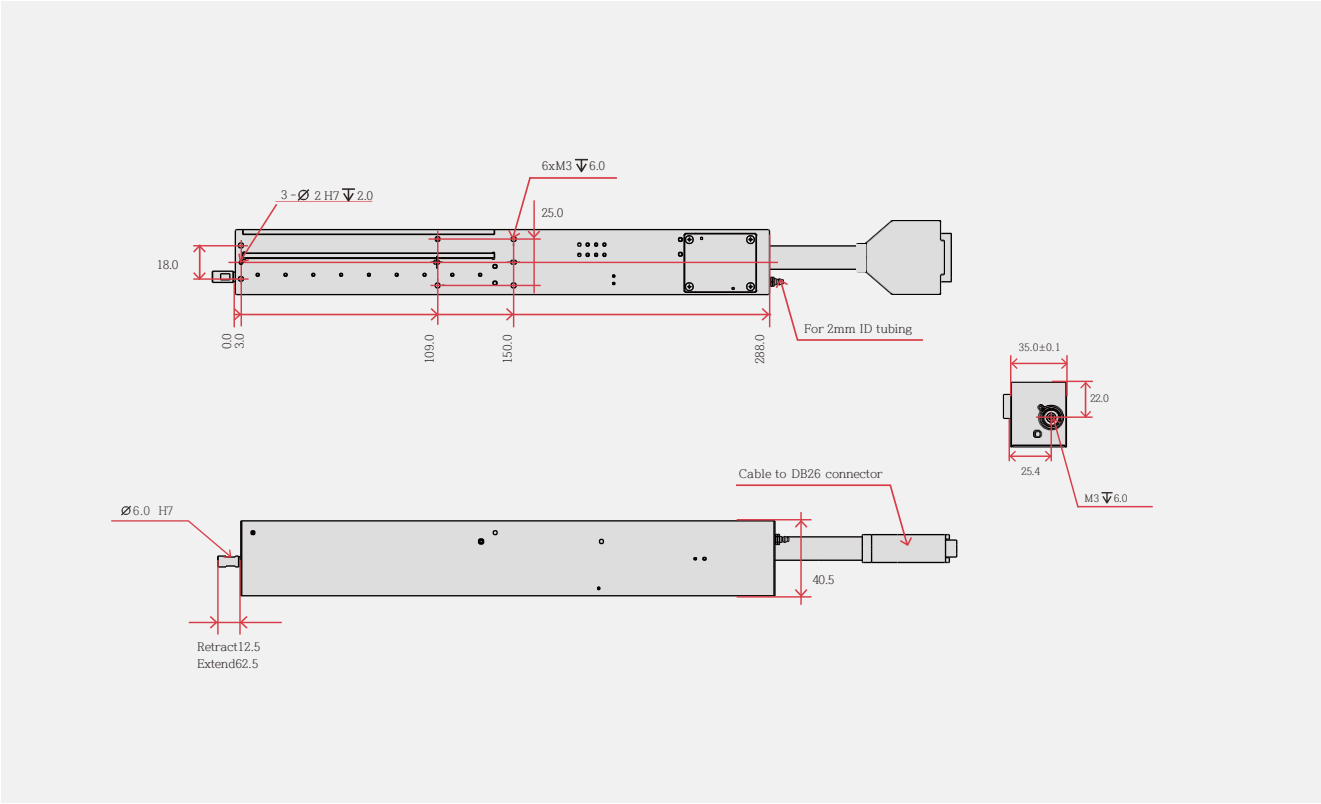


800g Force Control : 800g+4-2g

Speed : 2mm/s , Stroke : 48.6mm
Cycle Time : 689ms (Compress Time : 200ms)



2D DIMENSION DRAWING



Linear Rotary Bond-Head
GAS-LRHS5040-500

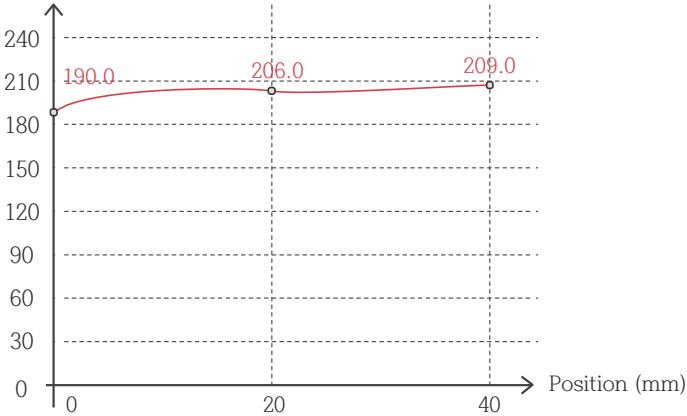


» TECHNICAL PARAMETERS

Model	Voltage(VDC)	Size(mm)	Weight(g)	Driver	
GAS-LRS3535-01-48	48	210X106X35	1505	Pulse / EtherCAT	
Heating rate(s/°C)	Temperature control range(°C)	Temperature control accuracy(°C)	Force control repeatability		
0.01	0-450	±1	< 10%		
Linear Axis(Z)			Rotary Axis(R)		
Effective Stroke	40(mm)	Speed	500(mm/s)	Accuracy	±0.01(°)
Peak Thrust	500(N)	Acceleration	5(G)	Peak Torque	287(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	95(mN·m)
Force Constant	21(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	1(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	6.5(Amp)	Inductance	0.82(mH)	Rated Speed	3000(RPM)
Continuous Current	3(Amp)	-	-	Max RPM	5000(RPM)

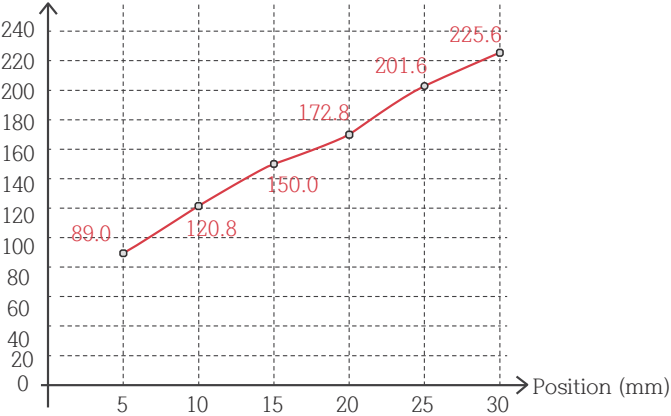
GAS-LRHS5040-500 정격 추력

Rated Thrust(N)



GAS-LRHS5040-500 Large Z-axis 전체 구동 시간

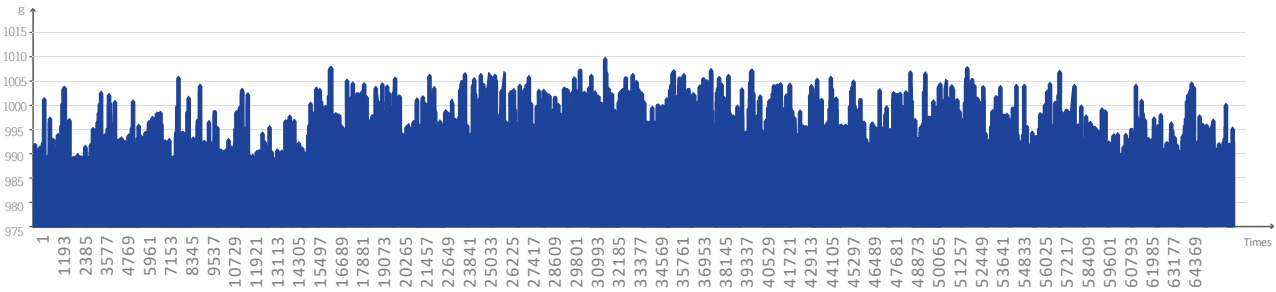
(Speed : 500mm/s Acceleration : 5G)
Time (ms)



» FORCE CONTROL

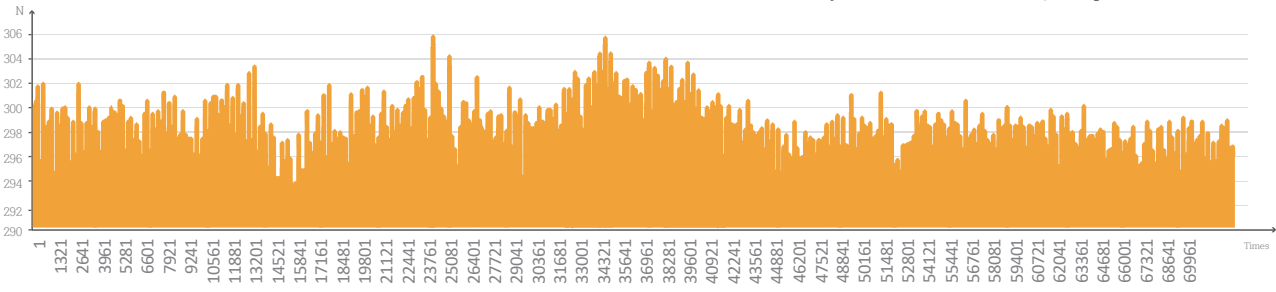
小Z轴1000g Force Control : 1000g±10g

Speed : 10mm/s , Stroke : 3mm
Cycle Time : 896ms (Compress Time : 200ms)

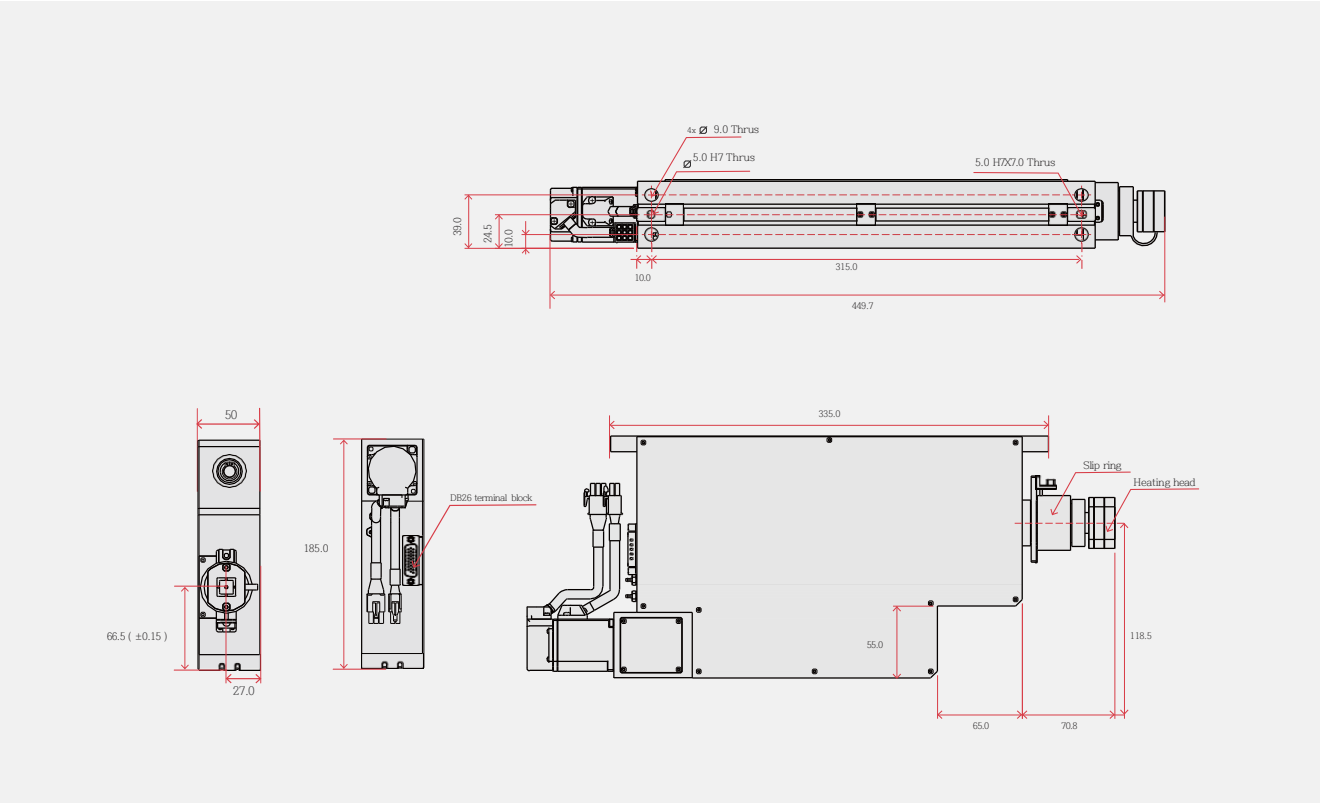


大Z轴300N Force Control : 300N±6N

Speed : 10mm/s , Stroke : 28mm
Cycle Time : 1800ms (Compress Time : 200ms)



» 2D DIMENSION DRAWING



Linear Rotary Bond-Head

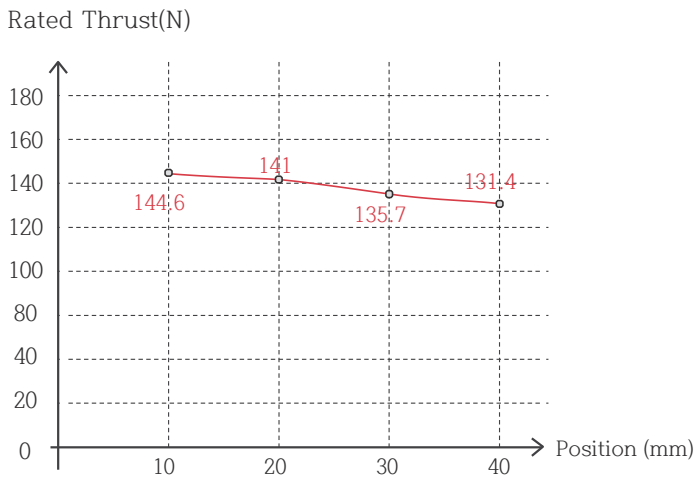
GAS-LRHS5040-100



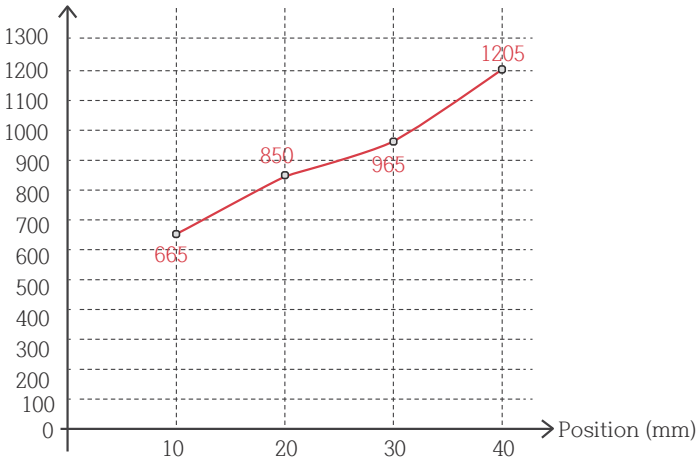
» TECHNICAL PARAMETERS

Model	Voltage(VDC)	Size(mm)	Weight(g)	Driver	
GAS-LRHS5040-100	48	265X216X50	7850	Pulse / EtherCAT	
Heating rate(s/°C)	Temperature control range(°C)	Temperature control accuracy(°C)	Force control repeatability		
0.01	0-450	±1	< 10%		
Linear Axis(Z)			Rotary Axis(R)		
Effective Stroke	40(mm)	Speed	600(mm/s)	Accuracy	±0.01(°)
Peak Thrust	157(N)	Acceleration	3(G)	Peak Torque	287(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	95(mN·m)
Force Constant	65.7(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	14.3(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	12(Amp)	Inductance	9.1(mH)	Rated Speed	3000(RPM)
Continuous Current	2(Amp)	-	-	Max RPM	6000(RPM)

GAS-LRHS5040-100 정격 추력



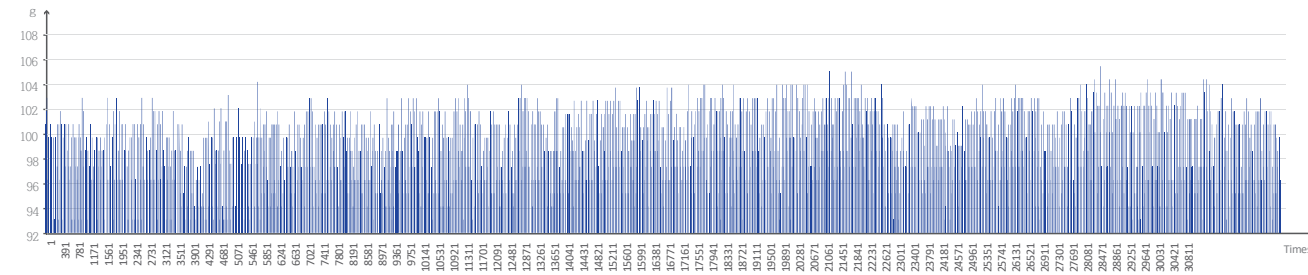
GAS-LRHS5040-100 Full-axis 구동 시간
(Speed : 800mm/s Acceleration : 8G)
Time (ms)



» FORCE CONTROL

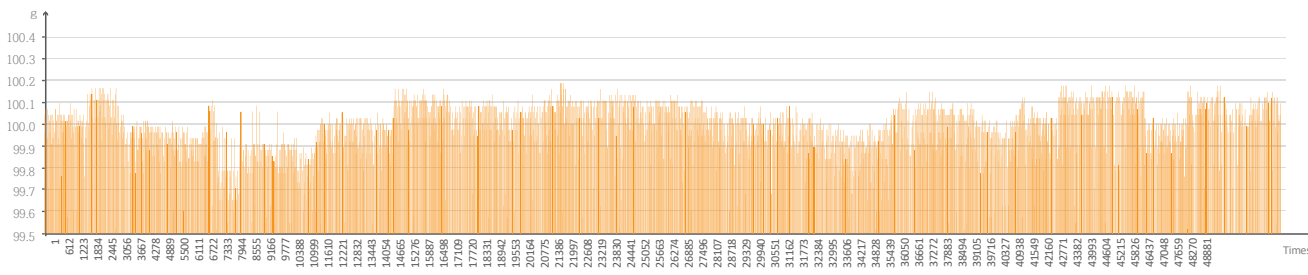
100g Force Control : 100g+5g-6g

Speed : 2mm/s , Stroke : 38mm
Cycle Time : 614.5ms (Compress Time : 200ms)

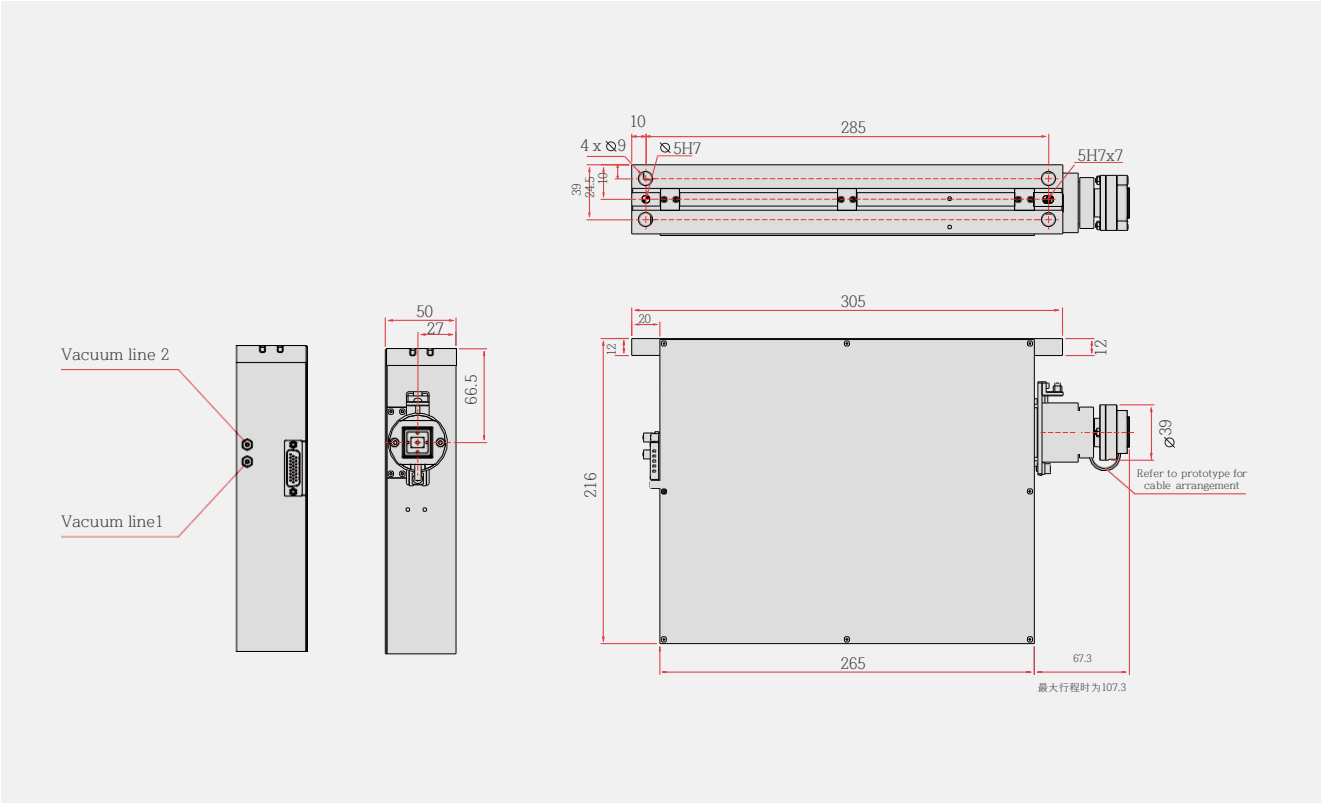


100N Force Control : 100N+0.2N-0.35N

Speed : 2mm/s , Stroke : 38mm
Cycle Time : 774ms (Compress Time : 200ms)



» 2D DIMENSION DRAWING



Linear Rotary Bond-Head
GAS-LRHS9440-01-48 (Integrated)

TECHNICAL PARAMETERS

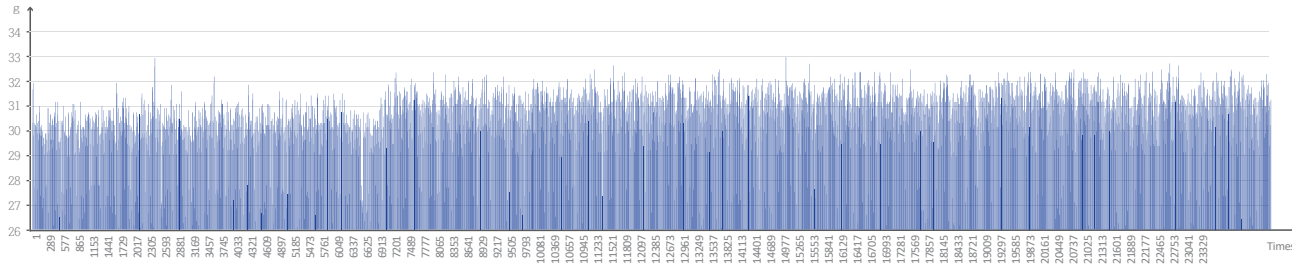


Model	Voltage(VDC)	Size(mm)	Weight(g)	Driver	
GAS-LRHS9440-01-48	48	269.5X146X133	5670	Pulse / EtherCAT	
Heating rate(s/°C)	Temperature control range(°C)	Temperature control accuracy(°C)	Force control repeatability		
0.01	0-450	±1	< 10%		
Linear Axis(Z)			Rotary Axis(R)		
Effective Stroke	40(mm)	Speed	800(mm/s)	Accuracy	±0.01(^)
Peak Thrust	130(N)	Acceleration	7(G)	Peak Torque	80(mN·m)
Rated Thrust(N)	See figure	Encoder	0.1(μm) (incremental)	Rated Torque	25(mN·m)
Force Constant	9(N/A)	Accuracy	±3(μm)	Radial Runout	±3(μm)
DC Resistance	13.8(fi)	Linear Straightness	±3(μm)	Encoder	17(Bit)
Maximum Current	7(Amp)	Inductance	19mH)	Rated Speed	1000(RPM)
Continuous Current	2(Amp)	-	-	Max RPM	1500(RPM)

FORCE CONTROL

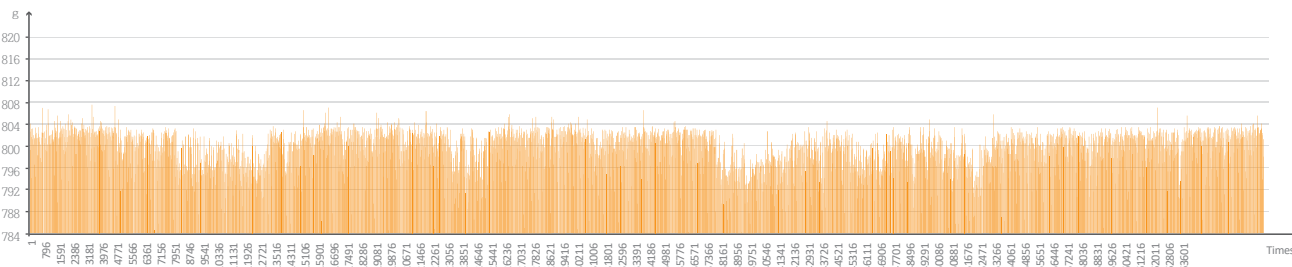
30g Force Control : 30g±3g

Speed : 2mm/s , Stroke : 38mm
Cycle Time : 855ms (Compress Time : 200ms)

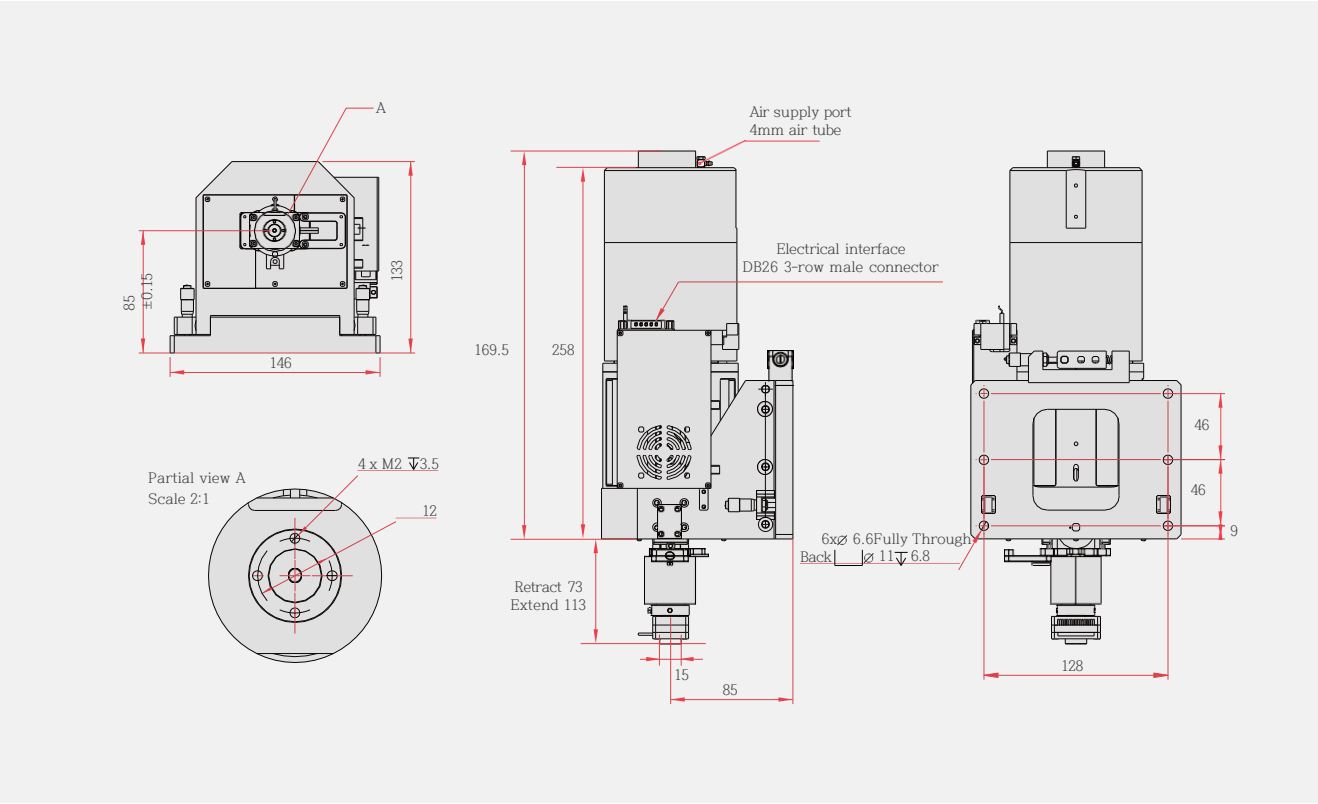


800g Force Control : 800g±8g

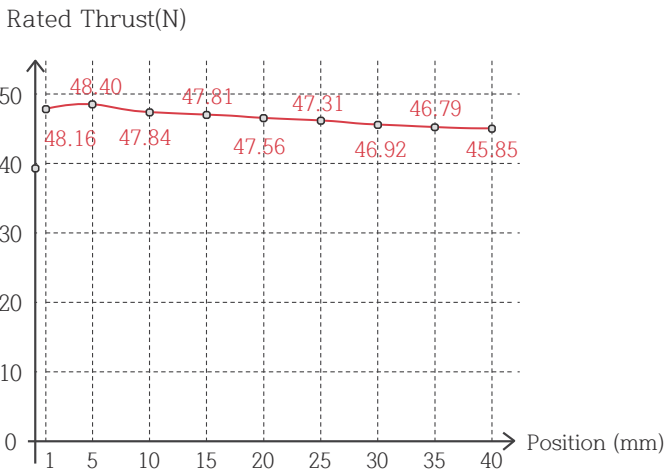
Speed : 2mm/s , Stroke : 38mm
Cycle Time : 710ms (Compress Time : 200ms)



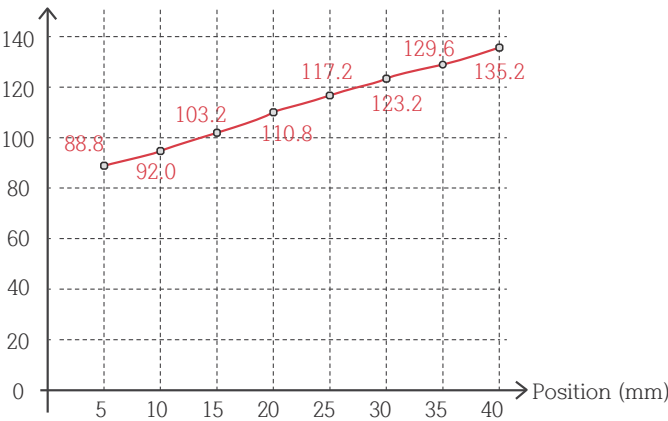
2D DIMENSION DRAWING



GAS-LRHS9440-01-48 정격 추력



GAS-LRHS9440-01-48 Full-axis 구동 시간
(Speed : 800mm/s Acceleration : 7G)
Time (ms)



Linear Motor

GAS-LAA1325-01-48

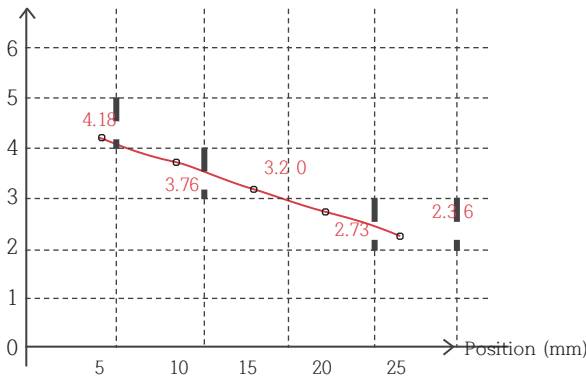


TECHNICAL PARAMETERS

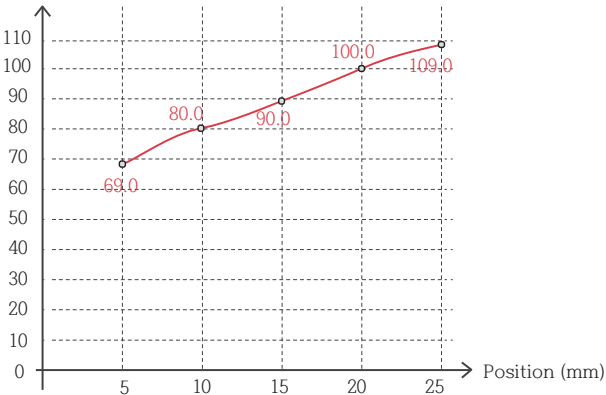
Model	Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LAA1325-01-48	48	176x82x13	500	Pulse / EtherCAT
Linear Axis(Z)				
Effective Stroke (mm)	25	Speed(mm/s)	600	
Peak Thrust (N)	17.5	Acceleration(G)	7	
Rated Thrust(N)	See figure	Encoder(μm)	0.1(μm) (incremental)	
Force Constant (N/A)	3.2	Accuracy (μm)	±3	
DC Resistance (fi)	10	Linear Straightness(μm)	±3	
Maximum Current (Amp)	4.2	Inductance(mH)	0.24	
Continuous Current (Amp)	1.3		-	

GAS-LAA1325-01-48 정격 추력

Rated Thrust(N)



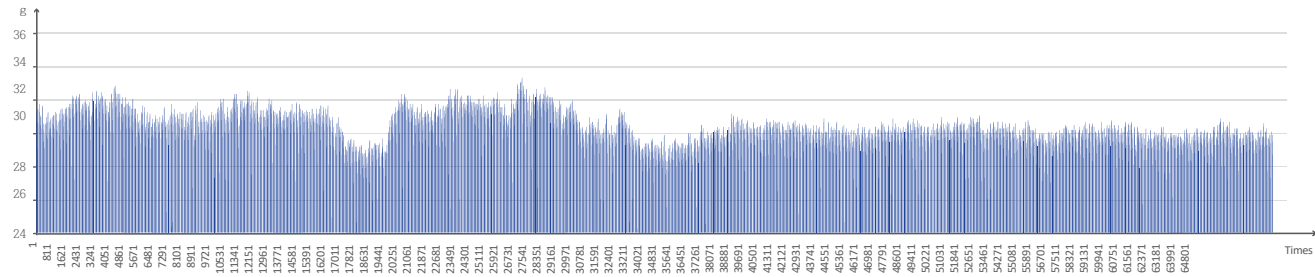
GAS-LAA1325-01-48Full-axis 구동 시간
(Speed : 600mm/s Acceleration : 7G)
Time (ms)



FORCE CONTROL

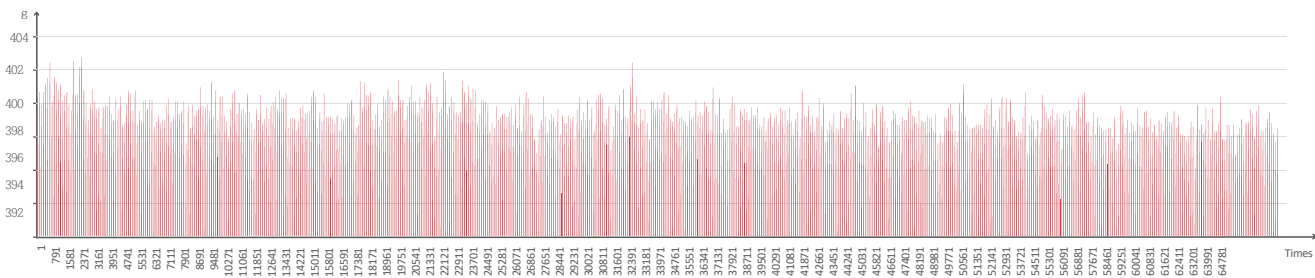
30g Force Control : 30g+3g-2g

Speed : 2mm/s , Stroke : 24mm
Cycle Time : 713ms (Compress Time : 200ms)

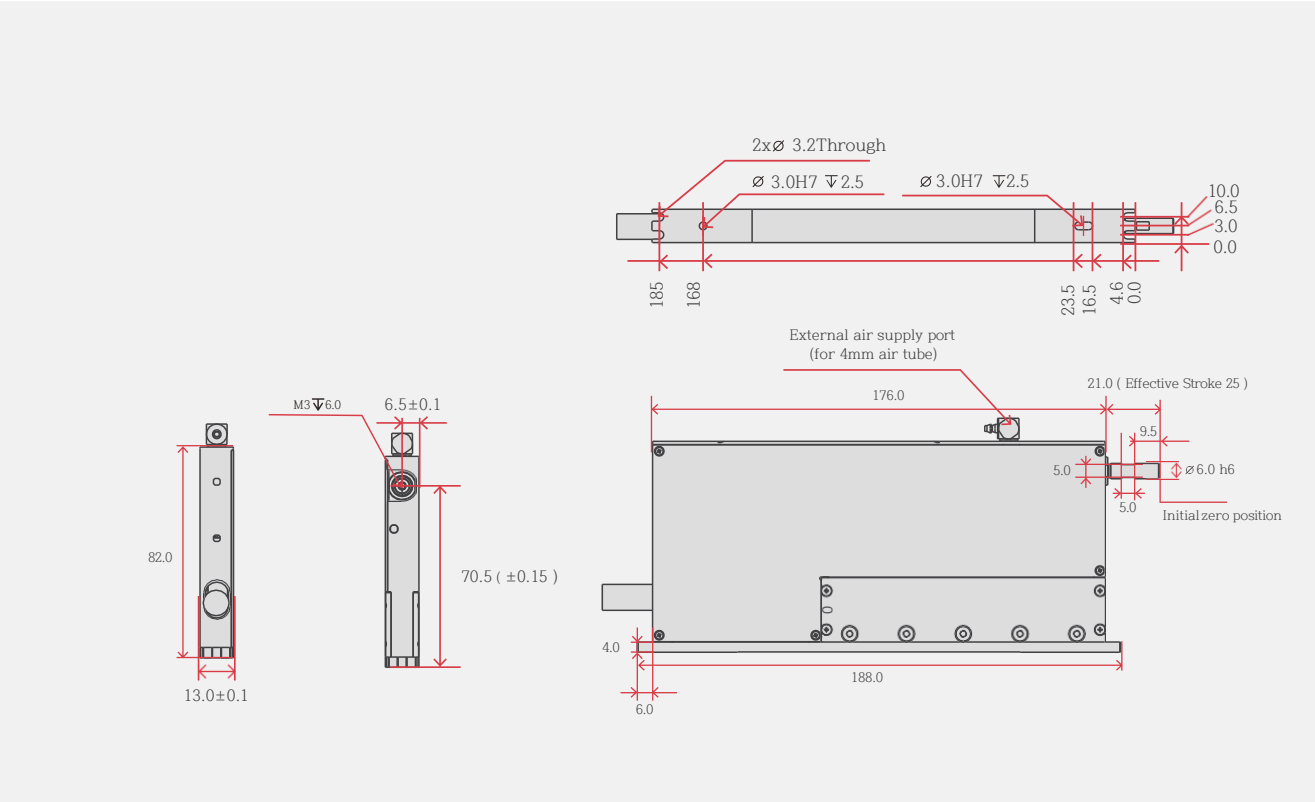


400g Force Control : 400g+3g-3g

Speed : 2mm/s , Stroke : 24mm
Cycle Time : 997ms (Compress Time : 200ms)



2D DIMENSION DRAWING



Linear Motor

GAS-LAA1515-01-48



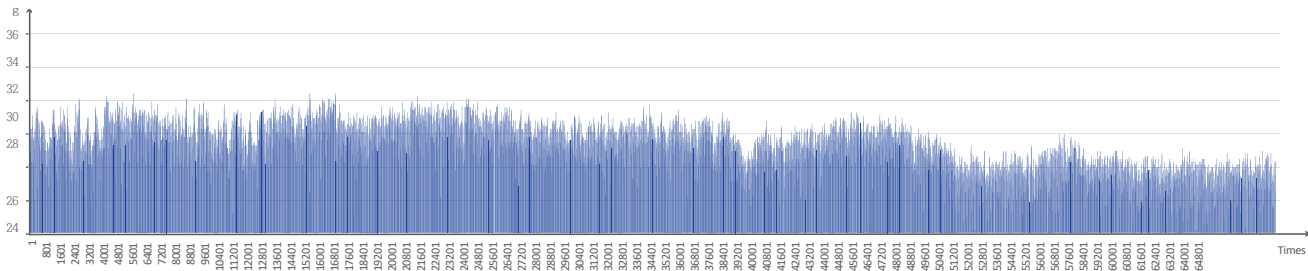
TECHNICAL PARAMETERS

Model	Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LAA1515-01-48	48	156x82x15	480	Pulse / EtherCAT
Linear Axis(Z)				
Effective Stroke (mm)	15	Speed(mm/s)	800	
Peak Thrust (N)	14	Acceleration(G)	8	
Rated Thrust(N)	See figure	Encoder(μm)	0.1(μm) (incremental)	
Force Constant (N/A)	3.5	Accuracy (μm)	±3	
DC Resistance (fi)	3.8	Linear Straightness(μm)	±3	
Maximum Current (Amp)	4.2	Inductance(mH)	0.32	
Continuous Current (Amp)	1.4	-	-	

FORCE CONTROL

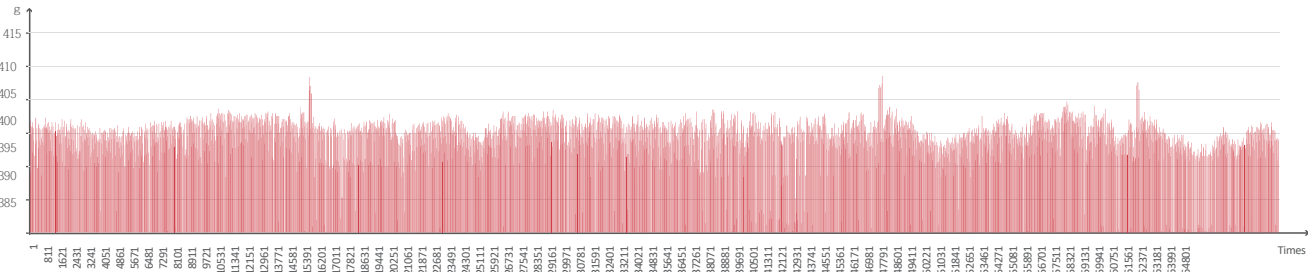
30g Force Control : 30g±3g

Speed : 2mm/s , Stroke : 13mm
Cycle Time : 465ms (Compress Time : 200ms)

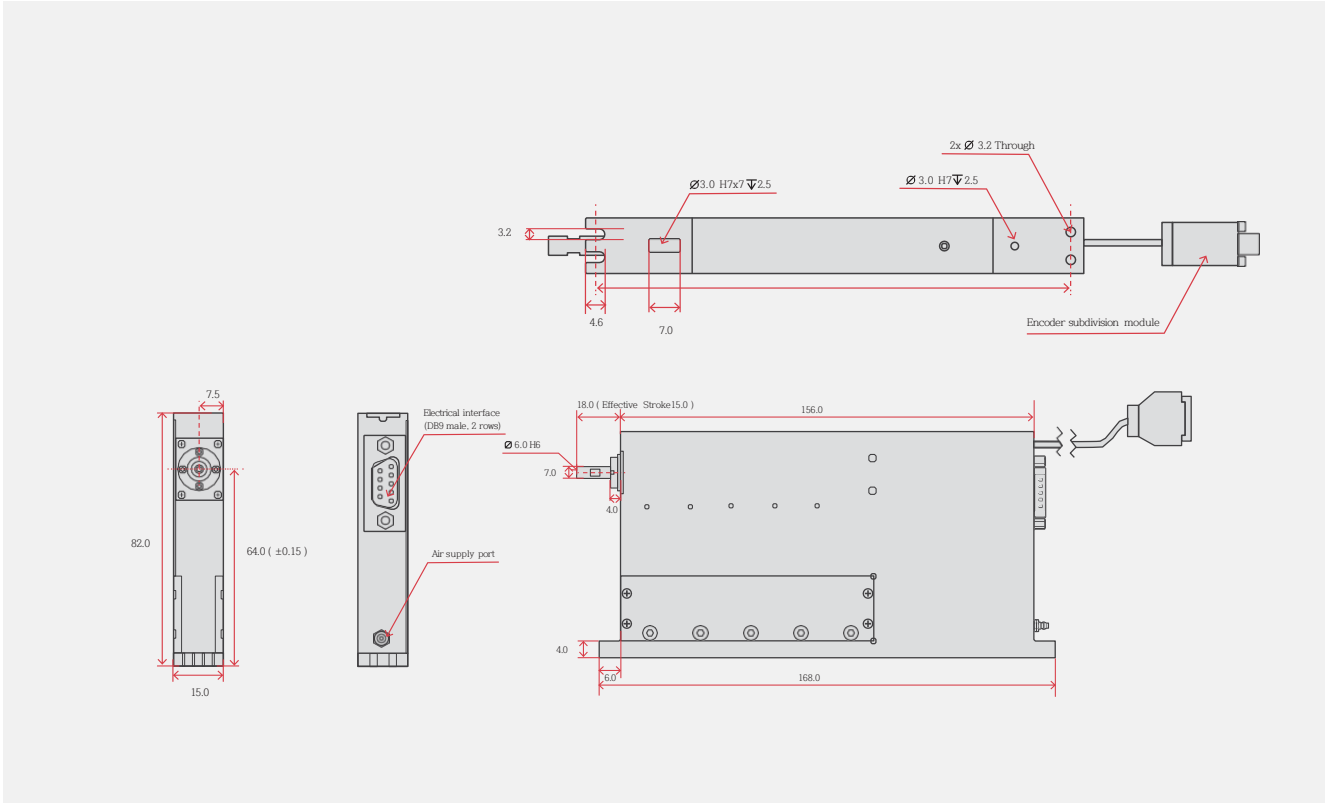


400g Force Control : 400g±10g

Speed : 2mm/s , Stroke : 13mm
Cycle Time : 500ms (Compress Time : 200ms)

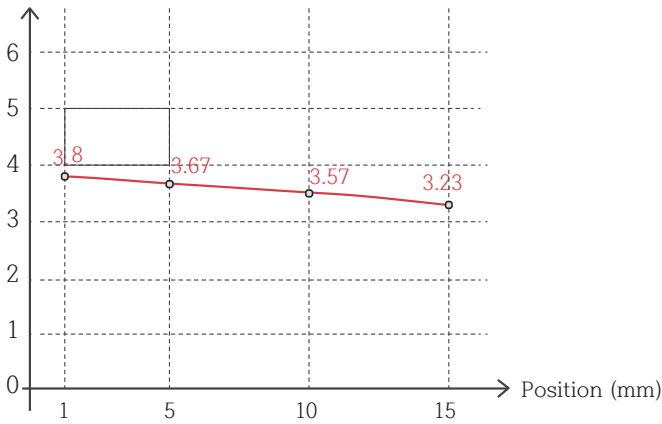


2D DIMENSION DRAWING



GAS-LAA1515-01-48 정격 추력

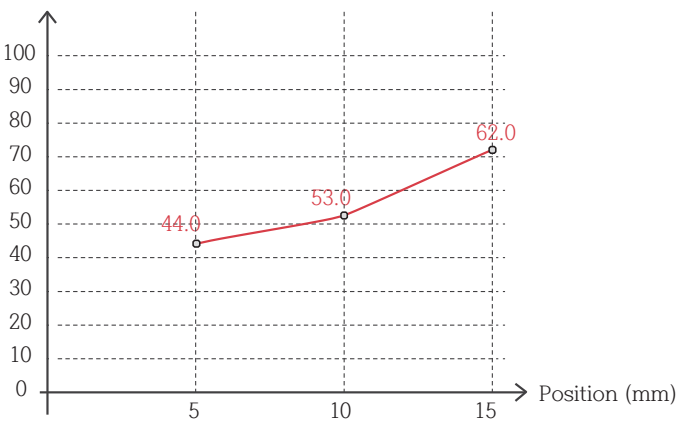
Rated Thrust(N)



GAS-LAA1515-01-48 Full-axis 구동 시간

(Speed : 800mm/s Acceleration : 8G)

Time (ms)



Linear Motor

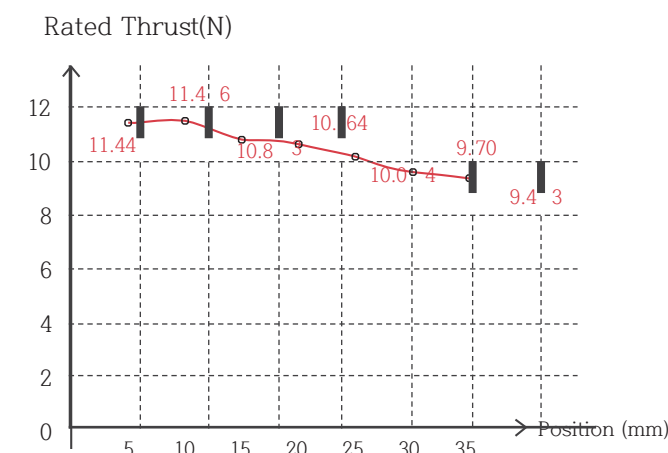
GAS-LAA1635-01-48



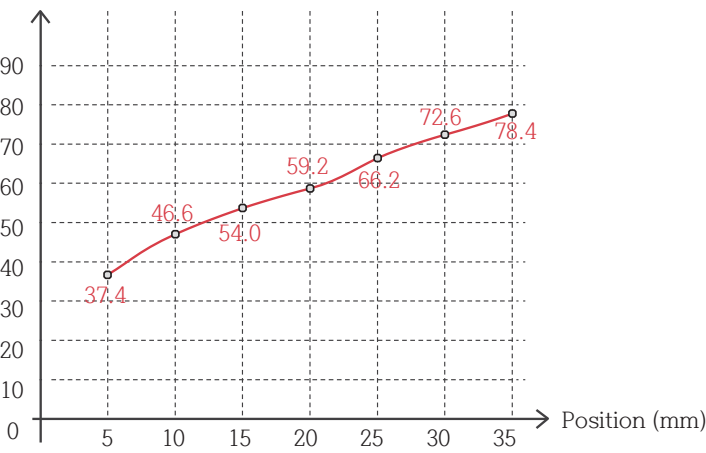
TECHNICAL PARAMETERS

Model	Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LAA1635-01-48	48	210x94x16	697	Pulse / EtherCAT
Linear Axis(Z)				
Effective Stroke (mm)	35	Speed(mm/s)	800	
Peak Thrust (N)	30	Acceleration(G)	8	
Rated Thrust(N)	See figure	Encoder(μm)	0.1(μm) (incremental)	
Force Constant (N/A)	7	Accuracy (μm)	±3	
DC Resistance (fi)	6.13	Linear Straightness(μm)	±3	
Maximum Current (Amp)	3.6	Inductance(mH)	0.79	
Continuous Current (Amp)	1.3	-	-	

GAS-LAA1635-01-48 정격 추력



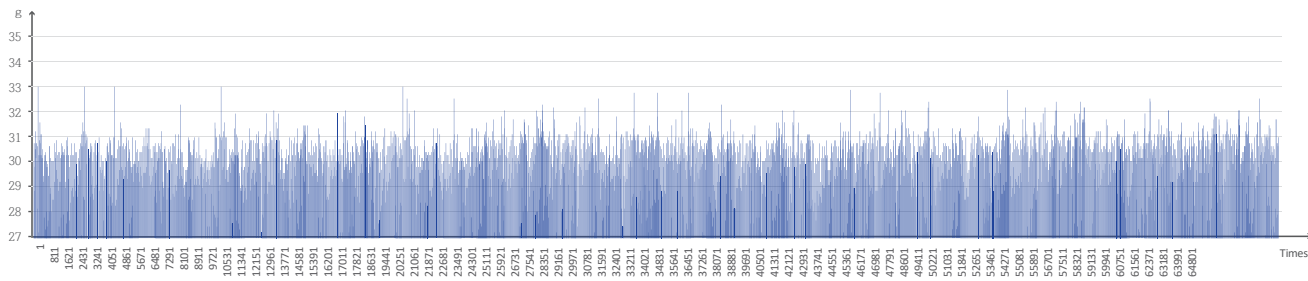
GAS-LAA1635-01-48 Full-axis 구동 시간
(Speed : 800mm/s Acceleration : 8G)
Time (ms)



FORCE CONTROL

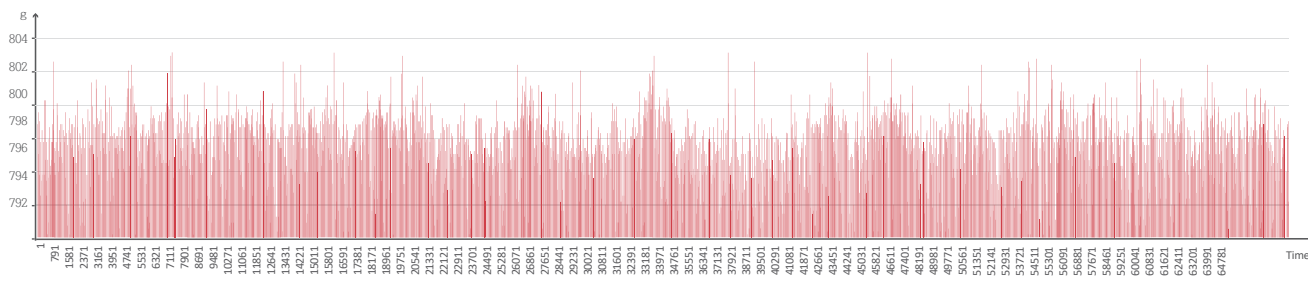
30g Force Control : 30g-2g+3g

Speed : 2mm/s , Stroke : 33.7mm
Cycle Time : 512ms (Compress Time : 200ms)

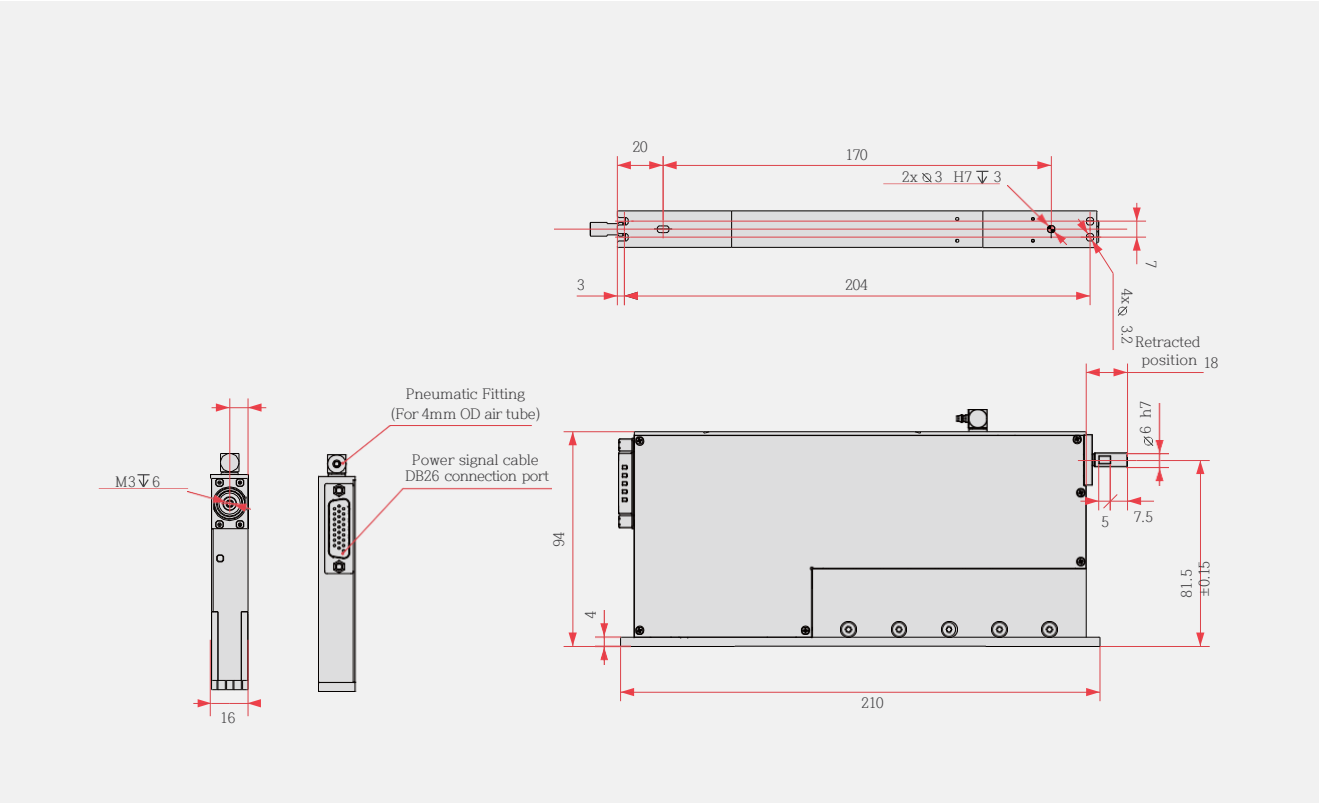


800g Force Control : 800g+3g-7g

Speed : 2mm/s , Stroke : 33.7mm
Cycle Time : 656ms (Compress Time : 200ms)



2D DIMENSION DRAWING



Linear Motor

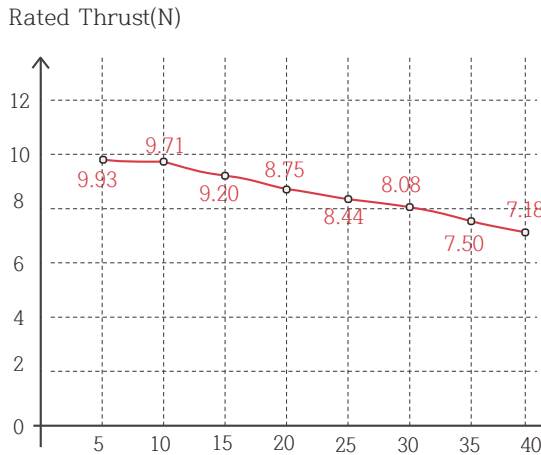
GAS-LAA1640-01-48



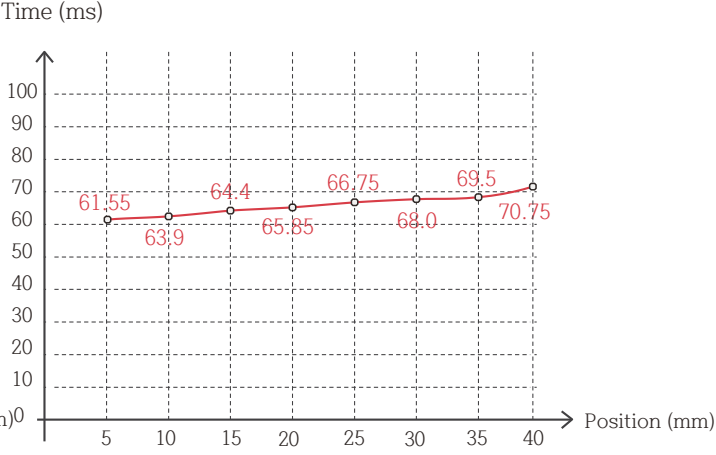
» TECHNICAL PARAMETERS

Model	Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LAA1640-01-48	48	208x99x16	600	Pulse / EtherCAT
Linear Axis(Z)				
Effective Stroke (mm)	40	Speed(mm/s)	800	
Peak Thrust (N)	30	Acceleration(G)	8	
Rated Thrust(N)	See figure	Encoder(μm)	0.1(μm) (incremental)	
Force Constant (N/A)	6.8	Accuracy (μm)	±3	
DC Resistance (fi)	6.5	Linear Straightness(μm)	±3	
Maximum Current (Amp)	3.6	Inductance(mH)	0.82	
Continuous Current (Amp)	1.3	-	-	

GAS-LAA1640-01-48 정격 추력



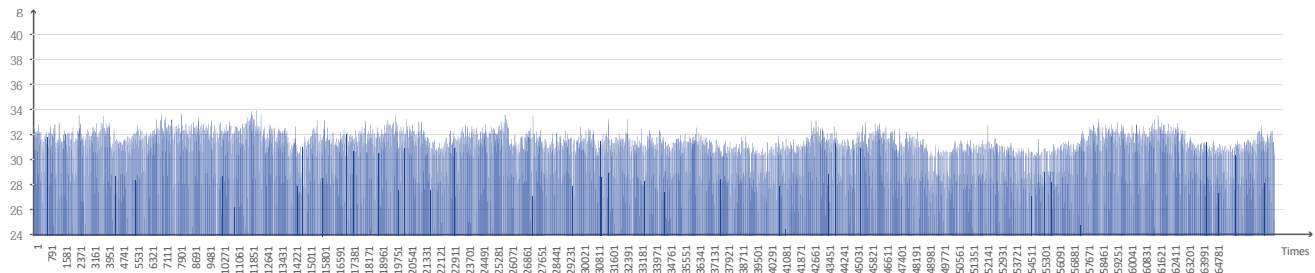
GAS-LAA1640-01-48 Full-axis 구동 시간
(Speed : 800mm/s Acceleration : 8G)



» FORCE CONTROL

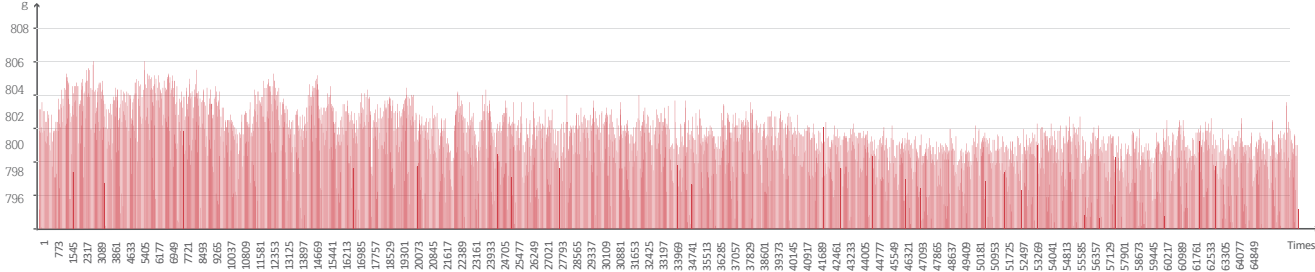
30g Force Control : 30g-3g+4g

Speed : 2mm/s , Stroke : 38.3mm
Cycle Time : 547ms (Compress Time : 200ms)

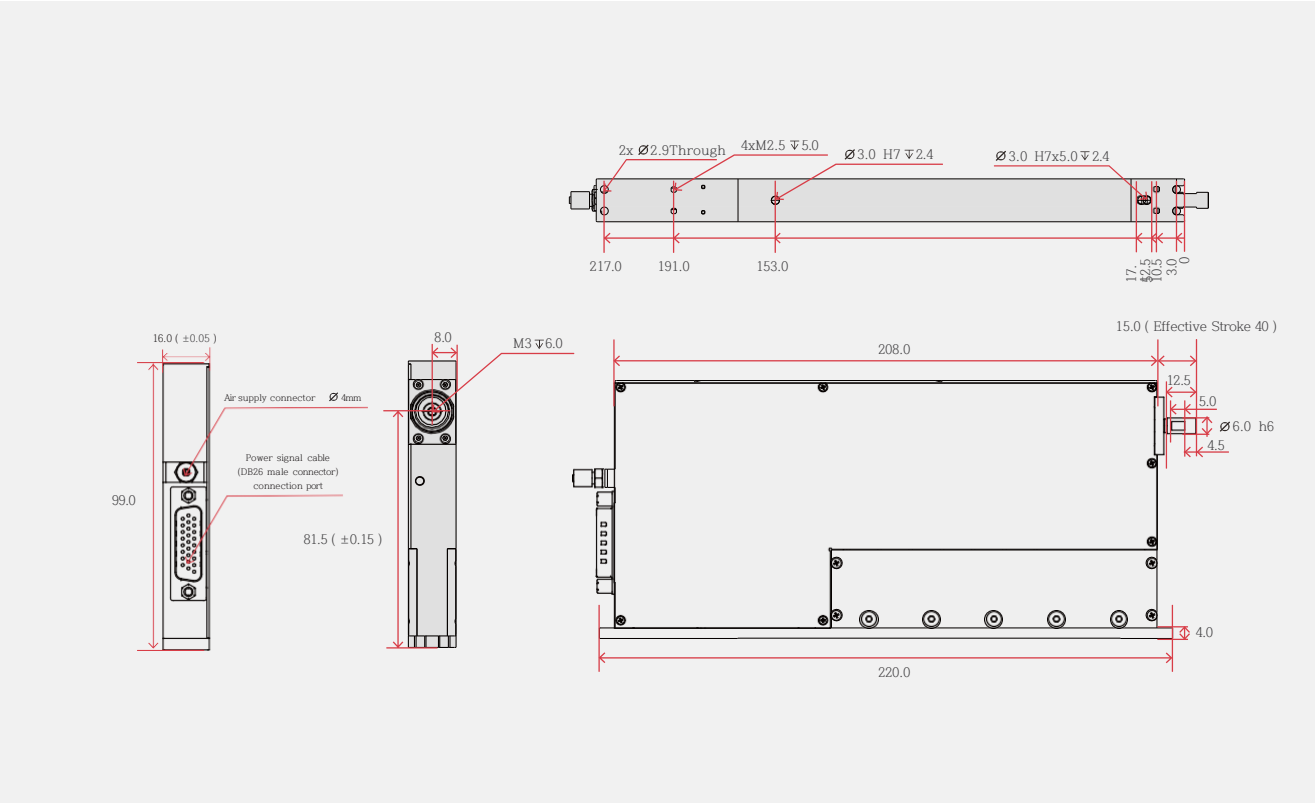


800g Force Control : 800g+6g

Speed : 2mm/s , Stroke : 38.3mm
Cycle Time : 769ms (Compress Time : 200ms)



» 2D DIMENSION DRAWING



Linear Motor

GAS-LAA1640-01-48-LSI

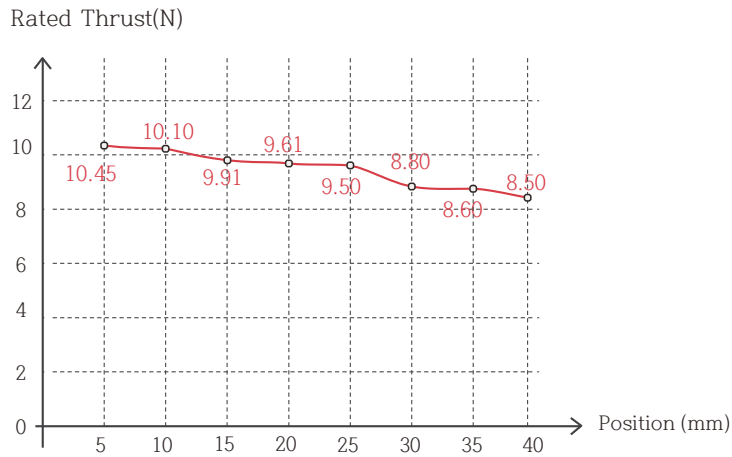


» 技术参数

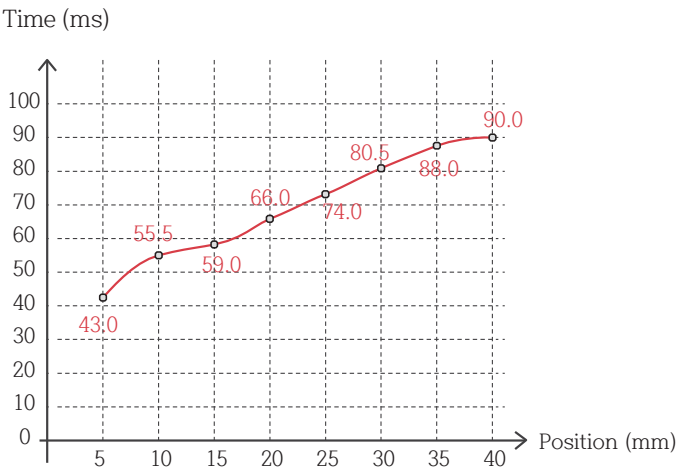
TECHNICAL PARAMETERS

Model	Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LAA1640-01-48-LSI	48	196x89x16	600	Pulse / EtherCAT
Linear Axis(Z)				
Effective Stroke (mm)	40	Speed(mm/s)	800	
Peak Thrust (N)	28	Acceleration(G)	8	
Rated Thrust(N)	See figure	Encoder(μm)	0.1(μm) (incremental)	
Force Constant (N/A)	6.8	Accuracy (μm)	±3	
DC Resistance (fi)	6.5	Linear Straightness(μm)	±3	
Maximum Current (Amp)	3.6	Inductance(mH)	0.82	
Continuous Current (Amp)	1.3	-	-	

GAS-LAA1640-01-48-LSI 정격 추력

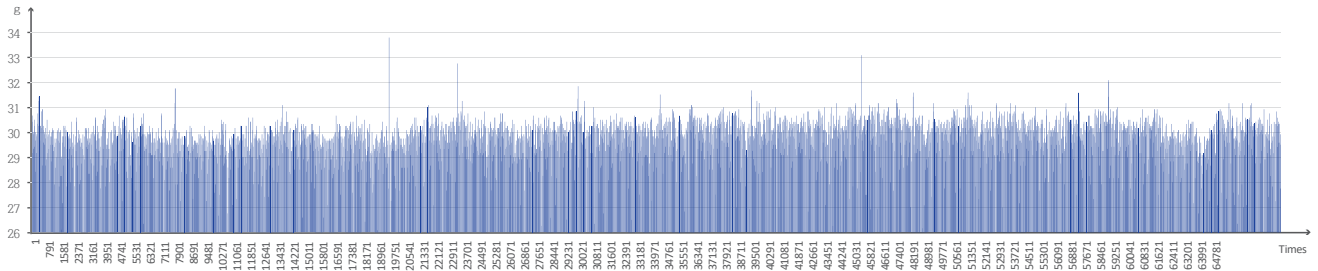


GAS-LAA1640-01-48-LSI Full-axis 구동 시간
(Speed : 800mm/s Acceleration : 8G)

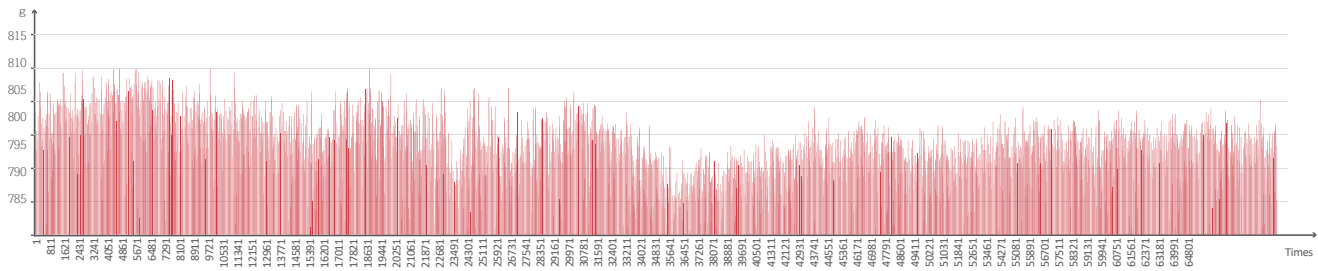


» FORCE CONTROL

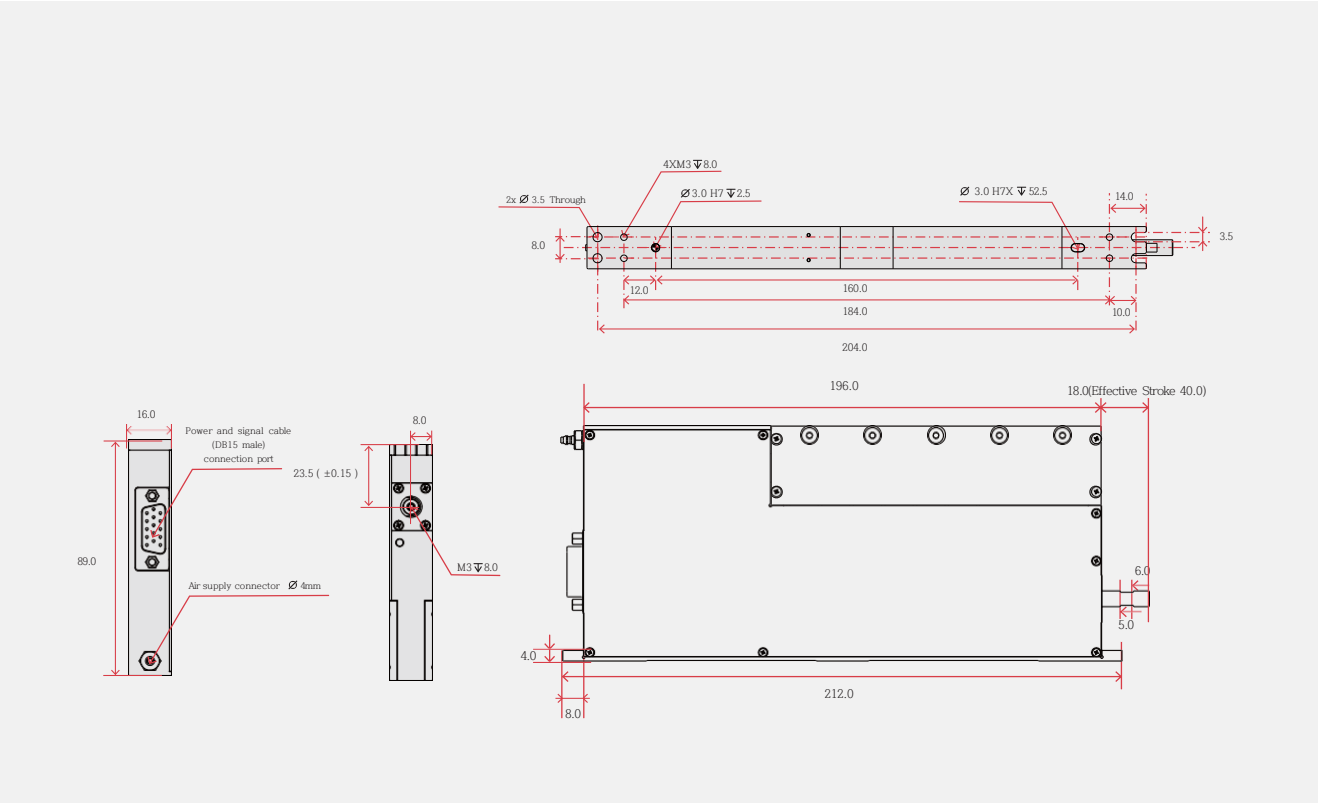
30g Force Control : 30g-1g+4g



800g Force Control : 800g± 10g



» 2D DIMENSION DRAWING



Linear Motor

GAS-LAA2510-01-48

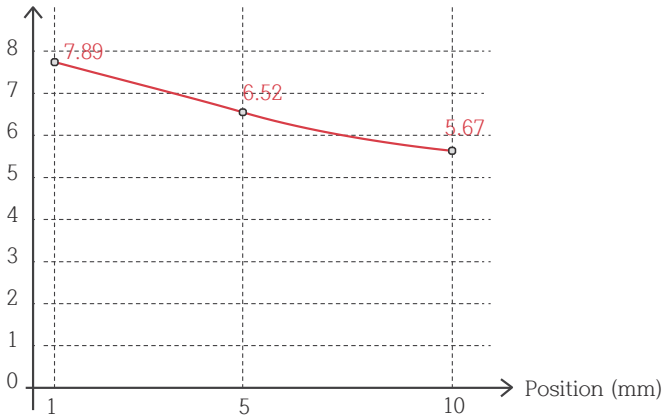
TECHNICAL PARAMETERS



Model	Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LAA2510-1-48	48	70X55.4X25	295	Pulse / EtherCAT
Linear Axis(Z)				
Effective Stroke (mm)	10	Speed(mm/s)	800	
Peak Thrust (N)	12	Acceleration(G)	8	
Rated Thrust(N)	See figure	Encoder(μm)	0.1(μm) (incremental)	
Force Constant (N/A)	3.82	Accuracy (μm)	±3	
DC Resistance (fi)	15.6	Linear Straightness(μm)	±3	
Maximum Current (Amp)	3	Inductance(mH)	2.62	
Continuous Current (Amp)	1.2	-	-	

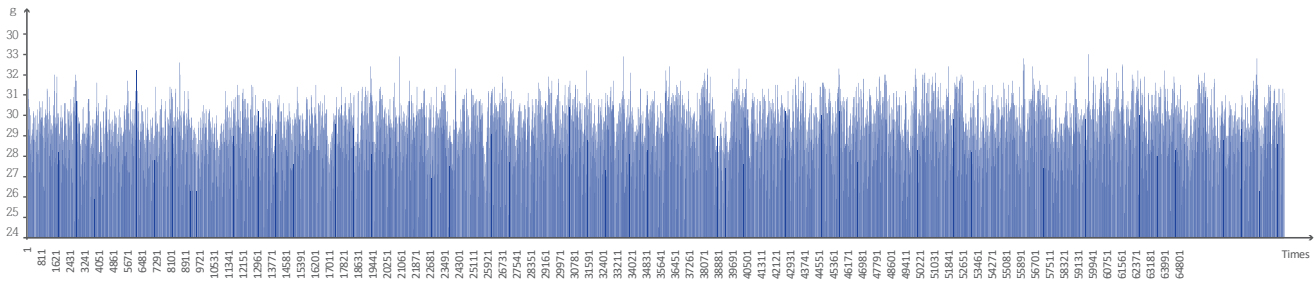
GAS-LAA2510-1-48 정격 추력

Rated Thrust(N)

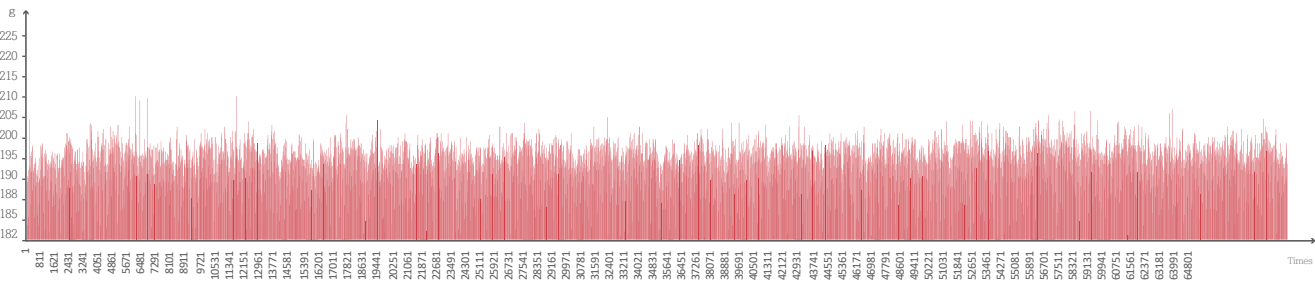


FORCE CONTROL

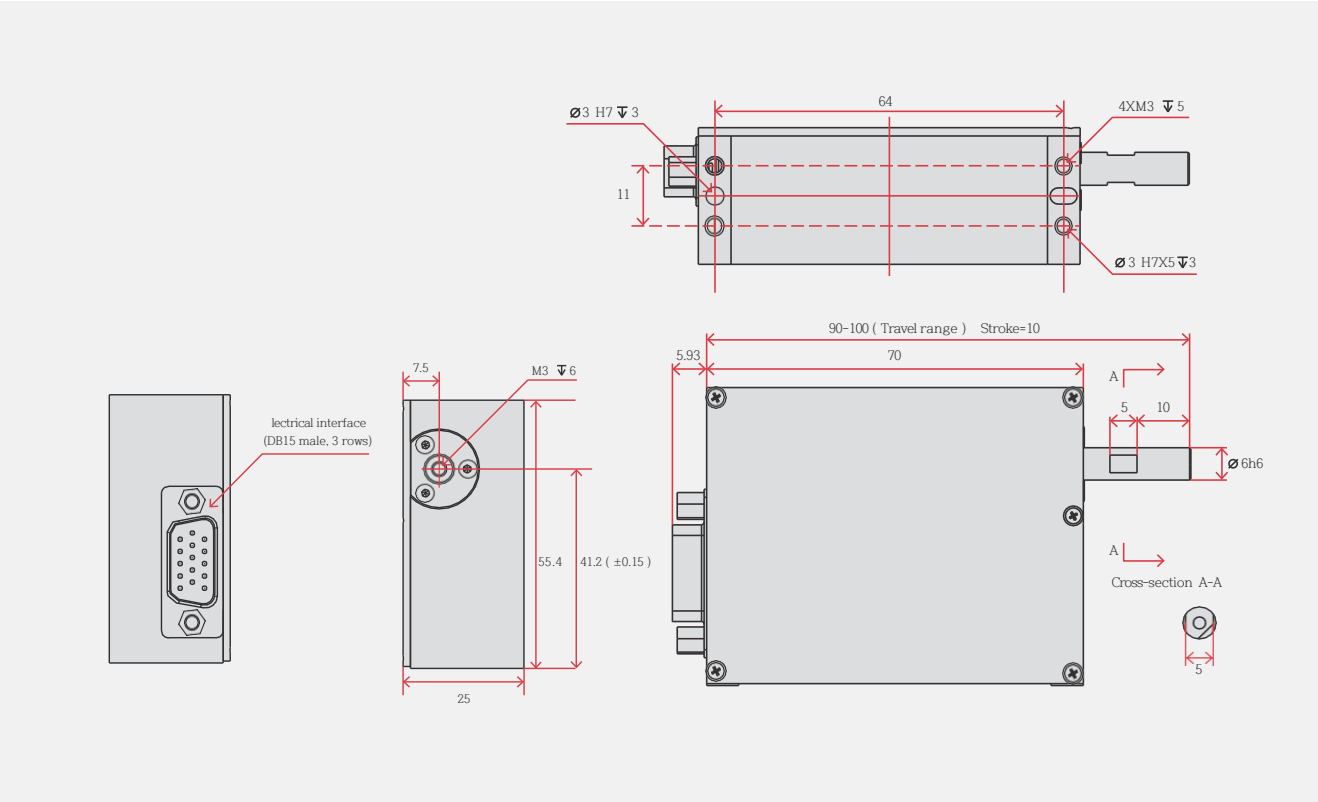
30g Force Control : 30g-3g+3g



200g Force Control : 200g-10g+10g



2D DIMENSION DRAWING



Linear Motor

GAS-LAA4510-1-48 (Driver Integrated)

» TECHNICAL PARAMETERS

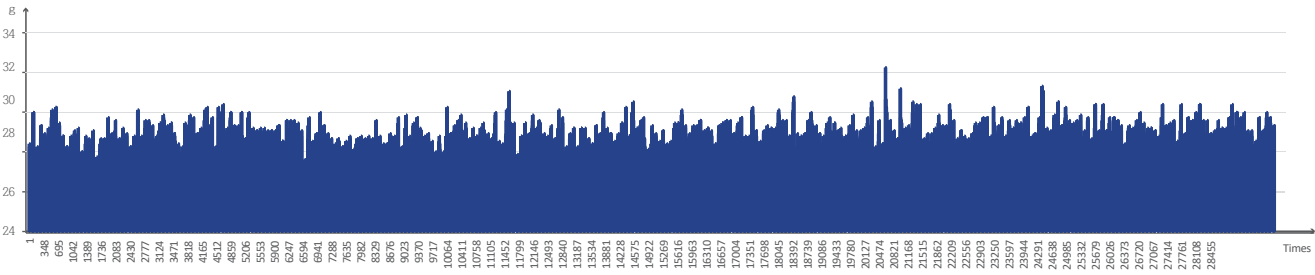


Model	Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LAA4510-1-48	48	137x78x45	816	Pulse / EtherCAT
Linear Axis(Z)				
Effective Stroke (mm)	10	Speed(mm/s)	800	
Peak Thrust (N)	13	Acceleration(G)	8	
Rated Thrust(N)	See figure	Encoder(μm)	0.1(μm) (incremental)	
Force Constant (N/A)	12	Accuracy (μm)	±3	
DC Resistance (fi)	22	Linear Straightness(μm)	±3	
Maximum Current (Amp)	3	Inductance(mH)	7.5	
Continuous Current (Amp)	1.2	-	-	

» FORCE CONTROL

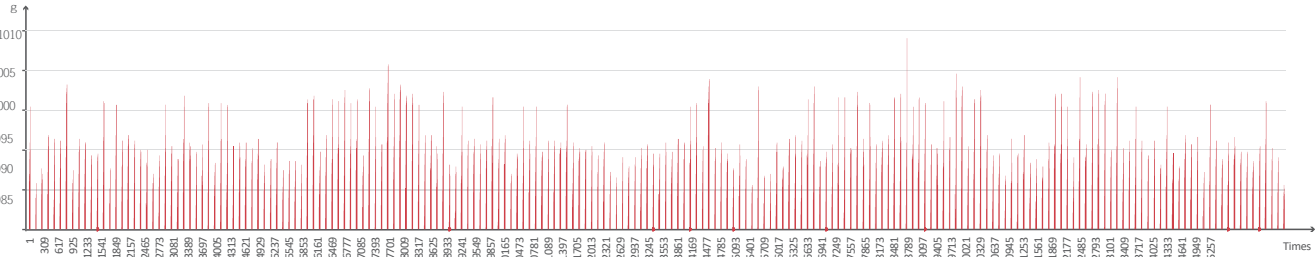
30g Force Control : 30g±3g

Speed : 2mm/s , Stroke : 8mm
Cycle Time : 550ms (Compress Time : 200ms)

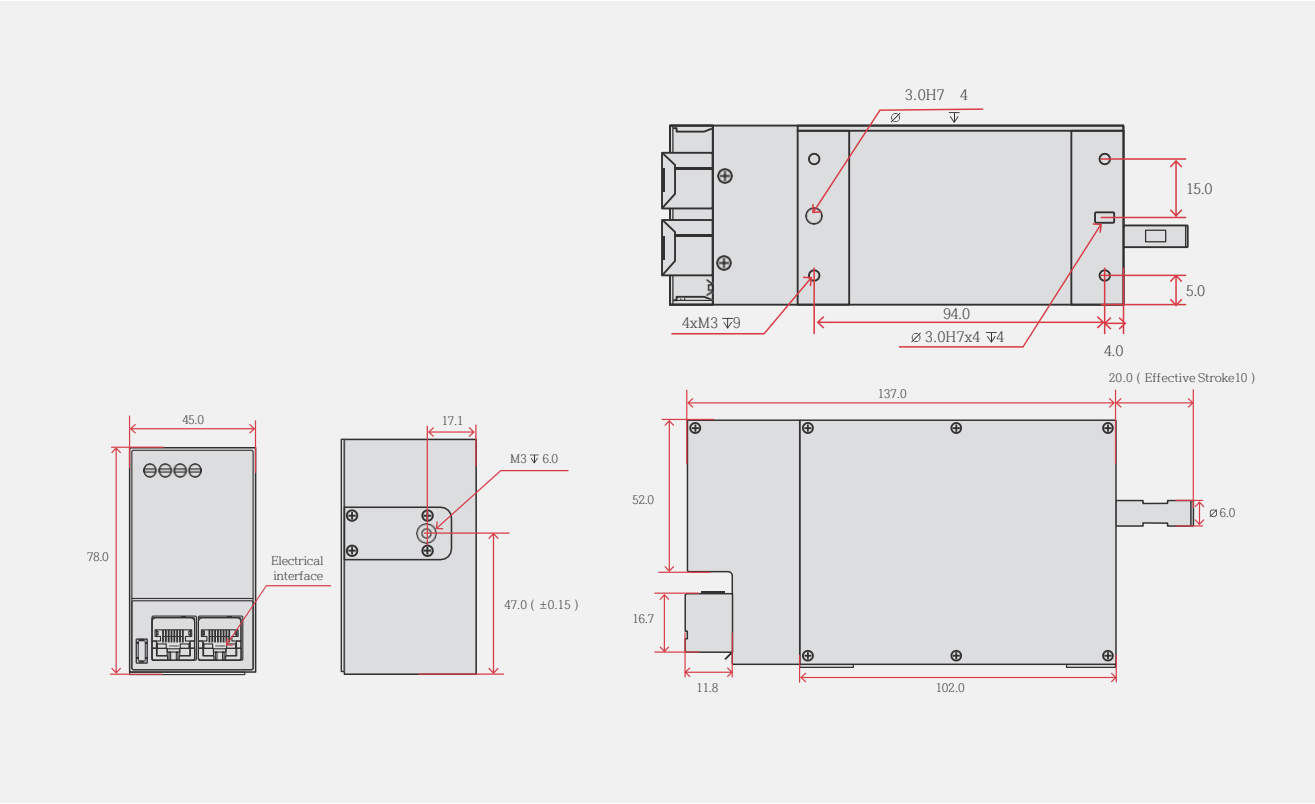


1000g Force Control : 1000g±10g

Speed : 2mm/s , Stroke : 8mm
Cycle Time : 582ms (Compress Time : 200ms)

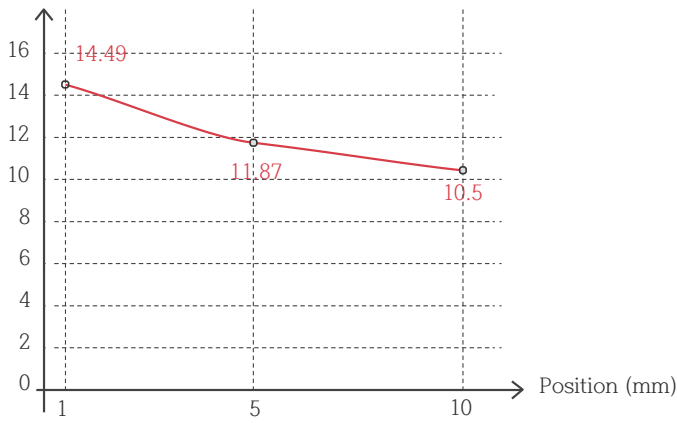


» 2D DIMENSION DRAWING

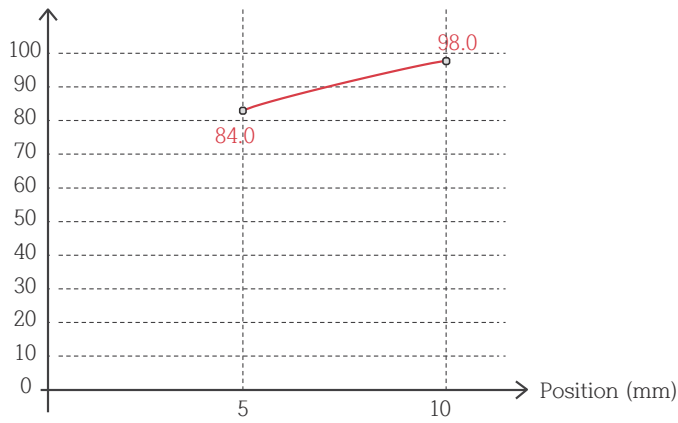


GAS-LAA4510-1-48 정격 추력

Rated Thrust(N)



GAS-LAA4510-1-48 Full-axis 구동 시간
(Speed : 800mm/s Acceleration : 8G)
Time (ms)



Linear Motor

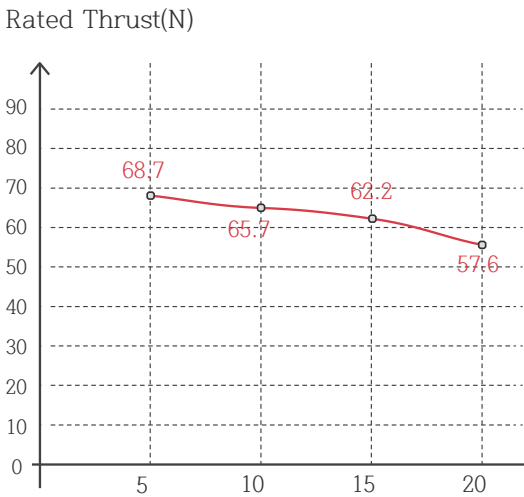
GAS-LAA5520-01-48

TECHNICAL PARAMETERS

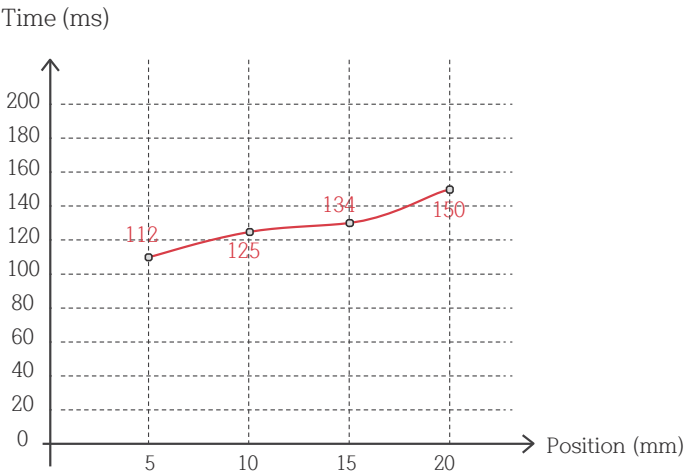
Model	Voltage(VDC)	Size(mm)	Weight(g)	Driver
GAS-LAA5520-01-48	48	230x180x55	5350	Pulse / EtherCAT
Linear Axis(Z)				
Effective Stroke (mm)	20	Speed(mm/s)	600	
Peak Thrust (N)	105	Acceleration(G)	8	
Rated Thrust(N)	See figure	Encoder(μm)	0.1(μm) (incremental)	
Force Constant (N/A)	28.5	Accuracy (μm)	±3	
DC Resistance (fi)	92	Linear Straightness(μm)	±3	
Maximum Current (Amp)	9.2	Inductance(mH)	7	
Continuous Current (Amp)	2.3	-	-	



GAS-LAA5520-01-48 정격 추력



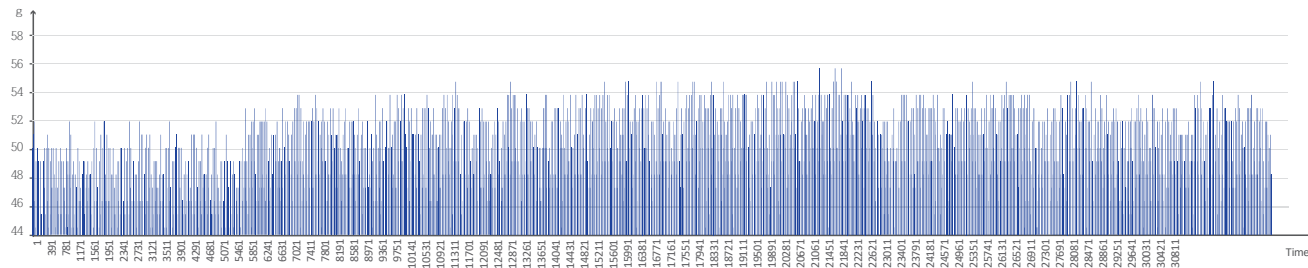
GAS-LAA5520-01-48 Full-axis 구동 시간
(Speed : 600mm/s Acceleration : 7G)



FORCE CONTROL

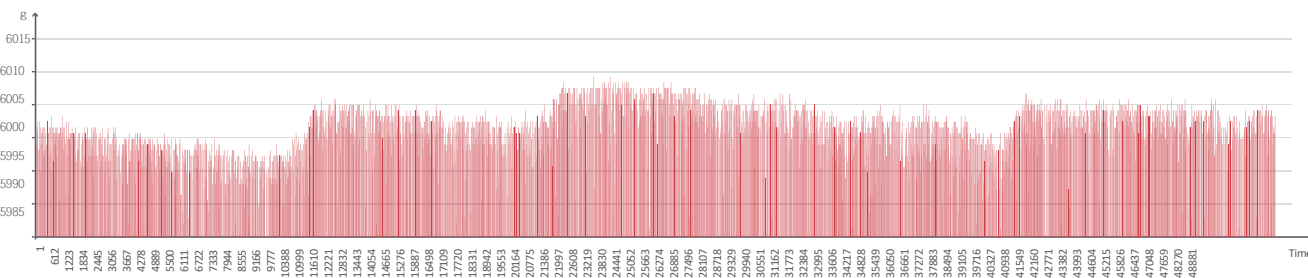
50g Force Control : 50g+6g-4g

Speed : 2mm/s , Stroke : 19.2mm
Cycle Time : 684ms (Compress Time : 200ms)

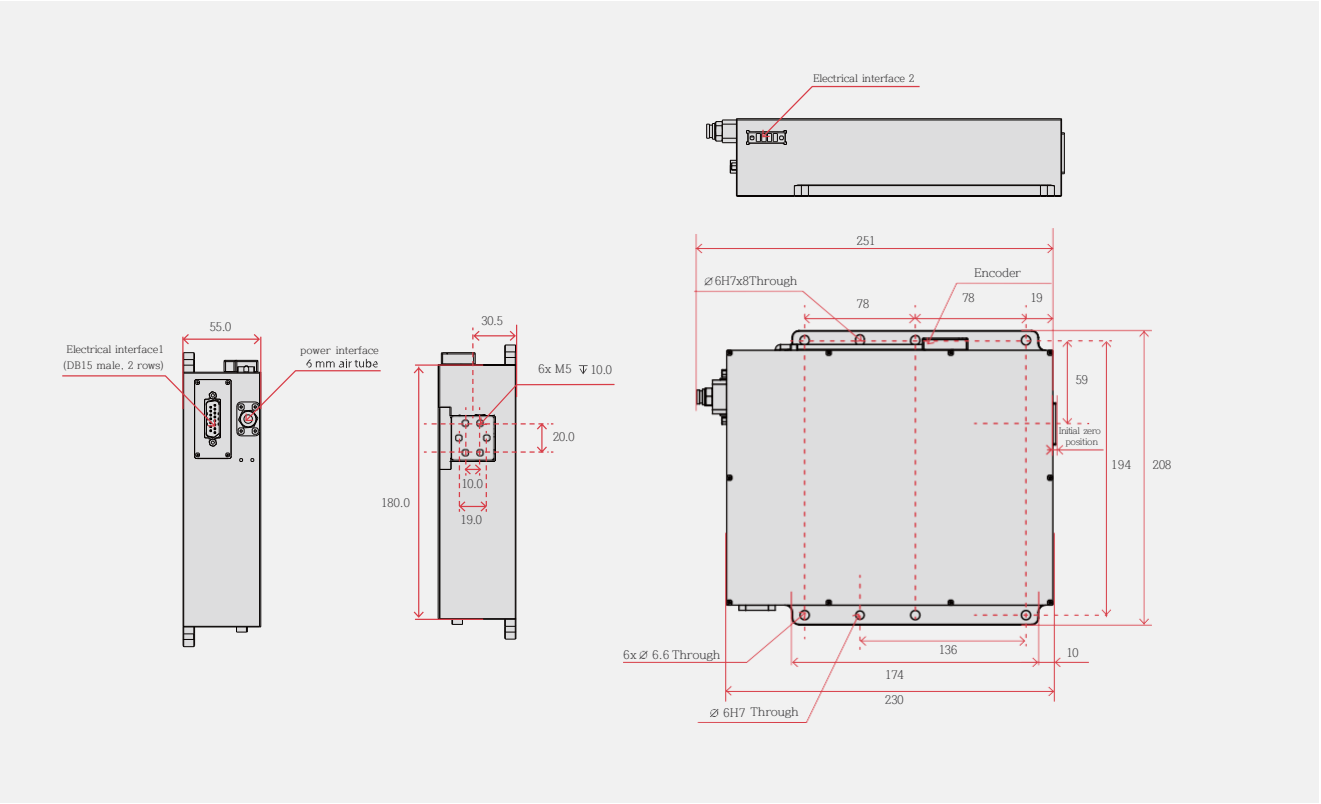


6000g Force Control : 6000g+10g-15g

Speed : 2mm/s , Stroke : 19.2mm
Cycle Time : 1004ms (Compress Time : 200ms)



2D DIMENSION DRAWING



ZT Dual-Axis Precision Platform

GAS-ZT-10-120



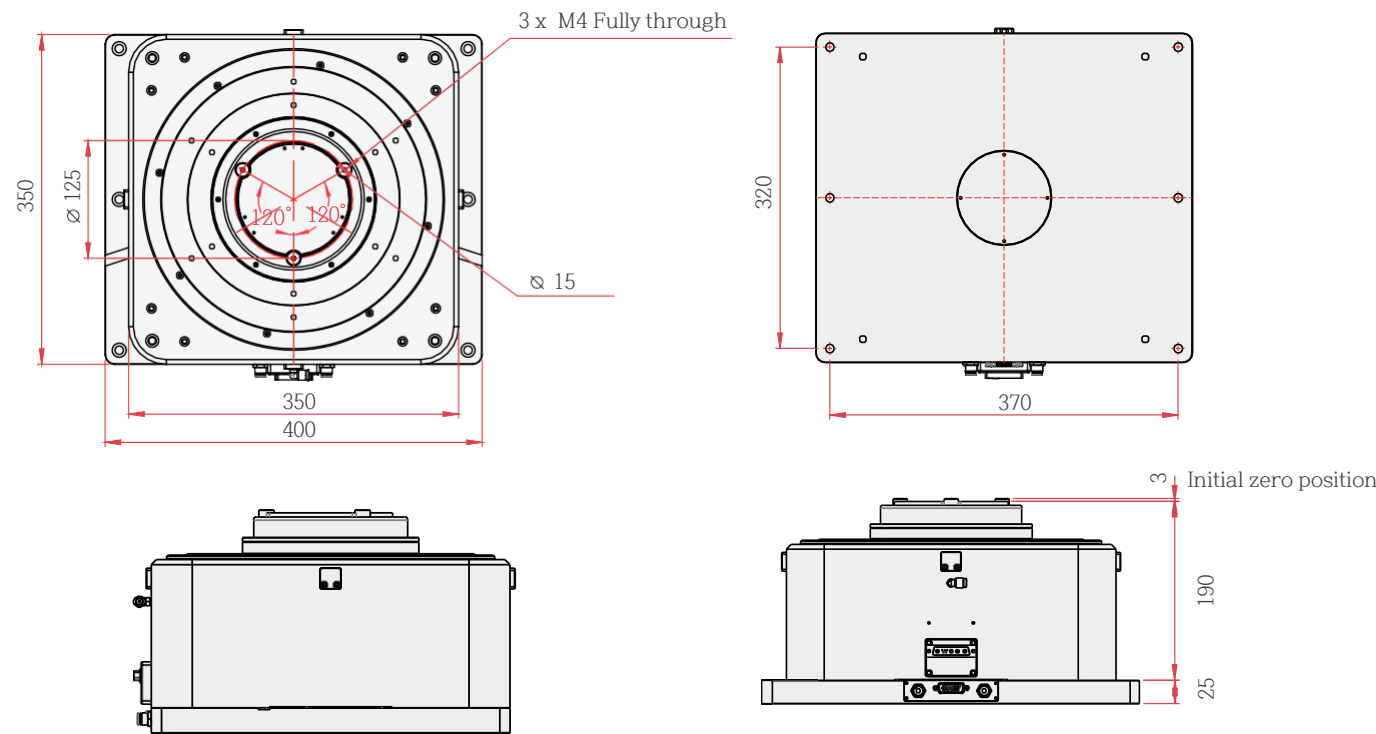
» TECHNICAL FEATURES

- Air-flotation 구조 적용
- 우수한 동적 성능을 기반으로 정밀 제어와 빠른 응답 구현
- 단일 무버 기반 리니어 + 회전 이축 복합 모션
- 고추력·고토크·고하중 대응 가능
- Single-Mover Dual-DOF 모터용 디커플링 제어 기술

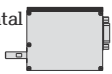
» TECHNICAL PARAMETERS

Model	Voltage(VDC)	Size(mm)	Weight(Kg)	Rated load (kg)
GAS-ZT-10-120	48	400X350X218	75	5
Linear Axis(Z)		Rotary Axis(R)		
Stroke(mm)	10	Stroke(°)	360	
Max Thrust(N)	120	Peak Torque(N·m)	40	
Continuous Thrust(N)	60	Continuous Torque(N·m)	16	
Max Speed(m/s)	0.1	Max Speed(rad/s)	10.47	
Max Acceleration(m/s ²)	1.5	Max Acceleration(rad/s ²)	100	
Static Stability(nm)	±10	Static Stability(arcsec)	±3.2	
Positioning Accuracy(μm)	±3	Positioning Accuracy(arcsec)	±3.45	
Positioning Accuracy(μm)	±0.15	Positioning Accuracy(arcsec)	±2.65	
Tilt Error(urad)	±5.6	Tilt Error(urad)	±5.6	

» 2D DIMENSION DRAWING



Motor Selection

Motor Selection Form				
Customer name		Contact person		Application
Contact phone		Position		City
Project name		Project description		Detailed address
Technical Requirements (Linear Axis)				
Stroke (mm)		Max thrust (N)		Max acceleration (G)
Continuous thrust (N)		Straightness (mm)		Force control accuracy (N)
Motion time (ms)		Travel distance (mm)		Repeatability (μm)
Encoder resolution (μm)	☐ 0.1μm	☐ 0.5μm	☐ 1μm	☐ 5μm
Technical Requirements (Rotary Axis)				
Max torque (mN·m)		Rotary encoder		Max speed (rpm)
Repeatability (arcsec)		Radial runout (mm)		Rotation angle (°)
Rated Torque (mN.m)		Rotation time (ms)		
Load	Load weight (g)	Load description		
	Mounting & motion direction	Horizontal  Vertical (downward)  Vertical (upward) 		
	Connection method (motor shaft / slider)			
Driver	Customer-supplied driver	Supplier-provided driver (specified brand)		
	Communication with controller	☐ Pulse	☐ EtherCAT	☐ Others
Others	Cable length (m)	Operating temperature (°C)		
	Remarks			

Operating Information

Precision equipment

본 모터는 초고정밀 구동 장치이므로, 설치 및 디버깅 시 충돌이나 외부 충격이 발생하지 않도록 주의하십시오. 특히 모터 샤프트에 충격 하중이 작용할 경우, 내부 구동부 및 베어링 정렬에 영향을 주어 위치 정밀도, 반복 정밀도 및 제품 성능 저하가 발생할 수 있습니다.

Active warning

본 장치는 정밀 전기 구동 장치로, 관련 전문 지식을 보유한 기술 인력에 한하여 사용 및 운용해야 합니다. 장치의 점검 또는 유지보수 작업 전에는 작업자 안전과 장비 손상 방지를 위해 본 장치, 주변 장치 및 연결 장치의 전원 공급을 반드시 차단한 후 작업을 진행하십시오.

Disassembly prohibited

당사 제품에 적용된 표준 부품 및 구성품은 임의로 분해할 수 없으며, 제품의 개조·변형·추가 가공은 금지됩니다. 모터 설치 환경 또는 운용 조건에 특수 사양이 요구되는 경우, 장비 손상 및 안전사고를 방지하기 위해 반드시 당사 기술 인력과 사전 검토 후 적용하시기 바랍니다.

Motor reset

모터 구성에 적용된 엔코더는 Index 신호를 내장하고 있으며, 해당 신호를 검출하여 모터의 원점 복귀를 수행할 수 있습니다. Index 신호 기반 원점 복귀 방식은 기준 위치의 재현성이 우수하여 높은 원점 정밀도를 확보할 수 있습니다.

Safety debugging

모터 디버깅 초기 단계에서는 낮은 추력과 짧은 스트로크 조건에서 운전 상태를 먼저 확인한 후, 실제 공정 요구 조건에 따라 추력 및 변위를 단계적으로 조정하는 것을 권장합니다. 코일이 과열될 경우 액추에이터 변형이 발생할 수 있으며, 이로 인해 코일과 마그넷 하우징 간 마찰이 발생하거나 모터 단락 고장으로 이어질 수 있습니다.

Radial force

모든 모터에는 수입산 고정밀 가이드 레일이 적용되어 있으며, 모터 샤프트에 과도한 측면 하중이 가해지지 않도록 주의해야 합니다. 공정 특성상 큰 횡하중이 요구되는 경우, 고하중 대응이 가능한 Wide Slide Rail 사양으로 변경 적용할 수 있으며, 적용 가능 여부 및 세부 사양은 당사 기술 담당자와 협의 후 선정하는 것을 권장합니다.

Maximum thrust

안전 전류 범위 내에서 모터가 출력할 수 있는 힘을 의미합니다. 토크 모드에서는 모터 과열로 인한 비가역적 고장을 방지하기 위해 최대 추력을 장시간 출력하지 않아야 하며, 일반적으로 최대 추력 출력 시간은 0.5초를 초과하지 않는 것을 권장합니다.

High-intensity magnetic

당사 제품에는 강한 자성이 포함되어 있으므로, 전자기기 및 자성에 의해 손상될 수 있는 물품을 제품 근처에 두지 마십시오. 작업자는 제품의 강한 자성에 대해 충분히 이해한 상태에서, 요구사항에 따라 제품을 취급·설치해야 합니다.