

Life with Robot!
Not a dream anymore



HYULIM ROBOT PRODUCT CATALOG

제조업용 로봇

About HYULIM ROBOT



2016 ~ 2019

- Securement Infrastructure of China and India Market
- Securement Global Product by reinforcing R&D
- Company Name Change for the new business (DST Robot ▶ HYULIM Robot)

2015

- Company name changed to DST ROBOT

2014

- Released 'DRA' series, newly developed Cartesian robot.

2013

- Released the LTR for 6G generation (Vacuum Robot)

2012

- Released the New SCARA
- Released Robot Controller (iM-U series)
- Awarded President's Award in 'Korea Robot Award' (Intelligent Robot)

2011

- Completed the construction of Cheonan Factory
- Company name changed into DONGBU ROBOT

2010

- Released the mobile platform Romeo
- Released the Genibo-edu for children's education
- Released the LTR for 8G generation
- Released the Encoder stepper type DTR
- A Member of DONGBU group's affiliated companies
- Acquired AITEC (Japan).

2009

- Released Articulated coating robot for Smart phone

2008

- Released 3 models of the small clean room SCARA (DSMC series)
- Released the nut inserting robot

2007

- Released 5 models of new Desktop robots (New DTR series)
- Changed company name to DASA ROBOT Co., Ltd.
- Released the robot Dooly for public service
- Awarded from MIC for the robot Genibo (Entertainment robot)

2006

- Awarded Company technology appraisal part from MCIE
- Awarded 2006 Venture design from KIDP
- Listed on KOSDAQ (First as robot maker)

2005

- Released the Wafer Handler robots (Nano spin)
- Awarded for a superior venture company from MCIE

2004

- Released new models of SCARA (New DSM series)
- Partnership agreement for the intelligent robots development with MIC and MCIE
- Agreement for the semiconductor system development with MCIE

2003

- Opened Dasa-Shanghai coporation in Shanghai, China
- ISO9001:2000 Certified
- Selected as INNO-BIZ company

2002

- Recognized as the best Venture company by FIC
- Received GD certification from SMBA
- Received the Prime Minister's Award for SuperiorCapital Redevelopment

2001

- Released Servo & Step Controller (iMS-Jp, iM-Σ series)
- ISO9001 certified
- Selected as Technology innovation company by SMBA
- Single axis controller (iMS-Jp series) CE certified

2000

- Released 5 models of Cartesian robots (DRM series)
- Established R&D center
- Released 3 models of SCARA (DSM series)

1998-1999

- Released 3 models of Desktop robot (DTR series)
- Provide Motion controller to Mirae Coporation
- Established DASA TECH Co.,Ltd.
- Provided Robot controller to LGIS



CARTESIAN ROBOT - DRA series **New!**

10

DRA series	22 _ 35
Ballscrew Type	22 _ 35



CARTESIAN ROBOT - DRM series

38

DRM series	54 _ 81
Ballscrew Type	54 _ 71
Belt Type	72 _ 81



CLEAN ROOM ROBOT - DRMC series

84

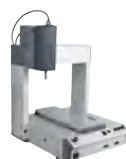
Ballscrew type	96 _ 110
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LINEAR MOTOR ROBOT - DLM series

114

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DESKTOP ROBOT - DTR series

130

Stepper Motor & Belt type	138 _ 149
Servo Motor & Ballscrew type	150 _ 158



SCARA - DSA series CLASS10

160

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TRANSFER ROBOT - AR-Series

178

Wafer Transfer Robot (AR-Series)	180 _ 183
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SINGLE AXIS CONTROLLER - iMS-Jp series **200**

iMS-Jp series	200 _ 205
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MULTI AXES CONTROLLER - iM-U series **206**

iM-U series	206 _ 213
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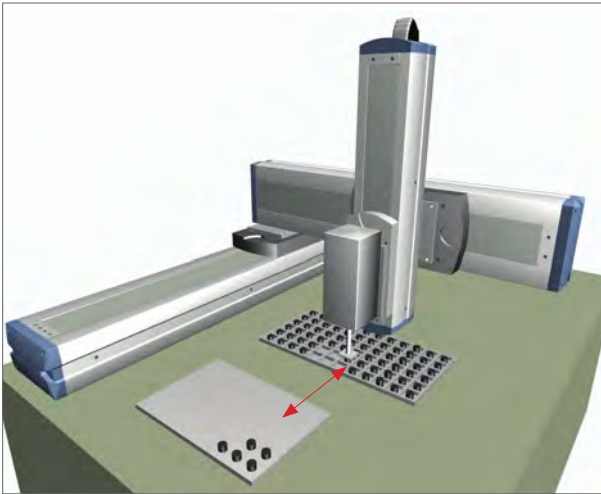
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APPLICATIONS (DRA, DRM, DRMC, DLM Series)

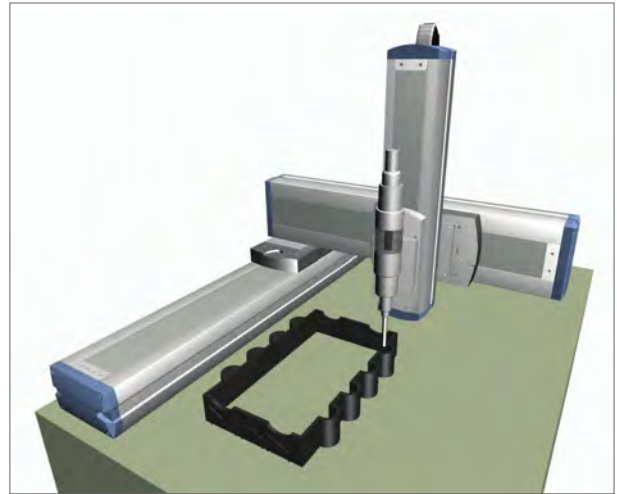
Palletizing



Work pieces taken out of the pallet and parts are transferred to the specific place

작업물을 Pallet에서 지정된 적재공간으로 이재 작업

Adhesive



2D and 3D linear and circular interpolation sealing applications are possible

2D(평면), 3D(입체), 직선, 원/원호보간등의 실링 작업

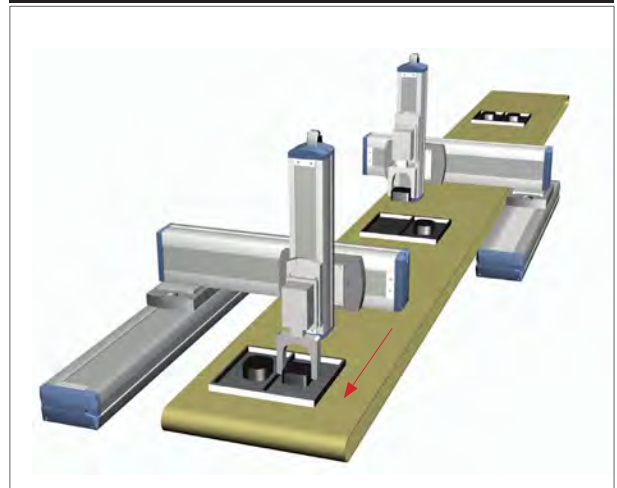
Transfer



Transfer, load and unload of heavy work pieces

고하중 작업물의 이송 작업 (load, unload)

Conveyor



Applications such as pick&place, inspection on the conveyor system

컨베이어 시스템에서의 이송 및 검사 등의 다양한 응용 작업

Dispensing



High performance of 2D and 3D linear and circular interpolation sealing and adhesion, coating
2D(평면), 3D(입체), 직선, 원/원호보간등의 실링, 접착, 코팅작업

Screw tightening



Fastening and unfastening screws into electric components and automotive parts
전자제품, 자동차 부품들의 나사 체결작업

Cutting



PCB cutting without stress and cracks
PCB 절단 (라우팅) 작업

Vision inspection



Checking PC boards for mounting defects
Provides easy teaching and automatic transfer function for off-positioned work piece on the fixture with CCD camera and height sensor
PC 보드의 마운트 검사
CCD 카메라와 거리센서를 이용하여 작업물의 위치 보상 및 이송작업을 용이하게 수행

DRA series

DRM series

DRMC series

DLM series

DTR series

DSA series

Transfer Robot

iMS-Jp series

iM-U series

ACCESSORIES

Palletizing / Assembly



Transfer work pieces between pallets

팔레트간 운반 작업

In line assembly and independent cell unit assembly

인라인 및 독립된 작업공간에서의 조립작업

Sealing / Screw tightening



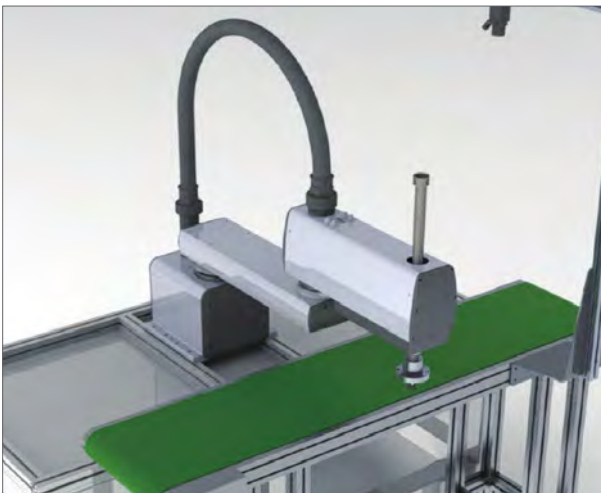
Sealing, adhesion application using 3D interpolation

3차원 보간기능을 이용한 실링 및 접착 작업

Provide higher performance to screw tightening application using torque control

토크 조절 기능을 이용한 정교한 나사 체결

Vision Tracking

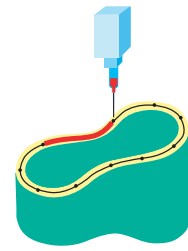


Vision Tracking using a camera feed conveyor speed, implement position control

비전카메라를 이용한 컨베어 이송 Tracking으로 속도, 위치 제어를 구현

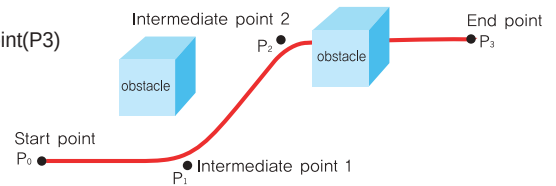
3-dimensional Circular Path

- Function : 3D linear and circular interpolation with high speed and high accuracy
- Controller : iM-U



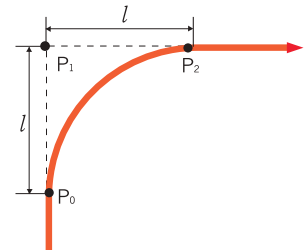
Pass Motion

- Function : If there are obstacles on traveling path, it is possible to detour intermediate points (P1, P2) with arc path to arrive at the end point(P3) much faster without passing intermediate points(P1, P2) when they are set up as pass points(P1, P2)
- Controller : iM-U



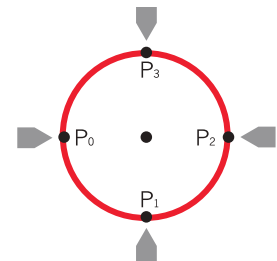
Turn Motion

- Function : This function indicates arc interpolation between P0 and P2. The linear distance(l) from junction point(P1) to P0 or P2 is possible to be set by 0.1mm. This function is highly useful for sealing application.
- Controller : iM-U



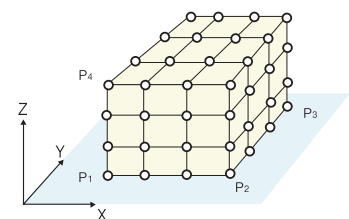
R-axis compensation

- Function : To force the direction of tool placed at an R-axis to keep the same direction to an object when R-axis is rotating
- Controller : iM-U



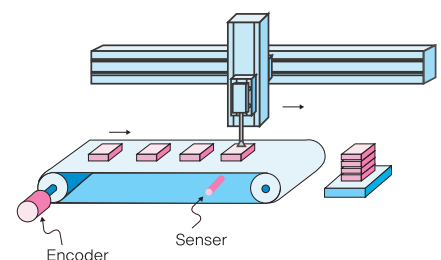
3D Palletizing

- Function : This function indicates 3D palletizing. The pallet is defined by four edge positions P1, P2, P3, and P4 and the numbers of array for each direction of P1-P2, P2-P3, and P1-P4.
- Controller : iM-U



Synchronous control

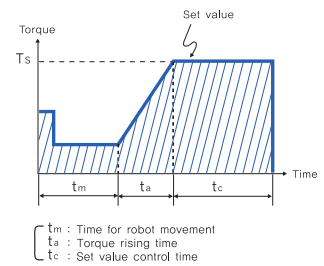
- Function : A function that synchronizes a robot motion to a moving conveyor so as to pick and place objects moving on the conveyor. Read the MPG from encoder of conveyor and moving according to speed of conveyor. Just single axis is available for this function. It is different from the Tracking function.
- Controller : iMS-Jp



APPLICATIONS iM-U series

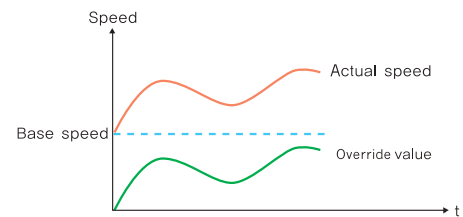
Torque control

- Function : When a robot is doing grip, grind, and positioning, it makes robot maintain torque value until robot approaches torque value by presetting to limit the force of robot
- Controller : iMS-Jp



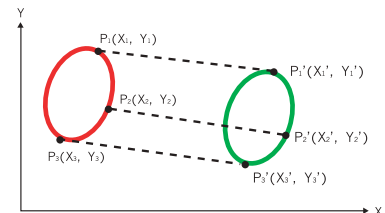
Speed override

- Function : A function that adjusts the motion speed by analog signal from an external device
- Controller : iMS-Jp, iM-U



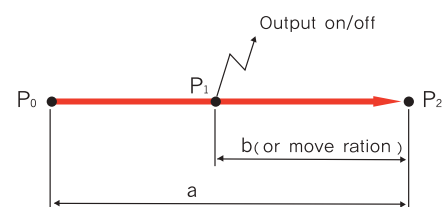
Teaching Point shift

- Function : A function to get the same motion at a shifted position. Useful to apply one set of teaching points to the plural objects with same shape.
- Controller : iM-U



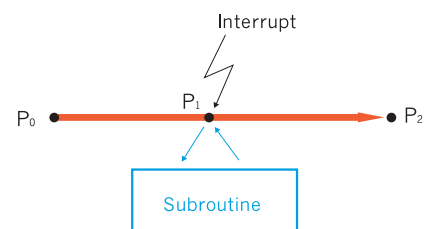
Parallel operation

- Function : A function to control an output port(On or Off) at specified position while a robot is moving.
- Controller : iM-U, iMS-Jp



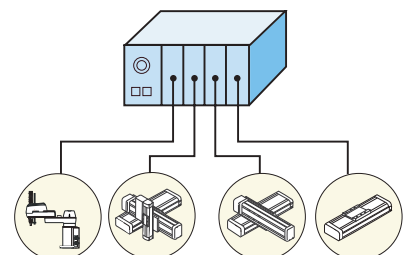
Conditional branch

- Function : When a robot receives specific signal (at P1) while it is moving from P0 to P2, the robot immediately performs it as subroutine branch and return to P1 and continue moving to P2.
- Controller : iM-U



Multi-tasking operation

- Function : A function that one controller executes simultaneously a few robot programs independently
- Controller : iM-U



Reference that required attention when you select robot. (주의 사항)

1. Absolute positioning accuracy and Positioning repeatability (절대 위치 정밀도 및 반복 위치 정밀도)

Absolute positioning accuracy (절대 위치 정밀도)

Absolute positioning accuracy is the difference between a commanded value and the measured value

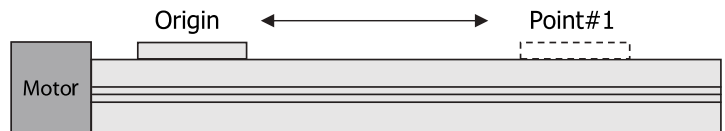
(이동한 임의의 위치값과 실측값의 차이를 나타냅니다.)



Positioning repeatability (반복 위치 정밀도)

Positioning repeatability is not the same as “absolute accuracy”. It refers to the positioning accuracy of repeated movement to a pre-stored position

(반복 위치 정밀도는 '절대 위치 정밀도'와 다른 의미입니다. 반복 위치 정밀도는 이미 저장된 위치로의 반복적인 이동에 대한 위치 정밀도를 나타냅니다.)



2. Origin (원점)

Origin is set on the motor side for standard specifications. It is to calibrate the movement position at (0,0,0).

It is not the same as “home position”. Home position represents a desired waiting position after origin executed and this position is set by user. If there is no origin sensor, limit sensor near to motor is designated as the origin.

If you want the origin to be the limit sensor on the opposite side of motor, it is object to be discussed in advance.

(원점 센서는 표준 제품의 경우 모터 측에 설치되어 있으며, 원점은 좌표상에서 (0,0,0)의 위치를 의미합니다. 이는 “Home position”과는 다른 의미이며, Home position은 원점 수행 후 작업 시작을 위해 대기하는 기준점을 의미합니다. 원점 센서가 없을 경우, 모터측에 설치되어 있는 Limit sensor를 원점으로 사용할 수 있습니다. 모터 측 반대편을 원점으로 사용하고자 할 경우에는 사전에 제품 규격 협의가 필요합니다.)

3. Maximum speed by stroke (Stroke별 최고 속도)

If the stroke of cartesian robot gets longer, the maximum speed of Ballscrew decreases in reverse proportion because the number of permissible rotation is different. Please refer to the maximum speed on the specification chart before you select Ballscrew type of cartesian robot.

(직각 좌표형 로봇의 경우 stroke이 길어질 수록 Ballscrew의 최대 허용회전수가 상대적으로 줄어들어 최고속도가 저하됩니다. Ballscrew를 채용한 타입의 각 모델의 최고 속도는 반드시 사양표를 확인하여 주시기를 바랍니다.)

4. Straightness and flatness of robot (Robot의 평탄도)

Flatness (평탄도)

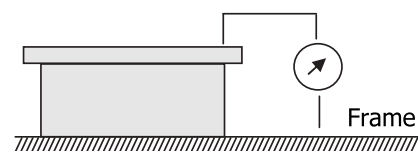
Parallelism between the upper end of slider and the lower end of base: Less than $\pm 0.05\text{mm/m}$

(본체 자체의 기준면인 Base하단 면과 슬라이드 상단면의 평탄도는 $\pm 0.05\text{mm/m}$ 이하입니다.)



Flatness of frame compared to the upper end of slider: Less than $\pm 0.05\text{mm/m}$

(따라서 로봇 본체가 System에 취부시 취부면과 본체 슬라이드 상단면 사이에는 $\pm 0.05\text{mm/m}$ 이하의 평탄도가 요구됩니다.)



APPLICATIONS Reference

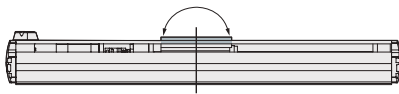
Moment

Each allowable load moment is calculated by assuming the service life of the LM guide as 10,000km.
Applying a moment exceeding the specific value will reduce the service life of LM guide. The moment here is dynamic moment

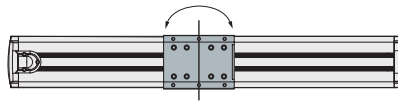
(허용 부하 Moment는 LM가이드의 수명을 10,000km로 적용했을 때 값입니다.)

허용 Moment를 초과하여 사용할 경우 LM가이드의 수명은 단축되며, 여기에 설명되는 Moment는 Dynamic Moment 기준입니다.)

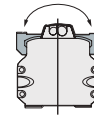
Mp : Pitching direction



My : Yawing direction



Mr : Rolling direction



1 Series

3 Model Name

4 Actuator Specifications

6 Stroke, Velocity & Robot Mass

7 Dimensions

8 Applicable controllers

2 Model Summary

DRA-70A-S

DRA70 : Ballscrew type, Base Width 70mm

[S]

Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	70A	S	100	I	10	ST50	S3
A: 1Rail 1Block No.15 B: 1Rail 2Block No.15 S: Straight LP: Motor Left RP: Motor Right BP: Motor Bottom I: Incremental 100(B): 100W(Brake) A: Absolute 05: 05mm 10: 10mm 20: 20mm 50: 50mm 100: 100mm 150: 150mm 200: 200mm 250: 250mm 300: 300mm 350: 350mm 400: 400mm 450: 450mm 500: 500mm 550: 550mm 600: 600mm 650: 650mm 700: 700mm 750: 750mm S1: In the robot by magnetic sensor S2: In the robot by magnetic sensor, Dig S3: External photo sensor 3							

* Payload 1/2 LM Guide의 4000g Type A의 1/2

Specifications

Driving Type	Ballscrew Φ12 C7	LM Guide	No.15 1Rail 1 Block	Position Repeatability	±0.02mm
Ambient Operation Temp.	0~40°C, 85%RH or less	Service Life	15,000 km		

Actuator Specifications

Model	Motor (W)	Lead (mm)	Hor. (mm)	Ver. (mm)	Push Force(N)	Max.Speed (mm/s)	Stroke (mm)	Payload by acceleration	
								Acceleration(G)	Moment(Nm)
DRA-70A-S-100-L05-1-1	100	5	50	10	400	250	50	0.3	0.4
DRA-70A-S-100-L10-1-1	100	10	30	5.5	200	500	50	0.3	0.4
DRA-70A-S-100-L20-1-1	100	20	6	3	100	1000	50	0.3	0.4

Stroke, Velocity & Robot Mass

Model	Stroke (mm)	Speed (mm/s)	Mass (kg)							
DRA-70A-S-100-L05-1-1	50	250	2.7	100	200	300	400	500	600	700
DRA-70A-S-100-L10-1-1	100	500	3.5	200	300	400	500	600	700	800
DRA-70A-S-100-L20-1-1	200	1000	4.6	300	400	500	600	700	800	900
Mass(kg) = 0.005 * Stroke + 2.5										

* Payload은 50% 기준 단위

Dimension

Technical drawing of the DRA-70A-S actuator showing various dimensions and details. The drawing includes a side view and a top view. Key dimensions include: 821287, 70A, 70B, 70C, 70D, 70E, 70F, 70G, 70H, 70I, 70J, 70K, 70L, 70M, 70N, 70O, 70P, 70Q, 70R, 70S, 70T, 70U, 70V, 70W, 70X, 70Y, 70Z. Details include: 2-82H7/D7f, 2-82H7/D7f

5 Payload by acceleration

9 Note

1 Series

Name of the series.

2 Model Summary

Brief descriptions of specifications of each series

3 Model Name

Model name of series

4 Actuator Specifications

Specification of each model

5 Payload by acceleration

Desired option(s) to be equipped on the actuator

6 Stroke, Velocity & Robot Mass

Dynamic moment is calculated by assuming the service life

7 Dimensions

The weight and speed relative to stroke

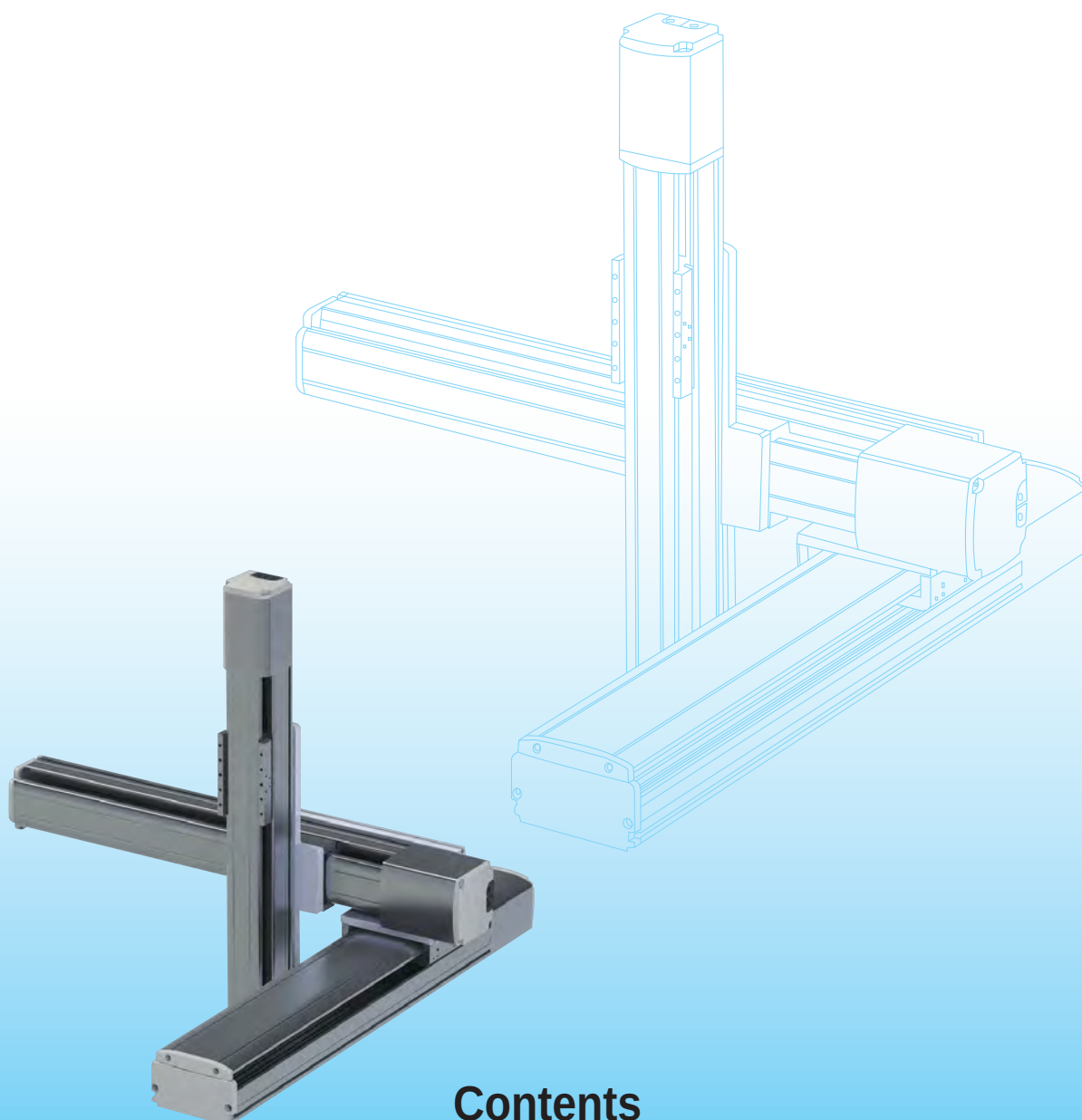
8 Applicable controllers

Applicable controllers of the model

9 Note

Specific notice and caution

New! CARTESIAN ROBOT / DRA series



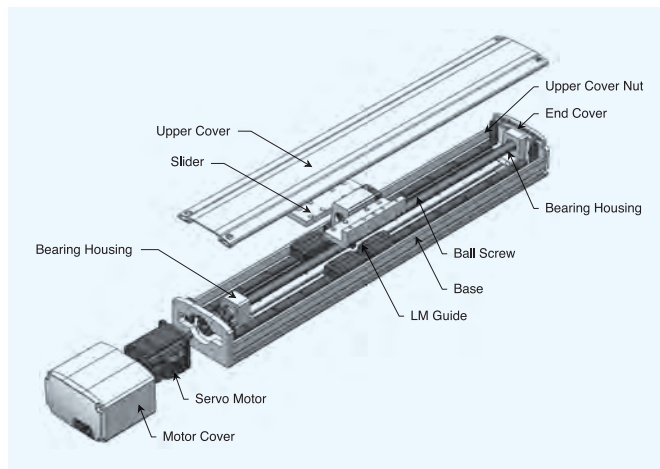
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DRA(P)70A,B ~ DRA(P)200A,B	

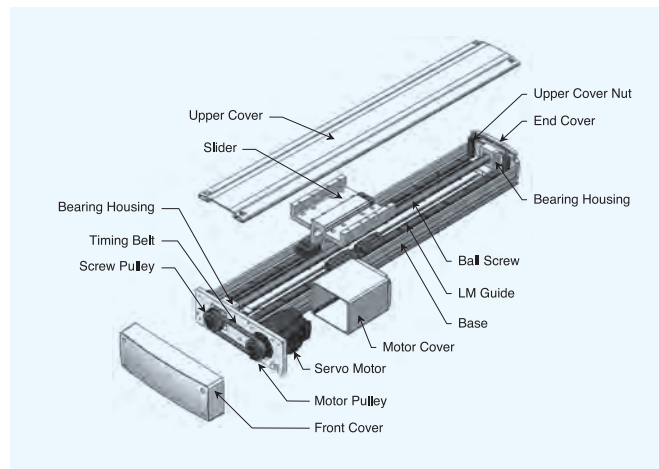
Feature

1. Structure

Straight(In-Line) type



Parallel(side mount) type



2. Feature (특장점)

- 1) 기존 자사 제품 대비 Compact한 전장, Down sizing
ex1) DRA70 (100mm 축소), DRA120 (105mm 축소)
ex2) Down sizing (DRM80 → DRA70, DRM130 → DRA120, DRM160 → DRA140)
- 2) 기존 자사 제품 대비 고강성 구조 실현
- 3) 중대형 제품군(DRA175, 200)에서 기존 제품 대비 낮은 높이 → 공간 효율성 증대
- 4) 소형 제품군(DRA70, 90)바디 강성 향상, 최대 스트로크 확대, 타사 대비 낮은 높이
- 5) 소형제품군의 측면 User slot rail 채용
- 6) 우수한 소음 특성
- 7) 투명 병렬커버 기본 채용



- 8) 유지보수 편의성 증대 – 어퍼커버 분리 편리성 확보



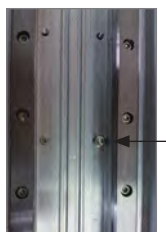
- 9) 유지보수 편의성 증대 – 유저 슬롯홈 너트 삽입 용이



- 10) 어퍼커버 강성 대폭 증대 – 처짐 및 파손방지



- 11) 로봇의 취부 상부/하부 고정방식 공용화



- 12) 유지보수가 편리한 내부 케이블 처리 구조



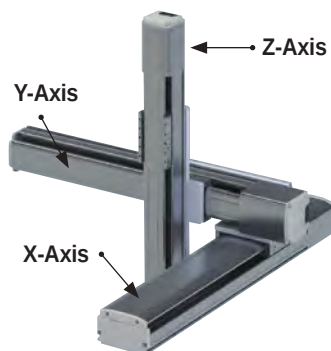
- 13) 그리스 외부주입구조 기본 채용



3. X, Y, Z -Axis Naming & Parallel type

1) X,Y, Z Axis - X,Y and Z axes are combined together depending on combination. Moment is useful as a reference for assembly.

(X,Y,Z축 조합 요청에 따라 구성될 수 있습니다. 모멘트는 조합 예시를 참조합니다.)



► X-Axis : X-axis is fixed to the worktable and payload weigh down horizontally on X-axis.

(X축 : X축은 작업테이블에 고정되며, 수평상태에서 작용되는 하중을 지지한다.)

Payload = Y&Z-Axis weight + Tool + work Weight.

(가반하중은 Y&Z축의 자중 + 작업대상물 + 툴의 무게)

► Y-Axis : Wallmounted Payload

(Y축 : 벽걸이형태에서 작용되는 하중)

Payload = Z-Axis weight + Tool + work Weight.

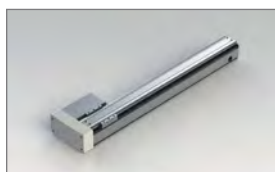
(가반하중은 Y&Z축의 자중 + 작업대상물 + 툴의 무게)

► Z-Axis : Tool is moving up and down and Payload weigh down on vertically on Z-axis.

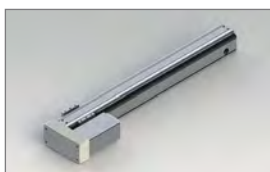
(Z축 : 툴과 작업대상물이 수직으로 작용되는 하중)



Type : S



Type : LP



Type : RP



Type : BP

4. Controller

Single axis controller and Multi axes Controller are applicable.

Controller	Model	Type	Number of controlled axis	Page
	iMS-Jp	Single axis Controller	1 axis	200
	iM-U	Multi axes Controller	2~8 axes	206

New Ballscrew Type

DRA 70~200 A(B)

■ DRA70A(B)-S



■ DRA90A(B)-S



■ DRA120A(B)-S



■ DRA140A(B)-S



■ DRA70A(B)-P



■ DRA90A(B)-P



■ DRA120A(B)-P



■ DRA140A(B)-P



■ DRA140C(D)-S



■ DRA170A(B)-S



■ DRA200A(B)-S



■ DRA140C(D)-P



■ DRA170A(B)-P



■ DRA200A(B)-P



Ordering Model

①	②	③	④	⑤	⑥	⑦	⑧	⑨
Series	Base width	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	70	A	- S	- 100	- I	- 10	- ST50	- S1

① Series

New!

Name of series : DRA series is New Cartesian Robot

DRA : New Cartesian Robot, Single axis, High stiffness, Compact Design

DRAP : New Cartesian Robot, Single axis, High stiffness, Compact Design High Precision

② Base width

The base width of each models

③ Type 1

Models type of DRA series

A, B, C, D

* This rule does not apply to DRM Series

④ Type 2

The type of actuator or drive

S : Ballscrew, Straight type (Motor in-Line type)

LP : Ballscrew, Left side parallel type (Motor side mount-Left)

RP : Ballscrew, Right side parallel type (Motor side mount-Right)

BP : Ballscrew, Rear side parallel type (Motor side mount-Bottom)

SD : Ballscrew, Dual Slider, Straight type (Motor in-line type)

DL : Ballscrew, Dual Slider, Left side parallel type (Motor side mount-Left)

DR : Ballscrew, Dual Slider, Right side parallel type (Motor side mount-Right)

B : Belt, Deceleration by Pulley

BG : Belt, Deceleration by Reducer, top side parallel type

R : Rack & Pinion

G : Guide(Slave)-axis

*Guide-axis model includes series, base width, type, and stroke in the ordering model
(Ex: DRA70-G-400)

⑤ Motor

Motor capacity(W)

(Ex : 100 = 100W) / 100B = 100W(Brake)

⑥ Encoder

A : Absolute Encoder

The current slider position will be retained even after the power is turned off, so origin return is not required when the power is turned on.

I : Incremental Encoder

The slider position data will be cleared once the power is turned off, so origin return is required whenever the power is turned on.

⑦ Lead

The speed of Ballscrew type is decided by lead length and the speed of belt type is decided by reduction gear rate.

(Ex : 05=Lead 5mm)

* 3,000RPM is maximum speed of the standard servo motor.

Speed is different by payload and operation conditions.

⑧ Stroke

The operation range of cartesian robot

(Ex : ST300=300mm)

⑨ Option

The Options to be equipped on the robot

* Sensor Option

S1 : In the robot by magnetic sensor

S2 : In the robot by magnetic sensor. Org

S3 : External photo sensor 3

* ETC Option

K : K1 seal grease for the LM guide

R : Retainer seal grease for the LM guide

Model List

New!

DRA Series

Ballscrew type(Single slider)

Series	Base width	Type 1	-	Type 2	-	Motor	-	Encoder	-	Lead	-	Stroke	-	Option
DRA DRAP	70	A, B	-	S LP RP BP	-	100	-	I A	-	05 / 10 / 20	-	50 ~ 700	-	S1 ~ S3 K R
	90		-		-	200	-		-	05 / 10 / 20 / 30	-	50 ~ 1500	-	
	120		-		-		-		-		-	50 ~ 1500	-	
	140	A, B	-		-	400	-		-	05 / 10 20 / 30 / 40	-	50 ~ 2000	-	
		C, D	-		-		-		-		-	50 ~ 1500	-	
	170	A, B	-		-	750	-		-		-	50 ~ 2000	-	
	200		-		-	750~1000	-		-		-		-	
			-		-		-		-		-		-	

Specification Table

Ballscrew type(In-Line)

Single slider	Stroke(mm), maximum speed(mm/s)																					
Model	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000		
DRA-70A-S	250					230	180															
	500					480	370															
	1000					950	740															
DRA-70B-S	250					230	180															
	500					480	370															
	1000					950	740															
DRA-90A-S	250						210	170	140	120	100	80	70	60	60							
	500						430	340	280	230	200	170	150	130	110							
	1000						870	690	570	470	400	340	300	260	230							
	1500						1300	1040	850	710	600	510	450	390	340							
DRA-90B-S	250						210	170	140	120	100	80	70	60	60							
	500						430	340	280	230	200	170	150	130	110							
	1000						870	690	570	470	400	340	300	260	230							
	1500						1300	1040	850	710	620	530	460	400	350							
DRA-120A-S	250						210	170	140	120	100	90	70	70	60							
	500						430	340	280	230	200	170	150	130	120							
	1000						870	690	570	470	410	350	300	270	230							
	1500						1300	1040	850	710	620	530	460	400	350							
DRA-120B-S	250						200	160	140	120	100	90	70	60	50							
	500						400	320	260	220	190	160	140	120	110							
	1000						800	650	530	450	380	330	280	250	220							
	1500						1210	970	800	670	570	490	430	370	330							
DRA-140A-S	250						210	170	140	120	100	90	70	70	60							
	500						430	340	280	230	200	170	150	130	120							
	1000						870	690	570	470	410	350	300	270	230							
	1500						1300	1040	850	710	620	530	460	400	350							
DRA-140B-S	250					230	180	150	120	100	90	80	70	60	50							
	500					460	370	300	250	210	180	150	130	120	100							
	1000					940	740	600	500	420	360	310	270	240	210							
	1500					1410	1120	910	750	630	540	470	410	360	320							
DRA-140C-S	250						240	200	160	140	120	100	90	80	70	60	60	50	50			
	500						480	400	330	280	240	210	180	160	140	130	110	100	90			
	1000						940	770	640	540	470	400	350	310	280	250	220	200	180			
	1500						1470	1200	1000	850	730	630	550	480	430	390	350	310	290			
	2000						1960	1600	1330	1130	970	840	730	650	570	510	460	420	380			
DRA-140D-S	250						210	170	150	120	110	90	80	70	70	60	50	50	40			
	500						420	350	290	250	220	190	170	150	130	120	110	100	90			
	1000						820	680	570	490	420	370	320	290	260	230	210	190	170			
	1500						1270	1050	890	760	660	570	500	450	400	360	320	290	270			
	2000						1700	1410	1180	1010	870	760	670	590	530	480	430	390	360			
DRA-170A-S	250						240	200	160	140	120	100	90	80	70	60	60	50	50			
	500						480	390	330	280	240	210	180	160	140	130	110	100	90			
	1000						930	760	640	540	460	400	350	310	280	250	220	200	180			
	1500						1450	1190	990	840	720	620	550	480	430	380	340	310	280			
	2000						1930	1580	1320	1120	960	830	730	640	570	510	460	420	380			
DRA-170B-S	250						200	170	140	120	110	90	80	70	60	60	50	50	40			
	500						410	340	280	240	210	180	160	140	130	120	100	100	90			
	1000						970	790	660	560	480	410	360	320	280	250	230	200	190	170		
	1500						1230	1020	860	740	640	560	490	440	390	350	320	290	260			
	2000						1640	1370	1150	990	850	750	660	580	520	470	420	390	350			
DRA-200A-S	250						230	190	160	140	120	100	90	80	70	60	60	50	50			
	500						470	380	320	270	230	200	180	160	140	120	110	100	90			
	1000						910	750	630	530	460	400	350	310	270	240	220	200	180			
	1500						1420	1160	970	820	710	610	540	480	420	380	340	310	280			
	2000						1890	1550	1300	1100	940	820	720	630	560	500	450	410	370			
DRA-200B-S	250						230	190	160	140	120	100	90	80	70	60	60	50	50	40		
	500						470	380	320	270	230	200	180	160	140	120	110	100	90	80		
	1000						910	750	630	530	460	400	350	310	270	240	220	200	180	170		
	1500						1420	1160	970	820	710	610	540	480	420	380	340	310	280	260		
	2000						1890	1550	1300	1100	940	820	720	630	560	500	450	410	370	340		

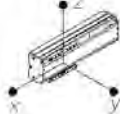
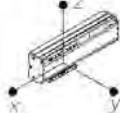
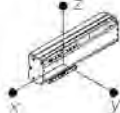
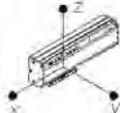
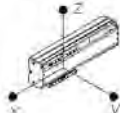
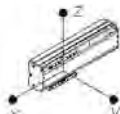
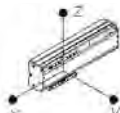
						Lead (mm)	Rated speed (mm/s)	Motor (W)	Payload at rated acceleration (kg)		Payload by acceleration(kg)							
	2100	2200	2300	2400	2500				Horizontal	Vertical	0.3G	0.4G	0.5G	0.6G	0.7G	0.8G	0.9G	1.0G
						5	250	100	22	15	-	-	-	-	-	-	-	-
						10	500	100	15	7	-	-	-	-	-	-	-	-
						20	1000	100	5	-	-	-	-	-	-	-	-	-
						5	250	100	22	15	-	-	-	-	-	-	-	-
						10	500	100	15	7	-	-	-	-	-	-	-	-
						20	1000	100	5	-	-	-	-	-	-	-	-	-
						5	250	200	22	15	-	-	-	-	-	-	-	-
						10	500	200	15	7	-	-	-	-	-	-	-	-
						20	1000	200	5	-	-	-	-	-	-	-	-	-
						30	1500	200	5	-	-	-	-	-	-	-	-	-
						5	250	200	22	15	-	-	-	-	-	-	-	-
						10	500	200	15	7	-	-	-	-	-	-	-	-
						20	1000	200	5	-	-	-	-	-	-	-	-	-
						30	1500	200	5	-	-	-	-	-	-	-	-	-
						5	250	200	80	25	-	-	-	-	-	-	-	-
						10	500	200	30	12	-	-	-	-	-	-	-	-
						20	1000	200	15	6	-	-	-	-	-	-	-	-
						30	1500	200	5	-	-	-	-	-	-	-	-	-
						5	250	200	110	23	-	-	-	-	-	-	-	-
						10	500	200	58	12	-	-	-	-	-	-	-	-
						20	1000	200	30	5	-	-	-	-	-	-	-	-
						30	1500	200	10	-	-	-	-	-	-	-	-	-
						5	250	400	160	30	-	-	-	-	-	-	-	-
						10	500	400	90	30	-	-	-	-	-	-	-	-
						20	1000	400	50	20	-	-	-	-	-	-	-	-
						30	1500	400	20	10	-	-	-	-	-	-	-	-
						5	250	400	120	23	-	-	-	-	-	-	-	-
						10	500	400	100	12	-	-	-	-	-	-	-	-
						20	1000	400	65	5	-	-	-	-	-	-	-	-
						30	1500	400	27	-	-	-	-	-	-	-	-	-
						5	250	400	160	40	-	-	-	-	-	-	-	-
						10	500	400	90	50	-	-	-	-	-	-	-	-
						20	1000	400	50	20	-	-	-	-	-	-	-	-
						30	1500	400	20	10	-	-	-	-	-	-	-	-
						40	2000	400	10	-	-	-	-	-	-	-	-	-
						5	250	400	120	34	-	-	-	-	-	-	-	-
						10	500	400	100	32	-	-	-	-	-	-	-	-
						20	1000	400	57	10	-	-	-	-	-	-	-	-
						30	1500	400	22	3	-	-	-	-	-	-	-	-
						40	2000	400	9	-	-	-	-	-	-	-	-	-
	40	40	40	30	30	5	250	750	240	80	-	-	-	-	-	-	-	-
	90	80	70	70	60	10	500	750	180	80	-	-	-	-	-	-	-	-
	170	150	140	130	120	20	1000	750	90	30	-	-	-	-	-	-	-	-
	260	240	220	200	190	30	1500	750	50	20	-	-	-	-	-	-	-	-
	350	320	290	270	250	40	2000	750	25	10	-	-	-	-	-	-	-	-
	40	40	30	30	30	5	250	750	150	30	-	-	-	-	-	-	-	-
	80	70	70	60	60	10	500	750	120	40	-	-	-	-	-	-	-	-
	160	140	130	120	110	20	1000	750	70	28	-	-	-	-	-	-	-	-
	240	220	200	190	180	30	1500	750	49	12	-	-	-	-	-	-	-	-
	320	300	270	250	230	40	2000	750	25	8	-	-	-	-	-	-	-	-
	40	40	40	30	30	5	250	750	240	80	-	-	-	-	-	-	-	-
	80	80	70	70	60	10	500	750	180	80	-	-	-	-	-	-	-	-
	170	150	140	130	120	20	1000	750	90	30	-	-	-	-	-	-	-	-
	260	240	220	200	190	30	1500	750	50	20	-	-	-	-	-	-	-	-
	640	310	290	270	250	40	2000	750	25	10	-	-	-	-	-	-	-	-
	40	40	30	30	30	5	250	750	165	35	-	-	-	-	-	-	-	-
	80	70	70	60	60	10	500	750	135	45	-	-	-	-	-	-	-	-
	150	140	130	120	110	20	1000	750	80	30	-	-	-	-	-	-	-	-
	240	220	200	190	170	30	1500	750	56	16	-	-	-	-	-	-	-	-
	310	290	270	250	230	40	2000	750	29	9	-	-	-	-	-	-	-	-

Ballscrew type(side mount)

Single slider	Stroke(mm), maximum speed(mm/s)																				
Model	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	
DRA-70A-P	250					230	180														
	500					480	370														
	1000					950	740														
DRA-70B-P	250					230	180														
	500					480	370														
	1000					950	740														
DRA-90A-P	250					210	170	140	120	100	80	70	60	60							
	500					430	340	280	230	200	170	150	130	110							
	1000					870	690	570	470	400	340	300	260	230							
	1500					1300	1040	850	710	600	510	450	390	340							
DRA-90B-P	250					210	170	140	120	100	80	70	60	60							
	500					430	340	280	230	200	170	150	130	110							
	1000					870	690	570	470	400	340	300	260	230							
	1500					1300	1040	850	710	600	510	450	390	340							
DRA-120A-P	250					210	170	140	120	100	90	70	70	60							
	500					430	340	280	230	200	170	150	130	120							
	1000					870	690	570	470	410	350	300	270	230							
	1500					1300	1040	850	710	620	530	460	400	350							
DRA-120B-P	250					220	180	140	120	100	90	70	70	60	50						
	500					440	350	290	240	200	170	150	130	120	100						
	1000					900	720	580	490	410	350	300	270	230	210						
	1500					1350	1080	880	730	620	530	460	400	350	310						
DRA-140A-P	250					210	170	140	120	100	90	70	70	60							
	500					430	340	280	230	200	170	150	130	120							
	1000					870	690	570	470	410	350	300	270	230							
	1500					1300	1040	850	710	620	530	460	400	350							
DRA-140B-P	250					200	160	130	110	100	80	70	60	60	50						
	500					410	330	270	230	190	160	140	120	110	100						
	1000					830	670	550	460	390	330	290	250	220	200						
	1500					1240	1000	820	690	580	500	430	380	340	300						
DRA-140C-P	250					240	200	160	140	120	100	90	80	70	60	50	50				
	500					480	400	330	280	240	210	180	160	140	130	110	100	90			
	1000					940	770	640	540	470	400	350	310	280	250	220	200	180			
	1500					1470	1200	1000	850	730	630	550	480	430	390	350	310	290			
	2000					1960	1600	1330	1130	970	840	730	650	570	510	460	420	380			
DRA-140D-P	250					220	180	150	130	110	100	80	80	70	60	50	50	40			
	500					430	360	300	260	220	190	170	150	130	120	110	100	90			
	1000					850	700	590	500	430	380	330	290	260	230	210	190	180			
	1500					1320	1090	920	780	670	590	510	460	410	360	330	300	270			
	2000					1760	1450	1220	1040	900	780	690	610	540	490	440	400	360			
DRA-170A-P	250					240	200	160	140	120	100	90	80	70	60	50	50				
	500					480	390	330	280	240	210	180	160	140	130	110	100	90			
	1000					930	760	640	540	460	400	350	310	280	250	220	200	180			
	1500					1450	1190	990	840	720	620	550	480	430	380	340	310	280			
	2000					1930	1580	1320	1120	960	830	730	640	570	510	460	420	380			
DRA-170B-P	250					180	150	130	110	100	80	70	70	60	50	50	40	40			
	500					350	300	250	220	190	170	150	130	120	110	100	90	80			
	1000					690	580	490	430	370	330	290	260	230	210	190	170	160			
	1500					1070	900	770	660	580	510	450	400	360	330	300	270	250			
	2000					1430	1200	1020	880	770	680	600	540	480	430	390	360	330			
DRA-200A-P	250					230	190	160	140	120	100	90	80	70	60	50	50				
	500					470	380	320	270	230	200	180	160	140	120	110	100	90			
	1000					910	750	630	530	460	400	350	310	270	240	220	200	180			
	1500					1420	1160	970	820	710	610	540	480	420	380	340	310	280			
	2000					1890	1550	1300	1100	940	820	720	630	560	500	450	410	370			
DRA200B-P	250					230	190	160	140	120	100	90	80	70	60	50	50	40			
	500					470	380	320	270	230	200	180	160	140	120	110	100	90	80		
	1000					910	750	630	530	460	400	350	310	270	240	220	200	180	170		
	1500					1420	1160	970	820	710	610	540	480	420	380	340	310	280	260		
	2000					1890	1550	1300	1100	940	820	720	630	560	500	450	410	370	340		

						Lead (mm)	Rated speed (mm/s)	Motor (W)	Payload at rated acceleration (kg)		Payload by acceleration(kg)							
									Horizontal	Vertical	0.3G	0.4G	0.5G	0.6G	0.7G	0.8G	0.9G	1.0G
						5	250	100	22	15	-	-	-	-	-	-	-	-
						10	500	100	15	7	-	-	-	-	-	-	-	-
						20	1000	100	5	-	-	-	-	-	-	-	-	-
						5	250	100	22	15	-	-	-	-	-	-	-	-
						10	500	100	15	7	-	-	-	-	-	-	-	-
						20	1000	100	5	-	-	-	-	-	-	-	-	-
						5	250	200	22	15	-	-	-	-	-	-	-	-
						10	500	200	15	7	-	-	-	-	-	-	-	-
						20	1000	200	5	-	-	-	-	-	-	-	-	-
						30	1500	200	5	-	-	-	-	-	-	-	-	-
						5	250	200	22	15	-	-	-	-	-	-	-	-
						10	500	200	15	7	-	-	-	-	-	-	-	-
						20	1000	200	5	-	-	-	-	-	-	-	-	-
						30	1500	200	5	-	-	-	-	-	-	-	-	-
						5	250	200	80	25	-	-	-	-	-	-	-	-
						10	500	200	30	12	-	-	-	-	-	-	-	-
						20	1000	200	15	6	-	-	-	-	-	-	-	-
						30	1500	200	5	-	-	-	-	-	-	-	-	-
						5	250	200	110	23	-	-	-	-	-	-	-	-
						10	500	200	58	12	-	-	-	-	-	-	-	-
						20	1000	200	30	5	-	-	-	-	-	-	-	-
						30	1500	200	10	-	-	-	-	-	-	-	-	-
						5	250	400	160	30	-	-	-	-	-	-	-	-
						10	500	400	90	30	-	-	-	-	-	-	-	-
						20	1000	400	50	20	-	-	-	-	-	-	-	-
						30	1500	400	20	10	-	-	-	-	-	-	-	-
						5	250	400	120	23	-	-	-	-	-	-	-	-
						10	500	400	100	12	-	-	-	-	-	-	-	-
						20	1000	400	65	5	-	-	-	-	-	-	-	-
						30	1500	400	27	-	-	-	-	-	-	-	-	-
						5	250	400	160	40	-	-	-	-	-	-	-	-
						10	500	400	90	50	-	-	-	-	-	-	-	-
						20	1000	400	50	20	-	-	-	-	-	-	-	-
						30	1500	400	20	10	-	-	-	-	-	-	-	-
						40	2000	400	10	-	-	-	-	-	-	-	-	-
						5	250	400	120	34	-	-	-	-	-	-	-	-
						10	500	400	100	32	-	-	-	-	-	-	-	-
						20	1000	400	57	10	-	-	-	-	-	-	-	-
						30	1500	400	22	3	-	-	-	-	-	-	-	-
						40	2000	400	9	-	-	-	-	-	-	-	-	-
	40	40	40	30	30	5	250	750	240	80	-	-	-	-	-	-	-	-
	90	80	70	70	60	10	500	750	180	80	-	-	-	-	-	-	-	-
	170	150	140	130	120	20	1000	750	90	30	-	-	-	-	-	-	-	-
	260	240	220	200	190	30	1500	750	50	20	-	-	-	-	-	-	-	-
	350	320	290	270	250	40	2000	750	25	10	-	-	-	-	-	-	-	-
	40	30	30	30	30	5	250	750	150	30	-	-	-	-	-	-	-	-
	70	70	60	60	50	10	500	750	120	40	-	-	-	-	-	-	-	-
	150	130	120	120	110	20	1000	750	70	28	-	-	-	-	-	-	-	-
	230	210	190	180	170	30	1500	750	49	12	-	-	-	-	-	-	-	-
	300	280	260	240	220	40	2000	750	25	8	-	-	-	-	-	-	-	-
	40	40	40	30	30	5	250	750	240	80	-	-	-	-	-	-	-	-
	80	80	70	70	60	10	500	750	180	80	-	-	-	-	-	-	-	-
	170	150	140	130	120	20	1000	750	90	30	-	-	-	-	-	-	-	-
	260	240	220	200	190	30	1500	750	50	20	-	-	-	-	-	-	-	-
	640	310	290	270	250	40	2000	750	25	10	-	-	-	-	-	-	-	-
	40	40	30	30	30	5	250	750	165	35	-	-	-	-	-	-	-	-
	80	70	70	60	60	10	500	750	135	45	-	-	-	-	-	-	-	-
	150	140	130	120	110	20	1000	750	80	30	-	-	-	-	-	-	-	-
	240	220	200	190	170	30	1500	750	56	16	-	-	-	-	-	-	-	-
	310	290	270	250	230	40	2000	750	29	9	-	-	-	-	-	-	-	-

Allowable for over hang weight(acceleration = 0.3sec / Speed = 250 ~ 1000 mm/sec)

Model		Payload(kg)	Speed(mm/s)	X(mm)	Y(mm)	Z(mm)		Payload(kg)	
DRA-70B		22	250	280	85	7000		22	
		15	500	400	130	4000		15	
		5	1000	880	300	3950		5	
DRA-90B		80	250	155	40	3100		80	
		30	500	380	120	4000		30	
		15	1000	550	190	2200		15	
DRA-120A		80	250	220	250	4600		80	
		30	500	520	520	4900		30	
		15	1000	820	750	3100		15	
DRA-140A		160	250	120	220	2500		160	
		90	500	210	330	2100		90	
		50	1000	315	370	1250		50	
DRA-140C		160	250	90	135	2000		160	
		90	500	190	240	1900		90	
		50	1000	275	300	1080		50	
DRA-170A		240	250	135	200	2950		240	
		180	500	190	270	1750		390	
		90	1000	320	390	1210		90	
DRA-200A		240	250	195	390	3800		240	
		180	500	275	460	2500		180	
		90	1000	430	550	1600		90	

	Speed(mm/s)	X(mm)	Y(mm)	Z(mm)		Payload(kg)	Speed(mm/s)	X(mm)	Y(mm)	Z(mm)
	250	190	95	3450		15	250	360	265	-
	500	220	135	2400		7	500	770	550	-
	1000	620	310	2400						-
	250	110	55	2500		25	250	440	440	-
	500	330	140	3300		12	500	880	880	-
	1000	550	220	2200		6	1000	1300	1300	-
	250	140	140	3400		25	250	450	450	-
	500	370	440	3900		12	500	900	900	-
	1000	600	720	2500		6	1000	1500	1500	-
	250	80	100	1800		30	250	550	450	-
	500	150	210	1450		30	500	550	450	-
	1000	200	310	800		20	1000	610	510	-
	250	125	105	2500		40	250	420	540	-
	500	220	210	2000		50	500	310	420	-
	1000	310	290	1250		20	1000	700	800	-
	250	165	155	3750		80	250	300	400	-
	500	225	235	2100		80	500	250	350	-
	1000	365	380	1410		30	1000	940	1030	-
	250	145	200	3100		80	250	500	400	-
	500	185	290	1780		80	500	400	300	-
	1000	300	465	1200		30	1000	985	885	-

DRA-70B-S

DRA70 : Ballscrew type, Base Width 70mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	70B	S	100	I	10	ST50	S3
A:1Rail 1Block No.15 B:1Rail 2Block No.15		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	100 : 100W 100(B) : 100W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm	50:50mm ~ 750:750mm	S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Specifications

* Payload 및 LM Guide의 사양은 Type A의 조건임.

Driving Type	Ballscrew $\Phi 12$ C7	LM Guide	No.15 1Rail 2 Block	Position Repeatability	± 0.02 mm
Ambient Operation Temp.	0~40°C, 85%RH 이하	Service Lift	15,000 km		

Actuator Specifications

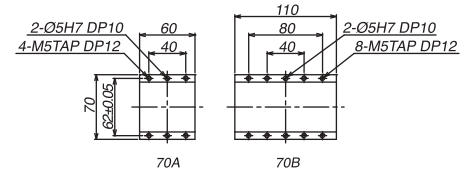
Model	Motor (W)	Lead (mm)	Payload(kg)		Push Force(N)	Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'			
DRA-70B-□-100-L05-□-□	100	5	22	15	400	250	50~750
DRA-70B-□-100-L10-□-□		10	15	7	200	500	
DRA-70B-□-100-L20-□-□		20	5	0	100	1000	

Stroke, Velocity & Robot Mass

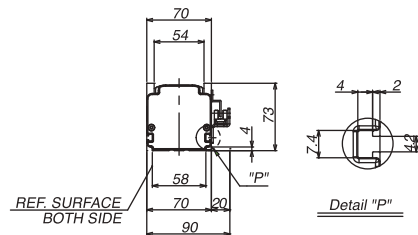
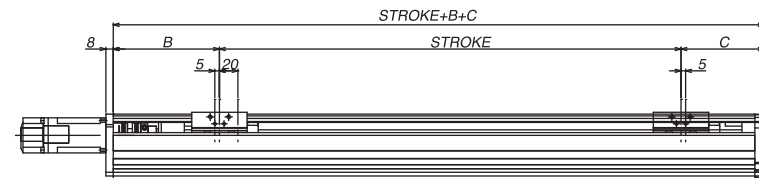
* 파나소닉 모터 기준 산정 무게임.

Model		Stroke							
		50	100	200	300	400	500	600	750
DRA-70B-S-100-L05-□-□	Speed(mm/s)			250				230	180
DRA-70B-S-100-L10-□-□	Speed(mm/s)			500				480	370
DRA-70B-S-100-L20-□-□	Speed(mm/s)			1000				950	740
Mass(kg)	$\approx 0.005 \cdot \text{Stroke} + 2.5$	2.7	3	3.5	4	4.6	5.1	5.6	6.1

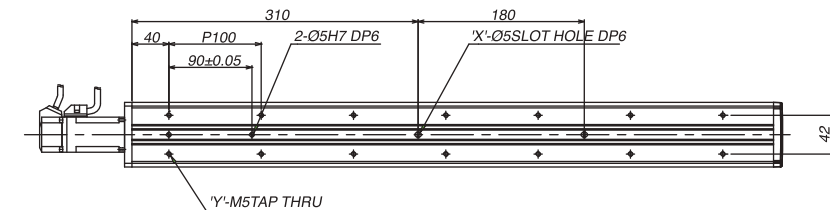
Dimension



Detail "Q"



Detail "P"



*1:() is Brake Motor Dimension

	A	B	C
70A-S	60	115	90
70B-S	110	140	115

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750
X	0			1				2				3		4	
Y	4	6		8		10		12		14		16		18	

Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRA-70B-P

DRA70 : Ballscrew type, Base Width 70mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	70B	LP	100	I	10	ST50	S3
A:1Rail 1Block No.15 B:1Rail 2Block No.15		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	100 : 100W 100(B) : 100W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm	50:50mm ~ 750:750mm	S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Specifications

* Payload 및 LM Guide의 사양은 Type A의 조건임.

Driving Type	Ballscrew $\Phi 12$ C7	LM Guide	No.15 1Rail 2 Block	Position Repeatability	$\pm 0.02\text{mm}$
Ambient Operation Temp.	0~40°C, 85%RH 이하	Service Lift	15,000 km		

Actuator Specifications

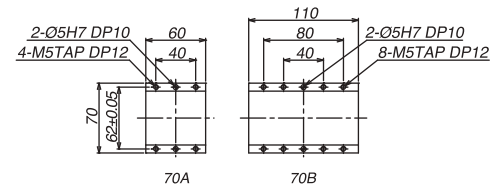
Model	Motor (W)	Lead (mm)	Payload(kg)		Push Force(N)	Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'			
DRA-70B-□-100-L05-□-□	100	5	22	15	400	250	50~750
DRA-70B-□-100-L10-□-□		10	15	7	200	500	
DRA-70B-□-100-L20-□-□		20	5	0	100	1000	

Stroke, Velocity & Robot Mass

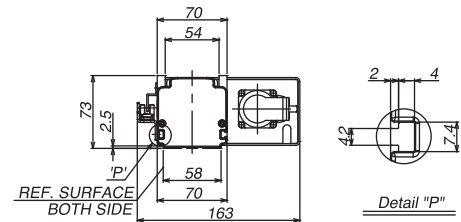
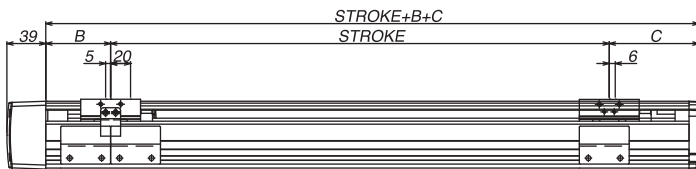
* 파나소닉 모터 기준 산정 무게임.

Model		Stroke							
		50	100	200	300	400	500	600	750
DRA-70B-□P-100-L05-□-□	Speed(mm/s)			250				230	180
DRA-70B-□P-100-L10-□-□	Speed(mm/s)			500				480	370
DRA-70B-□P-100-L20-□-□	Speed(mm/s)			1000				950	740
Mass(kg)	$\approx 0.005 \times \text{Stroke} + 2.5$	2.7	3	3.5	4	4.6	5.1	5.6	6.1

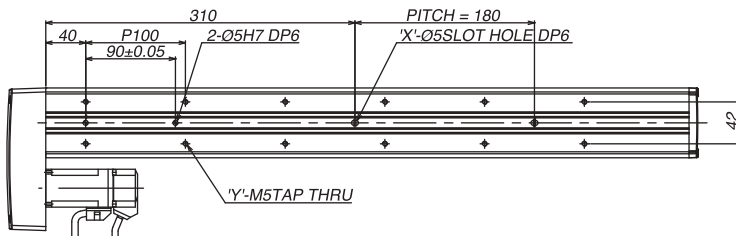
Dimension



Detail "Q"



Detail "P"



*1: () is Brake Motor Dimension

	A	B	C
70A-P	60	65	90
70B-P	110	90	115

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750
X		0				1				2			3		4
Y	4		6		8		10		12		14		16		18

Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	90B	S	200	I	10	ST50	S3
	A:1Rail 1Block No.20 B:1Rail 2Block No.20	S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	200 : 200W 200(B) : 200W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm 30 : 30mm	50:50mm ~ 1500:1500mm	S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Specifications

Driving Type	Ball screw $\Phi 15$ C7	LM Guide	No.20 1Rail 2 Block	Position Repeatability	$\pm 0.02\text{mm}$
Ambient Operation Temp.	0~40°C, 85%RH 이하	Service Lift	15,000 km		

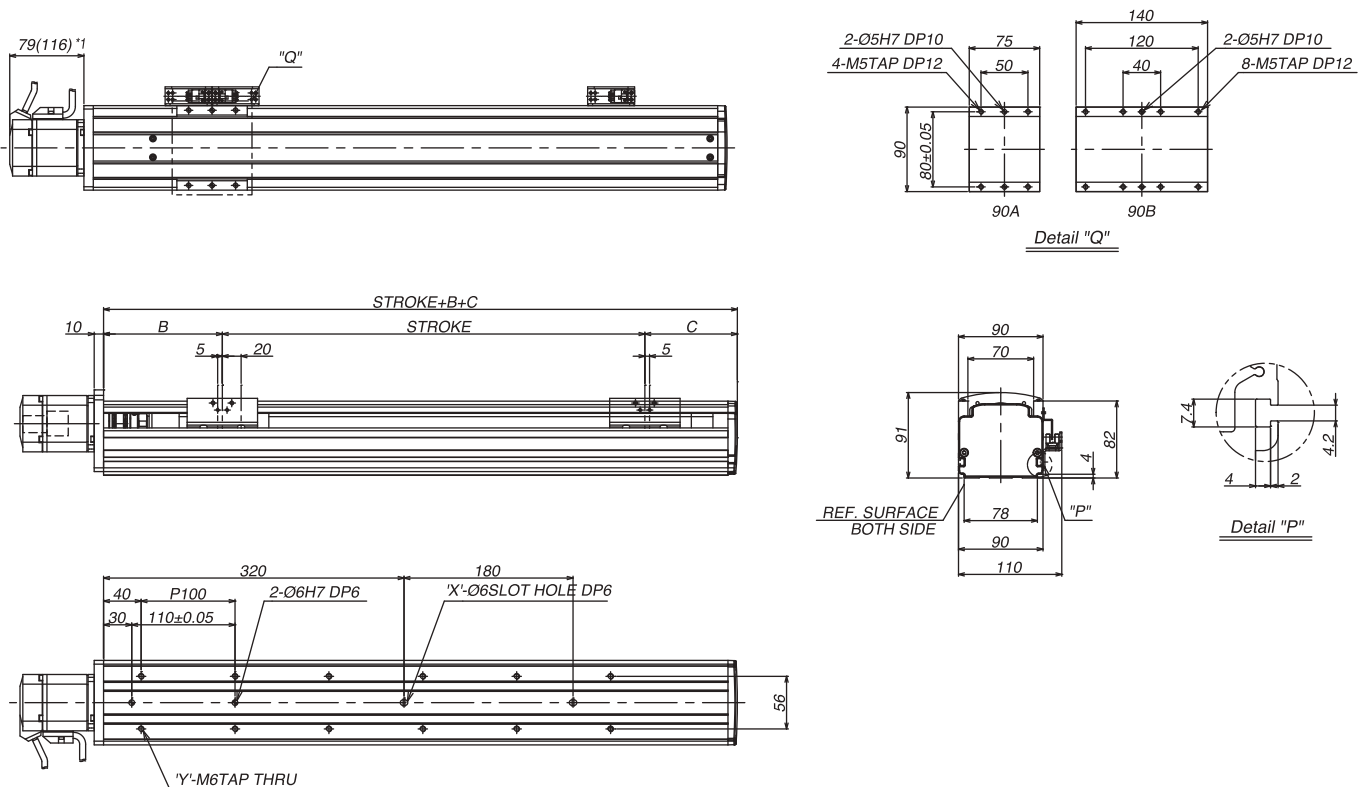
Actuator Specifications

Model	Motor (W)	Lead (mm)	Payload(kg)		Push Force(N)	Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'			
DRA-90B-□-200-L05-□-□	200	5	80	25	800	250	50 ~ 1500
DRA-90B-□-200-L10-□-□		10	30	12	400	500	
DRA-90B-□-200-L20-□-□		20	15	6	200	1000	
DRA-90B-□-200-L30-□-□		30	5	-	134	1500	

Stroke, Velocity & Robot Mass

Model		Stroke															
		50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRA-90B-S-200-L05-□-□	Speed(mm/s)	250						210	170	140	120	100	80	70	60	60	
DRA-90B-S-200-L10-□-□	Speed(mm/s)	500						430	340	280	230	200	170	150	130	110	
DRA-90B-S-200-L20-□-□	Speed(mm/s)	1000						870	690	570	470	400	340	300	260	230	
DRA-90B-S-200-L30-□-□	Speed(mm/s)	1500						1300	1040	850	710	600	510	450	390	340	
Mass(kg)	≒ 0.0076 * Stroke + 4.1	4.5	4.9	5.6	6.4	7.1	7.9	8.7	9.4	10.2	10.9	11.7	12.5	13.2	14	14.7	15.5

Dimension



*1:() is Brake Motor Dimension

	A	B	C
90A-S	75	126.5	98.5
90B-S	140	159	131

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
X	0			1			2			3			4			5			6			7			8					
Y	4	6		8		10		12		14		16		18		20		22		24		26		28		30		32		34

Applicable controllers

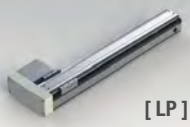
Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRA-90B-P

Ballscrew type, Direct Coupled Motor,
Base Width 90mm



[LP]



[RP]



[BP]

Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	90B	LP	200	I	10	ST50	S3
A:1Rail 1Block No.20 B:1Rail 2Block No.20		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	200 : 200W 200(B) : 200W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm 30 : 30mm	50:50mm ~ 1500:1500mm	S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Specifications

* Payload 및 LM Guide의 사양은 Type A의 조건임.

Driving Type	Ballscrew $\Phi 15$ C7	LM Guide	No.20 1Rail 2 Block	Position Repeatability	± 0.02 mm
Ambient Operation Temp.	0~40°C, 85%RH 이하	Service Lift	15,000 km		

Actuator Specifications

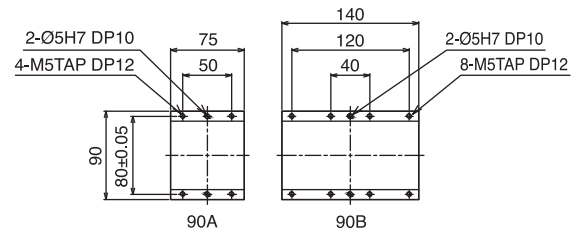
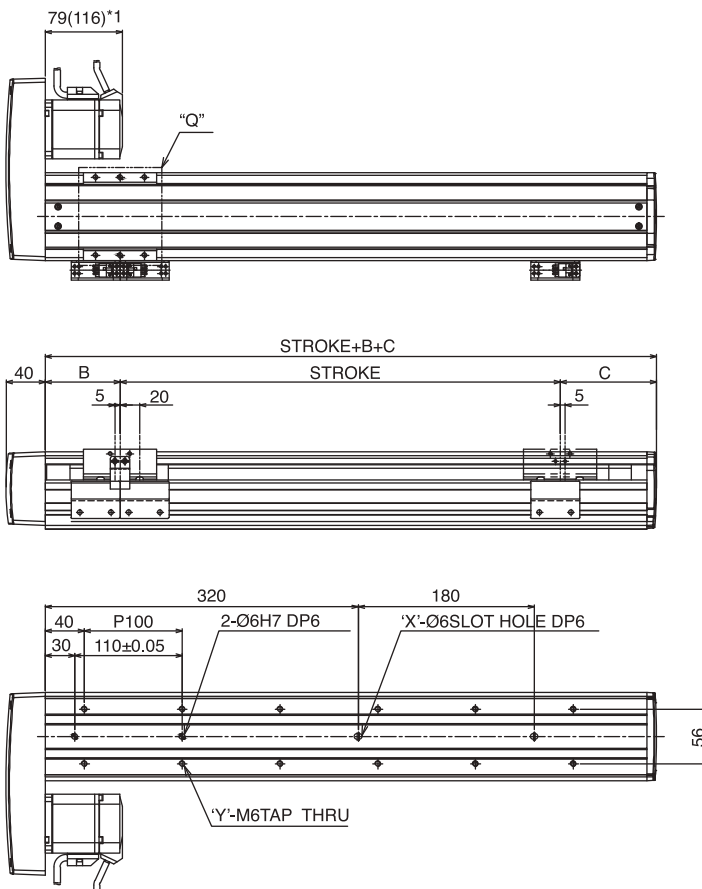
Model	Motor (W)	Lead (mm)	Payload(kg)		Push Force(N)	Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'			
DRA-90B-□-200-L05-□-□	200	5	80	25	800	250	50 ~ 1500
DRA-90B-□-200-L10-□-□		10	30	12	400	500	
DRA-90B-□-200-L20-□-□		20	15	6	200	1000	
DRA-90B-□-200-L30-□-□		30	5	-	134	1500	

Stroke, Velocity & Robot Mass

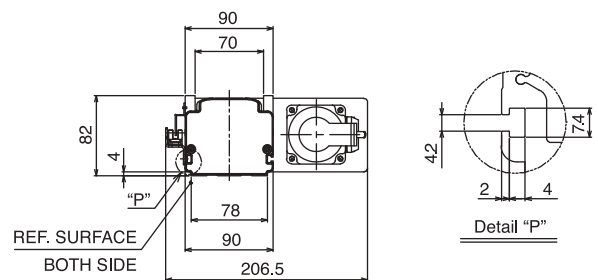
* 파나소닉 모터 기준 산정 무게임.

Model		Stroke															
		50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRA-90B-□P-200-L05-□-□	Speed(mm/s)	250						210	170	140	120	100	80	70	60	60	
DRA-90B-□P-200-L10-□-□	Speed(mm/s)	500						430	340	280	230	200	170	150	130	110	
DRA-90B-□P-200-L20-□-□	Speed(mm/s)	1000						870	690	570	470	400	340	300	260	230	
DRA-90B-□P-200-L30-□-□	Speed(mm/s)	1500						1300	1040	850	710	600	510	450	390	340	
Mass(kg)	≅ 0.0076 * Stroke + 4.1	4.5	4.9	5.6	6.4	7.1	7.9	8.7	9.4	10.2	10.9	11.7	12.5	13.2	14	14.7	15.5

Dimension



Detail "Q"



*1:() is Brake Motor Dimension

	A	B	C
90A-P	75	76.5	98.5
90B-P	140	109	131

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
X	0			1			2			3			4			5			6			7			8					
Y	4		6		8		10		12		14		16		18		20		22		24		26		28		30		32	

Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRA-120A-S

Ballscrew type, Direct Coupled Motor,
Base Width 120mm



[S]

Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	120A	S	200	I	10	ST50	S3
A: 2Rail 4Block No.15 B: 2Rail 6Block No.15		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	200 : 200W 200(B) : 200W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm 30 : 30mm	50: 50mm ~ 1500: 1500mm	S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Specifications

* Payload 및 LM Guide의 사양은 Type A의 조건임.

Driving Type	Ballscrew $\Phi 15$ C7	LM Guide	No.15 2Rail 4 Block	Position Repeatability	± 0.02 mm
Ambient Operation Temp.	0~40°C, 85%RH 이하	Service Lift	15,000 km		

Actuator Specifications

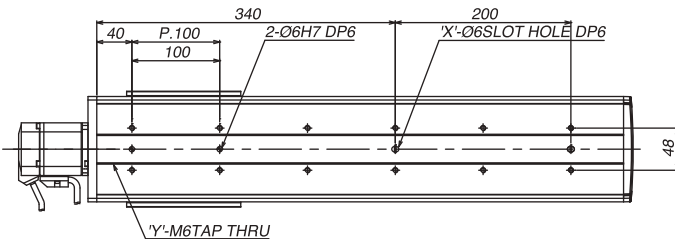
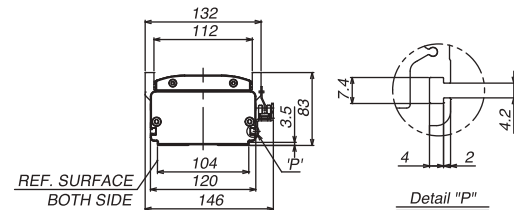
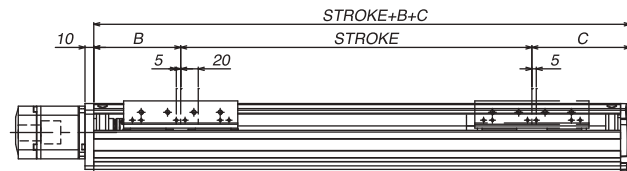
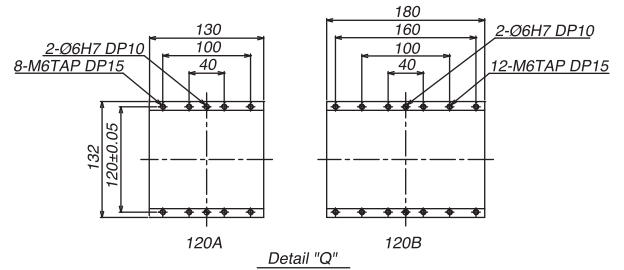
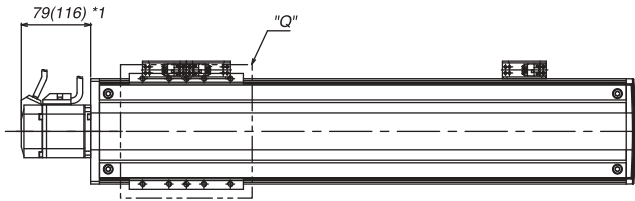
Model	Motor (W)	Lead (mm)	Payload(kg)		Push Force(N)	Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'			
DRA-120A-S-200-L05-□-□	200	5	80	25	800	250	50 ~ 1500
DRA-120A-S-200-L10-□-□		10	30	12	400	500	
DRA-120A-S-200-L20-□-□		20	15	6	200	1000	
DRA-120A-S-200-L30-□-□		30	5	-	134	1500	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게임.

Model		Stroke															
		50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRA-120A-S-200-L05-□-□	Speed(mm/s)			250					210	170	140	120	100	90	70	70	60
DRA-120A-S-200-L10-□-□	Speed(mm/s)			500					430	340	280	230	200	170	150	130	120
DRA-120A-S-200-L20-□-□	Speed(mm/s)			1000					870	690	570	470	410	350	300	270	230
DRA-120A-S-200-L30-□-□	Speed(mm/s)			1500					1300	1040	850	710	620	530	460	400	350
Mass(kg)	A Type	$\approx 0.0076 * \text{Stroke} + 5.6$	5.7	6.2	7.3	8.3	9.3	10.4	11.4	12.4	13.5	14.5	16	17	18	20	21
	B Type	$\approx 0.0076 * \text{Stroke} + 6.4$	6.9	7.4	8.4	9.5	11	12	13	14	15	16	17	18	19	21	22

Dimension



*1: () is Brake Motor Dimension

	A	B	C
120A-S	130	99	112
120B-S	180	124	137

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500						
X	0			1				2				3				4				5				6				7								
Y	4	6		8		10			12		14			16		18			20		22			24		26			28		30		32		34	

Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRA-120A-P

Ballscrew type, Direct Coupled Motor,
Base Width 120mm



[LP]



[RP]



[BP]

Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	120A	LP	200	I	10	ST50	S3
A: 2Rail 4Block No.15 B: 2Rail 6Block No.15		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	200 : 200W 200(B) : 200W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm 30 : 30mm	50: 50mm ~ 1500: 1500mm	S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Specifications

Driving Type	Ballscrew $\Phi 15$ C7	LM Guide	No.15 2Rail 4 Block	Position Repeatability	± 0.02 mm
Ambient Operation Temp.	0~40°C, 85%RH 이하	Service Lift	15,000 km		

* Payload 및 LM Guide의 사양은 Type A의 조건임.

Actuator Specifications

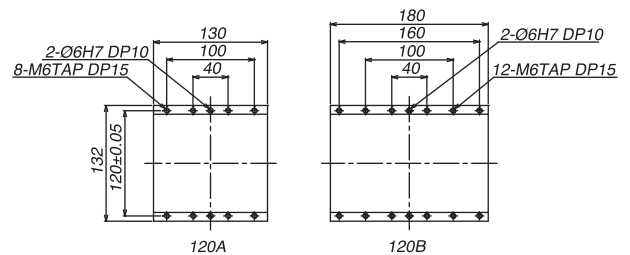
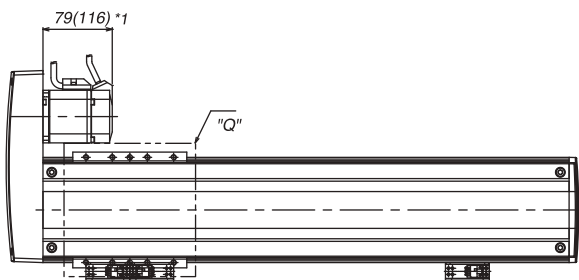
Model	Motor (W)	Lead (mm)	Payload(kg)		Push Force(N)	Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'			
DRA-120A-□-200-L05-□-□	200	5	80	25	800	250	50 ~ 1500
DRA-120A-□-200-L10-□-□		10	30	12	400	500	
DRA-120A-□-200-L20-□-□		20	15	6	200	1000	
DRA-120A-□-200-L30-□-□		30	5	-	134	1500	

Stroke, Velocity & Robot Mass

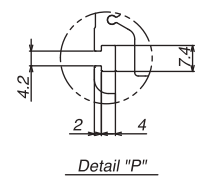
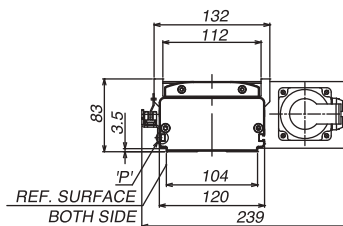
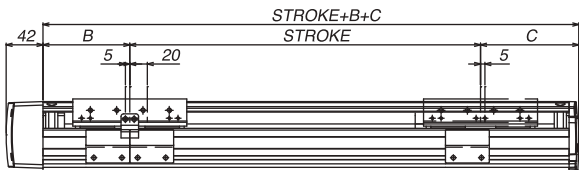
* 파나소닉 모터 기준 산정 무게임.

Model			Stroke															
			50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRA-120A-□P-200-L05-□-□		Speed(mm/s)	250							210	170	140	120	100	90	70	70	60
DRA-120A-□P-200-L10-□-□		Speed(mm/s)	500							430	340	280	230	200	170	150	130	120
DRA-120A-□P-200-L20-□-□		Speed(mm/s)	1000							870	690	570	470	410	350	300	270	230
DRA-120A-□P-200-L30-□-□		Speed(mm/s)	1500							1300	1040	850	710	620	530	460	400	350
Mass(kg)	A Type	≒ 0.0076 * Stroke + 5.6	5.7	6.2	7.3	8.3	9.3	10.4	11.4	12.4	13.5	14.5	16	17	18	19	20	21
	B Type	≒ 0.0076 * Stroke + 6.4	6.9	7.4	8.4	9.5	11	12	13	14	15	16	17	18	19	20	21	22

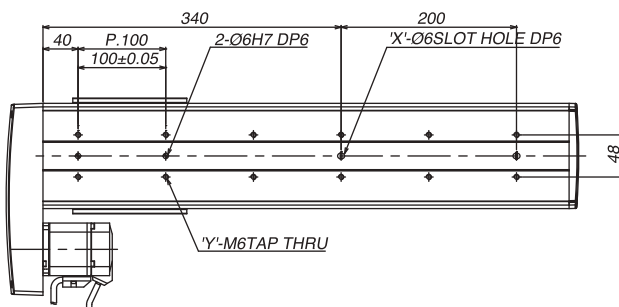
Dimension



Detail "Q"



Detail "P"



*1: () is Brake Motor Dimension

	A	B	C
120A-P	130	99	112
120B-P	180	124	137

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
X	0			1				2				3				4				5				6				7			
Y	4	6		8		10			12		14		16		18		20		22		24		26		28		30		32		34

Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRA-140A-S

Ballscrew type, Direct Coupled Motor,
Base Width 140mm



[S]

Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	140A	S	400	I	10	ST50	S3
A: 2Rail 4Block No.20 B: 2Rail 6Block No.20		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	400 : 400W 400(B) : 400W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm 30 : 30mm	50: 50mm ~ 1500: 1500mm	S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Specifications

* Payload 및 LM Guide의 사양은 Type A의 조건임.

Driving Type	Ballscrew $\Phi 15$ C7	LM Guide	No.20 2Rail 4 Block	Position Repeatability	± 0.02 mm
Ambient Operation Temp.	0~40°C, 85%RH 이하	Service Lift	15,000 km		

Actuator Specifications

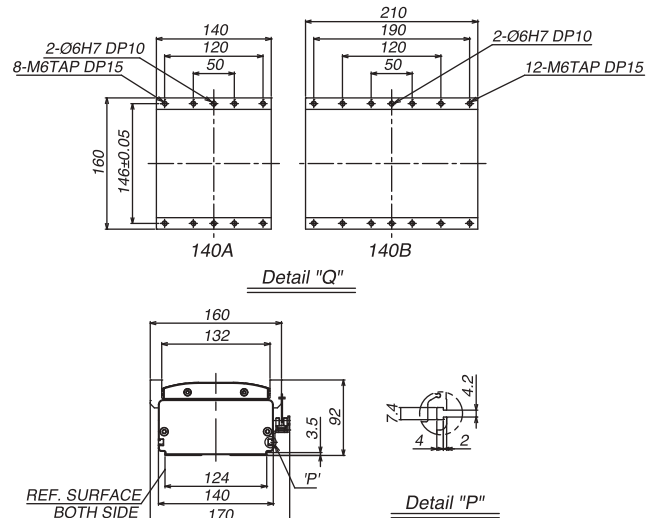
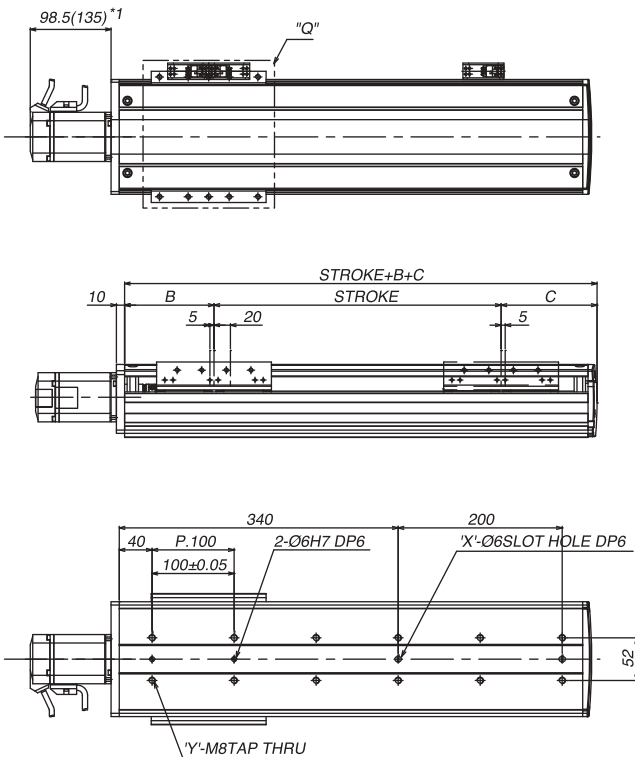
Model	Motor (W)	Lead (mm)	Payload(kg)		Push Force(N)	Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'			
DRA-140A-S-400-L05-□-□	400	5	160	30	1620	250	50 ~ 1500
DRA-140A-S-400-L10-□-□		10	90	30	810	500	
DRA-140A-S-400-L20-□-□		20	50	20	405	1000	
DRA-140A-S-400-L30-□-□		30	20	10	270	1500	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게임.

Model			Stroke															
			50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRA-140A-S-400-L05-□-□		Speed(mm/s)	250						210	170	140	120	100	90	70	70	60	
DRA-140A-S-400-L10-□-□		Speed(mm/s)	500						430	340	280	230	200	170	150	130	120	
DRA-140A-S-400-L20-□-□		Speed(mm/s)	1000						870	690	570	470	410	350	300	270	230	
DRA-140A-S-400-L30-□-□		Speed(mm/s)	1500						1300	1040	850	710	620	530	460	400	350	
Mass(kg)	A Type	≒ 0.0142 * Stroke + 7.5	8.1	8.9	10.3	11.7	13.2	14.6	16.1	17.5	18.9	20.4	21.8	16.6	17.6	18.6	19.7	20.7
	B Type	≒ 0.0142 * Stroke + 9.6	10.3	11	12.4	13.9	15.3	16.8	18.2	19.6	21.1	22.5	24	25.4	26.8	28.3	29.7	31.2

Dimension



*1: () is Brake Motor Dimension

	A	B	C
140A-S	140	109	117
140B-S	210	144	152

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
X	0			1				2				3				4				5				6				7		
Y	6	8	10		12	14	16	18	20	22	24	26	28	30	32	34														

Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRA-140A-P

Ballscrew type, Direct Coupled Motor,
Base Width 140mm



[LP]



[RP]



[BP]

Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	140A	LP	400	I	10	ST50	S3
A:2Rail 4Block No.20 B:2Rail 6Block No.20		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	400 : 400W 400(B) : 400W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm 30 : 30mm	50:50mm ~ 1500:1500mm	S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Specifications

Driving Type	Ballscrew $\Phi 15$ C7	LM Guide	No.20 2Rail 4 Block	Position Repeatability	± 0.02 mm
Ambient Operation Temp.	0~40°C, 85%RH 이하	Service Lift	15,000 km		

* Payload 및 LM Guide의 사양은 Type A의 조건임.

Actuator Specifications

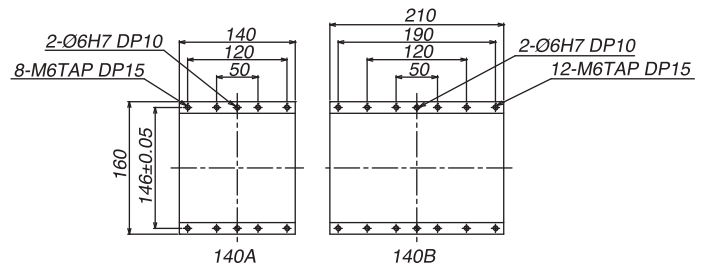
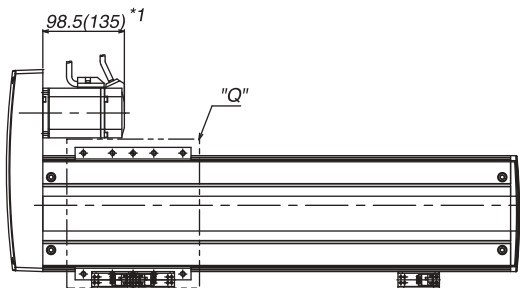
Model	Motor (W)	Lead (mm)	Payload(kg)		Push Force(N)	Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'			
DRA-140A-□-400-L05-□-□	400	5	160	30	1620	250	50 ~ 1500
DRA-140A-□-400-L10-□-□		10	90	30	810	500	
DRA-140A-□-400-L20-□-□		20	50	20	405	1000	
DRA-140A-□-400-L30-□-□		30	20	10	270	1500	

Stroke, Velocity & Robot Mass

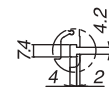
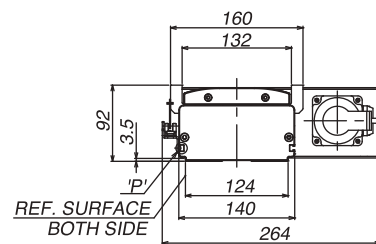
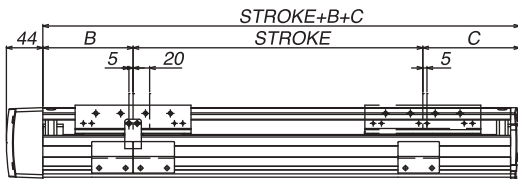
* 파나소닉 모터 기준 산정 무게임.

Model			Stroke															
			50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRA-140A-□P-400-L05-□-□		Speed(mm/s)	250							210	170	140	120	100	90	70	70	60
DRA-140A-□P-400-L10-□-□		Speed(mm/s)	500							430	340	280	230	200	170	150	130	120
DRA-140A-□P-400-L20-□-□		Speed(mm/s)	1000							870	690	570	470	410	350	300	270	230
DRA-140A-□P-400-L30-□-□		Speed(mm/s)	1500							1300	1040	850	710	620	530	460	400	350
Mass(kg)	A Type	≒ 0.0142 * Stroke + 7.5	8.1	8.9	10.3	11.7	13.2	14.6	16.1	17.5	18.9	20.4	21.8	16.6	17.6	18.6	19.7	20.7
	B Type	≒ 0.0142 * Stroke + 9.6	10.3	11	12.4	13.9	15.3	16.8	18.2	19.6	21.1	22.5	24	25.4	26.8	28.3	29.7	31.2

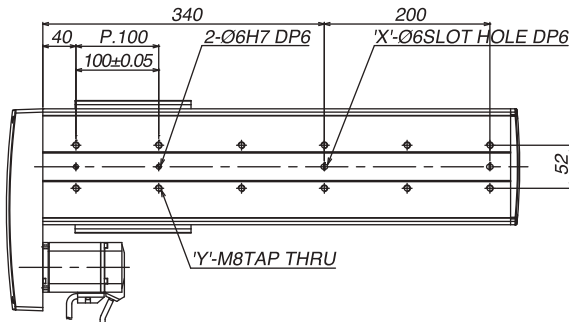
Dimension



Detail "Q"



Detail "P"



*1: () is Brake Motor Dimension

	A	B	C
140A-P	140	109	117
140B-P	210	144	152

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
X	0			1				2				3				4				5				6				7		
Y	6		8		10			12		14		16		18		20		22		24		26		28		30		32		34

Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	140C	S	400	I	20	ST50	S3
	C:2Rail 4Block No.15 D:2Rail 6Block No.15	S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	400 : 400W 400(B) : 400W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm 30 : 30mm 40 : 40mm	50:50mm ~ 2000:2000mm	S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Specifications

Driving Type	Ball screw $\Phi 20$ C7	LM Guide	No.15 2Rail 4 Block	Position Repeatability	$\pm 0.02\text{mm}$
Ambient Operation Temp.	0~40°C, 85%RH 이하	Service Lift	15,000 km		

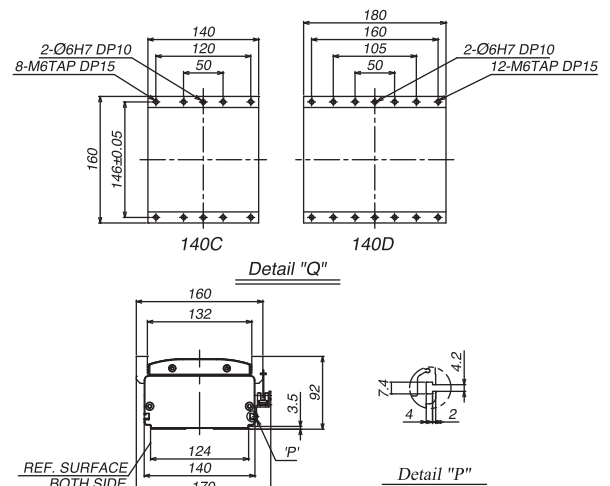
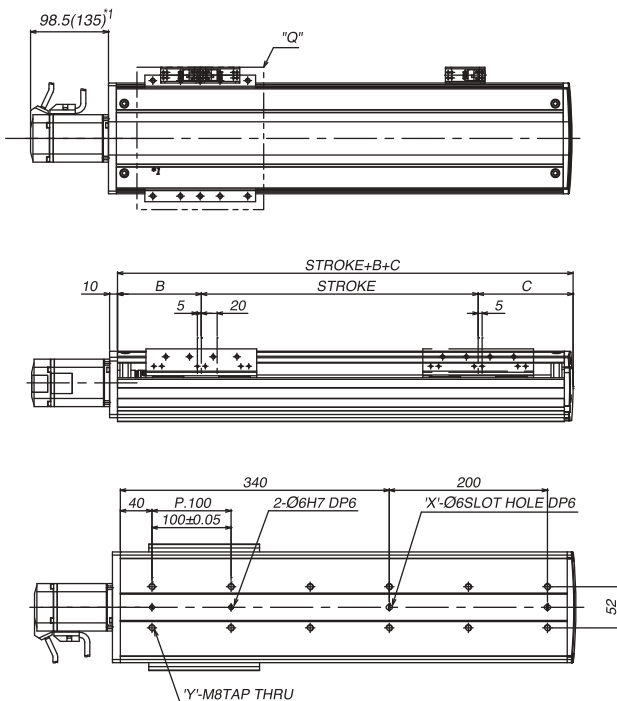
Actuator Specifications

Model	Motor (W)	Lead (mm)	Payload(kg)		Push Force(N)	Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'			
DRA-140C-□-400-L05-□-□	400	5	160	40	1620	250	300 ~ 2000
DRA-140C-□-400-L10-□-□		10	90	50	810	500	
DRA-140C-□-400-L20-□-□		20	50	20	405	1000	
DRA-140C-□-400-L30-□-□		30	20	10	270	1500	
DRA-140C-□-400-L40-□-□		40	10	-	200	2000	

Stroke, Velocity & Robot Mass

Model			Stroke																						
			50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000		
DRA-140C-S-400-L05-□-□		Speed(mm/s)	250										240	200	160	140	120	100	90	80	70	60	60	50	50
DRA-140C-S-400-L10-□-□		Speed(mm/s)	500										480	400	330	280	240	210	180	160	140	130	110	100	90
DRA-140C-S-400-L20-□-□		Speed(mm/s)	1000										940	770	640	540	470	400	350	310	280	250	220	200	180
DRA-140C-S-400-L30-□-□		Speed(mm/s)	1500										1470	1200	1000	850	730	630	550	480	430	390	350	310	290
DRA-140C-S-400-L40-□-□		Speed(mm/s)	2000										1960	1600	1330	1130	970	840	730	650	570	510	460	420	380
Mass(kg)	A Type	≒ 0.0144 * Stroke + 7.5	8.2	8.9	10.4	12	13.4	14.9	16.3	17.8	19.2	20.6	22.1	23.5	25	26.4	27.9	29.3	30.8	32.2	33.7	35.1	36.5		
	B Type	≒ 0.0145 * Stroke + 9	9.7	10.5	11.9	13.3	14.7	16.2	17.6	19.1	20.5	22	23.4	24.9	26.3	27.8	29.2	30.6	32.1	33.5	35	36.4	37.9		

Dimension



*1:() is Brake Motor Dimension

	A	B	C
140C-S	140	106	120
140D-S	180	126	140

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	
X	0								2											5																					
Y	6		8		10			12		14		16		18		20		22		24		26		28		30		32		34		36		38		40		42		44	

Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRA-140C-P

Ballscrew type, Direct Coupled Motor,
Base Width 140mm



[LP]



[RP]



[BP]

Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	140C	LP	400	I	20	ST50	S3
C:2Rail 4Block No.15 D:2Rail 6Block No.15		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	400 : 400W 400(B) : 400W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm 30 : 30mm 40 : 40mm	50:50mm ~ 2000:2000mm	S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Specifications

* Payload 및 LM Guide의 사양은 Type A의 조건임.

Driving Type	Ballscrew $\Phi 20$ C7	LM Guide	No.15 2Rail 4 Block	Position Repeatability	$\pm 0.02\text{mm}$
Ambient Operation Temp.	0~40°C, 85%RH 이하	Service Lift	15,000 km		

Actuator Specifications

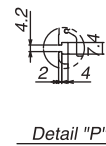
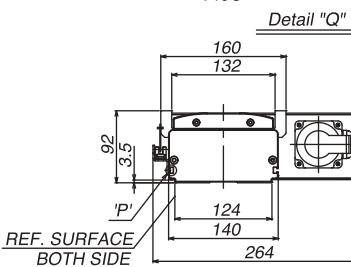
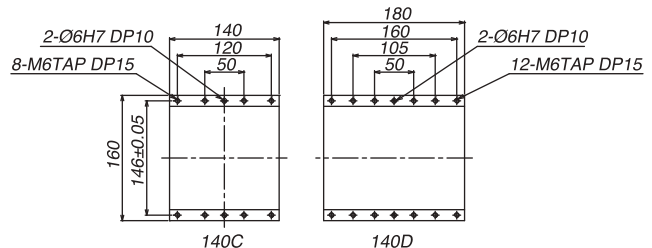
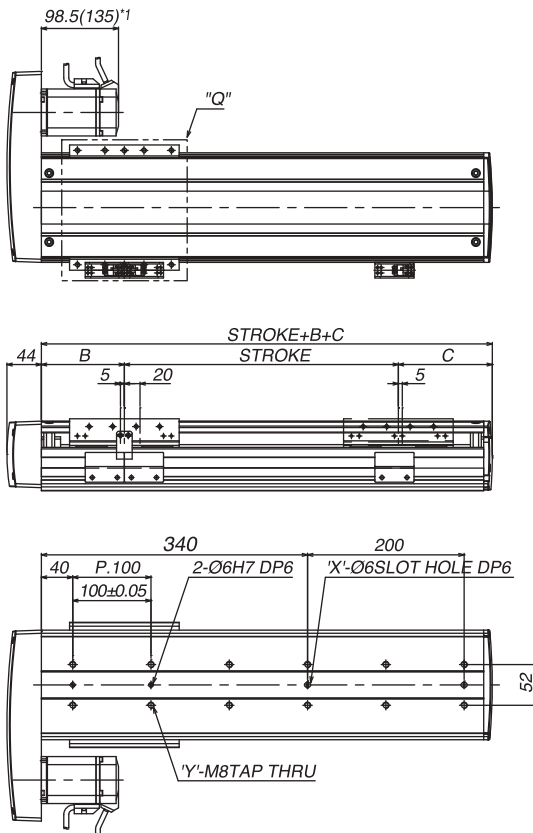
Model	Motor (W)	Lead (mm)	Payload(kg)		Push Force(N)	Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'			
DRA-140C-□-400-L05-□-□	400	5	160	40	1620	250	300 ~ 2000
DRA-140C-□-400-L10-□-□		10	90	50	810	500	
DRA-140C-□-400-L20-□-□		20	50	20	405	1000	
DRA-140C-□-400-L30-□-□		30	20	10	270	1500	
DRA-140C-□-400-L40-□-□		40	10	-	200	2000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게임.

Model			Stroke																				
			50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
DRA-140C-□P-400-L05-□-□		Speed(mm/s)	250							240	200	160	140	120	100	90	80	70	60	60	50	50	
DRA-140C-□P-400-L10-□-□		Speed(mm/s)	500							480	400	330	280	240	210	180	160	140	130	110	100	90	
DRA-140C-□P-400-L20-□-□		Speed(mm/s)	1000							940	770	640	540	470	400	350	310	280	250	220	200	180	
DRA-140C-□P-400-L30-□-□		Speed(mm/s)	1500							1470	1200	1000	850	730	630	550	480	430	390	350	310	290	
DRA-140C-□P-400-L40-□-□		Speed(mm/s)	2000							1960	1600	1330	1130	970	840	730	650	570	510	460	420	380	
Mass(kg)	A Type	≒ 0.0144 * Stroke + 7.5	8.2	8.9	10.4	12	13.4	14.9	16.3	17.8	19.2	20.6	22.1	23.5	25	26.4	27.9	29.3	30.8	32.2	33.7	35.1	36.5
	B Type	≒ 0.0145 * Stroke + 9	9.7	10.5	11.9	13.3	14.7	16.2	17.6	19.1	20.5	22	23.4	24.9	26.3	27.8	29.2	30.6	32.1	33.5	35	36.4	37.9

Dimension



*1: () is Brake Motor Dimension

	A	B	C
140C-P	140	106	120
140D-P	180	126	140

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	
X	0			1				2					3				4				5				6				7				8				9				10
Y	6	8	10				12	14			16	18			20	22			24	26			28	30			32	34			36	38			40	42				44	

Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRA-170A-S

Ballscrew type, Direct Coupled Motor,
Base Width 170mm



[S]

Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	170A	S	750	I	20	ST50	S3
A:2Rail 4Block No.20 B:2Rail 6Block No.20		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	750 : 750W 750(B) : 750W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm 30 : 30mm 40 : 40mm	50:50mm ~ 2500:2500mm	S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Specifications

* Payload 및 LM Guide의 사양은 Type A의 조건임.

Driving Type	Ballscrew $\Phi 20$ C7	LM Guide	No.20 2Rail 4 Block	Position Repeatability	± 0.02 mm
Ambient Operation Temp.	0~40°C, 85%RH 이하	Service Lift	15,000 km		

Actuator Specifications

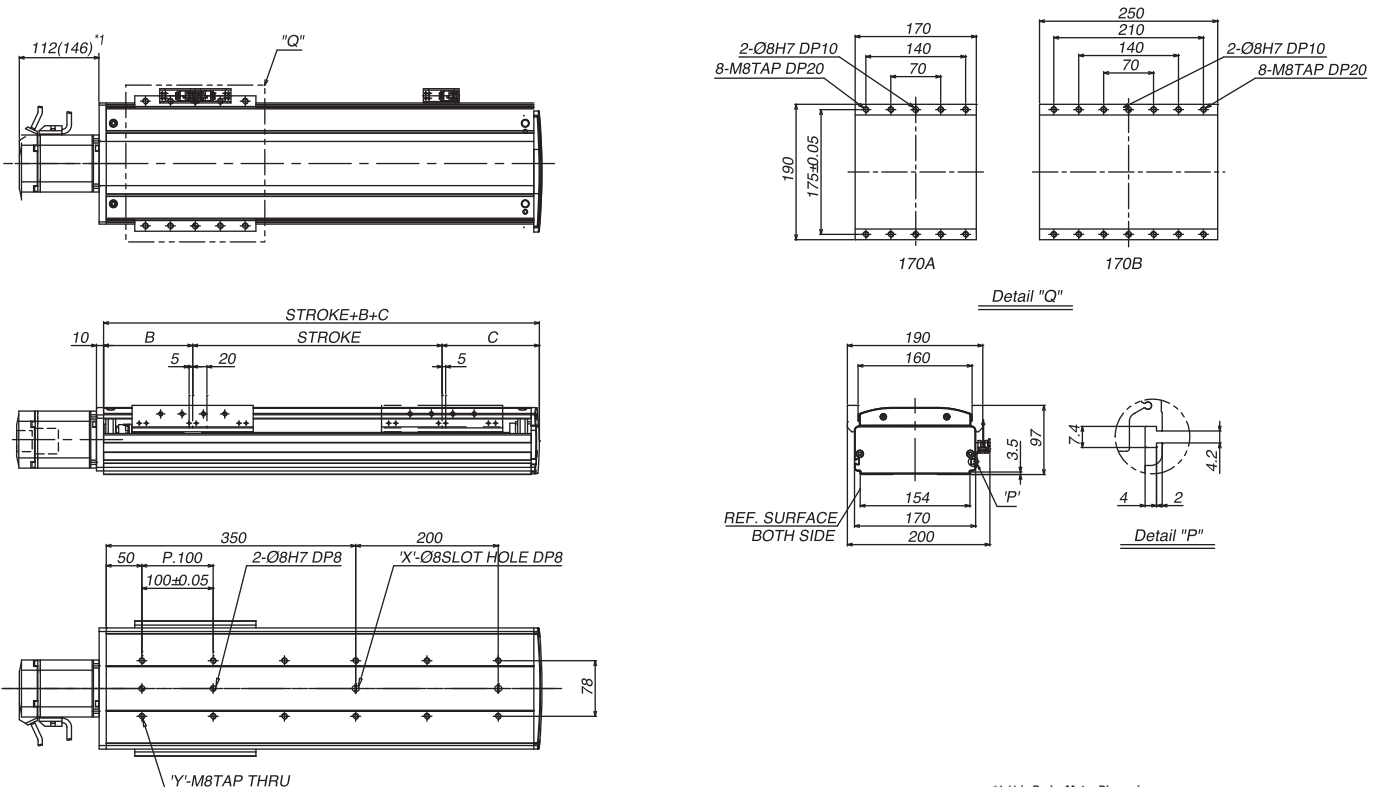
Model	Motor (W)	Lead (mm)	Payload(kg)		Push Force(N)	Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'			
DRA-170A-□-750-L05-□-□	750	5	240	80	3016	250	50 ~ 2500
DRA-170A-□-750-L10-□-□		10	180	80	1508	500	
DRA-170A-□-750-L20-□-□		20	90	30	754	1000	
DRA-170A-□-750-L30-□-□		30	50	20	503	1500	
DRA-170A-□-750-L40-□-□		40	25	10	377	2000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게임.

Model		Stroke																											
		50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500		
DRA-170A-S-750-L05-□-□		Speed(mm/s)	250							240	200	160	140	120	100	90	80	70	60	60	50	50	40	40	40	30	30		
DRA-170A-S-750-L10-□-□		Speed(mm/s)	500							480	390	330	280	240	210	180	160	140	130	110	100	90	90	80	70	70	60		
DRA-170A-S-750-L20-□-□		Speed(mm/s)	1000							930	760	640	540	460	400	350	310	280	250	220	200	180	170	150	140	130	120		
DRA-170A-S-750-L30-□-□		Speed(mm/s)	1500							1450	1190	990	840	720	620	550	480	430	380	340	310	280	260	240	220	200	190		
DRA-170A-S-750-L40-□-□		Speed(mm/s)	2000							1930	1580	1320	1120	960	830	730	640	570	510	460	420	380	350	320	290	270	250		
Mass(kg)	A Type	≒ 0.175 * Stroke + 11.5	12.3	13.2	14.9	16.7	18.4	20.2	21.9	23.7	25.4	27.2	28.9	30.7	32.4	34.2	35.9	37.7	39.4	41.2	42.9	44.7	46.4	48.2	49.9	51.7	53.4	55.2	
	B Type	≒ 0.0175 * Stroke + 11.5	15.3	16.1	17.9	19.6	21.4	23.1	24.9	26.6	28.4	30.1	31.9	33.6	35.4	37.1	38.9	40.6	42.4	44.1	45.9	47.6	49.4	51.1	52.9	54.6	56.4	58.1	

Dimension



*1: () is Brake Motor Dimension

	A	B	C
170A-S	170	125	136.5
170B-S	250	165	176.5

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500
X	0			1				2				3			4				5				6				7				8				9				10				11				12			
Y	6		8		10			12		14		16		18		20		22		24		26		28		30		32		34		36		38		40		42		44		46		48		50		52		54

Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRA-170A-P

Ballscrew type, Direct Coupled Motor,
Base Width 170mm



[LP]



[RP]



[BP]

Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	170A	LP	750	I	20	ST50	S3
A:2Rail 4Block No.20 B:2Rail 6Block No.20		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	750 : 750W 750(B) : 750W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm 30 : 30mm 40 : 40mm	50:50mm ~ 2500:2500mm	S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Specifications

Driving Type	Ballscrew $\Phi 20$ C7	LM Guide	No.20 2Rail 4 Block	Position Repeatability	± 0.02 mm
Ambient Operation Temp.	0~40°C, 85%RH 이하	Service Lift	15,000 km		

* Payload 및 LM Guide의 사양은 Type A의 조건임.

Actuator Specifications

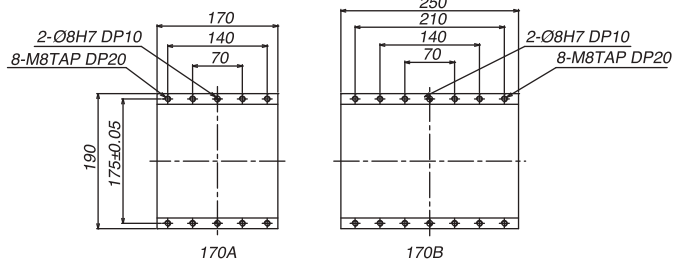
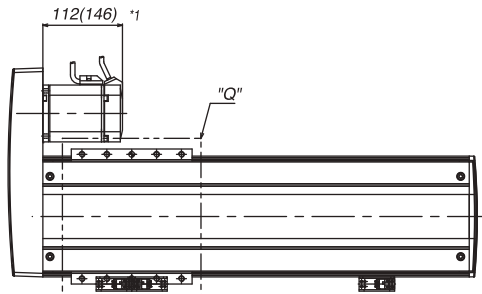
Model	Motor (W)	Lead (mm)	Payload(kg)		Push Force(N)	Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'			
DRA-170A-□-750-L05-□-□	750	5	240	80	3016	250	50 ~ 2500
DRA-170A-□-750-L10-□-□		10	180	80	1508	500	
DRA-170A-□-750-L20-□-□		20	90	30	754	1000	
DRA-170A-□-750-L30-□-□		30	50	20	503	1500	
DRA-170A-□-750-L40-□-□		40	25	10	377	2000	

Stroke, Velocity & Robot Mass

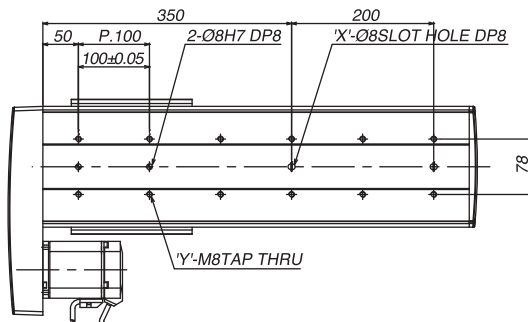
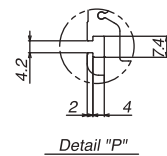
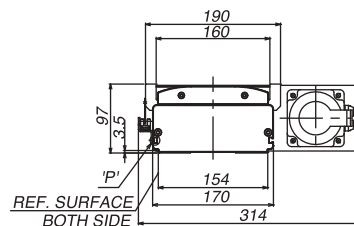
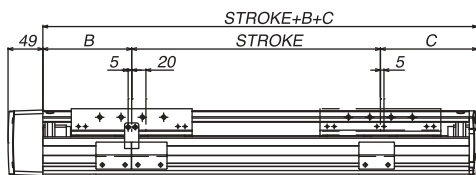
* 파나소닉 모터 기준 산정 무게임.

Model		Stroke																											
		50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500		
DRA-170A-□P-750-L05-□-□		Speed(mm/s)				250				240	200	160	140	120	100	90	80	70	60	60	50	50	40	40	40	30	30		
DRA-170A-□P-750-L10-□-□		Speed(mm/s)				500				480	390	330	280	240	210	180	160	140	130	110	100	90	90	80	70	70	60		
DRA-170A-□P-750-L20-□-□		Speed(mm/s)				1000				930	760	640	540	460	400	350	310	280	250	220	200	180	170	150	140	130	120		
DRA-170A-□P-750-L30-□-□		Speed(mm/s)				1500				1450	1190	990	840	720	620	550	480	430	380	340	310	280	260	240	220	200	190		
DRA-170A-□P-750-L40-□-□		Speed(mm/s)				2000				1930	1580	1320	1120	960	830	730	640	570	510	460	420	380	350	320	290	270	250		
Mass(kg)	A Type	≅ 0175 * Stroke + 11.5		12.3	13.2	14.9	16.7	18.4	20.2	21.9	23.7	25.4	27.2	28.9	30.7	32.4	34.2	35.9	37.7	39.4	41.2	42.9	44.7	46.4	48.2	49.9	51.7	53.4	55.2
	B Type	≅ 0.0175 * Stroke + 11.5		15.3	16.1	17.9	19.6	21.4	23.1	24.9	26.6	28.4	30.1	31.9	33.6	35.4	37.1	38.9	40.6	42.4	44.1	45.9	47.6	49.4	51.1	52.9	54.6	56.4	58.1

Dimension



Detail "Q"



*1: () is Brake Motor Dimension

	A	B	C
170A-P	170	125	136.5
170B-P	250	165	176.5

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500																			
X	0	1					2					3					4					5					6					7					8					9					10					11					12												
Y	6	8	10	12			14			16			18			20			22			24			26			28			30			32			34			36			38			40			42			44			46			48			50			52			54		

Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRA-200A-S

Ballscrew type, Direct Coupled Motor,
Base Width 200mm

[S]

Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	200A	S	750	I	20	ST50	S3
A: 2Rail 4Block No.25 B: 2Rail 6Block No.25		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	750 : 750W 750(B) : 750W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm 30 : 30mm 40 : 40mm	50: 50mm ~ 2500: 2500mm	S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Specifications

* Payload 및 LM Guide의 사양은 Type A의 조건임.

Driving Type	Ballscrew $\Phi 20$ C7	LM Guide	No.25 2Rail 4 Block	Position Repeatability	± 0.02 mm
Ambient Operation Temp.	0~40°C, 85%RH 이하	Service Lift	15,000 km		

Actuator Specifications

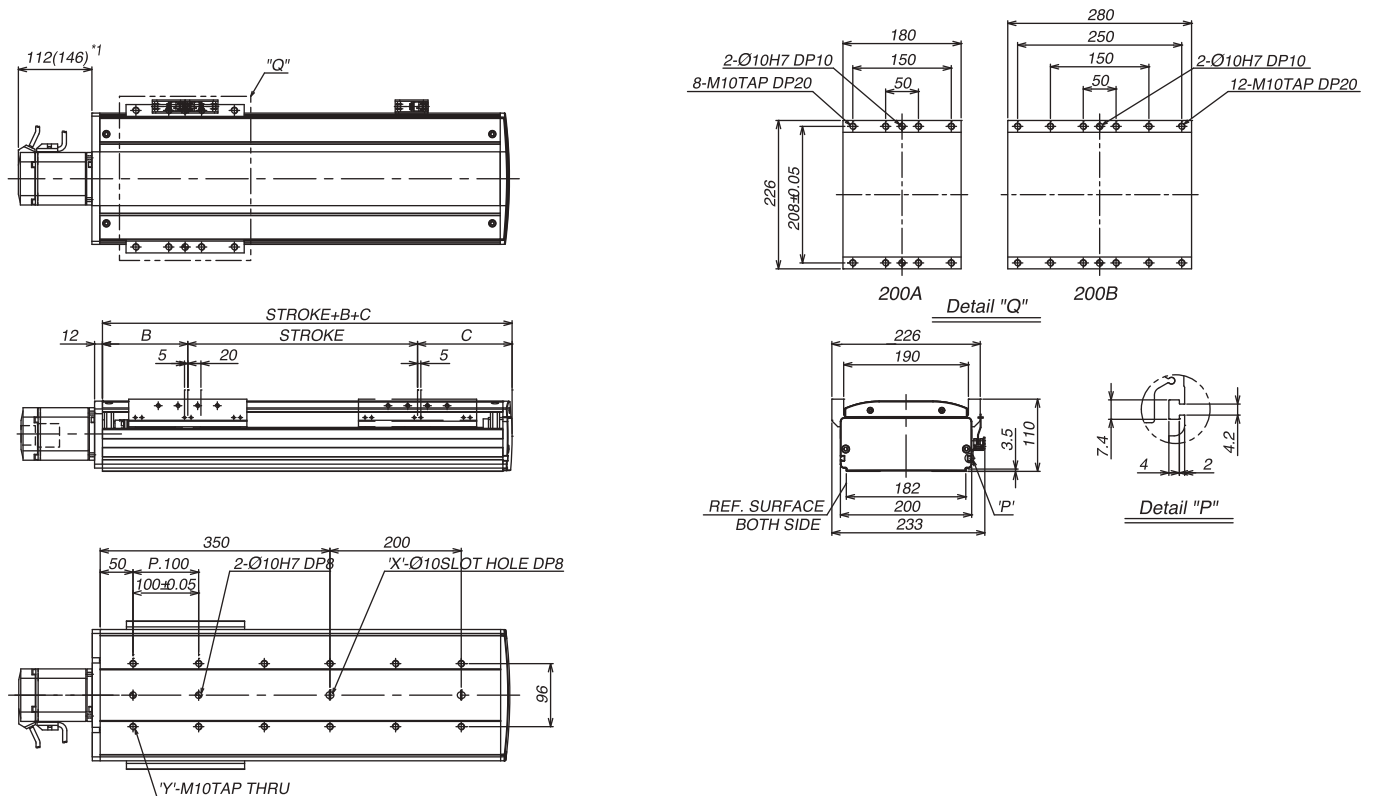
Model	Motor (W)	Lead (mm)	Payload(kg)		Push Force(N)	Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'			
DRA-200A-□-750-L05-□-□	750	5	240	80	3116	250	50 ~ 2500
DRA-200A-□-750-L10-□-□		10	180	80	1508	500	
DRA-200A-□-750-L20-□-□		20	90	30	754	1000	
DRA-200A-□-750-L30-□-□		30	50	20	503	1500	
DRA-200A-□-750-L40-□-□		40	25	10	377	2000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게임.

Model		Stroke																										
		50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	
DRA-200A-S-750-L05-□-□		Speed(mm/s)			250					230	190	160	140	120	100	90	80	70	60	60	50	50	40	40	40	30	30	
DRA-200A-S-750-L10-□-□		Speed(mm/s)			500					470	380	320	270	230	200	180	160	140	120	110	100	90	80	80	70	70	60	
DRA-200A-S-750-L20-□-□		Speed(mm/s)			1000					910	750	630	530	460	400	350	310	270	240	220	200	180	170	150	140	130	120	
DRA-200A-S-750-L30-□-□		Speed(mm/s)			1500					1420	1160	970	820	710	610	540	480	420	380	340	310	280	260	240	220	200	190	
DRA-200A-S-750-L40-□-□		Speed(mm/s)			2000					1890	1550	1300	1100	940	820	720	630	560	500	450	410	370	340	310	290	270	250	
Mass(kg)	A Type	≒ 0.0216 * Stroke + 14.5	15.6	16.6	18.8	21	23.1	25.3	27.5	29.6	31.8	34	36.1	38.3	40.4	42.6	44.8	46.9	49.1	51.3	53.4	55.6	57.7	59.9	62.1	64.2	66.4	68.6
	B Type	≒ 0.0216 * Stroke + 19.5	20.5	21.6	23.7	25.9	28.1	30.2	32.4	34.6	36.7	38.9	41	43.2	45.4	47.5	49.7	51.9	54	56.2	58.3	60.5	62.7	64.8	67	69.2	71.3	73.5

Dimension



*1: () is Brake Motor Dimension

	A	B	C
200A-S	180	130	144
200B-S	280	180	194

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500											
X	0	1					2					3					4					5					6					7					8					9					10					11					12				
Y	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30	32	32	34	34	36	36	38	38	40	40	42	42	44	44	46	46	48	48	50	50	52	52	54	54												

Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRA-200A-P

Ballscrew type, Direct Coupled Motor,
Base Width 200mm



[LP]



[RP]



[BP]

Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRA	200A	LP	750	I	20	ST50	S3
A:2Rail 4Block No.25 B:2Rail 6Block No.25		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	750 : 750W 750(B) : 750W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm 30 : 30mm 40 : 40mm	50:50mm ~ 2500:2500mm	S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Specifications

* Payload 및 LM Guide의 사양은 Type A의 조건임.

Driving Type	Ballscrew $\Phi 20$ C7	LM Guide	No.25 2Rail 4 Block	Position Repeatability	± 0.02 mm
Ambient Operation Temp.	0~40°C, 85%RH 이하	Service Lift	15,000 km		

Actuator Specifications

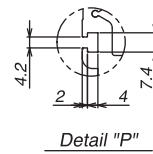
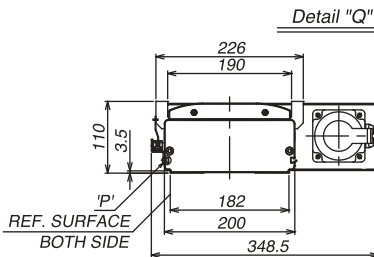
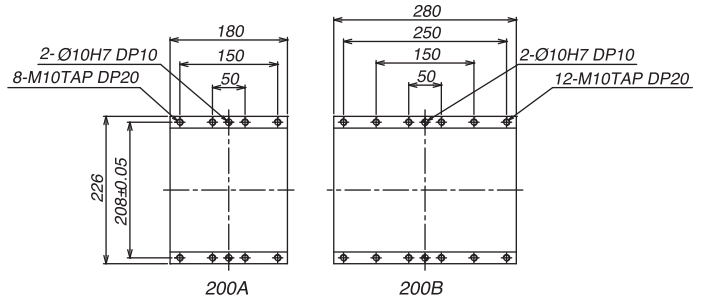
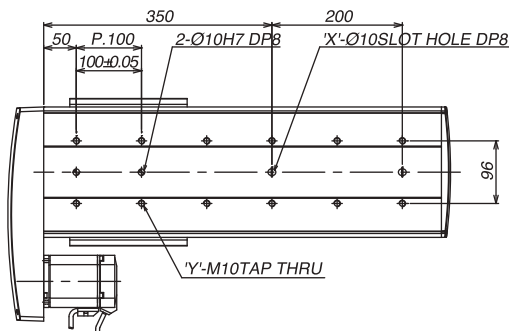
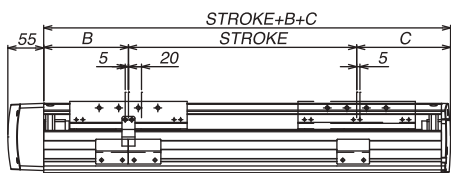
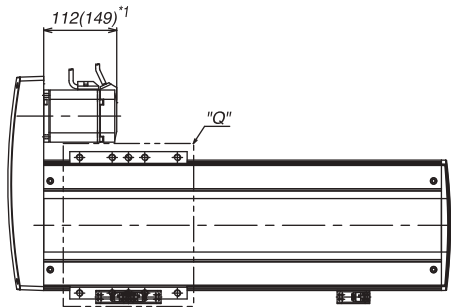
Model	Motor (W)	Lead (mm)	Payload(kg)		Push Force(N)	Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'			
DRA-200A-□-750-L05-□-□	750	5	240	80	3116	250	50 ~ 2500
DRA-200A-□-750-L10-□-□		10	180	80	1508	500	
DRA-200A-□-750-L20-□-□		20	90	30	754	1000	
DRA-200A-□-750-L30-□-□		30	50	20	503	1500	
DRA-200A-□-750-L40-□-□		40	25	10	377	2000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게임.

Model			Stroke																									
			50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
DRA-200A-□P-750-L05-□-□			Speed(mm/s)	250							230	190	160	140	120	100	90	80	70	60	50	50	40	40	40	30	30	
DRA-200A-□P-750-L10-□-□			Speed(mm/s)	500							470	380	320	270	230	200	180	160	140	120	110	100	90	80	80	70	70	60
DRA-200A-□P-750-L20-□-□			Speed(mm/s)	1000							910	750	630	530	460	400	350	310	270	240	220	200	180	170	150	140	130	120
DRA-200A-□P-750-L30-□-□			Speed(mm/s)	1500							1420	1160	970	820	710	610	540	480	420	380	340	310	280	260	240	220	200	190
DRA-200A-□P-750-L40-□-□			Speed(mm/s)	2000							1890	1550	1300	1100	940	820	720	630	560	500	450	410	370	340	310	290	270	250
Mass(kg)	A Type	≅ 0.0216 * Stroke + 14.5	15.6	16.6	18.8	21	23.1	25.3	27.5	29.6	31.8	34	36.1	38.3	40.4	42.6	44.8	46.9	49.1	51.3	53.4	55.6	57.7	59.9	62.1	64.2	66.4	68.6
	B Type	≅ 0.0216 * Stroke + 19.5	20.5	21.6	23.7	25.9	28.1	30.2	32.4	34.6	36.7	38.9	41	43.2	45.4	47.5	49.7	51.9	54	56.2	58.3	60.5	62.7	64.8	67	69.2	71.3	73.5

Dimension



*1: () is Brake Motor Dimension

	A	B	C
200A-P	180	130	144
200B-P	280	180	194

Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500											
X	0	1					2					3					4					5					6					7					8					9					10					11					12				
Y	6	8	10	12			14	16			18	20			22	24			26	28			30	32			34	36			38	40			42	44			46	48			50	52			54														

Applicable controllers

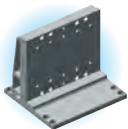
Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

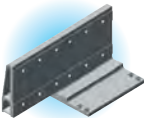
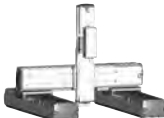
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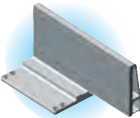
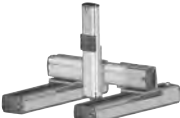
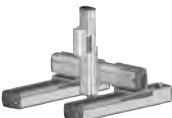
- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

Assorted combination types and Brackets

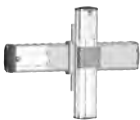
Model	2 Axes	3 Axes	4 Axes	5 Axes
 MRB-A	 MRB-A1	 MRB-A2		
		 MRB-A3		

Model	2 Axes	3 Axes	4 Axes	5 Axes
 MRB-B	 MRB-B1	 MRB-B2		

Model	2 Axes	3 Axes	4 Axes	5 Axes
 MRB-C	 MRB-C1	 MRB-C2	 MRB-C3	 MRB-C4
		 MRB-C5	 MRB-C6	

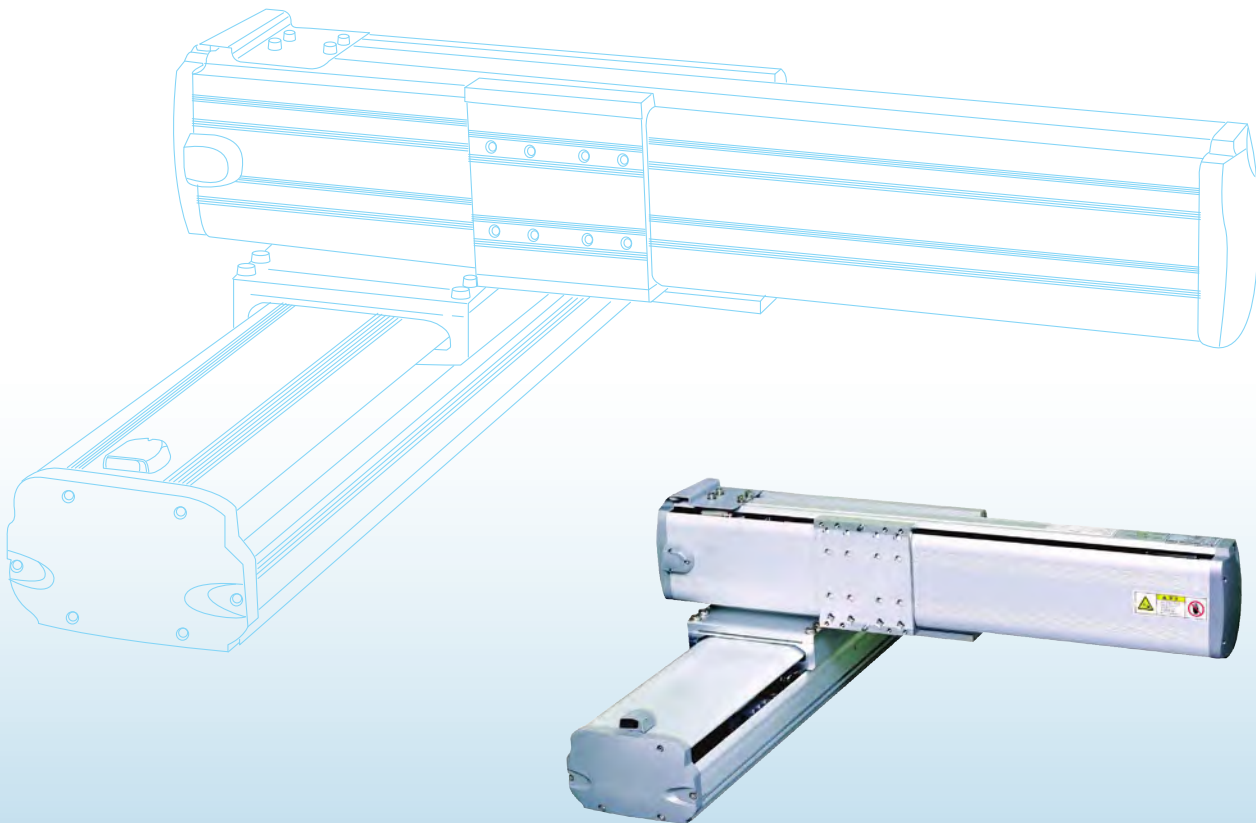
Model	2 Axes	3 Axes	4 Axes	5 Axes
 MRB-D	 MRB-D1	 MRB-D2	 MRB-D3	 MRB-D4
		 MRB-D5	 MRB-D6	

Assorted combination types and Brackets

Model	2 Axes	3 Axes	4 Axes	5 Axes
 MRB-G	 MRB-G1			

Model	2 Axes	3 Axes	4 Axes	5 Axes
 MRB-T	 MRB-T1	 MRB-T2		

CARTESIAN ROBOT / DRM series



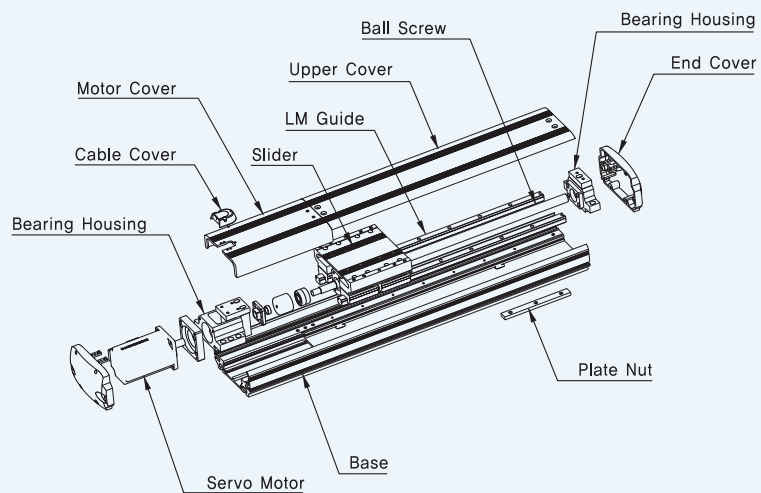
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DRM(P)80/130/160-SD,L(R)D	
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DRM90-BG ~ DRM250-BG	

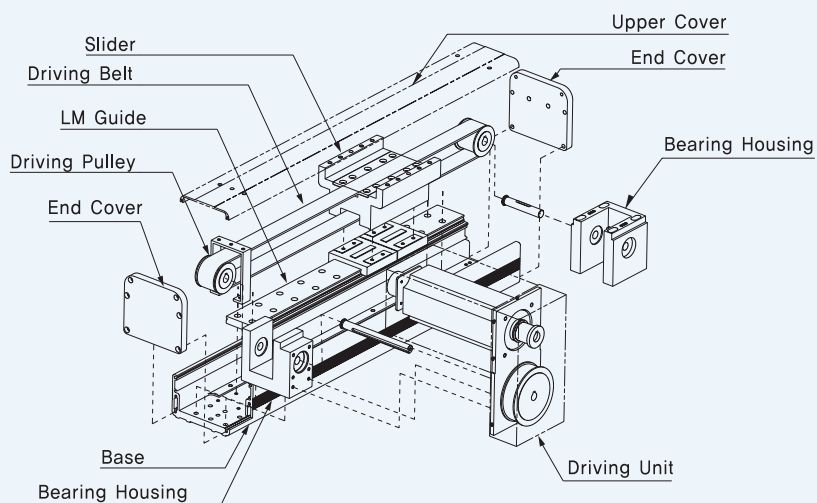
Feature

1. Structure

DRM - S : Ballscrew Type



DRM-B : Belt Type



2. Various model range

DRM series includes various line-up of products and meet various applications featuring high rigidity and payload.

DRM시리즈는 다양한 제품 라인업을 포함하며, 고강도 및 가반하중 특성을 보유한 다양한 어플리케이션에 부합합니다.

- ▶ Driving Type : Ballscrew, Belt Driving Type, Rotary unit(R axis)
- ▶ Applied Motor : 100~1000W
- ▶ Stroke : 50~10,000 mm
- ▶ Speed : 250~2000 mm/s
- ▶ Payload : Up to 300kg(Horizontal) / 120kg(Vertical)

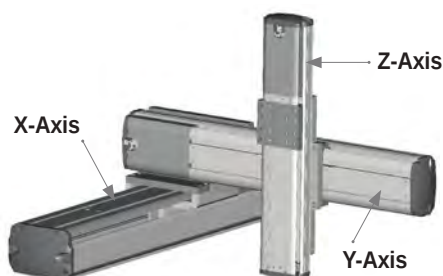
* The stroke is Ballscrew type. In the case of belt type, the stroke is much longer. Please ask to DST Robot for longer stroke.

* Specific desired specifications are required to be discussed in advance

3. X, Y, Z Axis and Parallel type

1) X,Y, Z Axis - X,Y and Z axes are combined together depending on combination. Moment is useful as a reference for assembly

X, Y, Z축 조합니즈에 따라 X,Y,Z축으로 조합될 수 있습니다. 모멘트는 조합의 참고자료로 사용됩니다.



- ▶ X-Axis : X axis is fixed to the worktable and payload weigh down horizontally on X axis.
Payload = Y&Z Axis weight + Tool weight.

X-Axis : X축은 작업테이블에 고정되며 가반하중은 Y&Z축 무게+사용 툴 무게로 정해집니다.

- ▶ Y-Axis : Wall mounted payload,
Payload = Z Axis weight + Tool Weight

Y-Axis : 벽에 장착된 가반하중으로, 가반하중은 Z축 무게+사용툴 무게로 정해집니다.

- ▶ Z-Axis : Tool is moving up and down and payload weigh down on vertically on Z axis.
Z-Axis : 도구는 위아래로 움직이며 가반하중은 Z축의 수직으로 이동하는 무게로 정해집니다.

2) X,Y, Z Axis - X,Y and Z axes are combined together depending on combination. Moment is useful as a reference for assembly

X, Y, Z축 조합니즈에 따라 X,Y,Z축으로 조합될 수 있습니다. 모멘트는 조합의 참고자료로 사용됩니다.



Type : S



Type : LP



Type : RP



Type : BP

4. Controller

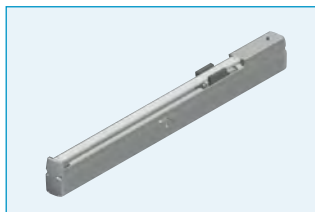
Single axis controller and Multi axes Controller are applicable.

Controller	Model	Type	Number of controlled axis	Page
	iMS-Jp	Single axis Controller	1 axis	200
	iM-U	Multi axes Controller	2~8 axes	206

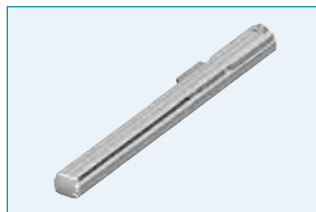
Ballscrew Type

DRM 50~250 S(P)

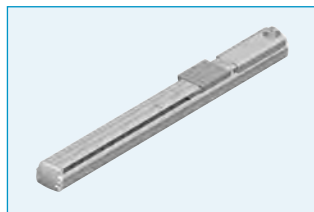
■ DRM50-S



■ DRM60-S



■ DRM80-S



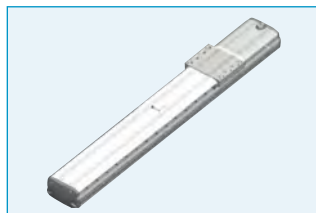
■ DRM90-S



■ DRM130-S



■ DRM160-S



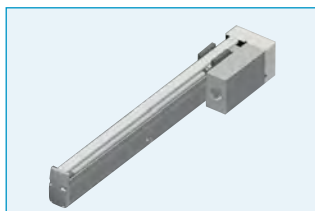
■ DRM200-S



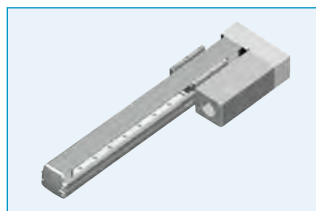
■ DRM250-S



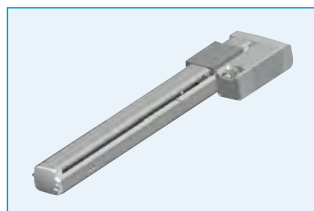
■ DRM50-P



■ DRM60-P



■ DRM80-P



■ DRM90-P



■ DRM130-P



■ DRM160-P



■ DRM200-P

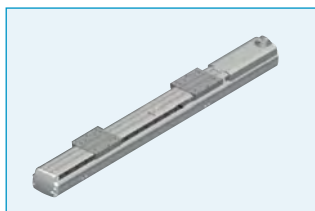


■ DRM250-P



Dual Sliders

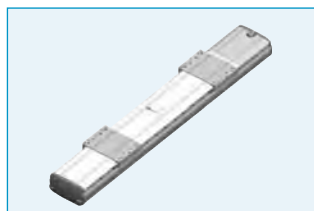
■ DRM80-SD



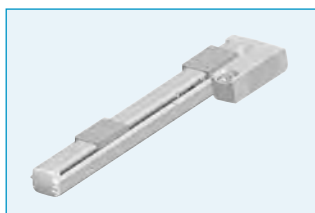
■ DRM130-SD



■ DRM160-SD



■ DRM80-DR(L)



■ DRM130-DR(L)



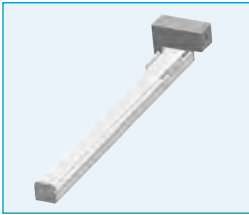
■ DRM160-DR(L)



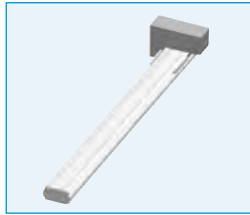
MEMO

Belt Type

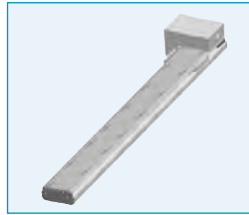
■ DRM90-B



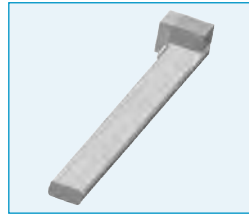
■ DRM130-B



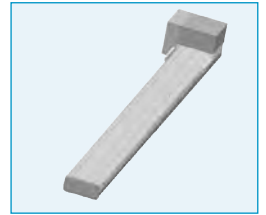
■ DRM160-B



■ DRM200-B

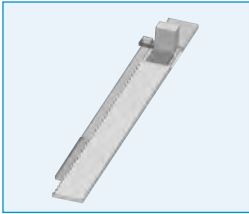


■ DRM250-B



Rack & Pinion Type

■ DRM250-R



Rotary Unit Type

■ DRMR



MEMO

Ordering Model

①	②	③	④	⑤	⑥	⑦	⑧
Series	Base width	Type	Motor Power	Encoder	Lead	Stroke	Option
DRM	80	- S	- 100	- I	- 10	- ST50	- S1

① Series

Name of series : DRM series is standard cartesian robot

DRM : Cartesian robot, Single axis, Standard specifications

DRMP : Cartesian robot, Single axis, Standard specifications
High precision

DRMC : Cartesian robot, Single axis, Clean room specifications

DRMCP : Cartesian robot, Single axis, Clean room specifications
High precision

DRMD : Cartesian robot, Single axis, Dust proof specifications

DRMDP : Cartesian robot, Single axis
Dust proof specifications, High precision

② Base width

The base width of each models

③ Type

The type of actuator or drive

S : Ballscrew, Straight type (Motor in-Line type)

LP : Ballscrew, Left side parallel type (Motor side mount-Left)

RP : Ballscrew, Right side parallel type (Motor side mount-Right)

BP : Ballscrew, Rear side parallel type (Motor side mount-Bottom)

SD : Ballscrew, Dual Slider, Straight type (Motor in-line type)

DL : Ballscrew, Dual Slider, Left side parallel type
(Motor side mount-Left)

DR : Ballscrew, Dual Slider, Right side parallel type
(Motor side mount-Right)

B : Belt, Deceleration by Pulley

BG : Belt, Deceleration by Reducer, top side parallel type

R : Rack & Pinion

G : Guide(Slave)-axis

*Guide-axis model includes series, base width, type, and stroke in the ordering model
(Ex: DRM80-G-400)

④ Motor

Motor capacity(W)

(Ex : 100 = 100W / 100B = 100W(Brake))

⑤ Encoder

A : Absolute Encoder

The current slider position will be retained even after the power is turned off, so origin return is not required when the power is turned on.

I : Incremental Encoder

The slider position data will be cleared once the power is turned off, so origin return is required whenever the power is turned on.

⑥ Lead

The speed of Ballscrew type is decided by lead length and the speed of belt type is decided by reduction gear rate.

(Ex : 05=Lead 5mm)

* 3,000RPM is maximum speed of the standard servo motor.

Speed is different by payload and operation conditions.

⑦ Stroke

The operation range of cartesian robot

(Ex : ST300=300mm)

⑧ Option

The Options to be equipped on the robot

* Sensor Option

S1 : In the robot by magnetic sensor

S2 : In the robot by magnetic sensor. Org

S3 : External photo sensor 3

* ETC Option

K : K1 seal grease for the LM guide

R : Retainer seal grease for the LM guide

Model List

DRM Series

Ballscrew type(Single slider)

Series	Base width	-	Type	-	Motor	-	Encoder	-	Lead	-	Stroke	-	Option
DRM DRMP	50	-	S LP RP BP	-	100	-	I A	-	L05 / L10 / L20	-	100 ~ 1100	-	S1~S3 K R
	60	-		-		-		-	L10	-	100 ~ 700	-	
	80	-		-	200	-		-	L05 / L10 / L20	-	100 ~ 1100	-	
	90	-		-		-		-		-		-	
	115	-		-		-		-	L05 / L10 / L20	-	100 ~ 1500	-	
	130	-		-		-		-		-		-	
	160	-		-	400	-		-	L10 / L20	-	100 ~ 1500	-	
	200	-		-	750	-		-	L10 / L25 / L50	-	100 ~ 2000	-	
		-		-	750	-		-		-		-	
		-		-	750	-		-		-		-	
	250	-		-	1000	-		-		-		-	

Ballscrew type(Dual slider)

Series	Base width	-	Type	-	Motor	-	Encoder	-	Lead	-	Stroke	-	Option
DRM	80	-	SD	-	100	-	I A	-	L10	-	100 ~ 600	-	S1~S3 K R
	130	-	DL	-	200	-		-		-		-	
	160	-	DR	-	400	-		-		-		-	

Belt type

Series	Base width	-	Type	-	Motor	-	Encoder	-	Lead	-	Stroke	-	Option
DRM	90	-	B BG	-	400	-	I A	-	1800	-	1000 ~ 2500	-	S1~S3 K R
	130	-		-	750	-		-	2000	-		-	
	160	-		-	750	-		-		-	1000 ~ 4000	-	
	200	-		-		-		-	2500	-		-	
	250	-		-		-		-		-	1000 ~ 4500	-	

Rack & Pinion type

Series	Base width	-	Type	-	Motor	-	Encoder	-	Lead	-	Stroke	-	Option
DRM	250	-	R	-	1000	-	I A	-	L40	-	1000 ~ 4000	-	S1~S3 K R

Rotary unit

Series	-	Motor	-	Encoder	-	Lead
DRMR	-	100	-	I	-	1800(deg/s)

Specification Table

Ballscrew type(In-Line)

Single slider	Stroke(mm), maximum speed(mm/s)																				
Model	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	
DRM(P)50-S	250																				
	500							400	320	260	220										
	1000							800	640	530	440										
DRM(P)60-S	500					390	310														
DRM(P)80-S	250																				
	500						480	380	310	250	210										
	1000						970	770	620	510	430										
DRM(P)90-S	250																				
	500						480	380	310	250	210										
	1000						970	770	620	510	430										
DRM(P)115-S	250																				
	500						480	380	300	250	210										
	1000						960	760	610	500	420										
DRM(P)130-S	250																				
	500						490	380	310	260	210										
	1000						990	780	630	520	430										
DRM(P)160-S	250																				
	500						470	370	300	250	210	256	221	192	169						
	1000						950	750	610	500	420	512	441	384	338						
DRM(P)200-S	500									440	370	310	270	240	210	180	160	150	130	120	
	1250									1100	930	790	690	600	530	470	420	370	340	310	
	2500									2210	1860	1590	1380	1200	1060	940	840	750	680	620	
DRM(P)250-S	500								470	390	330	290	250	220	190	170	150	140	120	110	
	1250								1100	990	840	720	630	550	490	430	390	350	320	290	
	2500								2370	1990	1690	1450	1260	1110	980	870	780	710	640	580	

	Lead (mm)	Rated speed (mm/s)	Motor (W)	Payload at rated acceleration (kg)		Payload by acceleration(kg)							
						0.3G	0.4G	0.5G	0.6G	0.7G	0.8G	0.9G	1.0G
	5	250	100	Horizontal	22	-	-	-	-	-	-	-	-
				Vertical	15	-	-	-	-	-	-	-	-
	10	500	100	Horizontal	15	-	-	-	-	-	-	-	-
				Vertical	7	-	-	-	-	-	-	-	-
	20	900	100	Horizontal	5	-	-	-	-	-	-	-	-
				Vertical	-	-	-	-	-	-	-	-	-
	10	500	100	Horizontal	15	-	-	-	-	-	-	-	-
				Vertical	7	-	-	-	-	-	-	-	-
	5	250	100	Horizontal	22	-	-	-	-	-	-	-	-
				Vertical	15	-	-	-	-	-	-	-	-
	10	500	100	Horizontal	15	-	-	-	-	-	-	-	-
				Vertical	7	-	-	-	-	-	-	-	-
	20	1000	100	Horizontal	7	-	-	-	-	-	-	-	-
				Vertical	-	-	-	-	-	-	-	-	-
	5	250	200	Horizontal	80	-	-	-	-	-	-	-	-
				Vertical	25	-	-	-	-	-	-	-	-
	10	500	200	Horizontal	30	-	-	-	-	-	-	-	-
				Vertical	12	-	-	-	-	-	-	-	-
	20	1000	200	Horizontal	15	-	-	-	-	-	-	-	-
				Vertical	6	-	-	-	-	-	-	-	-
	5	250	200	Horizontal	80	-	-	-	-	-	-	-	-
				Vertical	25	-	-	-	-	-	-	-	-
	10	500	200	Horizontal	30	-	-	-	-	-	-	-	-
				Vertical	12	-	-	-	-	-	-	-	-
	20	1000	200	Horizontal	15	-	-	-	-	-	-	-	-
				Vertical	6	-	-	-	-	-	-	-	-
	5	250	200	Horizontal	80	-	-	-	-	-	-	-	-
				Vertical	25	-	-	-	-	-	-	-	-
	10	500	200	Horizontal	30	-	-	-	-	-	-	-	-
				Vertical	12	-	-	-	-	-	-	-	-
	20	1000	200	Horizontal	15	-	-	-	-	-	-	-	-
				Vertical	6	-	-	-	-	-	-	-	-
	5	250	400	Horizontal	160	-	-	-	-	-	-	-	-
				Vertical	80	-	-	-	-	-	-	-	-
	10	500	400	Horizontal	90	-	-	-	-	-	-	-	-
				Vertical	40	-	-	-	-	-	-	-	-
	20	1000	400	Horizontal	50	-	-	-	-	-	-	-	-
				Vertical	20	-	-	-	-	-	-	-	-
	5	500	750	Horizontal	180	-	-	-	-	-	-	-	-
				Vertical	80	-	-	-	-	-	-	-	-
	20	1250	750	Horizontal	90	-	-	-	-	-	-	-	-
				Vertical	30	-	-	-	-	-	-	-	-
	40	2500	750	Horizontal	25	-	-	-	-	-	-	-	-
				Vertical	10	-	-	-	-	-	-	-	-
	10	500	750	Horizontal	180	-	-	-	-	-	-	-	-
				Vertical	80	-	-	-	-	-	-	-	-
	25	1250	750	Horizontal		-	-	-	-	-	-	-	-
				Vertical		-	-	-	-	-	-	-	-
	50	2500	750	Horizontal		-	-	-	-	-	-	-	-
				Vertical		-	-	-	-	-	-	-	-

Ballscrew type(side mount)

Single slider	Stroke(mm), maximum speed(mm/s)																					
Model	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000		
DRM(P)50-P	250																					
	500							400	320	260	220											
	1000							800	640	530	440											
DRM(P)60-P	500					390	310															
DRM(P)80-P	250																					
	500						480	380	310	250	210											
	1000						970	770	620	510	430											
DRM(P)90-P	250																					
	500						480	380	310	250	210											
	1000						970	770	620	510	430											
DRM(P)115-P	250																					
	500						480	380	300	250	210											
	1000						960	760	610	500	420											
DRM(P)130-P	250																					
	500						490	380	310	260	210											
	1000						990	780	630	520	430											
DRM(P)160-P	250																					
	500						470	370	300	250	210	255	220	192	169							
	1000						950	750	610	500	420	511	440	384	337							
DRM(P)200-P	500										440	370	310	270	240	210	180	160	150	130	120	
	1250										1100	930	790	690	600	530	470	420	370	340	310	
	2500										2210	1860	1590	1380	1200	1060	940	840	750	680	620	
DRM(P)250-P	500								470	390	330	290	250	220	190	170	150	140	120	110		
	1250								1100	990	840	720	630	550	490	430	390	350	320	290		
	2500								2370	1990	1690	1450	1260	1110	980	870	780	710	640	580		

	Lead (mm)	Rated speed (mm/s)	Motor (W)	Payload at rated acceleration (kg)		Payload by acceleration(kg)							
						0.3G	0.4G	0.5G	0.6G	0.7G	0.8G	0.9G	1.0G
	5	250	100	Horizontal	22	-	-	-	-	-	-	-	-
				Vertical	15	-	-	-	-	-	-	-	-
	10	500	100	Horizontal	15	-	-	-	-	-	-	-	-
				Vertical	7	-	-	-	-	-	-	-	-
	20	900	100	Horizontal	5	-	-	-	-	-	-	-	-
				Vertical	-	-	-	-	-	-	-	-	-
	10	500	100	Horizontal	15	-	-	-	-	-	-	-	-
				Vertical	7	-	-	-	-	-	-	-	-
	5	250	100	Horizontal	22	-	-	-	-	-	-	-	-
				Vertical	15	-	-	-	-	-	-	-	-
	10	500	100	Horizontal	15	-	-	-	-	-	-	-	-
				Vertical	7	-	-	-	-	-	-	-	-
	20	1000	100	Horizontal	7	-	-	-	-	-	-	-	-
				Vertical	-	-	-	-	-	-	-	-	-
	5	250	200	Horizontal	80	-	-	-	-	-	-	-	-
				Vertical	25	-	-	-	-	-	-	-	-
	10	500	200	Horizontal	30	-	-	-	-	-	-	-	-
				Vertical	12	-	-	-	-	-	-	-	-
	20	1000	200	Horizontal	15	-	-	-	-	-	-	-	-
				Vertical	6	-	-	-	-	-	-	-	-
	5	250	200	Horizontal	80	-	-	-	-	-	-	-	-
				Vertical	25	-	-	-	-	-	-	-	-
	10	500	200	Horizontal	30	-	-	-	-	-	-	-	-
				Vertical	12	-	-	-	-	-	-	-	-
	10	1000	200	Horizontal	15	-	-	-	-	-	-	-	-
				Vertical	6	-	-	-	-	-	-	-	-
	5	250	200	Horizontal	80	-	-	-	-	-	-	-	-
				Vertical	25	-	-	-	-	-	-	-	-
	10	500	200	Horizontal	30	-	-	-	-	-	-	-	-
				Vertical	12	-	-	-	-	-	-	-	-
	10	1000	200	Horizontal	15	-	-	-	-	-	-	-	-
				Vertical	6	-	-	-	-	-	-	-	-
	5	250	400	Horizontal	160	-	-	-	-	-	-	-	-
				Vertical	80	-	-	-	-	-	-	-	-
	10	500	400	Horizontal	90	-	-	-	-	-	-	-	-
				Vertical	40	-	-	-	-	-	-	-	-
	20	1000	400	Horizontal	50	-	-	-	-	-	-	-	-
				Vertical	20	-	-	-	-	-	-	-	-
	5	500	400	Horizontal	180	-	-	-	-	-	-	-	-
				Vertical	80	-	-	-	-	-	-	-	-
	20	1250	400	Horizontal	90	-	-	-	-	-	-	-	-
				Vertical	30	-	-	-	-	-	-	-	-
	40	2500	400	Horizontal	25	-	-	-	-	-	-	-	-
				Vertical	10	-	-	-	-	-	-	-	-
	10	500	750	Horizontal	180	-	-	-	-	-	-	-	-
				Vertical	80	-	-	-	-	-	-	-	-
	25	1250	750	Horizontal		-	-	-	-	-	-	-	-
				Vertical		-	-	-	-	-	-	-	-
	50	2500	750	Horizontal		-	-	-	-	-	-	-	-
				Vertical		-	-	-	-	-	-	-	-

Ballscrew type

Dual slider	Stroke(mm), maximum speed(mm/s)						Lead (mm)	Rated speed (mm/s)	Motor (W)	Rated Acceleration (G)	
Model	100	200	300	400	500	600					
DRM(P)80-SD	500				470	340	10	500	80	0.3	
DRM(P)130-SD	500				480	350	10	500	200	0.3	
DRM(P)160-SD	500				450	330	10	500	400	0.3	
DRM(P)80-L(R)D	500				470	340	10	500	80	0.3	
DRM(P)130-L(R)D	500				480	350	10	500	200	0.3	
DRM(P)160-L(R)D	500				450	330	10	500	400	0.3	

Belt type

Belt	Stroke(mm), maximum speed(mm/s)																					
Model	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	3000	3500	4000	4500	5000	
DRM90-B	1800																					
DRM130-B	2000																					
DRM160-B	2000																					
DRM200-B	2000																					
DRM250-B	2500																					

Rack & Pinion type

Rack&Pinion	Stroke(mm), maximum speed(mm/s)																				
Model	100-600	700	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000	4200	
DRM250-R	2000																				

	Payload at rated acceleration (kg)		Payload by acceleration(kg)							
			0.3G	0.4G	0.5G	0.6G	0.7G	0.8G	0.9G	1.0G
	Horizontal	7	7	4	1	-	-	-	-	-
	Horizontal	20	20	20	17	13	10	7	5	4
	Horizontal	30	30	30	30	30	30	29	25	22
	Horizontal	7	7	4	1	-	-	-	-	-
	Horizontal	20	20	20	17	13	10	7	5	4
	Horizontal	30	30	30	30	30	30	29	25	22

	Rated speed (mm/s)	Motor (W)	Payload at rated acceleration (kg)		Payload by acceleration(kg)							
					0.3G	0.4G	0.5G	0.6G	0.7G	0.8G	0.9G	1.0G
	1800	400	Horizontal	25	25	25	25	-	-	-	-	-
	2000	600	Horizontal	35	35	35	34	28	-	-	-	-
	2000	800	Horizontal	50	50	50	42	34	-	-	-	-
	2000	1000	Horizontal	70	70	70	70	67	-	-	-	-
	2500	1000	Horizontal	70	70	70	63	50	41	35	-	-

	Rated speed (mm/s)	Motor (W)	Payload at rated acceleration (kg)		Payload by acceleration(kg)							
					0.3G	0.4G	0.5G	0.6G	0.7G	0.8G	0.9G	1.0G
	2000	1000	Vertical	75	70	70	70	70	70	44	28	18

Allowable for over hang weight(acceleration = 0.3sec / Speed = 250 ~ 1000 mm/sec)

Model		Payload(kg)	Speed(mm/s)	X(mm)	Y(mm)	Z(mm)		Payload(kg)	
DRM-50		22	250	30	40	900		22	
		15	500	50	60	500		15	
		5	1000	120	150	500		5	
DRM-60		22	250	95	85	2000		22	
		15	500	140	95	1200		15	
		7	1000	320	210	1250		7	
DRM-80		22	250	200	180	4900		22	
		15	500	280	260	3000		15	
		5	1000	270	600	2800		5	
DRM-90		80	250	150	40	3000		80	
		30	500	350	130	3500		30	
		15	1000	550	200	2200		15	
DRM-115		80	250	145	235	3500		80	
		30	500	385	540	4000		30	
		15	1000	600	650	2500		15	
DRM-130		80	250	160	280	4000		80	
		30	500	420	600	4500		30	
		15	1000	660	720	3000		15	
DRM-160		160	250	135	285	2500		160	
		90	500	240	490	1445		90	
		50	1000	350	600	1200		50	
DRM-200		240	250	265	360	6700		240	
		180	500	350	450	3500		180	
		90	1000	550	660	2000		90	
DRM-250		240	250	300	700	7500		240	
		180	500	400	880	4000		180	
		90	1000	700	1200	2500		90	
DRM-90-B		80	250	150	40	3000		80	
		30	500	350	130	3500		30	
		15	1000	550	200	2200		15	
DRM-130-B		80	250	160	280	4000		80	
		30	500	420	600	4500		30	
		15	1000	660	720	3000		15	
DRM-160-B		160	250	135	285	2500		160	
		90	500	240	490	1445		90	
		50	1000	350	600	1200		50	
DRM-200-B		240	250	265	360	6700		240	
		180	500	350	450	3500		180	
		90	1000	550	660	2000		90	
DRM-250-B		240	250	300	700	7500		240	
		180	500	400	880	4000		180	
		90	1000	700	1200	2500		90	
DRM-90-BGL		80	250	150	40	3000		80	
		30	500	350	130	3500		30	
		15	1000	550	200	2200		15	
DRM-130-BGL		80	250	160	280	4000		80	
		30	500	420	600	4500		30	
		15	1000	660	720	3000		15	
DRM-160-BGL		160	250	135	285	2500		160	
		90	500	240	490	1445		90	
		50	1000	350	600	1200		50	
DRM-200-BGL		240	250	265	360	6700		240	
		180	500	350	450	3500		180	
		90	1000	550	660	2000		90	
DRM-250-BGL		240	250	300	700	7500		240	
		180	500	400	880	4000		180	
		90	1000	700	1200	2500		90	

	Speed(mm/s)	X(mm)	Y(mm)	Z(mm)		Payload(kg)	Speed(mm/s)	X(mm)	Y(mm)	Z(mm)
	250	20	60	700		15	250	40	35	-
	500	35	75	420		7	500	100	80	-
	1000	85	150	400		-	-	-	-	-
	250	90	50	1900		15	250	125	125	-
	500	130	85	1120		7	500	270	270	-
	1000	305	235	1300		-	-	-	-	-
	250	200	200	4500		15	250	270	270	-
	500	280	280	2800		7	500	600	600	-
	1000	670	670	2800		-	-	-	-	-
	250	110	55	3000		25	250	410	410	-
	500	330	140	3500		12	500	835	835	-
	1000	520	225	2250		6	1000	1310	1310	-
	250	110	150	2350		25	250	360	330	-
	500	280	400	2800		12	500	880	660	-
	1000	410	700	1900		6	1000	1330	1000	-
	250	140	180	2700		25	250	450	390	-
	500	350	490	3200		12	500	1000	700	-
	1000	480	800	2200		6	1000	1400	1100	-
	250	160	250	3300		80	250	220	330	-
	500	270	480	3000		40	500	400	500	-
	1000	400	550	1500		20	1000	850	950	-
	250	300	300	7500		80	250	650	770	-
	500	400	450	4200		80	500	850	900	-
	1000	650	650	2700		30	1000	1800	1800	-
	250	330	640	8500		80	250	750	880	-
	500	450	850	4500		80	500	1050	1100	-
	1000	700	1100	2800		30	1000	1800	2000	-
	250	110	55	3000		-	-	-	-	-
	500	330	140	3500		-	-	-	-	-
	1000	520	225	2250		-	-	-	-	-
	250	140	180	2700		-	-	-	-	-
	500	350	490	3200		-	-	-	-	-
	1000	480	800	2200		-	-	-	-	-
	250	160	250	3300		80	250	220	330	-
	500	270	480	3000		40	500	400	500	-
	1000	400	550	1500		20	1000	850	950	-
	250	300	300	7500		-	-	-	-	-
	500	400	450	4200		-	-	-	-	-
	1000	650	650	2700		-	-	-	-	-
	250	330	640	8500		-	-	-	-	-
	500	450	850	4500		-	-	-	-	-
	1000	700	1100	2800		-	-	-	-	-
	250	110	55	3000		-	-	-	-	-
	500	330	140	3500		-	-	-	-	-
	1000	520	225	2250		-	-	-	-	-
	250	140	180	2700		-	-	-	-	-
	500	350	490	3200		-	-	-	-	-
	1000	480	800	2200		-	-	-	-	-
	250	160	250	3300		-	-	-	-	-
	500	270	480	3000		-	-	-	-	-
	1000	400	550	1500		-	-	-	-	-
	250	300	300	7500		-	-	-	-	-
	500	400	450	4200		-	-	-	-	-
	1000	650	650	2700		-	-	-	-	-
	250	330	640	8500		-	-	-	-	-
	500	450	850	4500		-	-	-	-	-
	1000	700	1100	2800		-	-	-	-	-

DRM-50-S

Ballscrew, Standard specifications, Base width 50mm, In-Line type, 100W, 1~1000mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	50	— S	— 100	— I	— 10	— ST300	— S3
DRM		S : Straight	100 : 100W	I : Incremental	05 : 05mm	100 : 600mm	S0 : No sensor
DRMP		LP : Motor Left	100B : 100W(Brake)	A : Absolute	10 : 10mm	~	S1 : In the robot by magnetic sensor
		RP : Motor Right			20 : 20mm	100 : 1100mm	S2 : In the robot by magnetic sensor. Org
		BP : Motor Bottom					S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\phi 15$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.15 1Rail 1Block
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Actuator Specifications

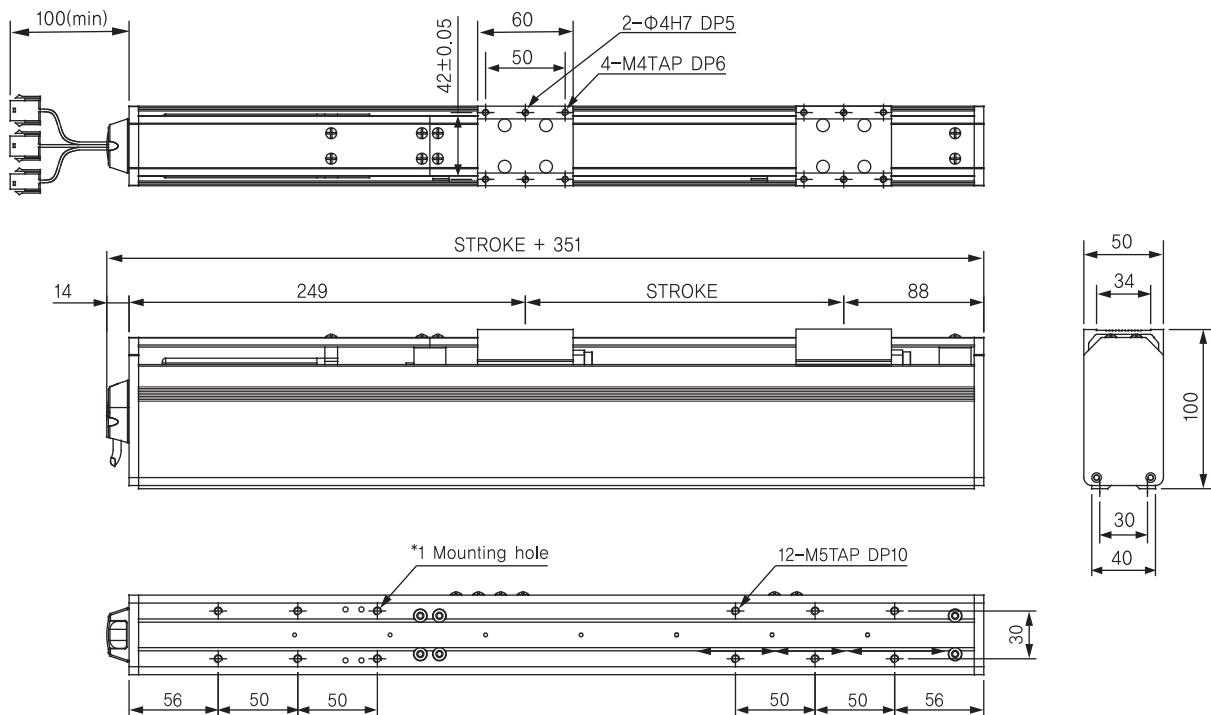
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-50-□-100-I-L05-□-□	100	5	22	15	250	100~600
DRM-50-□-100-I-L10-□-□		10	15	7	500	100~1100
DRM-50-□-100-I-L20-□-□		20	5	-	1000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke										
		100	200	300	400	500	600	700	800	900	1000	1100
DRM-50-□-100-I-L05-□-□	Speed(mm/s)	250						-	-	-	-	-
DRM-50-□-100-I-L10-□-□	Speed(mm/s)	500						400	320	260	220	
DRM-50-□-100-I-L20-□-□	Speed(mm/s)	1000						800	640	530	440	
Mass(kg)	$\approx 0.005 * \text{Stroke} + 2.5$	3.7	4.2	4.7	5.5	5.7	6.2	6.7	7.2	7.7	8.2	8.7

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-50-P

Ballscrew, Standard specifications, Base width 50mm, In-Line type, 100W, 1~1000mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	50	LP	100	I	10	ST300	S3
DRM DRMP		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	100 : 100W 100B : 100W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm	100 : 600mm ~ 100 : 1100mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 15$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.15 1Rail 1Block
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Actuator Specifications

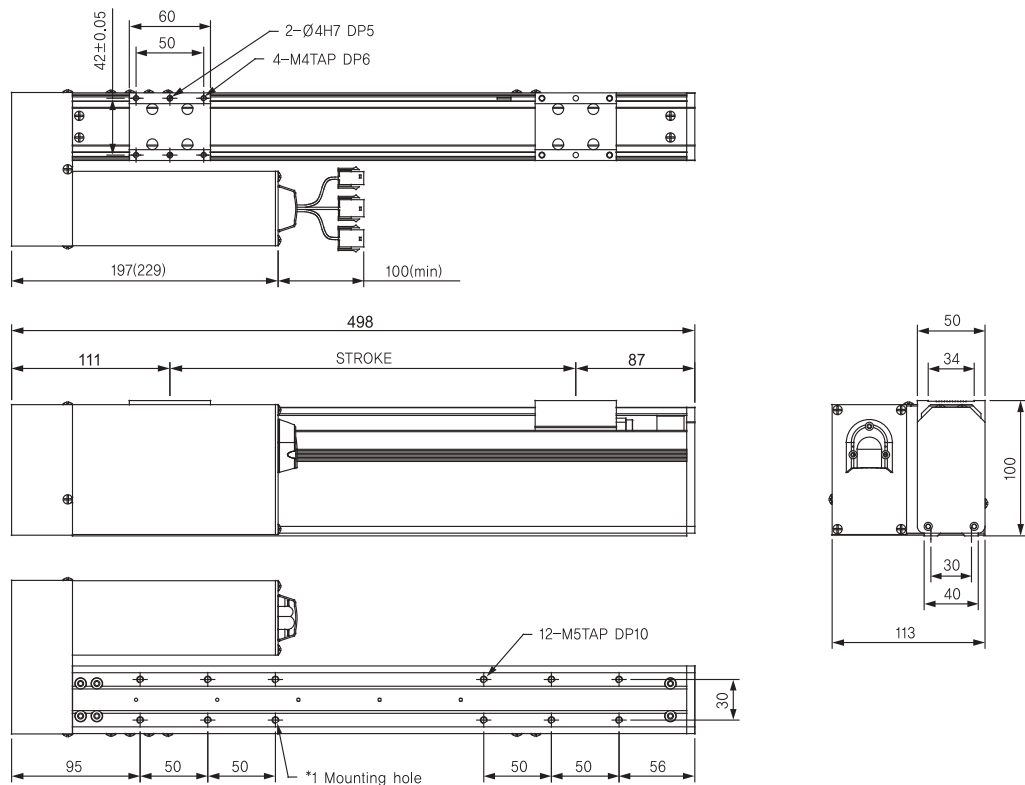
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-50-□-100-I-L05-□-□	100	5	22	15	250	100~600
DRM-50-□-100-I-L10-□-□		10	15	7	500	100~1100
DRM-50-□-100-I-L20-□-□		20	5	-	1000	

* 파나소닉 모터 기준 산정 무게

Stroke, Velocity & Robot Mass

Model		Stroke										
		100	200	300	400	500	600	700	800	900	1000	1100
-	-	250						-	-	-	-	-
DRM-50-□-100-I-L10-□-□	Speed(mm/s)	500							400	320	260	220
-	-	1000							800	640	530	440
Mass(kg)	$\cong 0.005 * \text{Stroke} + 2.5$	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-60-S

Ballscrew, Standard specifications, Base width 60mm, In-Line type, 100W, 1~500mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	60	S	100	I	10	ST300	S3
DRM DRMP		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	100 : 100W 100B : 100W(Brake)	I : Incremental A : Absolute	10 : 10mm	100:700mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\phi 12$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.12 Wide 1Rail 2Block
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Actuator Specifications

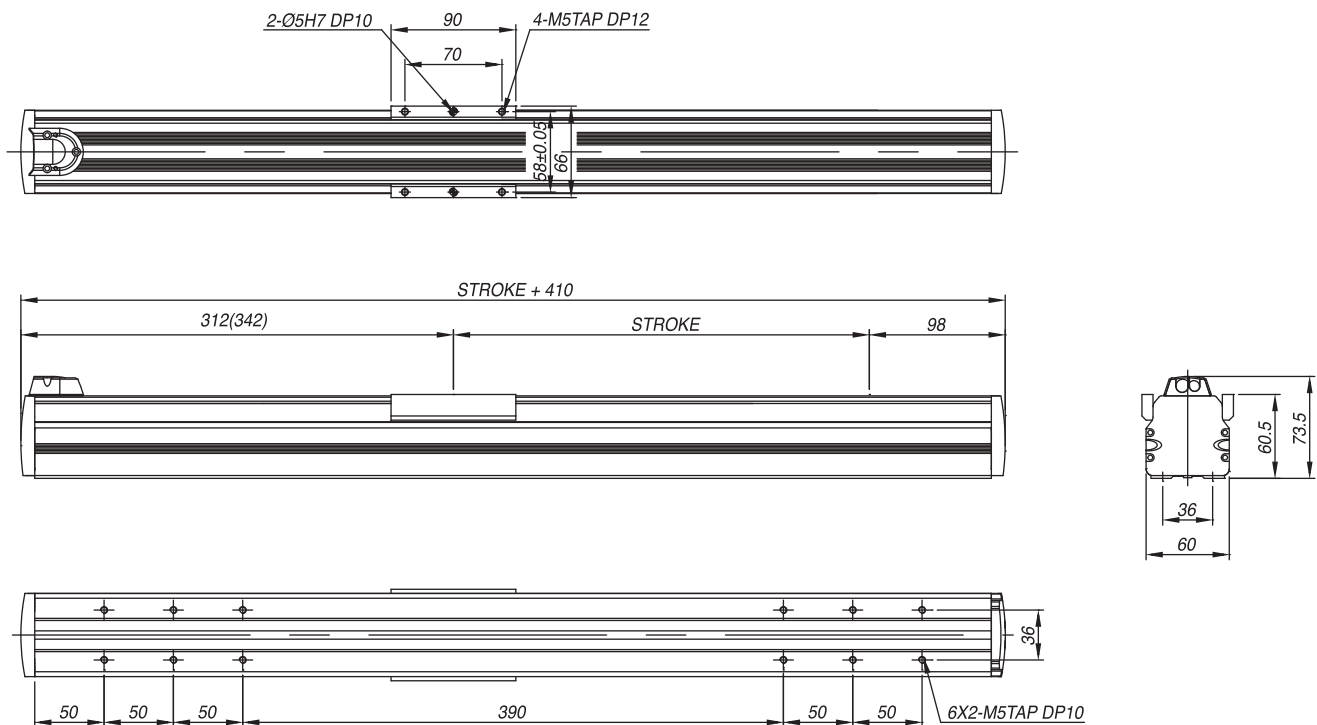
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-60-□-100-I-L05-□-□	100	5	22	15	250	100~700
DRM-60-□-100-I-L10-□-□	100	10	15	7	500	100~700
DRM-60-□-100-I-L20-□-□	100	20	5	-	1000	100~700

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke									
		100	150	200	250	300	350	400	500	600	700
-	-	-							-	-	-
DRM-60-□-100-I-L10-□-□	Speed(mm/s)	500							-	390	310
-	-	-							-	-	-
Mass(kg)	$\approx 0.005 * \text{Stroke} + 2.5$	2.2	2.7	3	3.3	3.3	3.6	3.6	4	4.3	4.3

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-60-P

Ballscrew, Standard specifications, Base width 60mm, In-Line type, 100W, 1~500mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	60	LP	100	I	10	ST300	S3
DRM DRMP		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	100 : 100W 100B : 100W(Brake)	I : Incremental A : Absolute	10 : 10mm	100:700mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 12$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.12 Wide 1Rail 2Block
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Actuator Specifications

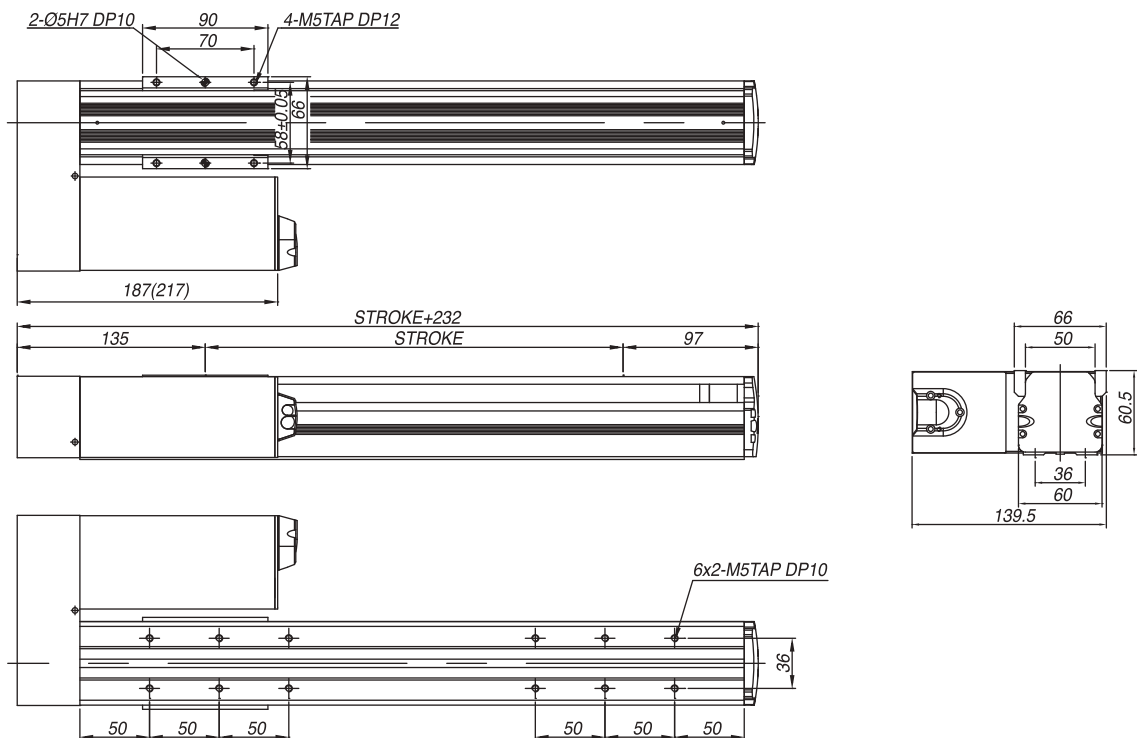
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-60-□-100-I-L05-□-□	100	5	22	15	250	100~700
DRM-60-□-100-I-L10-□-□	100	10	15	7	500	100~700
DRM-60-□-100-I-L20-□-□	100	20	5	-	1000	100~700

* 파나소닉 모터 기준 산정 무게

Stroke, Velocity & Robot Mass

Model		Stroke									
		100	150	200	250	300	350	400	500	600	700
-	-	-							-	-	-
DRM-60-□-100-I-L10-□-□	Speed(mm/s)	500							-	390	310
-	-	-							-	-	-
Mass(kg)	$\approx 0.005 * \text{Stroke} + 2.5$	2.2	2.7	3	3.3	3.3	3.6	3.6	4	4.3	4.3

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-80-S

Ballscrew, Standard specifications, Base width 80mm, In-Line type, 100W, 1~1000mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	80	— S	— 100	— I	— 10	— ST300	— S3
DRM		S : Straight	100 : 100W	I : Incremental	05 : 05mm	100:600mm	S0 : No sensor
DRMP		LP : Motor Left	100B : 100W(Brake)	A : Absolute	10 : 10mm	~	S1 : In the robot by magnetic sensor
		RP : Motor Right			20 : 20mm	100:1100mm	S2 : In the robot by magnetic sensor. Org
		BP : Motor Bottom					S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\phi 15$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.15 Normal 1Rail 2Block
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Actuator Specifications

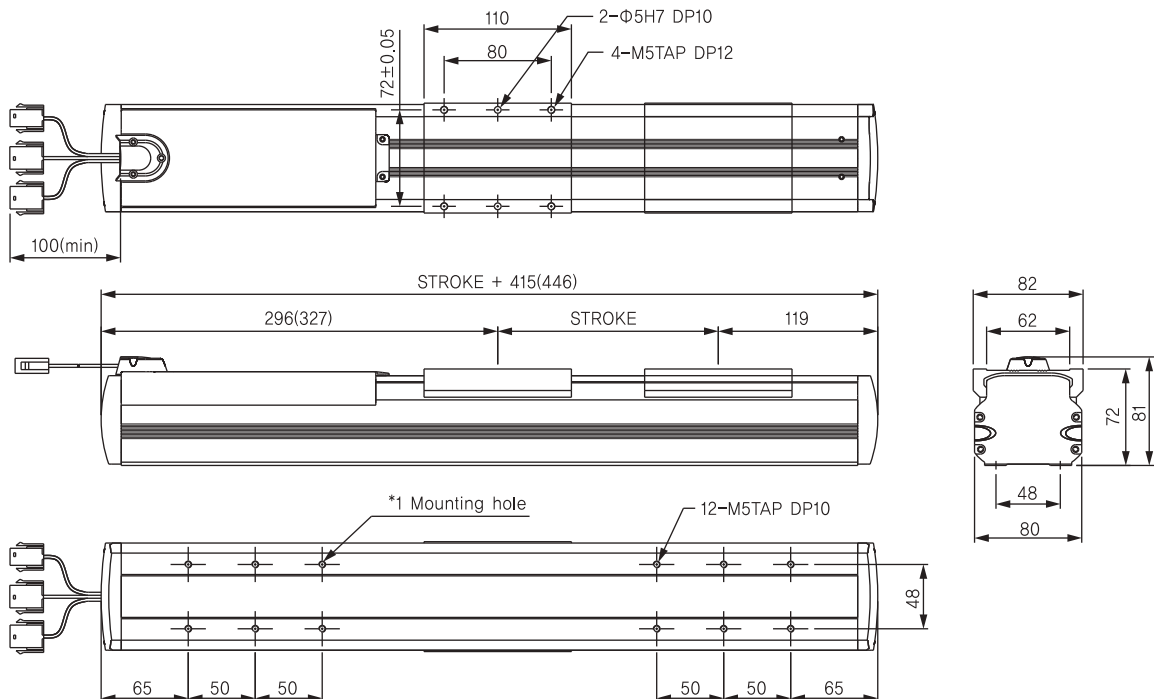
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-80-□-100-I-L05-□-□	100	5	22	15	250	100~600
DRM-80-□-100-I-L10-□-□		10	15	7	500	100~1100
DRM-80-□-100-I-L20-□-□		20	7	-	1000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke										
		100	200	300	400	500	600	700	800	900	1000	1100
DRM-80-□-100-I-L05-□-□	Speed(mm/s)	250						-	-	-	-	-
DRM-80-□-100-I-L10-□-□	Speed(mm/s)	500						480	380	310	250	210
DRM-80-□-100-I-L20-□-□	Speed(mm/s)	1000						970	770	620	510	430
Mass(kg)	≐ 0.005 * Stroke + 2.5	3.9	4.6	5.2	5.8	6.4	7	7.6	8.2	8.8	9.4	10

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-80-P

Ballscrew, Standard specifications, Base width 80mm, In-Line type, 100W, 1~1000mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	80	LP	100	I	10	ST300	S3
DRM		S : Straight	100 : 100W	I : Incremental	05 : 05mm	100:600mm	S0 : No sensor
DRMP		LP : Motor Left	100B : 100W(Brake)	A : Absolute	10 : 10mm	~	S1 : In the robot by magnetic sensor
		RP : Motor Right			20 : 20mm	100:1100mm	S2 : In the robot by magnetic sensor. Org
		BP : Motor Bottom					S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 15$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.15 Normal 1Rail 2Block
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Actuator Specifications

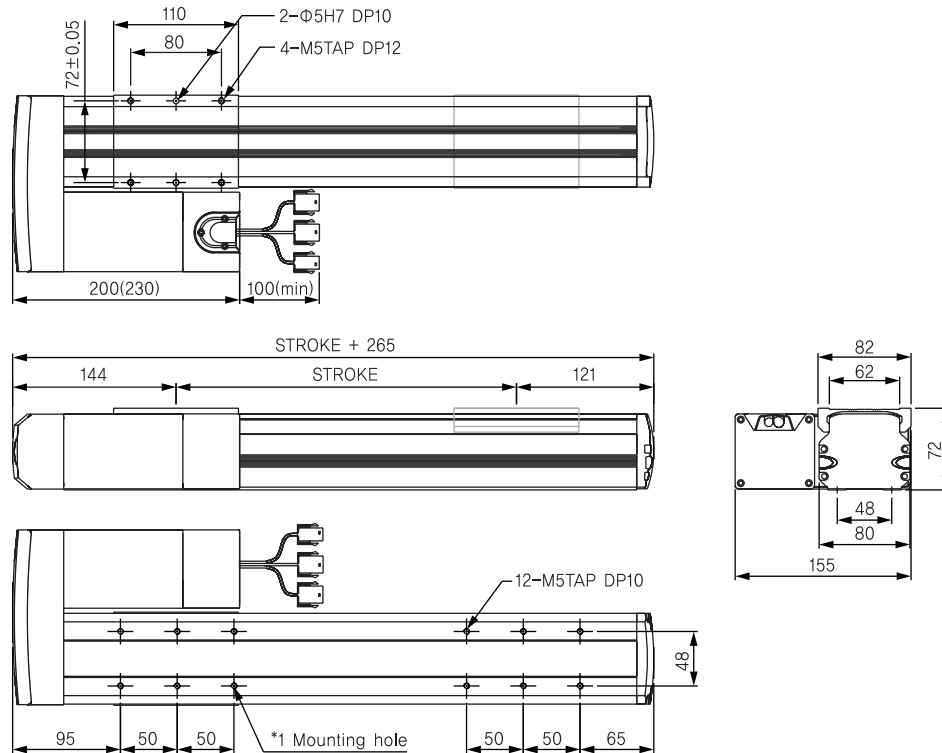
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-80-□-100-I-L05-□-□	100	5	22	15	250	100~600
DRM-80-□-100-I-L10-□-□		10	15	7	500	100~1100
DRM-80-□-100-I-L20-□-□		20	7	-	1000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke										
		100	200	300	400	500	600	700	800	900	1000	1100
DRM-80-□-100-I-L05-□-□	Speed(mm/s)	250						-	-	-	-	-
DRM-80-□-100-I-L10-□-□	Speed(mm/s)	500						480	380	310	250	210
DRM-80-□-100-I-L20-□-□	Speed(mm/s)	1000						970	770	620	510	430
Mass(kg)	$\cong 0.005 * \text{Stroke} + 2.5$	3.9	4.5	5.1	5.7	6.3	6.3	7.5	8.1	8.7	9.3	9.9

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-90-S

Iscrew, Standard specifications, Base width 90mm, In-Line type, 200W, 1~1100mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	90	— S	— 200	— I	— 10	— ST300	— S3
DRM		S : Straight	200 : 200W	I : Incremental	05 : 05mm	100:600mm	S0 : No sensor
DRMP		LP : Motor Left	200B : 200W(Brake)	A : Absolute	10 : 10mm	~	S1 : In the robot by magnetic sensor
		RP : Motor Right			20 : 20mm	100:1100mm	S2 : In the robot by magnetic sensor. Org
		BP : Motor Bottom					S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\phi 15$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.20 Normal 1Rail 2Block
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Actuator Specifications

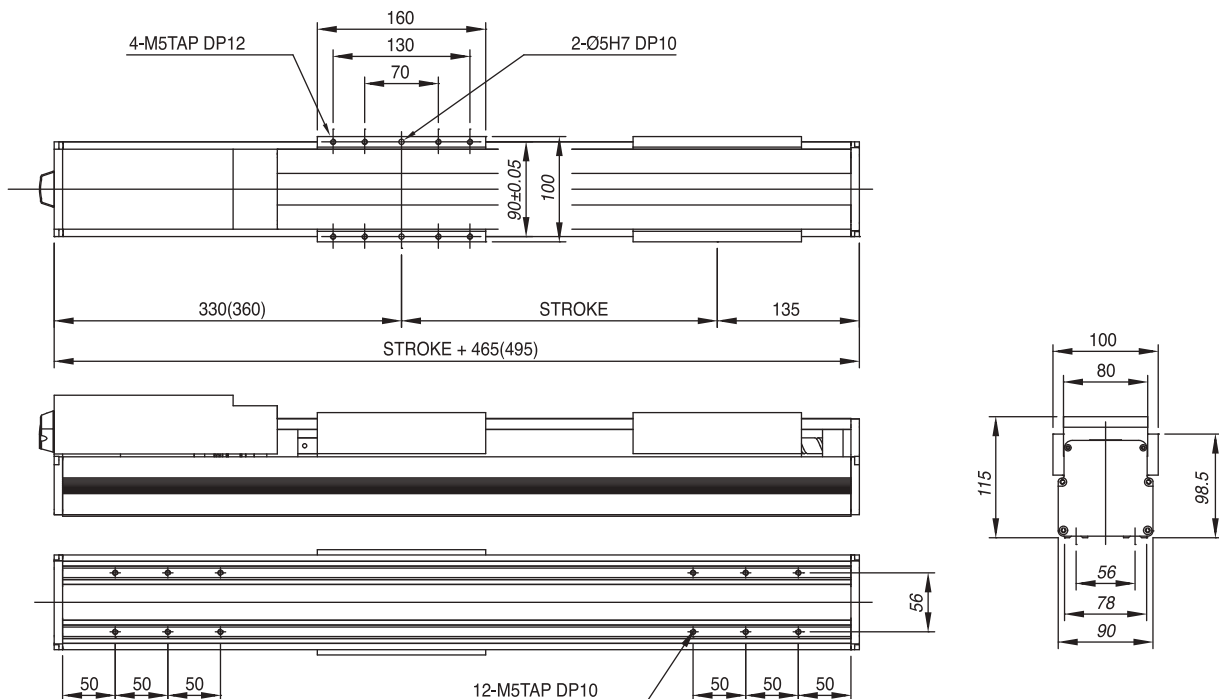
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-90-□-200-I-L05-□-□	200	5	80	25	250	100~600
DRM-90-□-200-I-L10-□-□		10	30	12	500	100~1100
DRM-90-□-200-I-L20-□-□		20	15	6	1000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke										
		100	200	300	400	500	600	700	800	900	1000	1100
DRM-90-□-200-I-L05-□-□	Speed(mm/s)	250						-	-	-	-	-
DRM-90-□-200-I-L10-□-□	Speed(mm/s)	500						480	380	310	250	210
DRM-90-□-200-I-L20-□-□	Speed(mm/s)	1000						970	770	620	510	430
Mass(kg)	$\approx 0.005 * \text{Stroke} + 2.5$	3.9	4.6	5.2	5.8	6.4	7	7.6	8.2	8.8	9.4	10

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-90-P

Iscrew, Standard specifications, Base width
90mm, In-Line type, 200W, 1~1100mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	90	LP	200	I	10	ST300	S3
DRM		S : Straight	200 : 200W	I : Incremental	05 : 05mm	100:600mm	S0 : No sensor
DRMP		LP : Motor Left	200B : 200W(Brake)	A : Absolute	10 : 10mm	~	S1 : In the robot by magnetic sensor
		RP : Motor Right			20 : 20mm	100:1100mm	S2 : In the robot by magnetic sensor. Org
		BP : Motor Bottom					S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 15$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.20 Normal 1Rail 2Block
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Actuator Specifications

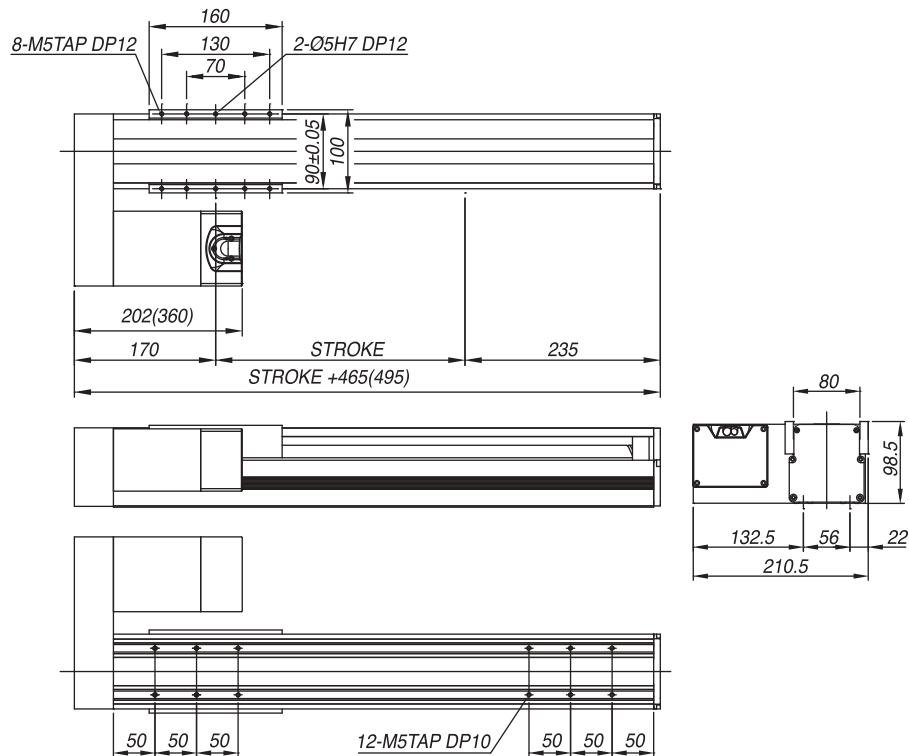
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-90-□-200-I-L05-□-□	200	5	80	25	250	100~600
DRM-90-□-200-I-L10-□-□		10	30	12	500	100~1100
DRM-90-□-200-I-L20-□-□		20	15	6	1000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke										
		100	200	300	400	500	600	700	800	900	1000	1100
DRM-90-□-200-I-L05-□-□	Speed(mm/s)	250						-	-	-	-	-
DRM-90-□-200-I-L10-□-□	Speed(mm/s)	500						480	380	310	250	210
DRM-90-□-200-I-L20-□-□	Speed(mm/s)	1000						970	770	620	510	430
Mass(kg)	$\approx 0.005 * \text{Stroke} + 2.5$	3.9	4.5	5.1	5.7	6.3	6.3	7.5	8.1	8.7	9.3	9.9

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-115-S

Ballscrew, Standard specifications, Base width 115mm, In-Line type, 200W, 1~1000mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	115	S	200	I	10	ST300	S3
DRM DRMP		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	200 : 200W 200B : 200W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm	100:600mm ~ 100:1100mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\phi 15$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.15 Normal 2Rail 4Block
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Actuator Specifications

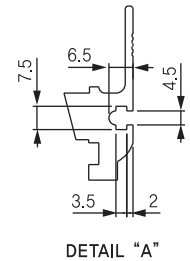
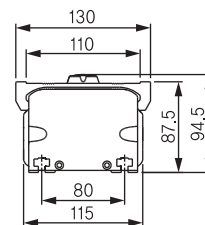
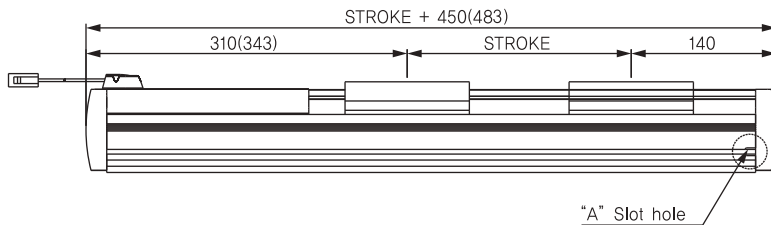
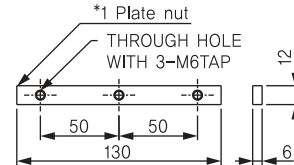
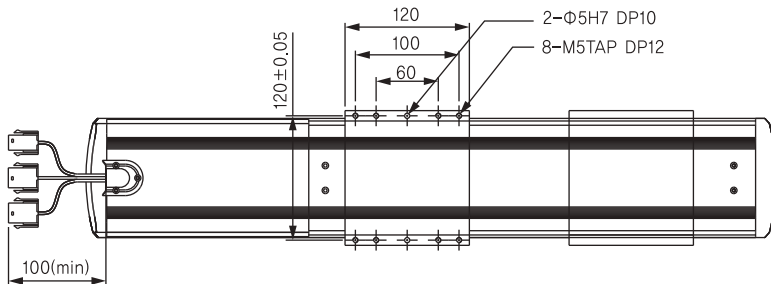
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-115-□-200-I-L05-□-□	200	5	80	25	250	100~600
DRM-115-□-200-I-L10-□-□		10	30	12	500	100~1100
DRM-115-□-200-I-L20-□-□		20	15	6	1000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke										
		100	200	300	400	500	600	700	800	900	1000	1100
DRM-115-□-200-I-L05-□-□	Speed(mm/s)	250						-	-	-	-	-
DRM-115-□-200-I-L10-□-□	Speed(mm/s)	500						480	380	300	250	210
DRM-115-□-200-I-L20-□-□	Speed(mm/s)	1000						960	760	610	500	420
Mass(kg)	≐ 0.005 * Stroke + 2.5	7	8	8.9	9.8	10.7	11.6	12.5	13.4	14.3	15.2	16.1

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-115-P

Ballscrew, Standard specifications, Base width 115mm, In-Line type, 200W, 1~1000mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	115	LP	200	I	10	ST300	S3
DRM DRMP		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	200 : 200W 200B : 200W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm	100:600mm ~ 100:1100mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 15$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.15 Normal 2Rail 4Block
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Actuator Specifications

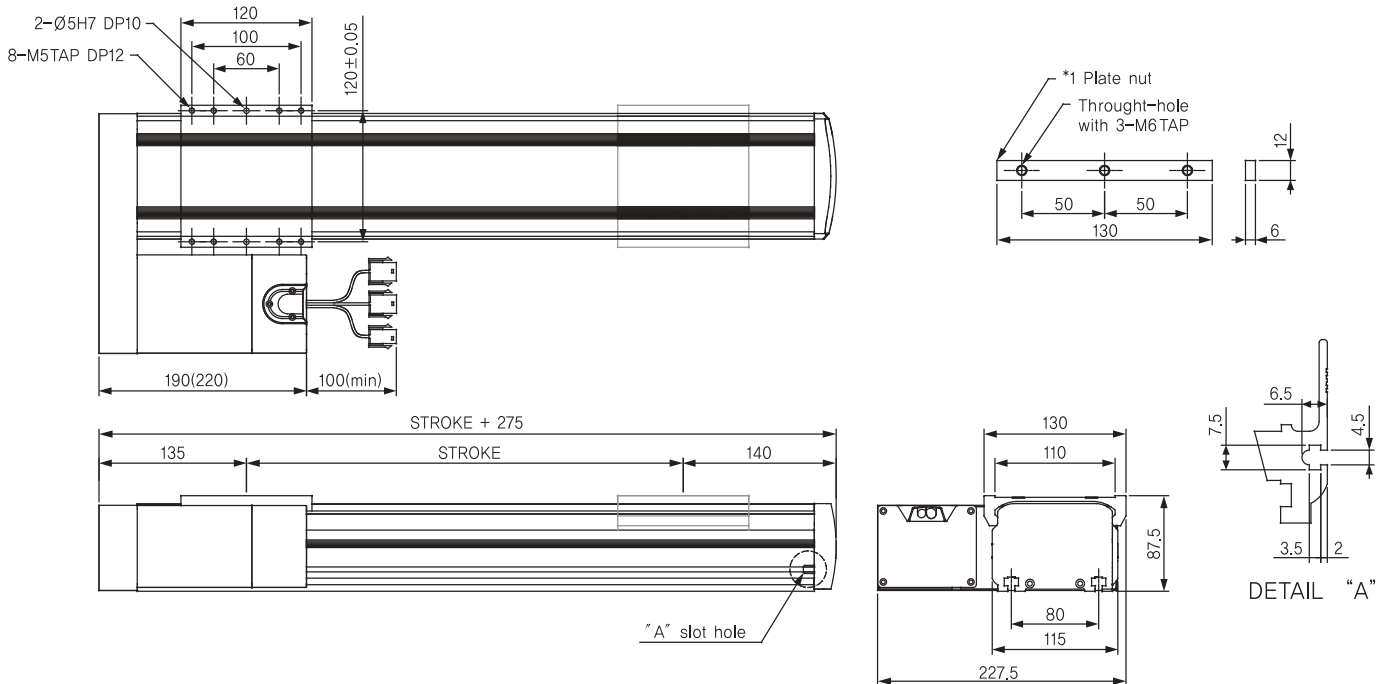
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-115-□-200-I-L05-□-□	200	5	80	25	250	100~600
DRM-115-□-200-I-L10-□-□		10	30	12	500	100~1100
DRM-115-□-200-I-L20-□-□		20	15	6	1000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke										
		100	200	300	400	500	600	700	800	900	1000	1100
DRM-115-□-200-I-L05-□-□	Speed(mm/s)	250						-	-	-	-	-
DRM-115-□-200-I-L10-□-□	Speed(mm/s)	500						480	380	300	250	210
DRM-115-□-200-I-L20-□-□	Speed(mm/s)	1000						960	760	610	500	420
Mass(kg)	$\approx 0.005 \times \text{Stroke} + 2.5$	7	8	8.9	9.8	10.7	11.6	12.5	13.4	14.3	15.2	16.1

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-130-S

Ballscrew, Standard specifications, Base width 130mm, In-Line type, 200W, 1~1000mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	130	S	200	I	10	ST300	S3
DRM DRMP		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	200 : 200W 200B : 200W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm	100:600mm ~ 100:1100mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\phi 15$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.15 Normal 2Rail 4Block
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Actuator Specifications

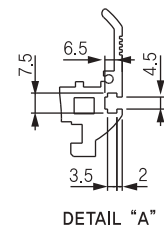
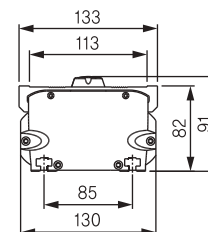
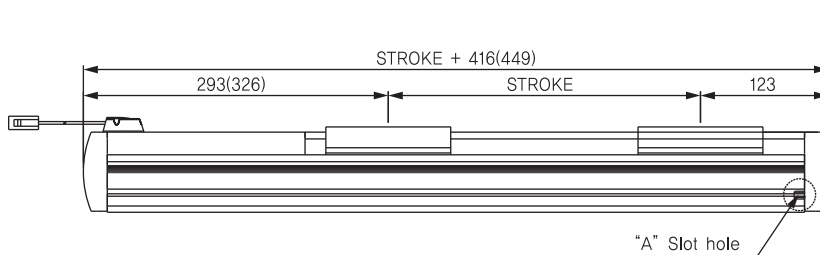
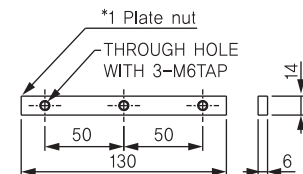
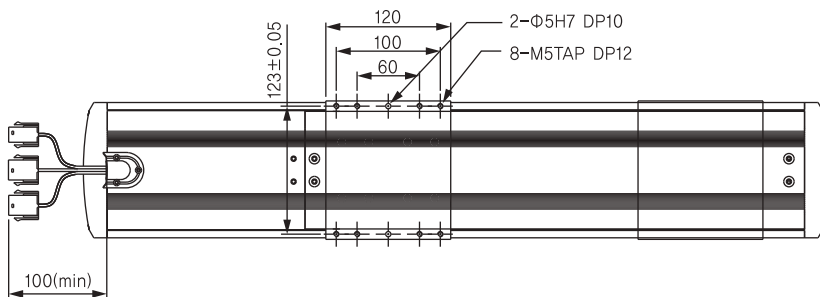
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-130-□-200-I-L05-□-□	200	5	80	25	250	100~600
DRM-130-□-200-I-L10-□-□		10	30	12	500	100~1100
DRM-130-□-200-I-L20-□-□		20	15	6	1000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke										
		100	200	300	400	500	600	700	800	900	1000	1100
DRM-130-□-200-I-L05-□-□	Speed(mm/s)	250						-	-	-	-	-
DRM-130-□-200-I-L10-□-□	Speed(mm/s)	500						490	390	310	260	210
DRM-130-□-200-I-L20-□-□	Speed(mm/s)	1000						990	780	630	520	430
Mass(kg)	≐ 0.005 * Stroke + 2.5	6.9	7.8	8.7	9.6	10.5	11.4	12.3	13.2	14.1	15	15.9

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-130-P

Ballscrew, Standard specifications, Base width 130mm, In-Line type, 200W, 1~1000mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	130	LP	200	I	10	ST300	S3
DRM DRMP		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	200 : 200W 200B : 200W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm	100:600mm ~ 100:1100mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 15$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.15 Normal 2Rail 4Block
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Actuator Specifications

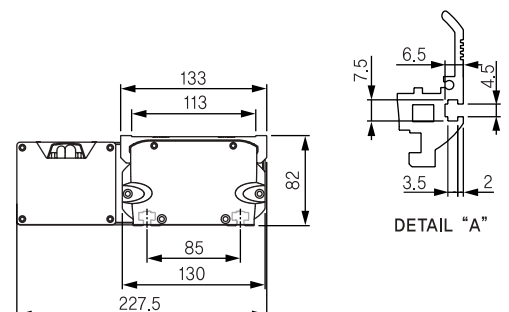
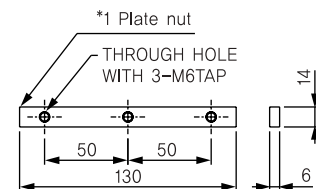
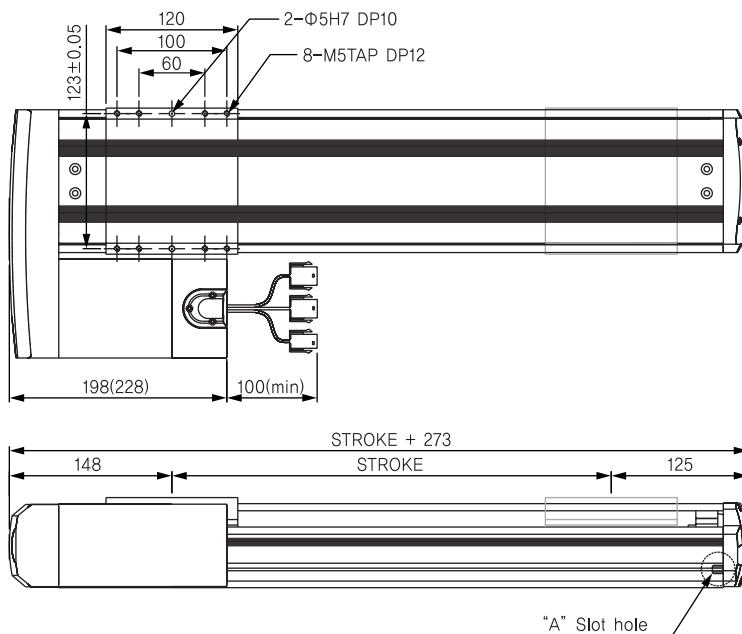
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-130-□-200-I-L05-□-□	200	5	80	25	250	100~600
DRM-130-□-200-I-L10-□-□		10	30	12	500	100~1100
DRM-130-□-200-I-L20-□-□		20	15	6	1000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke										
		100	200	300	400	500	600	700	800	900	1000	1100
DRM-130-□-200-I-L05-□-□	Speed(mm/s)	250						-	-	-	-	-
DRM-130-□-200-I-L10-□-□	Speed(mm/s)	500						490	390	310	260	210
DRM-130-□-200-I-L20-□-□	Speed(mm/s)	1000						990	780	630	520	430
Mass(kg)	≐ 0.005 * Stroke + 2.5	6.7	7.6	8.5	9.4	10.3	11.2	12.1	13	13.9	14.8	15.7

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-160-S

Ballscrew, Standard specifications, Base width
160mm, In-Line type, 400W/750W, 1~1000mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	160	S	400	I	10	ST300	S3
DRM DRMP	S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	400 : 400W 400B : 400W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm	100:600mm ~ 100:1500mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3	

Actuator Specifications

Driving Type	Ball Screw $\phi 15, \phi 20, \phi 25$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.20 Normal 2Rail 4Block
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Actuator Specifications ($\phi 20$)

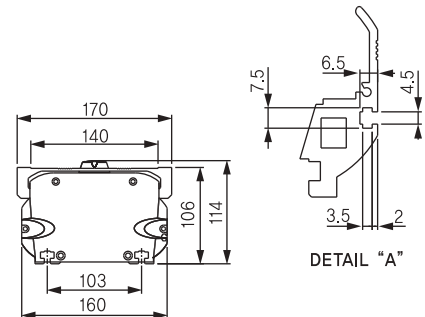
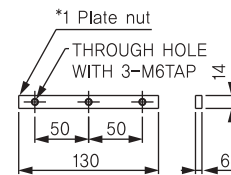
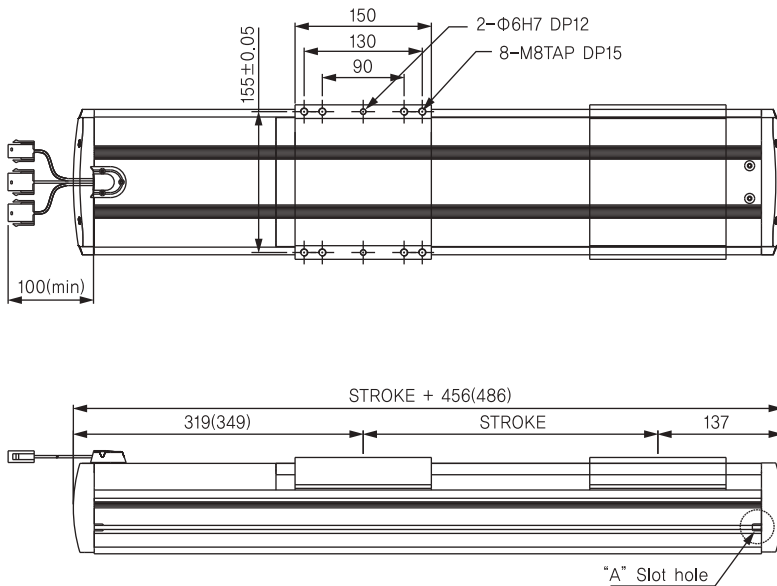
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-160-□-400-I-L05-□-□	400	5	160	80	250	100~600
DRM-160-□-400-I-L10-□-□		10	90	40	500	100~1500
DRM-160-□-400-I-L20-□-□		20	50	20	1000	
DRM-160-□-400-I-L30-□-□		30	20	10	1500	
DRM-160-□-400-I-L40-□-□		40	10	-	2000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke														
		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRM-160-□-750-I-L05-□-□	Speed(mm/s)	250						-	-	-	-	-	-	-	-	-
DRM-160-□-750-I-L10-□-□	Speed(mm/s)	500						470	370	300	250	210	256	221	192	169
DRM-160-□-750-I-L20-□-□	Speed(mm/s)	1000						950	750	610	500	420	512	441	384	338
Mass(kg)	$\approx 0.0103 * \text{Stroke} + 5.2$	12.1	13.5	14.9	16.3	17.7	19.1	20.5	21.9	23.3	24.7	26.1	27.5	28.9	30.3	31.7

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-160-P

Ballscrew, Standard specifications, Base width 160mm, In-Line type, 400W/750W, 1~1000mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	160	LP	400	I	10	ST300	S3
DRM DRMP		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	400 : 400W 400B : 400W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm	100:600mm ~ 100:1500mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 15, \Phi 20, \Phi 25$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.20 Normal 2Rail 4Block
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Actuator Specifications ($\Phi 20$)

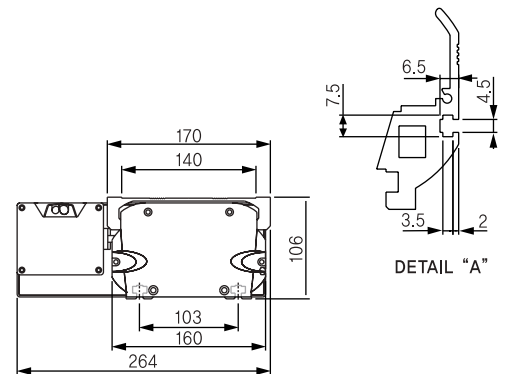
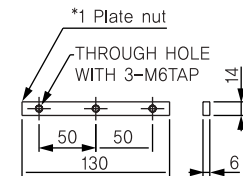
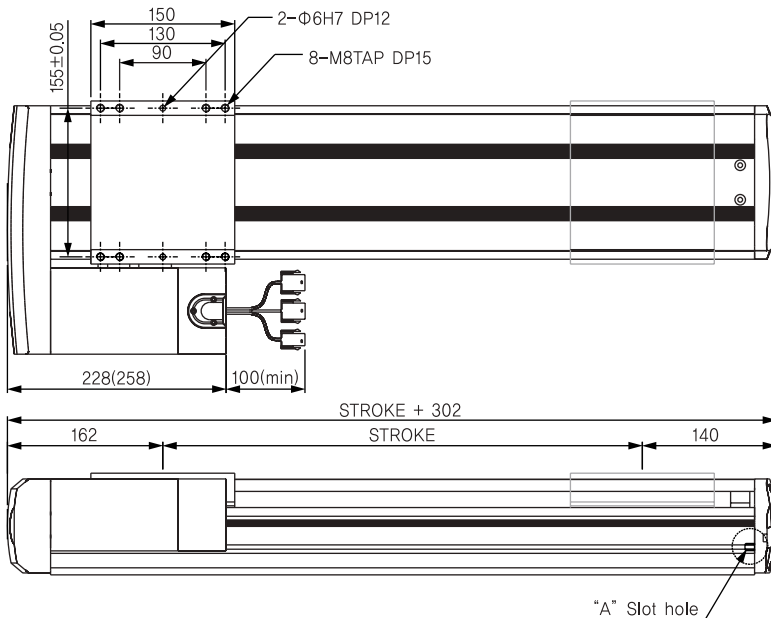
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor ¹	Ver ¹		
DRM-160-□-400-I-L05-□-□	400	5	160	80	250	100~600
DRM-160-□-400-I-L10-□-□		10	90	40	500	100~1500
DRM-160-□-400-I-L20-□-□		20	50	20	1000	
DRM-160-□-400-I-L30-□-□		30	20	10	1500	
DRM-160-□-400-I-L40-□-□		40	10	-	2000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke														
		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRM-160-□-750-I-L05-□-□	Speed(mm/s)	250					-	-	-	-	-	-	-	-	-	-
DRM-160-□-750-I-L10-□-□	Speed(mm/s)	500					470	370	300	250	210	255	220	192	169	
DRM-160-□-750-I-L20-□-□	Speed(mm/s)	1000					950	750	610	500	420	511	440	384	337	
Mass(kg)	$\approx 0.0103 * \text{Stroke} + 5.2$	6.7	7.6	8.5	9.4	10.3	11.2	12.1	13	13.9	14.8	15.7	15.7	15.7	15.7	15.7

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-200-S

allscrew, Standard specifications, Base width 200mm,
In-Line type, 600W/750W, 1~2500mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	200	— S	— 750	— I	— 10	— ST300	— S3
DRM		S : Straight	750 : 750W	I : Incremental	10 : 10mm	100:2000mm	S0 : No sensor
DRMP		LP : Motor Left	750B : 750W(Brake)	A : Absolute	25 : 25mm		S1 : In the robot by magnetic sensor
		RP : Motor Right			50 : 50mm		S2 : In the robot by magnetic sensor. Org
		BP : Motor Bottom					S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\phi 15, \phi 20, \phi 25$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.20 Normal 2Rail 4Block
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Actuator Specifications ($\phi 20$)

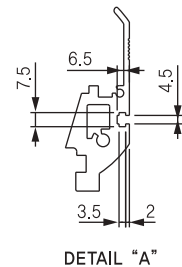
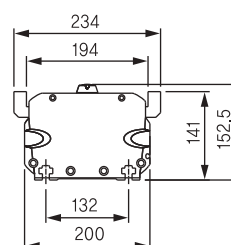
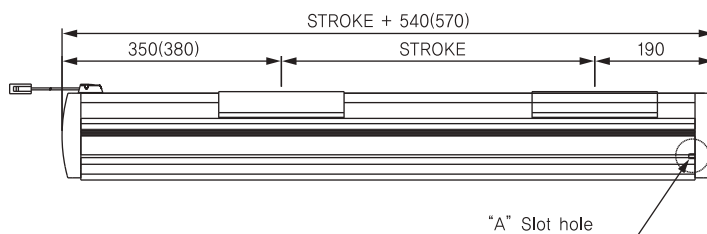
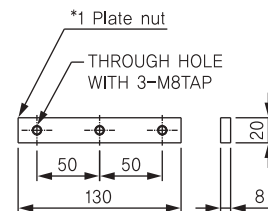
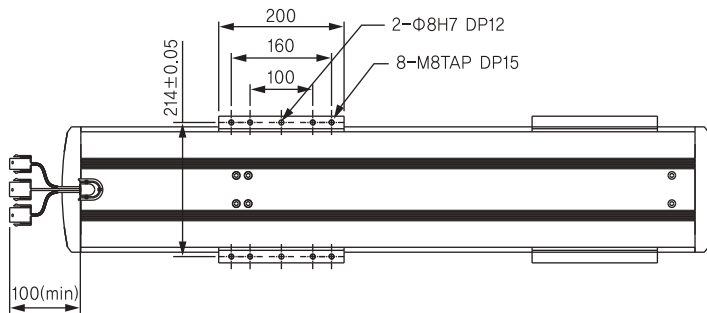
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor ¹	Ver ¹		
DRM-200-□-750-I-L05-□-□	750	5	240	80	500	100~600
DRM-200-□-750-I-L10-□-□		10	180	80	500	100~2000
DRM-200-□-750-I-L20-□-□		20	90	30	1250	
DRM-200-□-750-I-L30-□-□		30	50	20	1250	
DRM-200-□-750-I-L40-□-□		40	25	10	2500	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke																			
		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
DRM-200-□-750-I-L10-□-□	Speed(mm/s)	500									440	370	310	270	240	210	180	160	150	130	120
DRM-200-□-750-I-L20-□-□	Speed(mm/s)	1250									1100	930	790	690	600	530	470	420	370	340	310
DRM-200-□-750-I-L40-□-□	Speed(mm/s)	2500									2210	1860	1590	1380	1200	1060	940	840	750	680	620
Mass(kg)	≐ 0.0103 * Stroke + 5.2	24	26.6	29.2	31.8	34.4	37	39.6	42.2	44.8	47.4	50.5	52.6	55.2	57.8	60.4	63	65.6	68.2	70.8	73.4

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-200-P

allscrew, Standard specifications, Base width 200mm,
In-Line type, 600W/750W, 1~2500mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	200	LP	750	I	10	ST300	S3
DRM DRMP		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	750 : 750W 750B : 750W(Brake)	I : Incremental A : Absolute	10 : 10mm 25 : 25mm 50 : 50mm	100:2000mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 15, \Phi 20, \Phi 25$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.20 Normal 2Rail 4Block
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Actuator Specifications ($\Phi 20$)

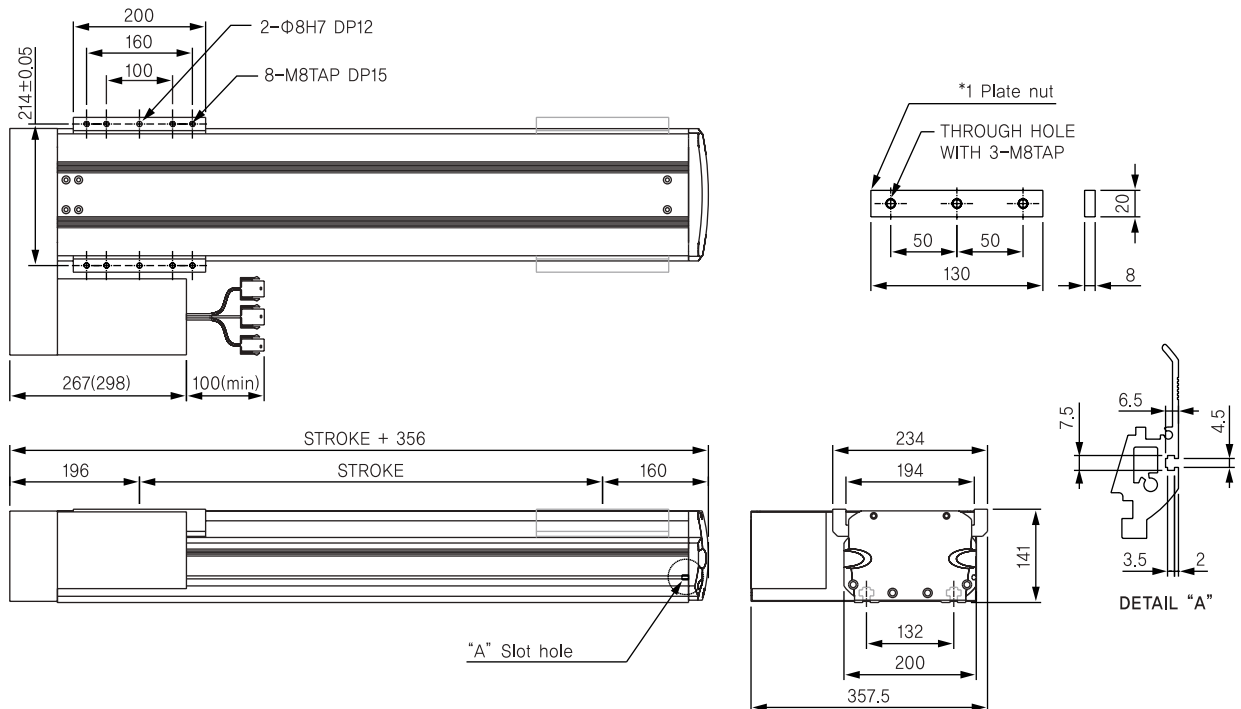
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-200-□-750-I-L05-□-□	750	5	240	80	500	100~600
DRM-200-□-750-I-L10-□-□		10	180	80	500	100~2000
DRM-200-□-750-I-L20-□-□		20	90	30	1250	
DRM-200-□-750-I-L30-□-□		30	50	20	1250	
DRM-200-□-750-I-L40-□-□		40	25	10	2500	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke																			
		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
DRM-200-□-750-I-L10-□-□	Speed(mm/s)	500									440	370	310	270	240	210	180	160	150	130	120
DRM-200-□-750-I-L20-□-□	Speed(mm/s)	1250									1100	930	790	690	600	530	470	420	370	340	310
DRM-200-□-750-I-L40-□-□	Speed(mm/s)	2500									2210	1860	1590	1380	1200	1060	940	840	750	680	620
Mass(kg)	≐ 0.0103 * Stroke + 5.2	24	26.6	29.2	31.8	34.4	37	39.6	42.2	44.8	47.4	50	52.6	55.2	57.8	60.4	63	65.6	68.2	70.8	73.4

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-250-S

Ballscrew, Standard specifications, Base width 250mm,
In-Line type, 750W/1000W, 1~2500mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	250	S	750	I	10	ST300	S3
DRM DRMP		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	750 : 750W 750B : 750W(Brake)	I : Incremental A : Absolute	10 : 10mm 25 : 25mm 50 : 50mm	100:2000mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 20, \Phi 25$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.30, 35 Normal 2Rail 4Block
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Actuator Specifications ($\Phi 20$)

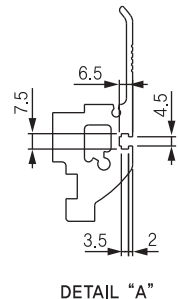
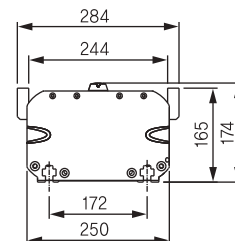
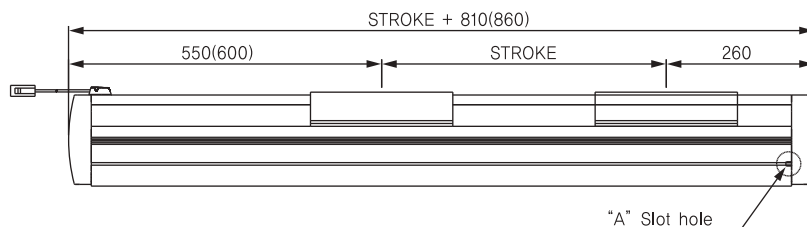
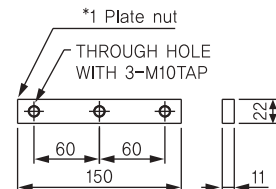
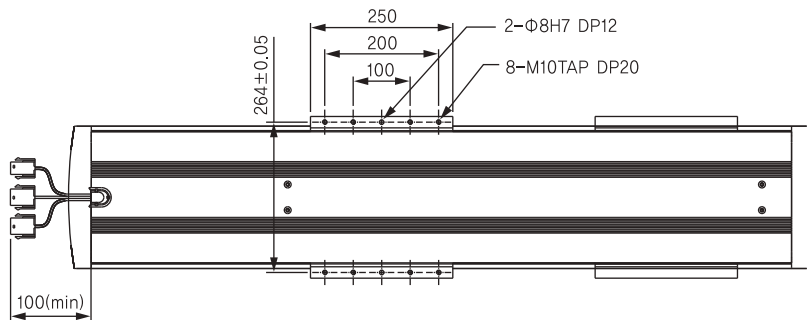
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor ¹	Ver ¹		
DRM-250-□-750-I-L05-□-□	750	5	240	80	250	100~600
DRM-250-□-750-I-L10-□-□		10	180	80	500	100~2000
DRM-250-□-750-I-L20-□-□		20	90	30	1000	
DRM-250-□-750-I-L30-□-□		30	50	20	1500	
DRM-250-□-750-I-L40-□-□		40	25	10	2000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke																			
		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
DRM-250-□-750-I-L10-□-□	Speed(mm/s)	500								470	390	330	290	250	220	190	170	150	140	120	110
DRM-250-□-750-I-L25-□-□	Speed(mm/s)	1250								1100	990	840	720	630	550	490	430	390	350	320	290
DRM-250-□-750-I-L50-□-□	Speed(mm/s)	2500								2370	1990	1690	1450	1260	1110	980	870	780	710	640	580
Mass(kg)	≡ 0.0103 * Stroke + 5.2	44.2	47.6	51	54.4	57.8	61.2	64.6	68	71.4	74.8	78.2	81.6	85	88.4	91.8	95.2	98.6	102	105	109

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-250-P

Ballscrew, Standard specifications, Base width 250mm,
In-Line type, 750W/1000W, 1~2500mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRM	250	LP	750	I	10	ST300	S3
DRM DRMP		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	750 : 750W 750B : 750W(Brake)	I : Incremental A : Absolute	10 : 10mm 25 : 25mm 50 : 50mm	100:2000mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 20, \Phi 25$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.30, 35 Normal 2Rail 4Block
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Actuator Specifications ($\Phi 20$)

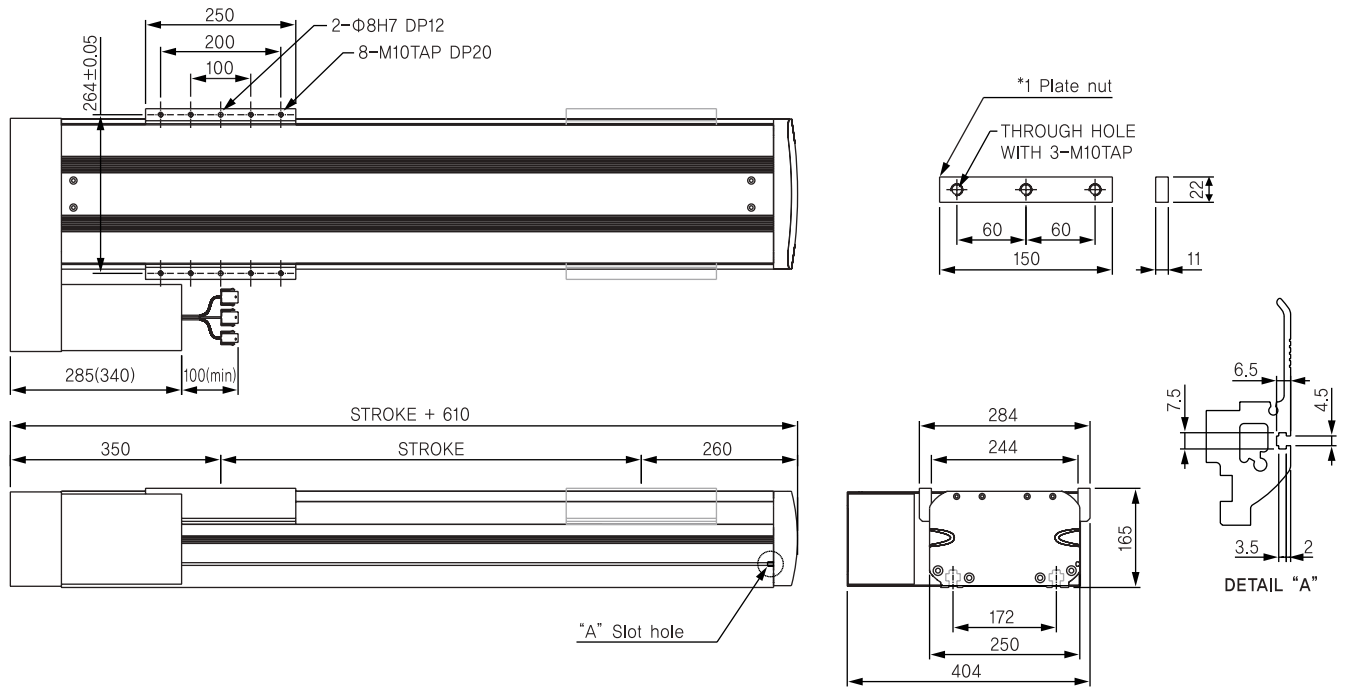
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-250-□-750-I-L05-□-□	750	5	240	80	250	100~600
DRM-250-□-750-I-L10-□-□		10	180	80	500	100~2000
DRM-250-□-750-I-L20-□-□		20	90	30	1000	
DRM-250-□-750-I-L30-□-□		30	50	20	1500	
DRM-250-□-750-I-L40-□-□		40	25	10	2000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke																			
		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
DRM-250-□-750-I-L10-□-□	Speed(mm/s)	500								470	390	330	290	250	220	190	170	150	140	120	110
DRM-250-□-750-I-L25-□-□	Speed(mm/s)	1250								1100	990	840	720	630	550	490	430	390	350	320	290
DRM-250-□-750-I-L50-□-□	Speed(mm/s)	2500								2370	1990	1690	1450	1260	1110	980	870	780	710	640	580
Mass(kg)	≅ 0.0103 * Stroke + 5.2	38.4	41.8	45.2	48.6	52	55.4	58.8	62.2	65.6	69	72.4	75.8	79.2	82.6	86	89.4	92.8	96.2	99.6	103

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-90-B

Belt, Standard specifications, Base width 90mm, 400W, 1~1800mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Speed	Stroke	Option
DRM	90	LB	400	I	1800	ST1000	S3
DRM		LB : Motor Left RB : Motor Right BB : Motor Bottom	400 : 400W 400B : 400W(Brake)	I : Incremental A : Absolute	1800	Maximum Stroke = 2500	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Belt	Position Repeatability	±0.08mm	LM Guide	No.20 Normal 2Rail 4Block
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Actuator Specifications

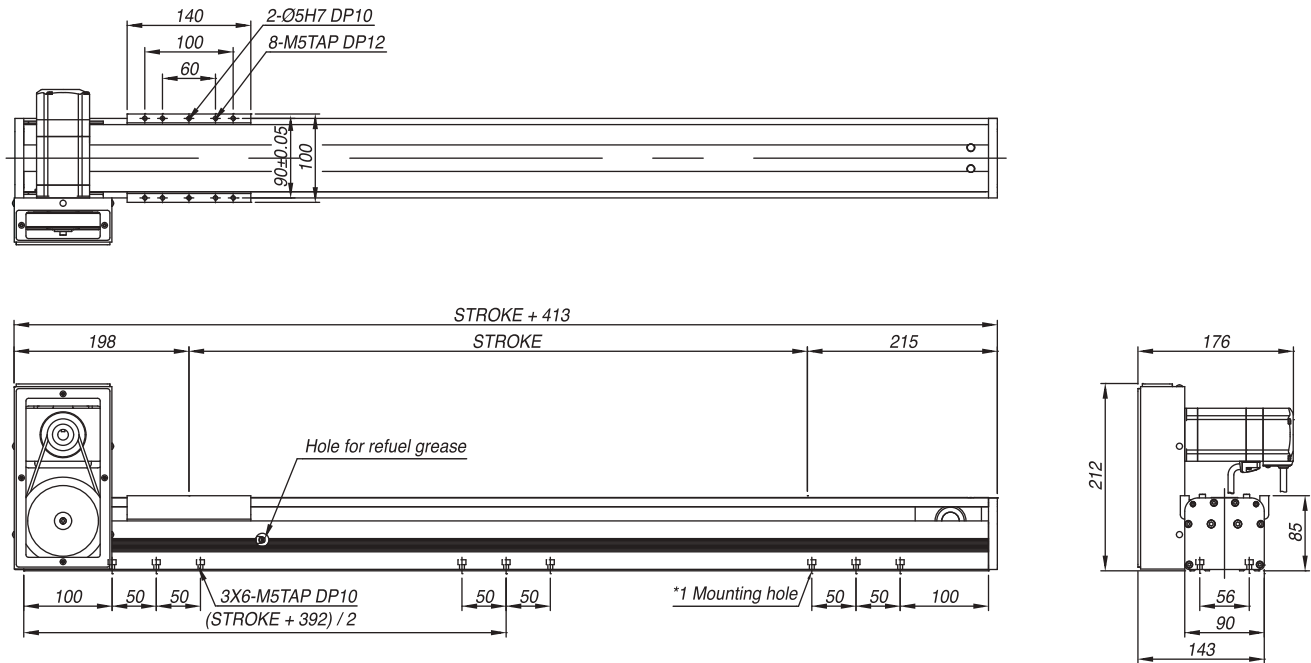
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-90-□-400-I-1800-□-□	400	-	8	-	1800	1~2500

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model	Speed(mm/s)	Stroke															
		1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
DRM-90-□-400-I-1800-□-□		1800															
Mass(kg)	$\cong 0.005 \times \text{Stroke} + 2.5$	14	14.8	15.6	16.4	17.2	18	18.8	19.6	20.4	21.2	22	22.8	23.6	24.4	25.2	26

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-130-B

Belt, Standard specifications, Base width 130mm, 750W, 1~2000mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Speed	Stroke	Option
DRM	130	LB	400	I	2000	ST1000	S3
DRM		LB : Motor Left RB : Motor Right BB : Motor Bottom	400 : 400W 400B : 400W(Brake)	I : Incremental A : Absolute	2000	Maximum Stroke = 2500	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Belt	Position Repeatability	±0.1mm	LM Guide	No.15 Normal 2Rail 4Block
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Actuator Specifications

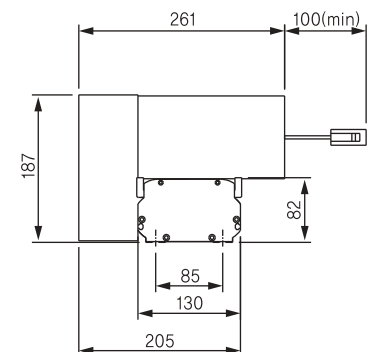
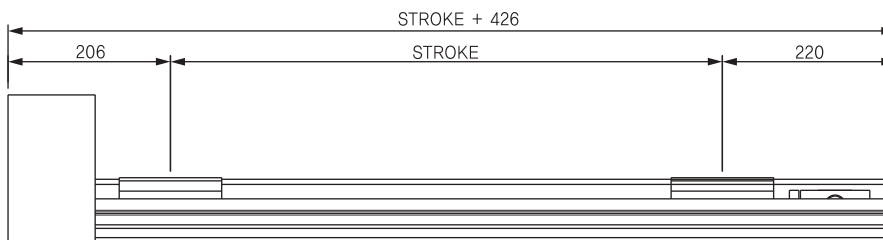
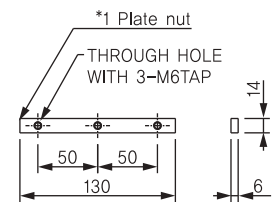
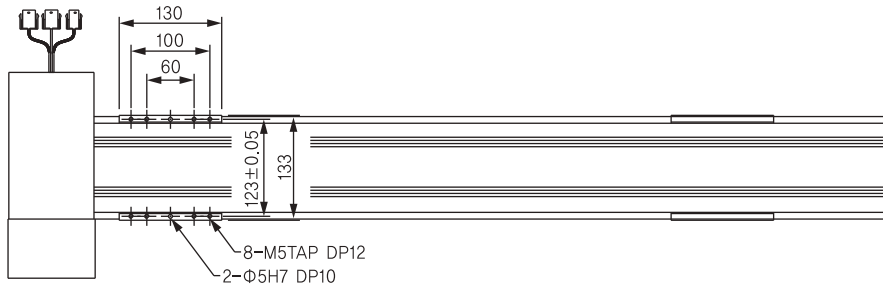
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor ¹	Ver ¹		
DRM-130-□-400-I-2000-□-□	400	-	8	-	2000	1~2500

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model	Stroke															
	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
DRM-130-□-400-I-2000-□-□ Speed(mm/s)	2000															
Mass(kg)	16.9	18.2	19.5	20.8	22.1	23.4	24.7	26	27.3	28.6	29.9	31.2	32.5	33.8	35.1	36.4

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-160-B

Belt, Standard specifications, Base width 160mm, 750W, 1~2000mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Speed	Stroke	Option
DRM	160	LB	750	I	2000	ST1000	S3
DRM		LB : Motor Left RB : Motor Right BB : Motor Bottom	750 : 750W 750B : 750W(Brake)	I : Incremental A : Absolute	2000	Maximum Stroke = 2500	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Belt	Position Repeatability	±0.1mm	LM Guide	No.20 Normal 2Rail 4Block
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Actuator Specifications

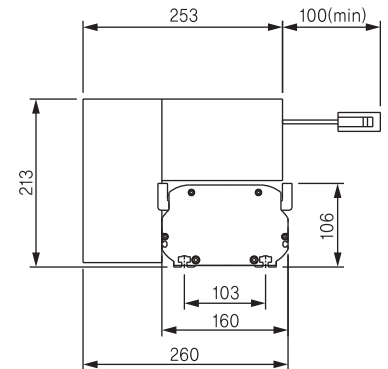
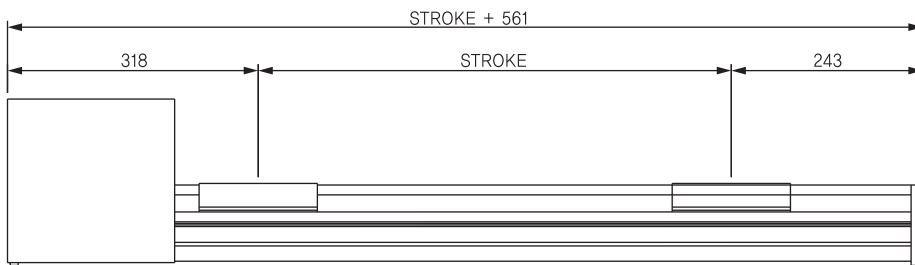
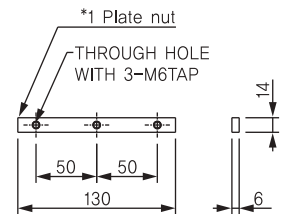
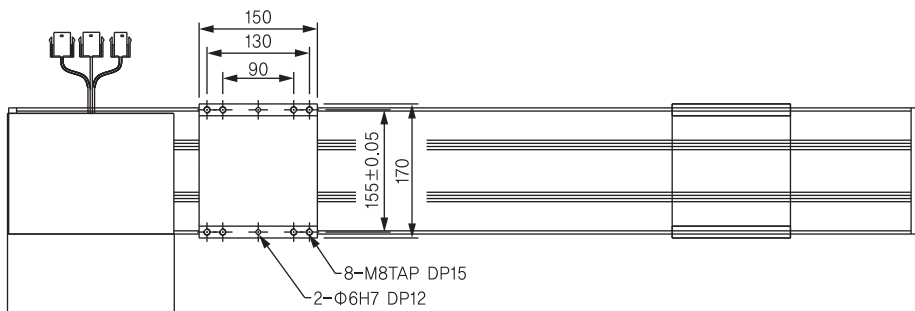
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-160-□-750-I-2000-□-□	750	-	30	-	2000	1~2500

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model			Stroke																	
			1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500		
DRM-160-□-750-I-2000-□-□			Speed(mm/s)			2000														
Mass(kg)	≅ 0.005 * Stroke + 2.5		30	31.7	33.4	35.1	36.8	38.5	40.2	41.9	43.6	45.3	47	48.7	50.4	52.1	53.8	55.5		

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-200-B

Belt, Standard specifications, Base width 200mm, 1000W, 1~2000mm/s



Series	Type 1	Type 2	Motor Power	Encoder	Speed	Stroke	Option
DRM	200	LB	1000	I	2000	ST1000	S3
DRM		LB : Motor Left RB : Motor Right BB : Motor Bottom	1000 : 1000W 1000B : 1000W(Brake)	I : Incremental A : Absolute	2000	Maximum Stroke = 2500	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Belt	Position Repeatability	±0.1mm	LM Guide	No.20 Normal 2Rail 4Block
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Actuator Specifications

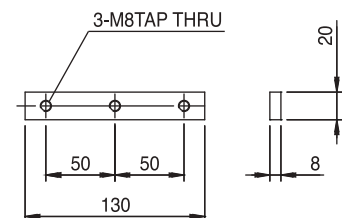
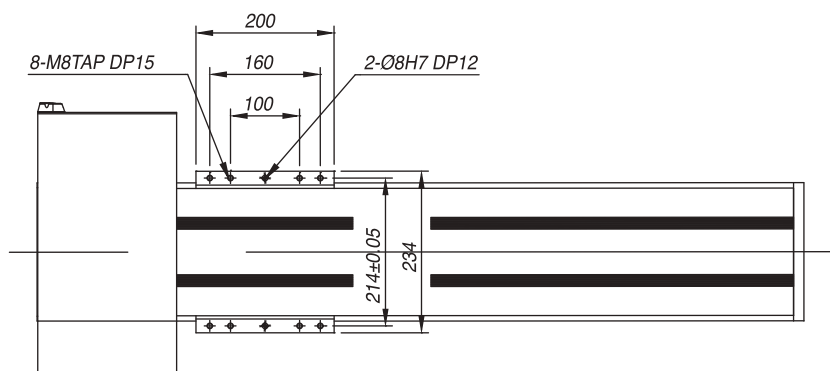
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor ¹	Ver ¹		
DRM-200-□-1000-I-2000-□-□	1000	-	50	-	2000	1~4000

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

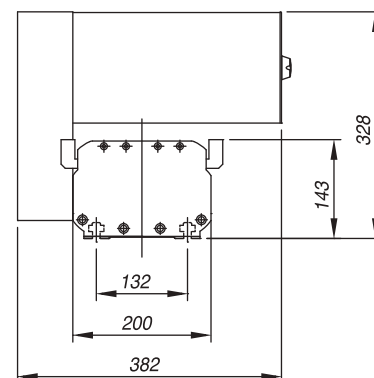
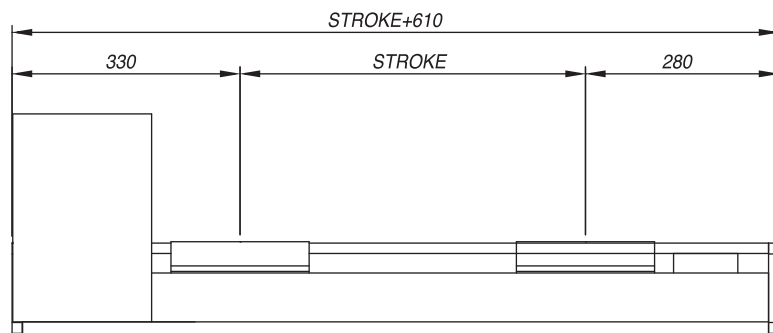
Model	Speed(mm/s)	Stroke															
		1000~2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
DRM-200-□-1000-I-2000-□-□		2000															
Mass(kg)	$\approx 0.005 \times \text{Stroke} + 2.5$	53.2~89.2	91.6	94	96.4	98.8	101	104	106	108.4	111	113.2	116	118	120.4	123	125

Dimension



X Axis Bolting Nut Detail

(SC 2:1)



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.



Series	Type 1	Type 2	Motor Power	Encoder	Speed	Stroke	Option
DRM	250	LB	1000	I	2500	ST4500	S3
DRM		LB : Motor Left RB : Motor Right BB : Motor Bottom	1000 : 1000W 1000B : 1000W(Brake)	I : Incremental A : Absolute	2500	Maximum Stroke = 4500	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Belt	Position Repeatability	±0.1mm	LM Guide	No.30 Normal 2Rail 4Block
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Actuator Specifications

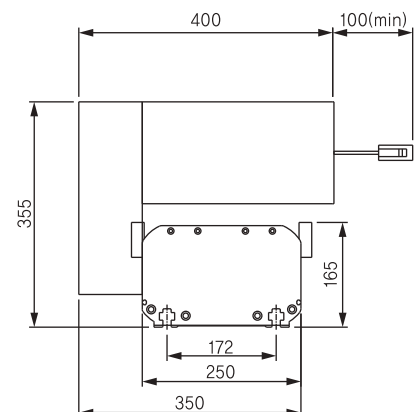
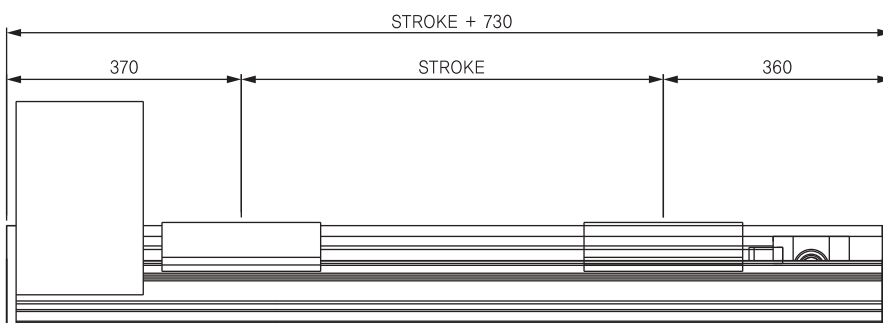
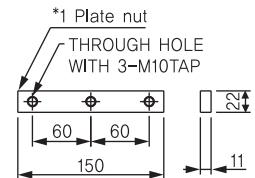
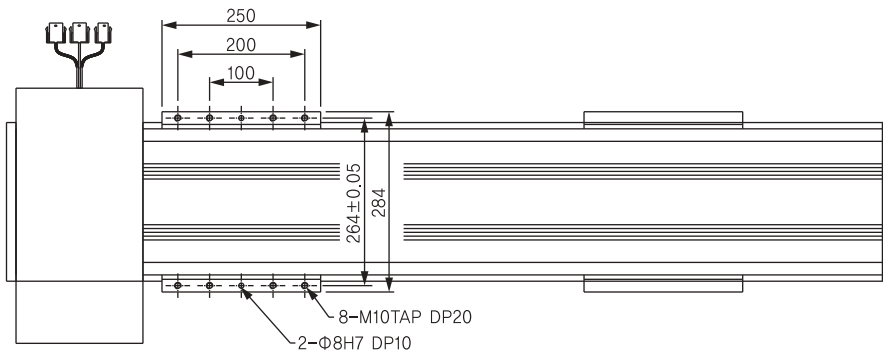
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-250-□-1000-I-2500-□-□	1000	-	60	-	2500	1~4500

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model			Stroke																				
			1000~2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
DRM-250-□-1000-I-2500-□-□ Speed(mm/s)			2000																				
Mass(kg)	≒ 0.005 * Stroke + 2.5		80.6~130.1	133.4	136.7	140	143.3	146.6	149.9	153.2	156.5	159.8	163.1	166.4	169.7	173	176.3	179.6	182.9	186.2	189.5	192.8	196.1

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-90-BGL

Belt, Standard specifications, Base width 90mm, 400W, 1~1800mm/s

Series	Type 1	Type 2	Motor Power	Encoder	Speed	Stroke	Option
DRM	90	BGL	400	I	1800	ST1000	S3
DRM		BGL : Motor Left BGR : Motor Right	400 : 400W 400B : 400W(Brake)	I : Incremental A : Absolute	1800	Maximum Stroke = 2500	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Belt	Position Repeatability	±0.1mm	LM Guide	No.20 Normal 1Rail 2Block
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Actuator Specifications

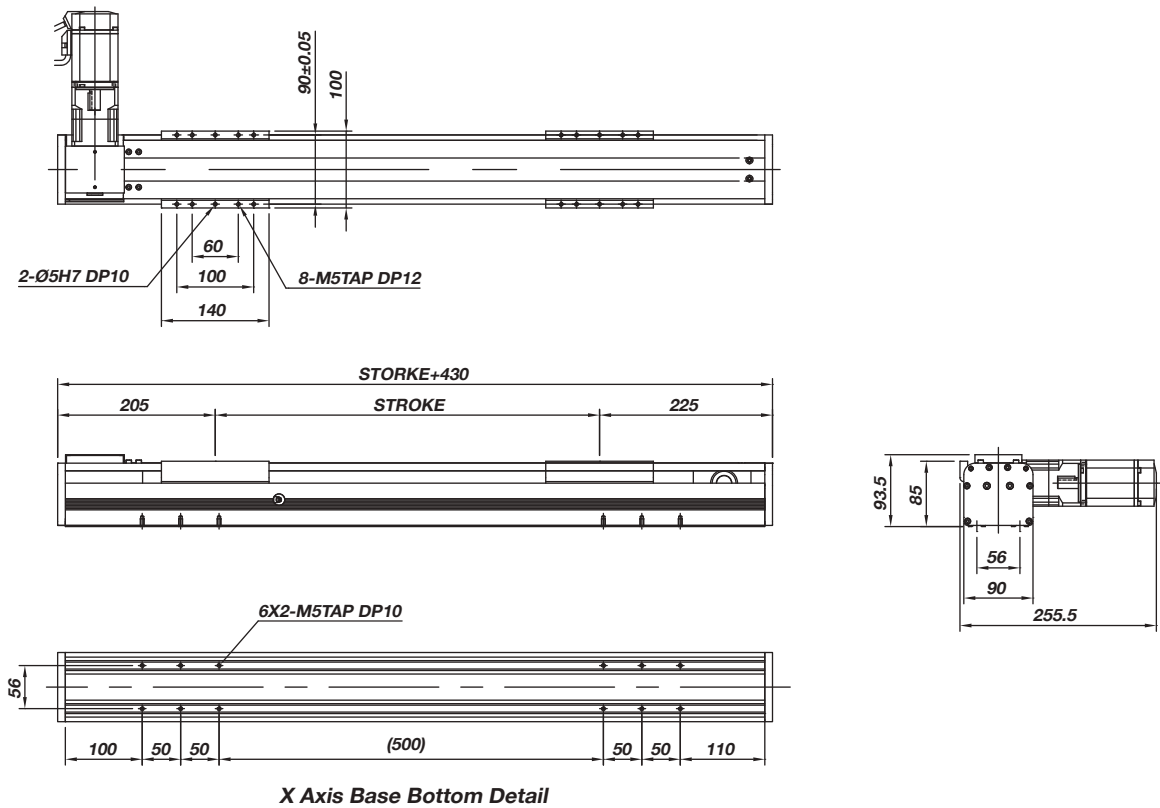
Model	Motor (W)	Encoder	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-90-□-400-I-1800-□-□	400	I	8~50	-	1800	1000~2500

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model			Stroke															
			1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
DRM-90-□-400-I-1800-□-□		Speed(mm/s)	1800															
Mass(kg)	≐ 0.005 * Stroke + 2.5		14	15	16	16	17	18	19	20	20	21	22	23	24	24	25	26

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-130-BGL

Belt, Standard specifications, Base width 130mm,
750W, 1~2000mm/s

Series	Type 1	Type 2	Motor Power	Encoder	Speed	Stroke	Option
DRM	130	BGL	400	I	2000	ST1000	S3
DRM		BGL : Motor Left BGR : Motor Right	400 : 400W 400B : 400W(Brake)	I : Incremental A : Absolute	2000	Maximum Stroke = 2500	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Belt	Position Repeatability	±0.1mm	LM Guide	No.15 Normal 2Rail 4Block
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Actuator Specifications

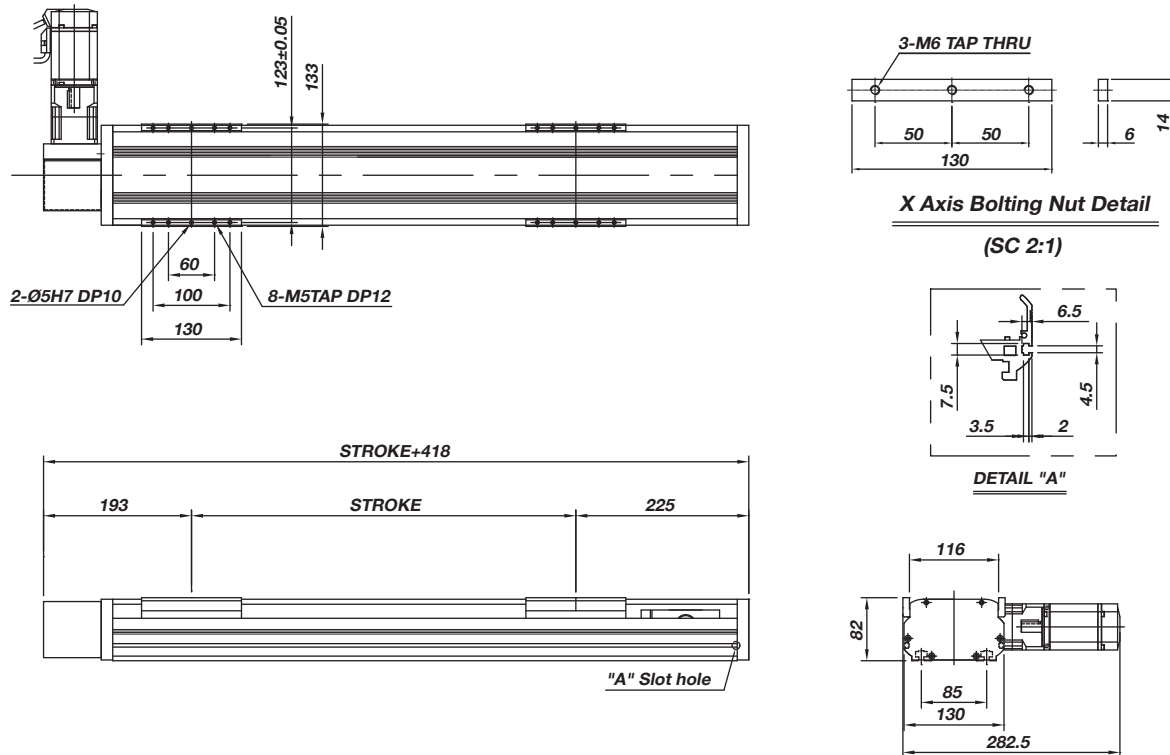
Model	Motor (W)	Encoder	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-130-□-400-I-2000-□-□	400	I	8~100	-	2000	1~2500

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model	Speed(mm/s)	Stroke															
		1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
DRM-130-□-400-I-2000-□-□		2000															
Mass(kg)	$\approx 0.005 * \text{Stroke} + 2.5$	17	18	20	21	22	23	25	26	27	29	30	31	33	34	35	36

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-160-BGL

Belt, Standard specifications, Base width 160mm,
750W, 1~2000mm/s

Series	Type 1	Type 2	Motor Power	Encoder	Speed	Stroke	Option
DRM	160	BGL	400	I	2000	ST1000	S3
DRM		BGL : Motor Left BGR : Motor Right	400 : 400W 400B : 400W(Brake)	I : Incremental A : Absolute	2000	Maximum Stroke = 2500	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Belt	Position Repeatability	±0.1mm	LM Guide	No.20 Normal 2Rail 4Block
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Actuator Specifications

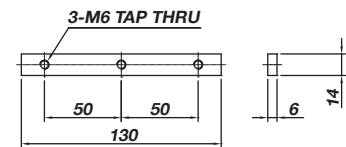
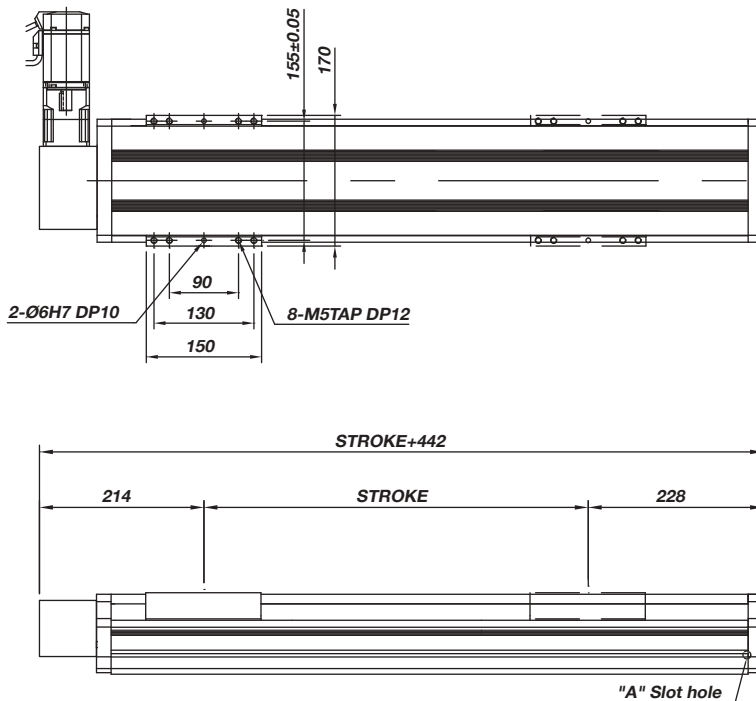
Model	Motor (W)	Encoder	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-160-□-400-I-2000-□-□	400	I	30~200	-	2000	1~2500

Stroke, Velocity & Robot Mass

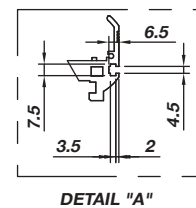
* 파나소닉 모터 기준 산정 무게

Model			Stroke																	
			1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500		
DRM-160-□-400-I-2000-□-□			Speed(mm/s)			1600														
Mass(kg)	≐ 0.005 * Stroke + 2.5		30	32	33	35	37	39	40	42	44	45	47	49	50	52	54	56		

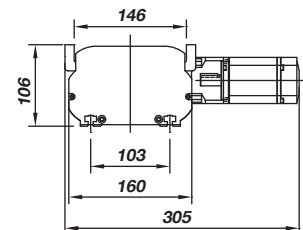
Dimension



X Axis Bolting Nut Detail
(SC 2:1)



DETAIL "A"



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-200-BGL

Belt, Standard specifications, Base width 200mm,
1000W, 1~2000mm/s

Series	Type 1	Type 2	Motor Power	Encoder	Speed	Stroke	Option
DRM	200	BGL	1000	I	2000	ST1000	S3
DRM		BGL : Motor Left BGR : Motor Right	1000 : 1000W 1000B : 1000W(Brake)	I : Incremental A : Absolute	2000	Maximum Stroke = 4000	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Belt	Position Repeatability	±0.1mm	LM Guide	No.25 Normal 2Rail 4Block
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Actuator Specifications

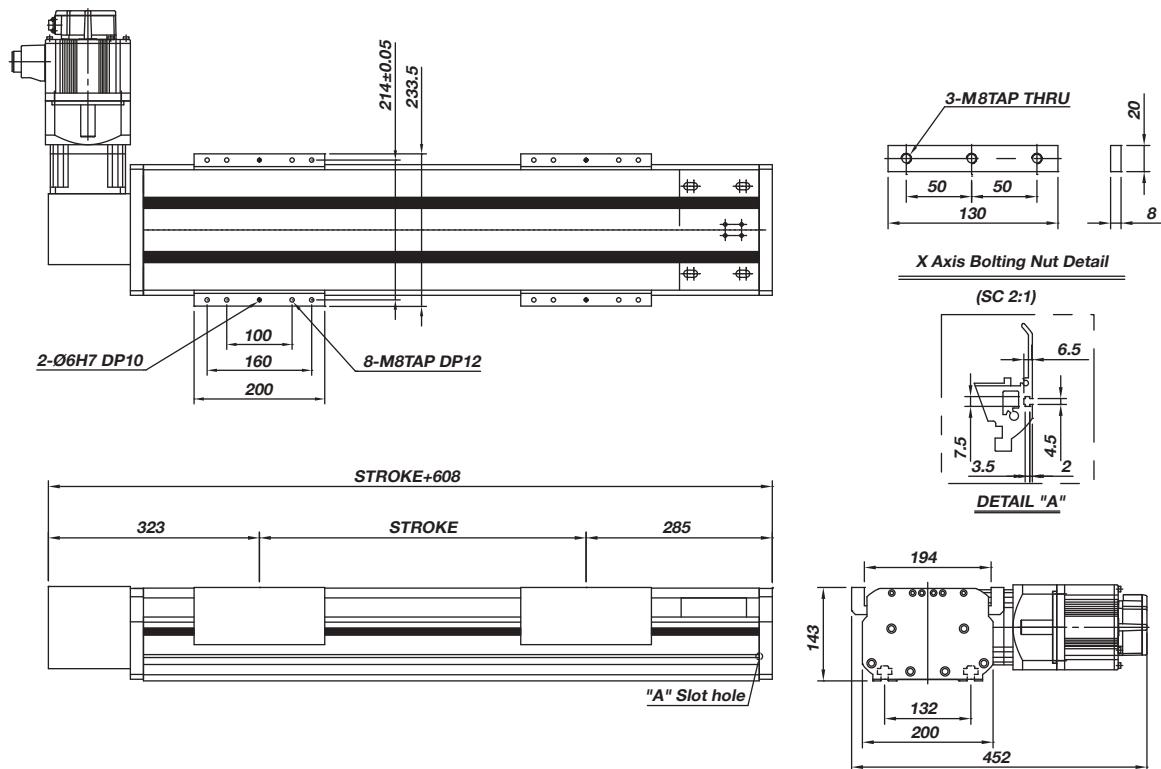
Model	Motor (W)	Encoder	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-200-□-1000-I-2000-□-□	1000	I	50~330	-	2000	1~4000

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model	Speed(mm/s)	Stroke															
		1000~2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000
DRM-200-□-1000-I-2000-□-□		2000															
Mass(kg)	$\approx 0.005 * \text{Stroke} + 2.5$	53.2~89.2	92	94	96	99	101	104	106	108	111	113.2	116	118	120	123	125

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRM-250-BGL

Belt, Standard specifications, Base width 250mm,
1000W, 1~2500mm/s

Series	Type 1	Type 2	Motor Power	Encoder	Speed	Stroke	Option
DRM	250	BGL	1000	I	2500	ST4500	S3
DRM		BGL : Motor Left BGR : Motor Right	1000 : 1000W 1000B : 1000W(Brake)	I : Incremental A : Absolute	2500	Maximum Stroke = 4500	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Belt	Position Repeatability	±0.1mm	LM Guide	No.30 Normal 2Rail 4Block
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Actuator Specifications

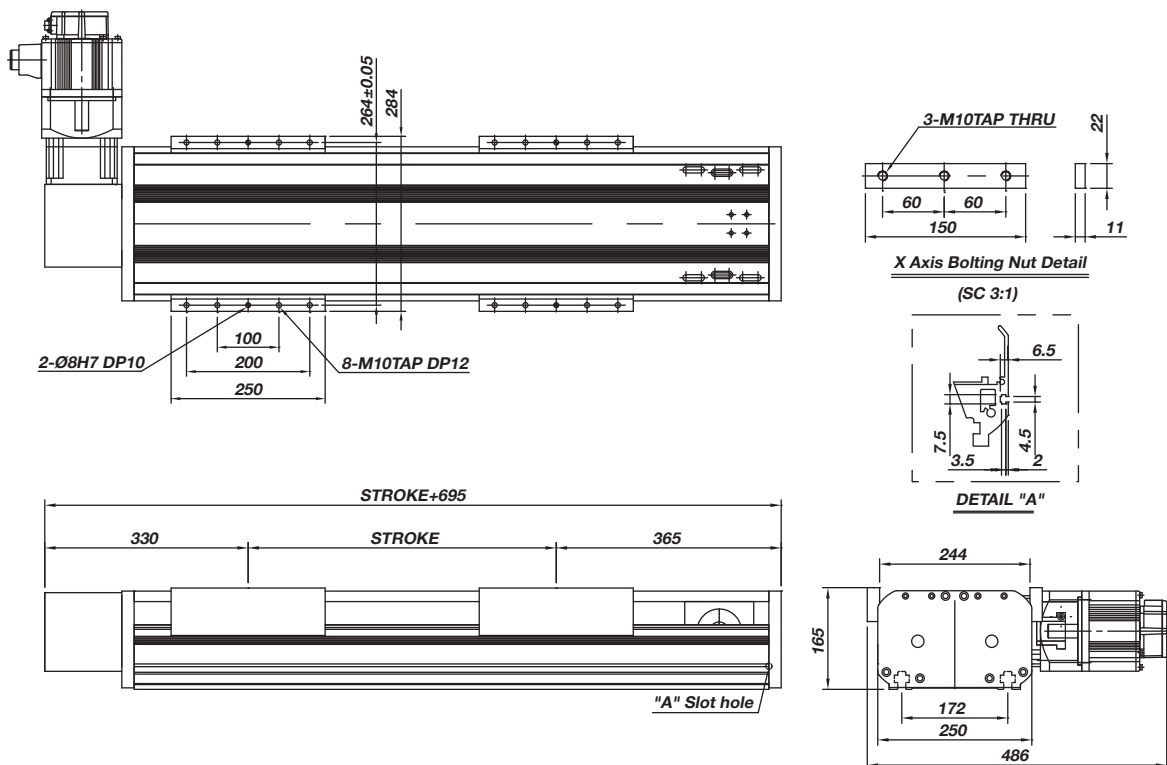
Model	Motor (W)	Encoder	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRM-250-□-1000-I-2500-□-□	1000	I	60~400	-	2000	1~4500

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model			Stroke																				
			1000~2500	2600	2700	2800	2900	3000	3100	3200	3300	3400	3500	3600	3700	3800	3900	4000	4100	4200	4300	4400	4500
DRM-250-□-1000-I-2500-□-□ Speed(mm/s)			2000																				
Mass(kg)	≒ 0.005 * Stroke + 2.5		80.6~130.1	133	137	140	143	147	150	153	157	160	163	166	170	173	176	180	183	186	190	193	196

Dimension



Applicable controllers

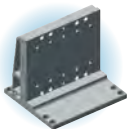
Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

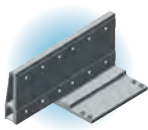
Note

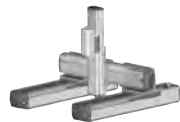
- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

Assorted combination types and Brackets

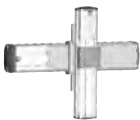
Model	2 Axes	3 Axes	4 Axes	5 Axes
 MRB-A	 MRB-A1	 MRB-A2		
		 MRB-A3		

Model	2 Axes	3 Axes	4 Axes	5 Axes
 MRB-B	 MRB-B1	 MRB-B2		

Model	2 Axes	3 Axes	4 Axes	5 Axes
 MRB-C	 MRB-C1	 MRB-C2	 MRB-C3	 MRB-C4
		 MRB-C5	 MRB-C6	

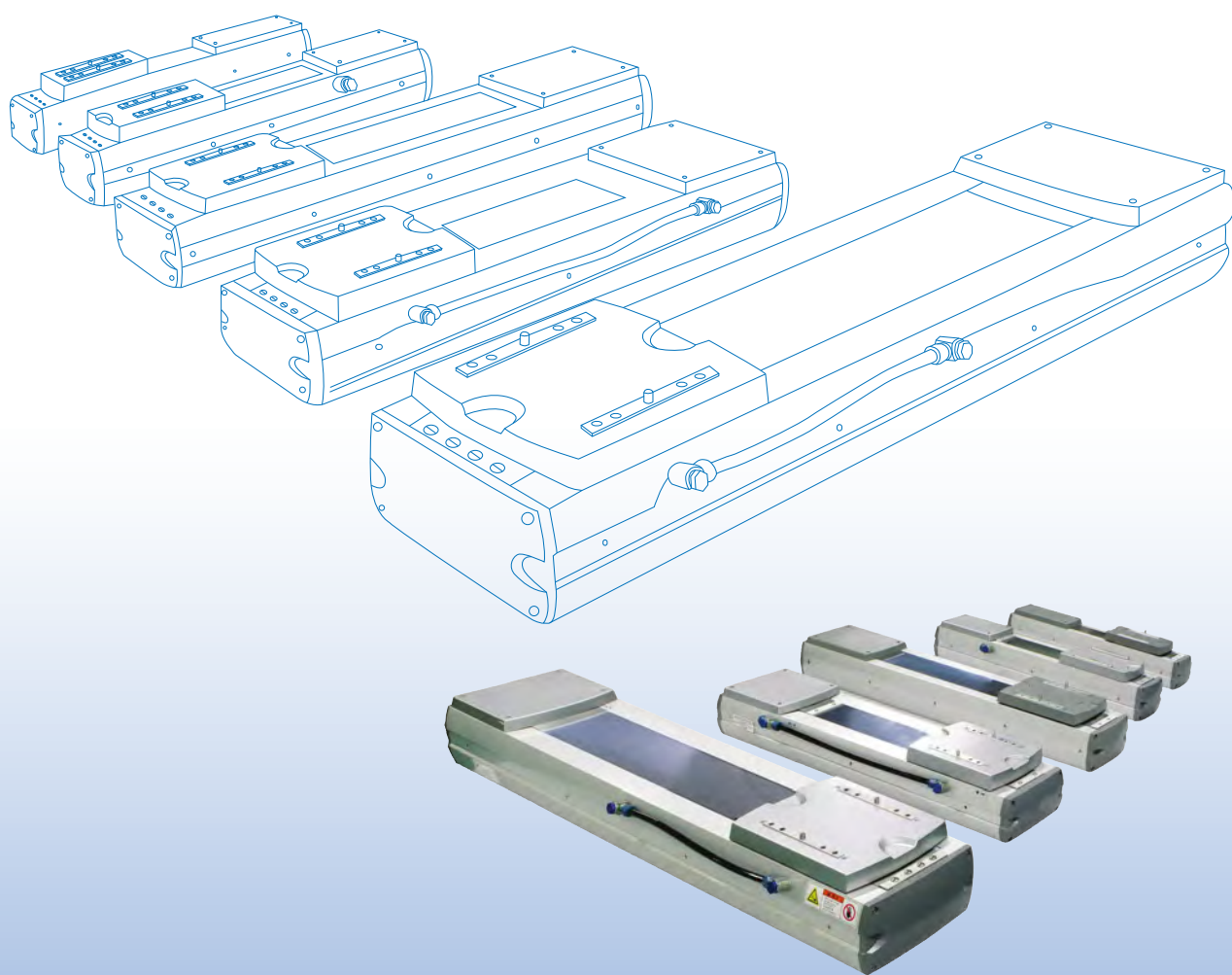
Model	2 Axes	3 Axes	4 Axes	5 Axes
 MRB-D	 MRB-D1	 MRB-D2	 MRB-D3	 MRB-D4
		 MRB-D5	 MRB-D6	

Assorted combination types and Brackets

Model	2 Axes	3 Axes	4 Axes	5 Axes
 MRB-G	 MRB-G1			

Model	2 Axes	3 Axes	4 Axes	5 Axes
 MRB-T	 MRB-T1	 MRB-T2		

CLEAN ROOM ROBOT / DRMC series



Contents

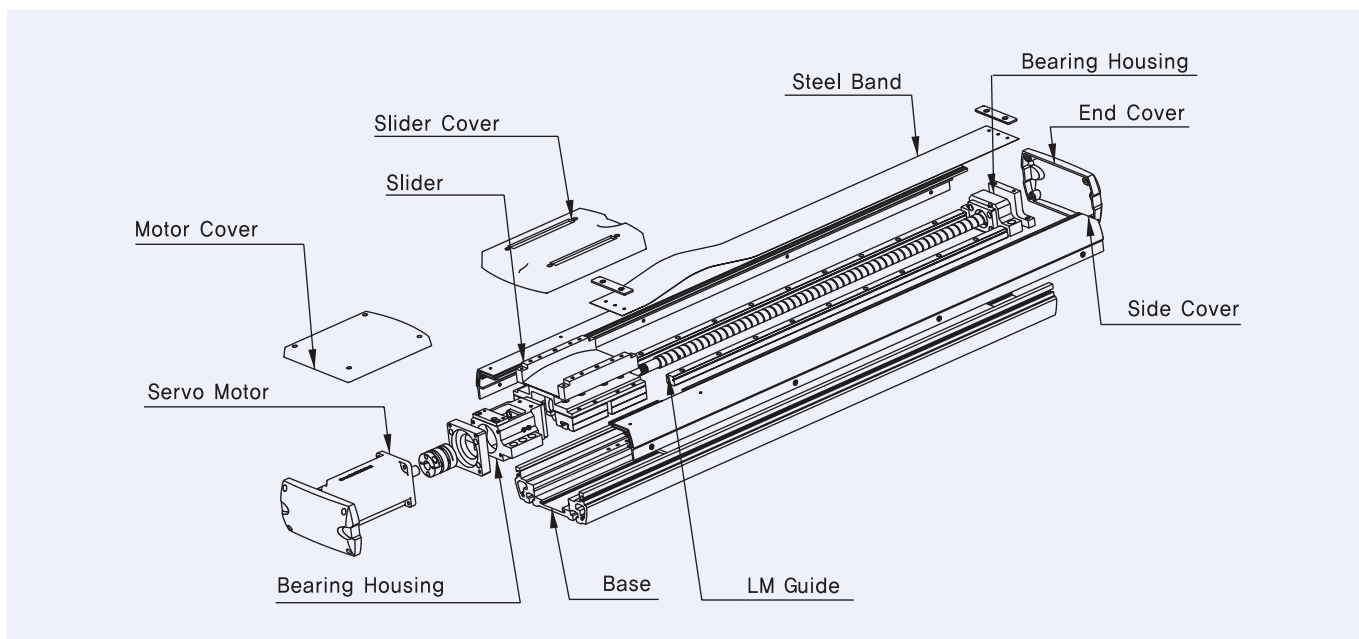
Feature	85 _ 87
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Ball screw type	96 _ 110
DRMC(P) 45-S ~ DRMC(P)265-S	
DRMC(P) 45-P ~ DRMC(P)180-P	
Belt type	111 _ 112
DRMC 120-B ~ DRMC 140-B	

Feature

1. Structure

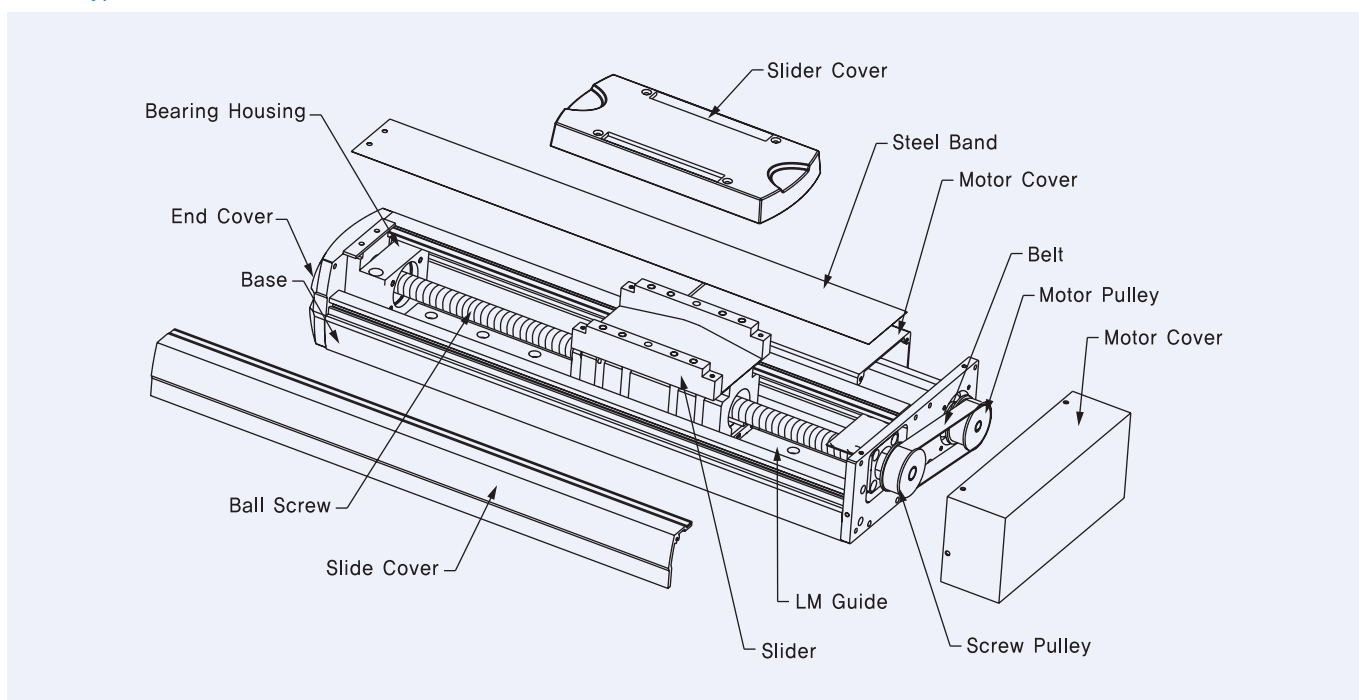
DRMC(P)-S : Ballscrew Driving Type

Straight type



* The above drawings are for the ball screw types

Parallel type



2. Various Product Line-up

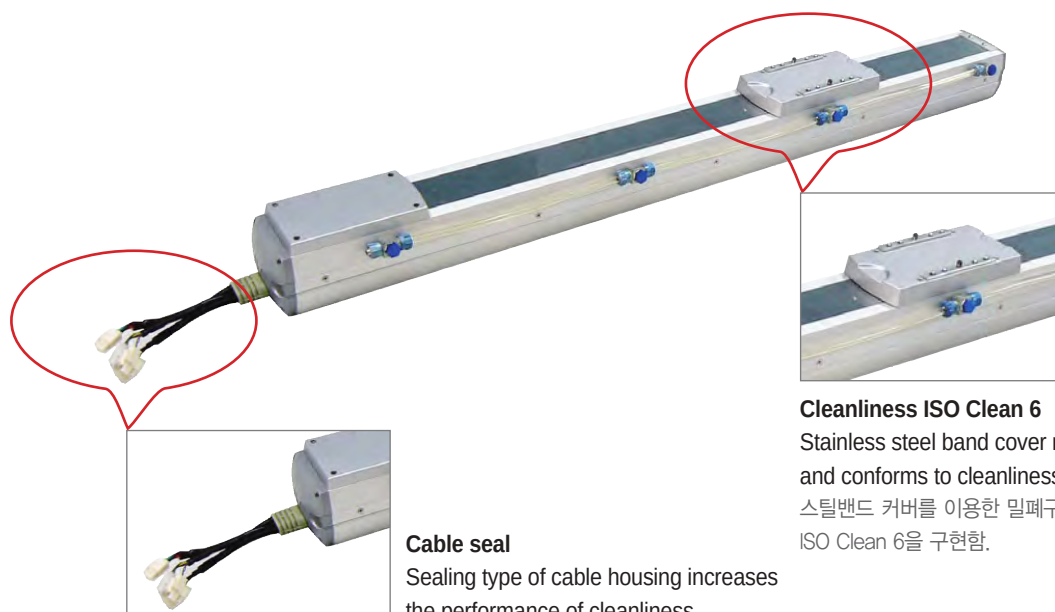
DRMC series have successfully proved their reliability for corresponding to very high ISO Clean 6 and higher precision and high load capacity. There are a wide range of models which can apply for various applications.

DRMC 시리즈는 고정밀, 고하중, ISO Clean 6 구현을 바탕으로 높은 신뢰성을 가지고 있다.

- ▶ Driving Type : Ball screw, Belt Driving Type
- ▶ Applied Motor : 100~750W
- ▶ Stroke : 50~12,000 mm
- ▶ Speed : 250~2000 mm/s
- ▶ Payload : 120 kg(Horizontal) / 45 kg(Vertical)

* Nonstandard specification is subject to be discussed in advance.

3. Feature



Cable seal

Sealing type of cable housing increases the performance of cleanliness
케이블을 하우징 형태로 처리하여 크린도를 향상

Cleanliness ISO Clean 6

Stainless steel band cover makes seal and conforms to cleanliness ISO Clean 6
스틸밴드 커버를 이용한 밀폐구조로 ISO Clean 6을 구현함.

1) Particle Restriction - Internal particle is minimized because steel cover seals up the gap between slider and base and components is processed by aftertreatment.

입자 제한 - 스틸커버로 슬라이더와 베이스 그리고 구성품들의 틈을 차단시킴으로써 내부의 입자를 최소화시킵니다.

2) Suction - Higher clean class is maintained because suction valve pulls out internal particle by force.

흡입관 - 흡입밸브를 통한 축간 입자를 배출하여 고청결도를 유지합니다.

4. Controller

Single axis controller and Multi axes Controller are applicable.

Controller	Model	Type	Number of controlled axes	Page
	iMS-Jp	Single axis Controller	1 axis	200
	iM-U	Multi axes Controller	2~8 axes	206

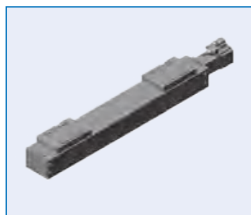
Ballscrew Type

DRMC(P)45~265-S(Straight)

■ DRMC45-S



■ DRMC65-S



■ DRMC70-S



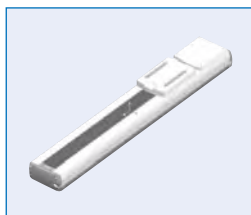
■ DRMC88-S



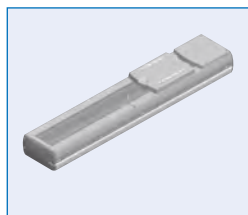
■ DRMC120-S



■ DRMC140-S



■ DRMC180-S

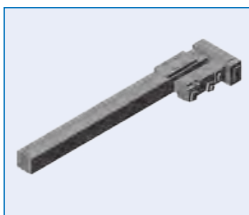


■ DRMC265-S

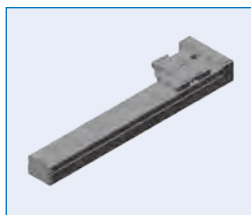


DRMC(P)45~180-P(Parallel)

■ DRMC45-P



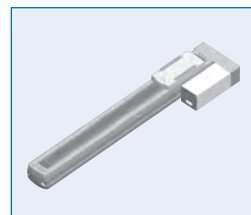
■ DRMC65-P



■ DRMC70-P



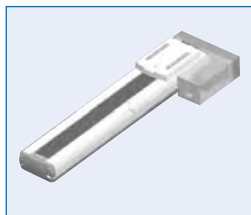
■ DRMC88-P



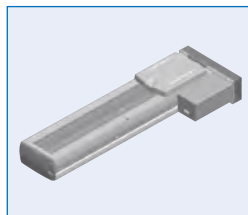
■ DRMC120-P



■ DRMC140-P



■ DRMC180-P



Belt Type

■ DRMC120-B



■ DRMC140-B



Ordering Model

①	②	③	④	⑤	⑥	⑦	⑧
Series	Base width	Type	Motor	Encoder	Speed	Stroke	Option
DRMC	88	- S	- 100	- I	- 10	- ST300	- S1

① Series

Name of the series : DRMC is Clean room robots

DRMC : Cartesian robot, Clean room specifications

DRMCP : Cartesian robot, Clean room specifications, High precision

② Base width

The base width of each model

(Ex : 88=88mm)

③ Type

The type of actuator or drive

S : Ball screw, Straight type (Motor in-line type)

LP : Ball screw, Left side parallel type (Motor side mount-Left)

RP : Ball screw, Right side parallel type (Motor side mount-Right)

BP : Ball screw, Bottom side parallel type (Motor side mount-Bottom)

B : Belt drive

G : Guide(Slave)-axis

* Guide-axis model includes series, base width, type, and stroke in the ordering model
(Ex: DRMC88-G-400)

④ Motor

Motor capacity(W)

(Ex : 100=100W)

⑤ Encoder

A : Absolute Encoder

The current slider position will be retained even after the power is turned off, so origin return is not required when the power is turned on.

I : Incremental Encoder

The slider position data will be cleared once the power is turned off, so origin return is required whenever the power is turned on.

⑥ Speed

The speed of ball screw types indicate the ball screw lead and the belt types indicate speed(unit: mm/s)

(Ex : 10=Lead 10mm)

* The speed is based on the rated 3000rpm(revolution per minute) of standard servo motor

⑦ Stroke

Stroke

(Ex : ST300=300mm)

⑧ Option

The Options to be equipped on the robot

S0 : None sensor

S1 : Magnetic Limit sensor (Motor side & Reverse side)

S2 : L1 + Origin sensor (Motor side)

S3 : Photo Limit sensor (Motor side & Reverse side + Origin sensor)

RS : Suction dust joint on opposition side

Model List

Ball screw type

Series	Base width	-	Type	-	Motor	-	Encoder	-	Speed	-	Stroke	-	Option	
DRMC DRMCP	45	-	S LP RP BP	-	100	-	I A	-	L05	-	50 ~ 400	-	S1 S2 S3	RS
		-		-		-		-	L10	-		-		
	65	-		-	100	-		-	L05	-	50 ~ 400	-		
		-		-		-		-	L10	-		-		
	70	-		-	100	-		-	L10	-	100 ~ 700	-		
	88	-		-		-		-	L05	-	100 ~ 1100	-		
		-		-	200	-		-	L10	-		-		
	120	-		-		-		-	L20	-	100 ~ 1100	-		
		-		-		-		-	L05	-		-		
	140	-		-		-		-	L10	-	100 ~ 1100	-		
		-		-		-		-	L20	-		-		
	180	-		-	400	-		-	L05	-	100 ~ 1500	-		
		-		-		-		-	L10	-		-		
		-		-	600	-		-	L20	-		-		
		-		-		-		-	L10	-		-		
DRMC	265	-	S	-	2000	-		-	L10	-	100~2500	-		
		-		-	2500	-		-	L20	-		-		
		-		-	3000	-		-	L40	-		-		

* DRMC 265 is only for Straight type(Motor in-line type)

Belt type

Series	Base width	-	Type	-	Motor	-	Encoder	-	Speed	-	Stroke	-	Option	
DRMC	120	-	B	-	800	-	I A	-	1000	-	1000 ~ 5000	-	S1	RS
	140	-		-	800	-		-	1200	-	1000 ~ 2000	-	S2	
		-		-		-		-		-		-	S3	

Specification Table

Ball screw type

Ball screw type	Stroke(mm), maximum speed(mm/s)																												
Stroke	50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500			
DRMC(P)45-S	500																												
	500																												
DRMC(P)65-S	500																												
	500																												
DRMC(P)70-S	500					480	370	300																					
	500					480	370	300																					
DRMC(P)88-S	250							210	170	140	120	100	80	70	60	60													
	250							430	340	280	230	200	170	150	130	110													
	250							870	690	570	470	400	340	300	260	230													
DRMC(P)120-S	250							210	170	140	120	100	80	70	60	60													
	250							430	340	280	230	200	170	150	130	110													
	250							870	690	570	470	400	340	300	260	230													
	250							1300	1040	850	710	600	510	450	390	340													
DRMC(P)140-S	250						230	180	150	120	100	90	80	70	60	50													
	250						460	370	300	250	210	180	150	130	120	100													
	250						940	750	610	500	420	360	310	270	240	210													
	250						1410	1120	910	760	640	540	470	410	360	320													
DRMC(P)180-S	250							220	180	140	120	100	90	70	70	60													
	500							440	350	290	240	200	170	150	130	120													
	1000							900	720	590	490	410	350	300	270	230													
	1500							1360	1080	880	730	620	530	460	400	350													
DRMC265-S		330															312	279	252	228	207	189	173	159	147	136	126		
		660															625	559	503	455	414	378	346	319	294	272	253		
		1320															1249	1118	1006	910	828	756	693	637	588	545	506		

	Lead (mm)	Rated Speed (mm/s)	Motor (W)	Payload at rated acceleration(kg)		Payload by acceleration(kg)							
						0.3G	0.4G	0.5G	0.6G	0.7G	0.8G	0.9G	1.0G
	5	250	100	Horizontal	10								
				Vertical	5								
	10	500	100	Horizontal	10								
				Vertical	5								
	5	250	100	Horizontal	22								
				Vertical	15								
	10	500	100	Horizontal	15								
				Vertical	7								
	5	500	100	Horizontal	22								
				Vertical	15								
	10	500	100	Horizontal	15								
				Vertical	7								
	5	250	100	Horizontal	22								
				Vertical	15								
	10	500	100	Horizontal	15								
				Vertical	7								
	20	1000	100	Horizontal	7								
				Vertical	-								
	5	250	200	Horizontal	80								
				Vertical	25								
	10	500	200	Horizontal	30								
				Vertical	12								
	20	1000	200	Horizontal	15								
				Vertical	6								
	30	1500	200	Horizontal	5								
				Vertical	-								
	5	250	200	Horizontal	80								
				Vertical	25								
	10	500	200	Horizontal	30								
				Vertical	12								
	20	1000	200	Horizontal	15								
				Vertical	6								
	30	1500	200	Horizontal	5								
				Vertical	-								
	5	250	400	Horizontal	160								
				Vertical	80								
	10	500	400	Horizontal	90								
				Vertical	40								
	20	1000	400	Horizontal	50								
				Vertical	20								
	30	1500	400	Horizontal	20								
				Vertical	10								
	10	330	2000	Horizontal	500								
				Vertical	200								
	20	660	2500	Horizontal	250								
				Vertical	100								
	40	1320	3000	Horizontal	100								
				Vertical	50								

Specification Table

Ball screw type

Ball screw type	Stroke(mm), maximum speed(mm/s)																									
Stroke	50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
DRMC(P)45-P	500																									
	500																									
DRMC(P)65-P	500																									
	500																									
DRMC(P)70-P	500					480	370	300																		
	500					480	370	300																		
DRMC(P)88-S	250							210	170	140	120	100	80	70	60	60										
	250							430	340	280	230	200	170	150	130	110										
	250							870	690	570	470	400	340	300	260	230										
DRMC(P)120-P	250							210	170	140	120	100	80	70	60	60										
	250							430	340	280	230	200	170	150	130	110										
	250							870	690	570	470	400	340	300	260	230										
	250							1300	1040	850	710	600	510	450	390	340										
DRMC(P)140-P	250						230	180	150	120	100	90	80	70	60	50										
	250						460	370	300	250	210	180	150	130	120	100										
	250						940	750	610	500	420	360	310	270	240	210										
	250						1410	1120	910	760	640	540	470	410	360	320										
DRMC(P)180-P	250							220	180	140	120	100	90	70	70	60										
	500							440	350	290	240	200	170	150	130	120										
	1000							900	720	590	490	410	350	300	270	230										
	1500							1360	1080	880	730	620	530	460	400	350										

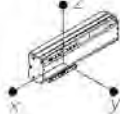
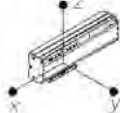
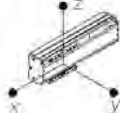
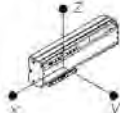
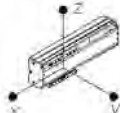
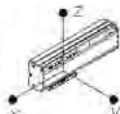
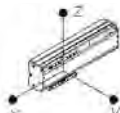
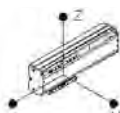
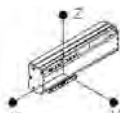
Belt type

Belt type	Stroke(mm), maximum speed(mm/s)																						
Stroke	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000	4200	4400	4600	4800	5000	~12000		
DRMC88-B	800																						
DRMC100-B											1000												
											2000												
DRMC120-B											1000												
DRMC140-B	1200																				~12000		

	Lead (mm)	Rated Speed (mm/s)	Motor (W)	Payload at rated acceleration(kg)		Payload by acceleration(kg)							
						0.3G	0.4G	0.5G	0.6G	0.7G	0.8G	0.9G	1.0G
	5	250	100	Horizontal	10								
				Vertical	5								
	10	500	100	Horizontal	10								
				Vertical	5								
	5	250	100	Horizontal	22								
				Vertical	15								
	10	500	100	Horizontal	15								
				Vertical	7								
	5	500	100	Horizontal	22								
				Vertical	15								
	10	500	100	Horizontal	15								
				Vertical	7								
	5	250	100	Horizontal	22								
				Vertical	15								
	10	500	100	Horizontal	15								
				Vertical	7								
	20	1000	100	Horizontal	7								
				Vertical	-								
	5	250	200	Horizontal	80								
				Vertical	25								
	10	500	200	Horizontal	30								
				Vertical	12								
	20	1000	200	Horizontal	15								
				Vertical	6								
	30	1500	200	Horizontal	5								
				Vertical	-								
	5	250	200	Horizontal	80								
				Vertical	25								
	10	500	200	Horizontal	30								
				Vertical	12								
	20	1000	200	Horizontal	15								
				Vertical	6								
	30	1500	200	Horizontal	5								
				Vertical	-								
	5	250	400	Horizontal	160								
				Vertical	80								
	10	500	400	Horizontal	90								
				Vertical	40								
	20	1000	400	Horizontal	50								
				Vertical	20								
	30	1500	400	Horizontal	20								
				Vertical	10								

	Lead (mm)	Rated speed (mm/s)	Motor (W)	Payload at rated acceleration (kg)		Payload by acceleration(kg)							
						0.3G	0.4G	0.5G	0.6G	0.7G	0.8G	0.9G	1.0G
	800	800	400	Horizontal	20	20	-	-	-	-	-	-	-
	1000	1000	400	Horizontal	35	35	-	-	-	-	-	-	-
	2000	2000	800	Horizontal	35	35	-	-	-	-	-	-	-
	1000	1000	800	Horizontal	40	40	-	-	-	-	-	-	-
	1200	1200	800	Horizontal	30	30	-	-	-	-	-	-	-

Allowable for over hang weight(acceleration = 0.3sec / Speed = 250 ~ 1000 mm/sec)

Model		Payload(kg)	Speed(mm/s)	X(mm)	Y(mm)	Z(mm)		Payload(kg)	
DRMC-45		10	250	30	40	900		10	
		10	500	50	60	500		10	
DRMC-65		22	250	30	80	700		22	
		15	500	40	120	440		15	
		5	1000	95	220	440		5	
DRMC-70		22	250	95	85	2000		22	
		15	500	140	95	1200		15	
		7	1000	320	210	1250		7	
DRMC-88		22	250	200	180	4900		22	
		15	500	280	260	3000		15	
		5	1000	270	600	2800		5	
DRMC-120		80	250	145	235	3500		80	
		30	500	385	540	4000		30	
		15	1000	600	650	2500		15	
DRMC-140		80	250	160	280	4000		80	
		30	500	420	600	4500		30	
		15	1000	660	720	3000		15	
DRMC-180		160	250	135	285	2500		160	
		90	500	240	490	1445		90	
		50	1000	350	600	1200		50	
DRMC-265		240	250	700	850	12000		240	
		180	500	1150	1800	10000		180	
		90	1000	1600	1600	6500		90	
DRMC-140-B		80	250	160	280	4000		80	
		30	500	420	600	4500		30	
		15	1000	660	720	3000		15	

	Speed(mm/s)	X(mm)	Y(mm)	Z(mm)		Payload(kg)	Speed(mm/s)	X(mm)	Y(mm)	Z(mm)
	250	20	60	700		5	250	40	35	-
	500	35	75	420		5	500	100	80	-
	250	30	90	700		15	250	45	45	-
	500	40	130	440		7	500	95	95	-
	1000	95	240	440		-	-	-	-	-
	250	90	50	1900		15	250	125	125	-
	500	130	85	1120		7	500	270	270	-
	1000	305	235	1300		-	-	-	-	-
	250	200	200	4500		15	250	270	270	-
	500	280	280	2800		7	500	600	600	-
	1000	670	670	2800		-	-	-	-	-
	250	110	150	2350		25	250	360	330	-
	500	280	400	2800		12	500	880	660	-
	1000	410	700	1900		6	1000	1330	1000	-
	250	140	180	2700		25	250	450	390	-
	500	350	490	3200		12	500	1000	700	-
	1000	480	800	2200		6	1000	1400	1100	-
	250	160	250	3300		80	250	220	330	-
	500	270	480	3000		40	500	400	500	-
	1000	400	550	1500		20	1000	850	950	-
	250	800	800	20000		100	250	1800	2000	-
	500	1000	1150	10000		80	500	1800	2000	-
	1000	1600	1600	6500		40	1000	2500	2500	-
	250	140	180	2700						
	500	350	490	3200						
	1000	480	800	2200						

DRMC-45-S

Ballscrew type, Clean room specifications,
Base Width 45mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRMC	45	S	50	I	10	ST50	S3
DRMC	S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom		50 : 50W 50B : 50W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm	50 : 50mm ~ 400 : 400mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\phi 12$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.12 Wide 1Rail 1Block
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Actuator Specifications

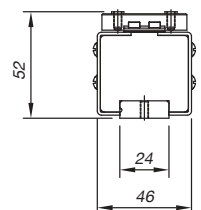
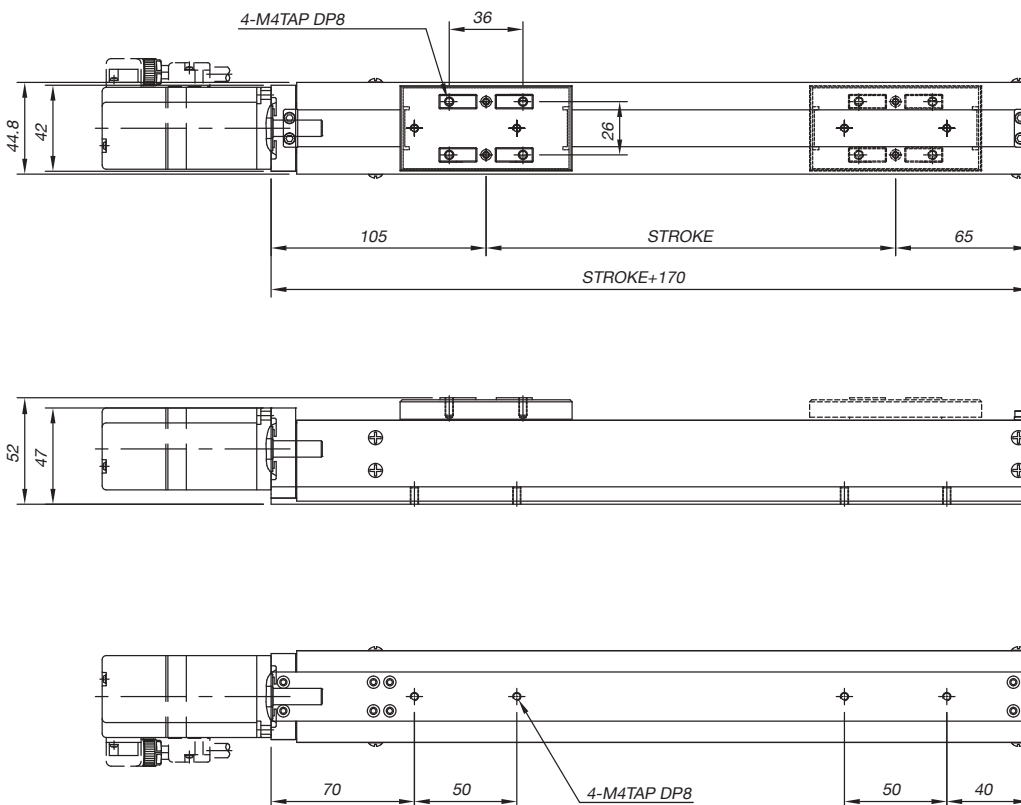
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-45-□-50-I-L05-□-□(X Axis)	50	5	10	5	250	50~400
DRMC-45-□-50-I-L10-□-□(Z Axis)	50	10	10	5	500	50~400

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke				
		50	100	200	300	400
DRMC-45-S-50-I-L10-□-□	Speed(mm/s)	500				
Mass(kg)	$\approx 0.005 * \text{Stroke} + 1.1$	1.3	1.6	2.1	2.6	3.1

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-45-P

Ballscrew type, Clean room specifications,
Base Width 45mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRMC	45	LP	50	I	10	ST50	S3
DRMC		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	50 : 50W 50B : 50W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm	50 : 50mm ~ 400 : 400mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 12$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.12 Wide 1Rail 1Block
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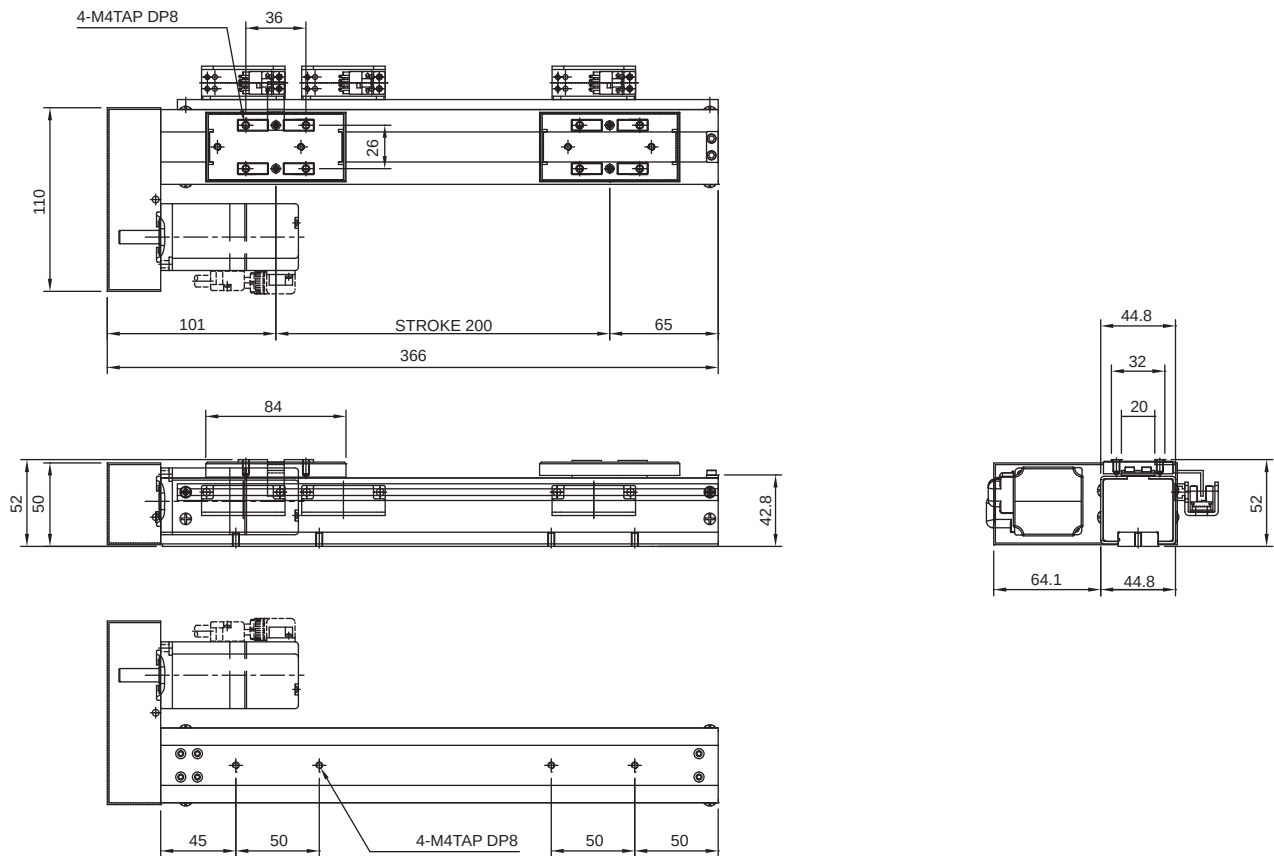
Actuator Specifications

Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-45-□-50-I-L05-□-□(X Axis)	50	5	10	5	250	50~400
DRMC-45-□-50-I-L10-□-□(Z Axis)	50	10	10	5	500	50~400

Stroke, Velocity & Robot Mass

Model	Speed(mm/s)	Stroke				
		50	100	200	300	400
DRMC-45-S-50-I-L10-□-□				500		
Mass(kg)	$\approx 0.005 * \text{Stroke} + 1.1$	1.3	1.6	2.1	2.6	3.1

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-65-S

Ballscrew type, Clean room specifications,
Base Width 65mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRMC	65	— S	— 100	— I	— L10	— ST50	— S3
DRMC		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	100 : 100W 100B : 100W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm	50 : 50mm 400 : 400mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\phi 12$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.15 Wide 1Rail 1Block
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Actuator Specifications

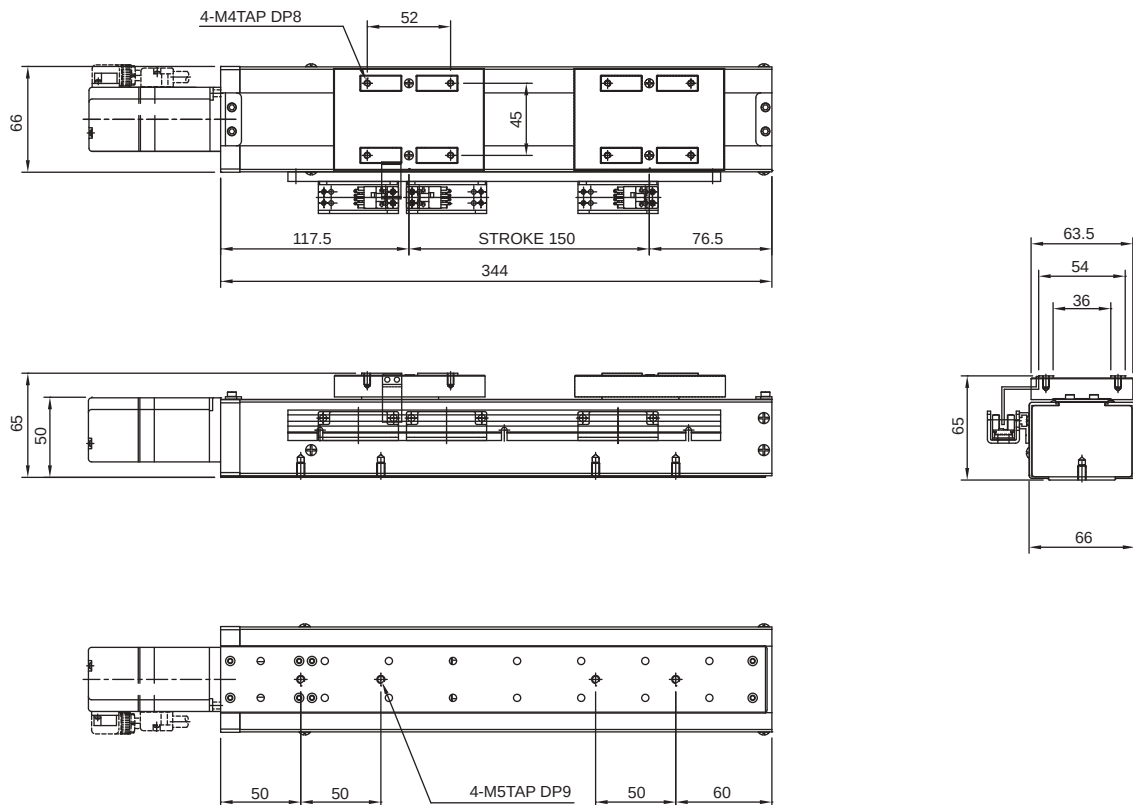
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-65-□-100-I-L05-□-□	100	5	22	15	250	50~400
DRMC-65-□-100-I-L10-□-□	100	10	15	7	500	50~400
DRMC-65-□-100-I-L20-□-□	100	20	5	-	500	50~400

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke				
		50	100	200	300	400
DRMC-65-S-50-I-L10-□-□	Speed(mm/s)	500				
Mass(kg)	$\approx 0.008 \times \text{Stroke} + 1.1$	1.5	1.9	2.7	3.5	4.2

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-65-P

Ballscrew type, Clean room specifications,
Base Width 65mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRMC	65	LP	100	I	L10	ST50	S3
DRMC		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	100 : 100W 100B : 100W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm	50 : 50mm 400 : 400mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 12$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.15 Wide 1Rail 1Block
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Actuator Specifications

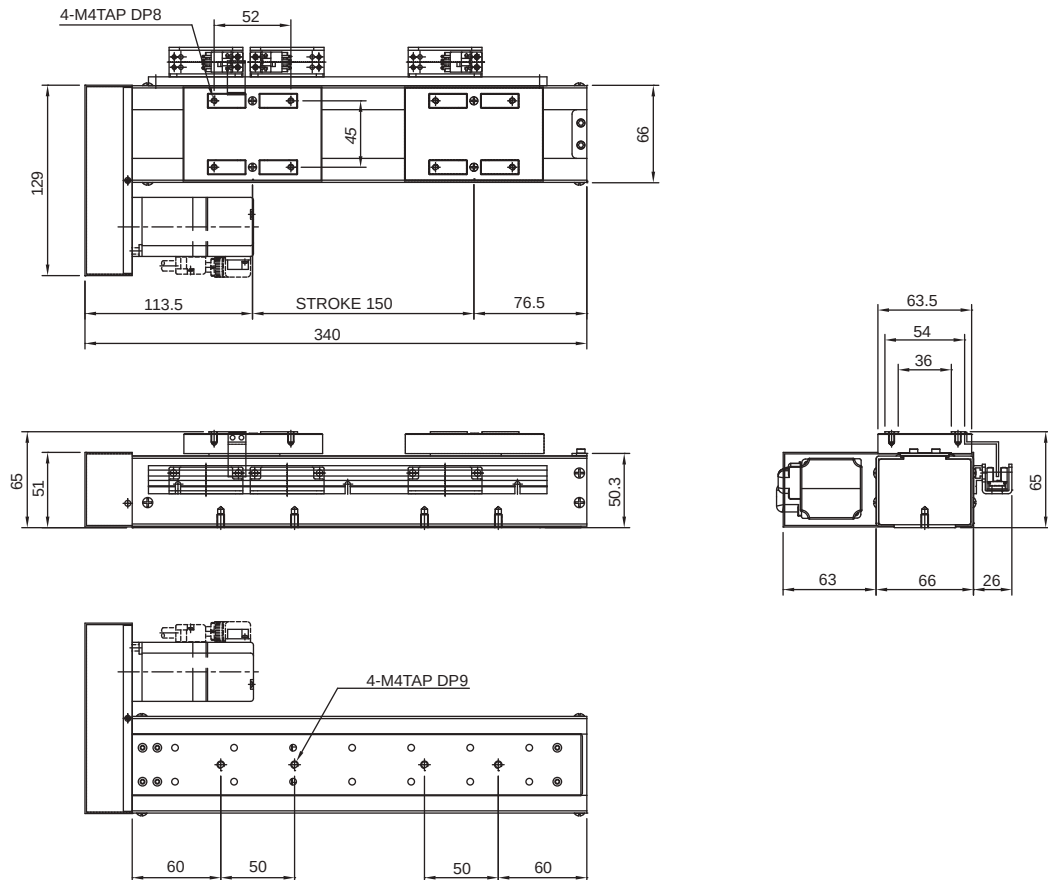
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-65-□-100-I-L05-□-□	100	5	22	15	250	50~400
DRMC-65-□-100-I-L10-□-□	100	10	15	7	500	50~400
DRMC-65-□-100-I-L20-□-□	100	20	5	-	500	50~400

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke				
		50	100	200	300	400
DRMC-65-S-50-I-L10-□-□	Speed(mm/s)	500				
Mass(kg)	$\approx 0.008 * \text{Stroke} + 1.1$	1.5	1.9	2.7	3.5	4.2

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-70-S

Ballscrew type, Clean room specifications,
Base Width 70mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRMC	70	— S	— 100	— I	— 10	— ST50	— S3
DRMC		S : Straight	100 : 100W	I : Incremental	05 : 05mm	50 : 50mm	S0 : No sensor
DRMCP		LP : Motor Left	100B : 100W(Brake)	A : Absolute	10 : 10mm	~	S1 : In the robot by magnetic sensor
		RP : Motor Right			20 : 20mm	750 : 750mm	S2 : In the robot by magnetic sensor. Org
		BP : Motor Bottom					S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 12$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.12 Wide 1Rail 2Block
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Actuator Specifications

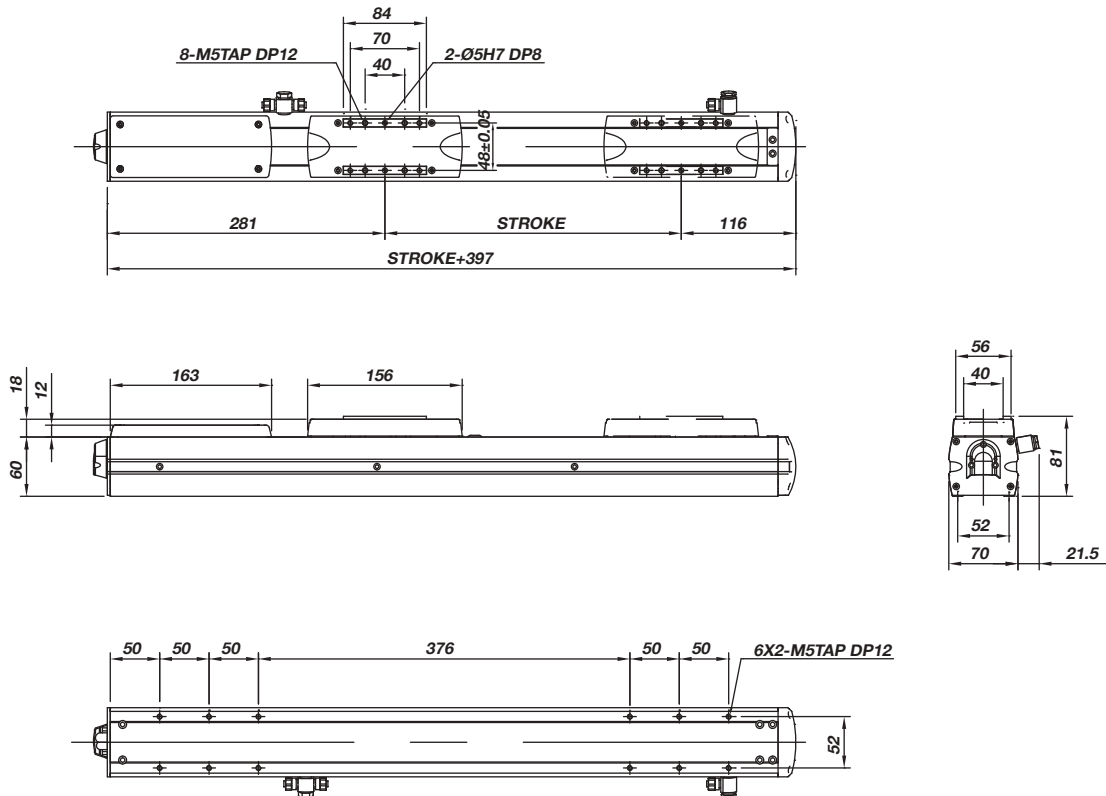
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-70-□-100-I-L05-□-□	100	5	22	15	500	50~750
DRMC-70-□-100-I-L10-□-□	100	10	15	7	500	50~750
DRMC-70-□-100-I-L20-□-□	100	20	5	-	500	50~750

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke							
		50	100	200	300	400	500	600	750
DRMC-70-S-100-I-L10-□-□	Speed(mm/s)	500						480	370
Mass(kg)	$\approx 0.005 * \text{Stroke} + 2.5$	2.7	3	3.5	4	4.6	5.1	5.6	6.1

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-70-P

Ballscrew type, Clean room specifications,
Base Width 70mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRMC	70	LP	100	I	10	ST50	S3
DRMC	S : Straight		100 : 100W	I : Incremental	05 : 05mm	50 : 50mm	S0 : No sensor
DRMCP	LP : Motor Left		100B : 100W(Brake)	A : Absolute	10 : 10mm	~	S1 : In the robot by magnetic sensor
	RP : Motor Right				20 : 20mm	750 : 750mm	S2 : In the robot by magnetic sensor. Org
	BP : Motor Bottom						S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 12$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.12 Wide 1Rail 2Block
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Actuator Specifications

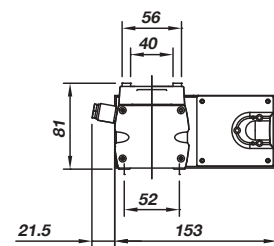
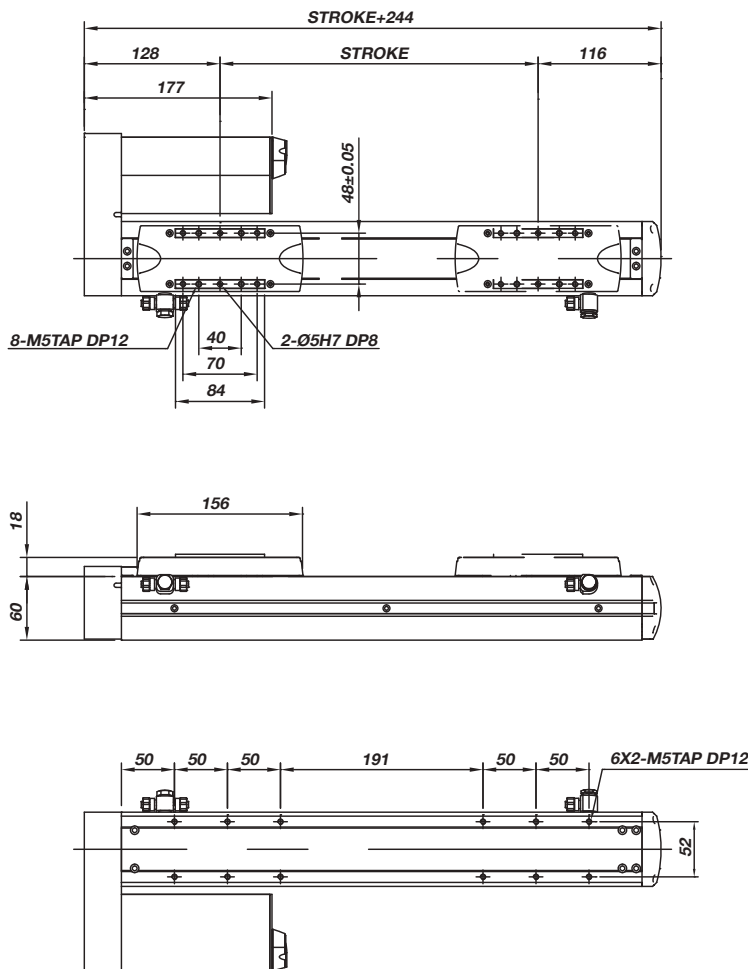
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-70-□-100-I-L05-□-□	100	5	22	15	500	50~750
DRMC-70-□-100-I-L10-□-□	100	10	15	7	500	50~750
DRMC-70-□-100-I-L20-□-□	100	20	5	-	500	50~750

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke								
		50	100	200	300	400	500	600	700	750
DRMC-70-P-100-I-L10-□-□	Speed(mm/s)	500						480	370	330
Mass(kg)	≐ 0.005 * Stroke + 2.5	2.7	3	3.5	4	4.6	5.1	5.6	6.1	6.4

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-88-S

Ballscrew type, Clean room specifications,
Base Width 88mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRMC	88	S	100	I	10	ST50	S3
DRMC		S : Straight	100 : 100W	I : Incremental	05 : 05mm	50:50mm	S0 : No sensor
DRMCP		LP : Motor Left	100B : 100W(Brake)	A : Absolute	10 : 10mm	~	S1 : In the robot by magnetic sensor
		RP : Motor Right			20 : 20mm	1500:1500mm	S2 : In the robot by magnetic sensor. Org
		BP : Motor Bottom					S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\phi 15$ C7 Grade	Position Repeatability	± 0.02 mm	LM Guide	No.15 Wide 1Rail 2Block
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Actuator Specifications

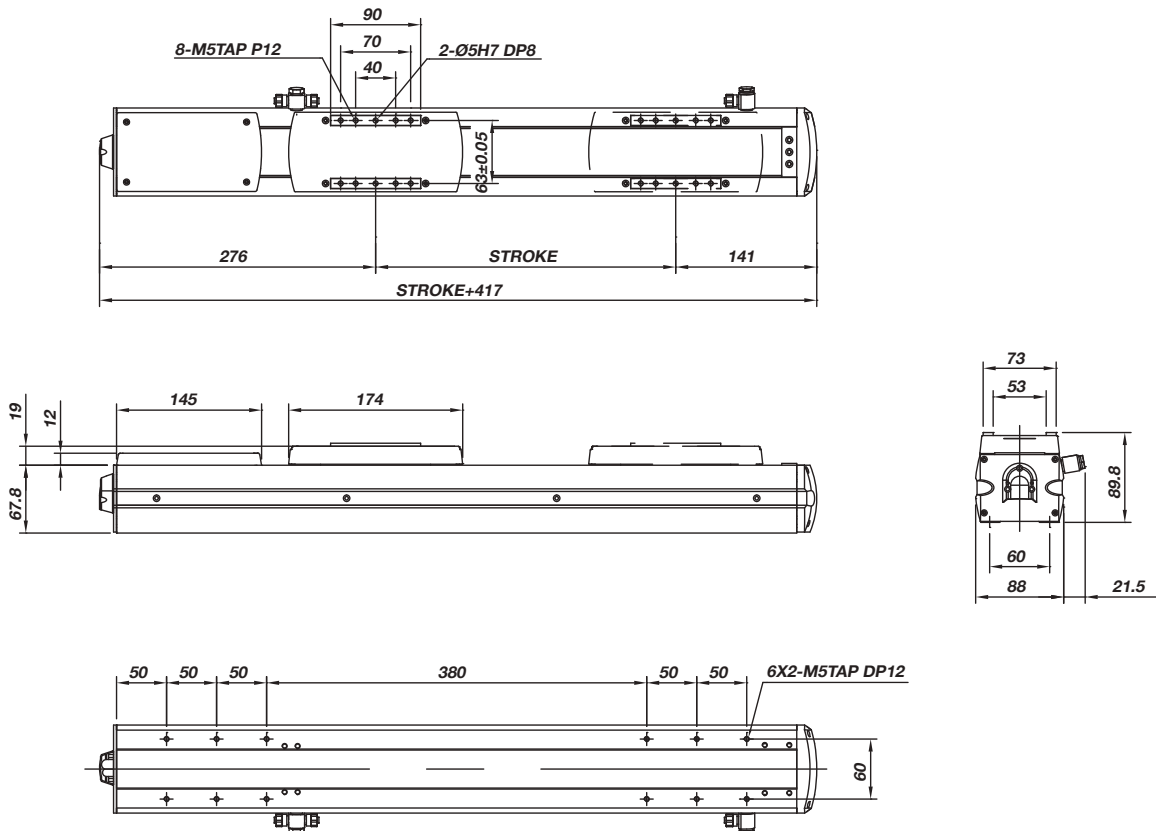
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-88-□-100-I-L05-□-□	100	5	22	15	250	50~1500
DRMC-88-□-100-I-L10-□-□		10	15	7	500	
DRMC-88-□-100-I-L20-□-□		20	7	-	1000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke															
		50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRMC-88-□-100-I-L05-□-□	Speed(mm/s)	250						210	170	140	120	100	80	70	60	60	
DRMC-88-□-100-I-L10-□-□	Speed(mm/s)	500						430	340	280	230	200	170	150	130	110	
DRMC-88-□-100-I-L20-□-□	Speed(mm/s)	1000						870	690	570	470	400	340	300	260	230	
Mass(kg)	≅ 0.0076 * Stroke + 4.1	4.5	4.9	5.6	6.4	7.1	7.9	8.7	9.4	10.2	10.9	11.7	12.5	13.2	14	14.7	15.5

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-88-P

Ballscrew type, Clean room specifications,
Base Width 88mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRMC	88	LP	100	I	10	ST50	S3
DRMC	S : Straight		100 : 100W	I : Incremental	05 : 05mm	50:50mm	S0 : No sensor
DRMCP	LP : Motor Left		100B : 100W(Brake)	A : Absolute	10 : 10mm	~	S1 : In the robot by magnetic sensor
	RP : Motor Right				20 : 20mm	1500:1500mm	S2 : In the robot by magnetic sensor. Org
	BP : Motor Bottom						S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 15$ C7 Grade	Position Repeatability	± 0.02 mm	LM Guide	No.15 Wide 1Rail 2Block
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Actuator Specifications

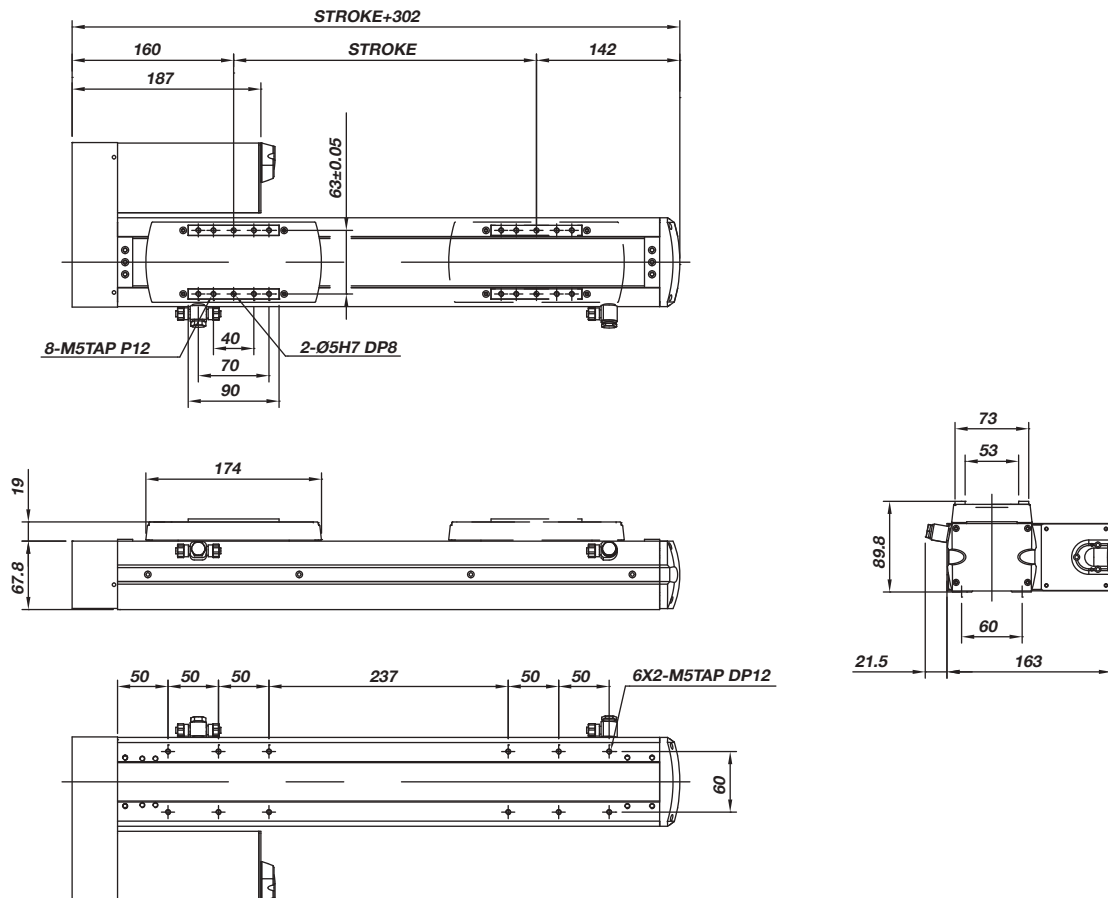
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-88-□-100-I-L05-□-□	100	5	22	15	250	50~1500
DRMC-88-□-100-I-L10-□-□		10	15	7	500	
DRMC-88-□-100-I-L20-□-□		20	7	-	1000	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke															
		50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRMC-88-□-100-I-L05-□-□	Speed(mm/s)	250							210	170	140	120	100	80	70	60	60
DRMC-88-□-100-I-L10-□-□	Speed(mm/s)	500							430	340	280	230	200	170	150	130	110
DRMC-88-□-100-I-L20-□-□	Speed(mm/s)	1000							870	690	570	470	400	340	300	260	230
Mass(kg)	≅ 0.0076 * Stroke + 4	4.4	4.8	5.5	6.3	7	7.8	8.6	9.3	10.1	10.8	11.6	12.4	13.1	13.9	14.6	15.4

Dimension



Applicable controllers

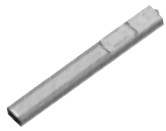
Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-120-S

Ballscrew type, Clean room specifications,
Base Width 120mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRMC	120	S	200	I	10	ST50	S3
DRMC		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	200 : 200W 200B : 200W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm 30 : 30mm	50 : 50mm ~ 1500 : 1500mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\phi 15$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.15 2Rail 4Block
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Actuator Specifications

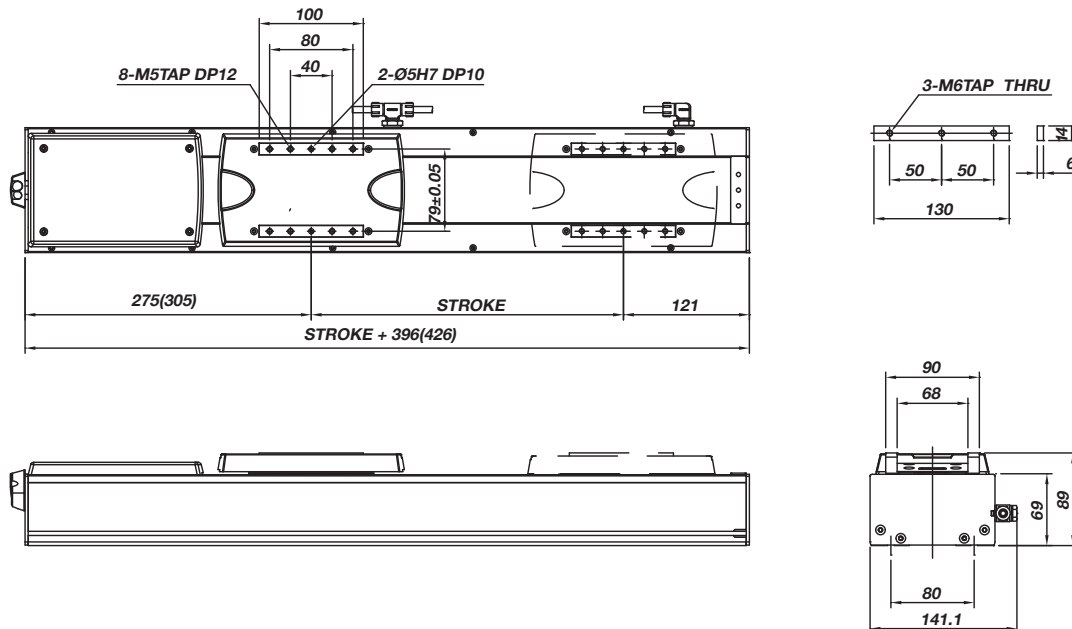
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-120-□-200-I-L05-□-□	200	5	80	25	250	50 ~ 1500
DRMC-120-□-200-I-L10-□-□		10	30	12	500	
DRMC-120-□-200-I-L20-□-□		20	15	6	1000	
DRMC-120-□-200-I-L30-□-□		30	5	-	1500	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke															
		50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRMC-120-□-200-I-L05-□-□	Speed(mm/s)	250						210	170	140	120	100	80	70	60	60	
DRMC-120-□-200-I-L10-□-□	Speed(mm/s)	500						430	340	280	230	200	170	150	130	110	
DRMC-120-□-200-I-L20-□-□	Speed(mm/s)	1000						870	690	570	470	400	340	300	260	230	
DRMC-120-□-200-I-L30-□-□	Speed(mm/s)	1500						1300	1040	850	710	600	510	450	390	340	
Mass(kg)	≅ 0.0076 * Stroke + 4.1	4.5	4.9	5.6	6.4	7.1	7.9	8.7	9.4	10.2	10.9	11.7	12.5	13.2	14	14.7	15.5

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-120-P

Ballscrew type, Clean room specifications,
Base Width 120mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRMC	120	LP	200	I	10	ST50	S3
DRMC		S : Straight	200 : 200W	I : Incremental	05 : 05mm	50 : 50mm	S0 : No sensor
DRMCP		LP : Motor Left	200B : 200W(Brake)	A : Absolute	10 : 10mm	~	S1 : In the robot by magnetic sensor
		RP : Motor Right			20 : 20mm	1500 : 1500mm	S2 : In the robot by magnetic sensor. Org
		BP : Motor Bottom			30 : 30mm		S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 15$ C7 Grade	Position Repeatability	± 0.02 mm	LM Guide	No.15 2Rail 4Block
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Actuator Specifications

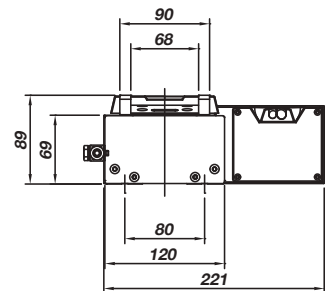
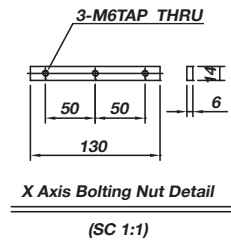
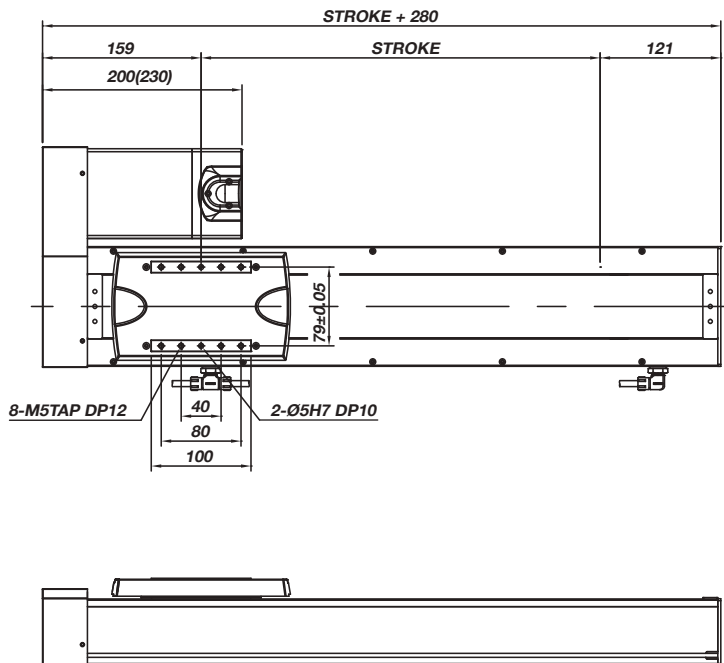
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-120-□-200-I-L05-□-□	200	5	80	25	250	50 ~ 1500
DRMC-120-□-200-I-L10-□-□		10	30	12	500	
DRMC-120-□-200-I-L20-□-□		20	15	6	1000	
DRMC-120-□-200-I-L30-□-□		30	5	-	1500	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke															
		50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRMC-120-□-200-I-L05-□-□	Speed(mm/s)	250						210	170	140	120	100	80	70	60	60	
DRMC-120-□-200-I-L10-□-□	Speed(mm/s)	500						430	340	280	230	200	170	150	130	110	
DRMC-120-□-200-I-L20-□-□	Speed(mm/s)	1000						870	690	570	470	400	340	300	260	230	
DRMC-120-□-200-I-L30-□-□	Speed(mm/s)	1500						1300	1040	850	710	600	510	450	390	340	
Mass(kg)	≐ 0.0076 * Stroke + 4	4.4	4.8	5.5	6.3	7	7.8	8.6	9.3	10.1	10.8	11.6	12.4	13.1	13.9	14.6	15.4

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-140-S

Ballscrew type, Clean room specifications,
Base Width 140mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRMC	140	S	200	I	10	ST50	S3
DRMC		S : Straight	200 : 200W	I : Incremental	05 : 05mm	50:50mm	S0 : No sensor
DRMCP		LP : Motor Left	200B : 200W(Brake)	A : Absolute	10 : 10mm	~	S1 : In the robot by magnetic sensor
		RP : Motor Right			20 : 20mm	1100:1100mm	S2 : In the robot by magnetic sensor. Org
		BP : Motor Bottom			30 : 30mm		S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\phi 15$ C7 Grade	Position Repeatability	± 0.02 mm	LM Guide	No.15 2Rail 4Block
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Actuator Specifications

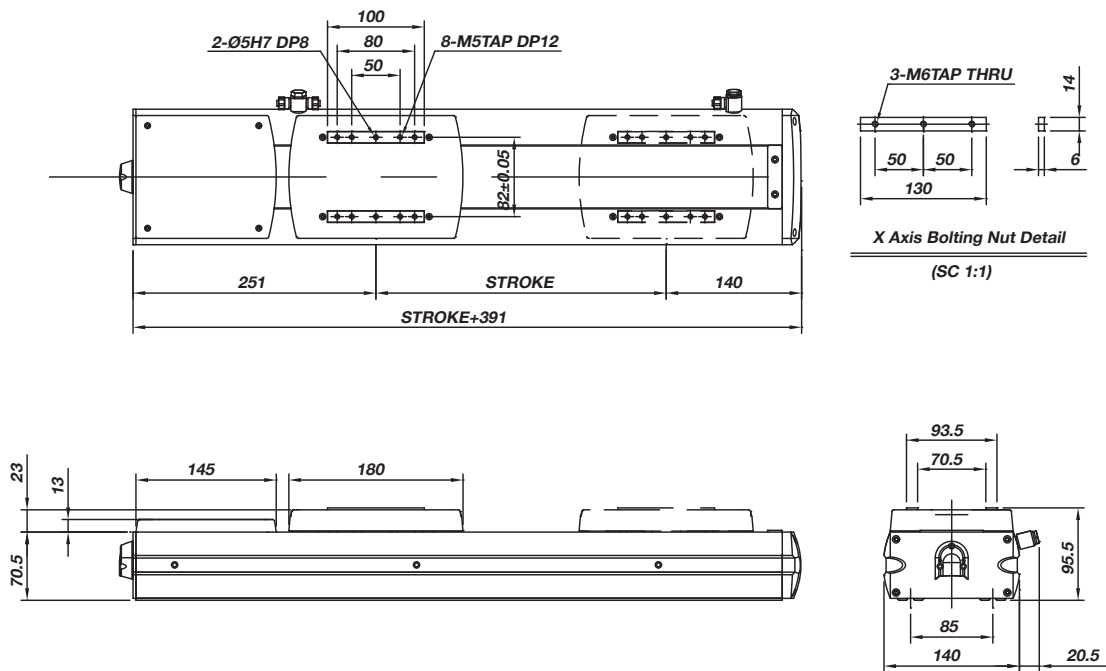
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-140-□-200-I-L05-□-□	200	5	80	25	250	50 ~ 1500
DRMC-140-□-200-I-L10-□-□		10	30	12	500	
DRMC-140-□-200-I-L20-□-□		20	15	6	1000	
DRMC-140-□-200-I-L30-□-□		30	5	-	1500	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke															
		50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRMC-140-□-200-I-L05-□-□	Speed(mm/s)	250						230	180	150	120	100	90	80	70	60	50
DRMC-140-□-200-I-L10-□-□	Speed(mm/s)	500						460	370	300	250	210	180	150	130	120	100
DRMC-140-□-200-I-L20-□-□	Speed(mm/s)	1000						940	750	610	500	420	360	310	270	240	210
DRMC-140-□-200-I-L30-□-□	Speed(mm/s)	1500						1410	1120	910	760	640	540	470	410	360	320
Mass(kg)	≐ 0.0076 * Stroke + 5.3	5.7	6	6.8	7.6	8.3	9.1	9.8	10.6	11.4	12.1	12.9	13.6	14.4	15.1	15.9	16.7

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-140-P

Ballscrew type, Clean room specifications,
Base Width 140mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRMC	140	LP	200	I	10	ST50	S3
DRMC		S : Straight	200 : 200W	I : Incremental	05 : 05mm	50:50mm	S0 : No sensor
DRMCP		LP : Motor Left	200B : 200W(Brake)	A : Absolute	10 : 10mm	~	S1 : In the robot by magnetic sensor
		RP : Motor Right			20 : 20mm	1100:1100mm	S2 : In the robot by magnetic sensor. Org
		BP : Motor Bottom			30 : 30mm		S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 15$ C7 Grade	Position Repeatability	± 0.02 mm	LM Guide	No.15 2Rail 4Block
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Actuator Specifications

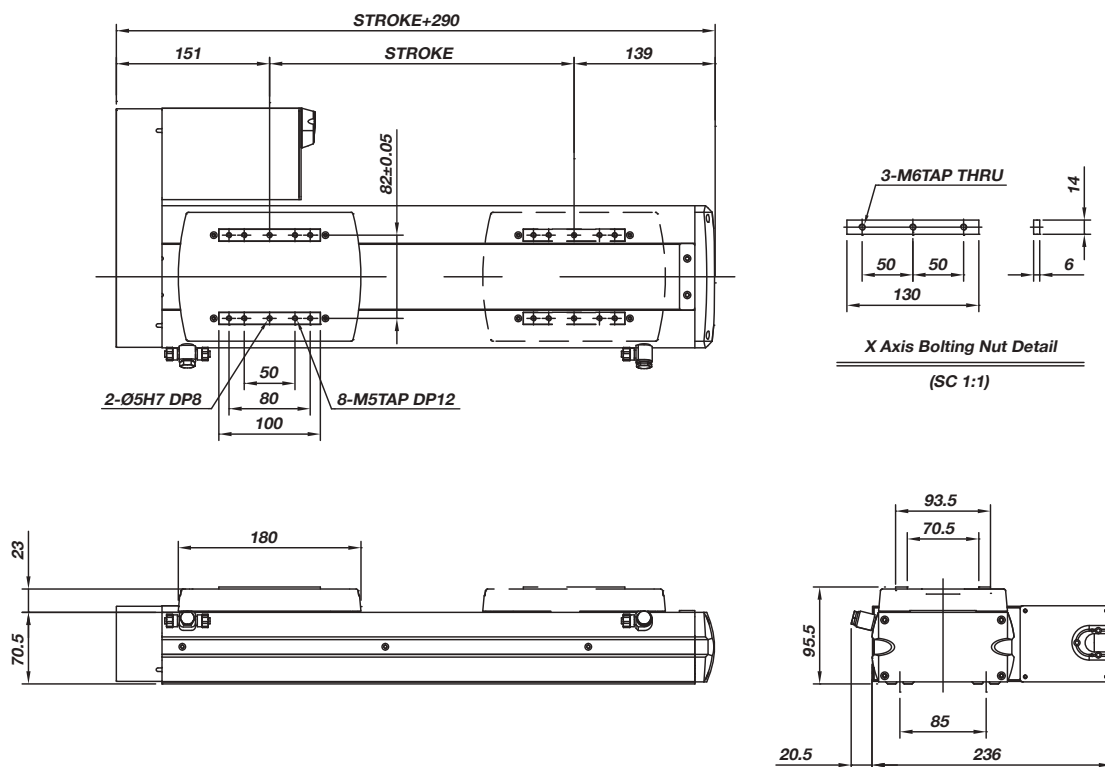
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-140-□-200-I-L05-□-□	200	5	80	25	250	50 ~ 1500
DRMC-140-□-200-I-L10-□-□		10	30	12	500	
DRMC-140-□-200-I-L20-□-□		20	15	6	1000	
DRMC-140-□-200-I-L30-□-□		30	5	-	1500	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke															
		50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRMC-140-□-200-I-L05-□-□	Speed(mm/s)	250					230	180	150	120	100	90	80	70	60	50	
DRMC-140-□-200-I-L10-□-□	Speed(mm/s)	500					460	370	300	250	210	180	150	130	120	100	
DRMC-140-□-200-I-L20-□-□	Speed(mm/s)	1000					940	750	610	500	420	360	310	270	240	210	
DRMC-140-□-200-I-L30-□-□	Speed(mm/s)	1500					1410	1120	910	760	640	540	470	410	360	320	
Mass(kg)	≈ 0.0076 * Stroke + 5.2	5.6	5.9	6.7	7.5	8.2	9	9.7	10.5	11.3	12	12.8	13.5	14.3	15.1	15.8	16.6

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-180-S

Ballscrew type, Clean room specifications,
Base Width 180mm



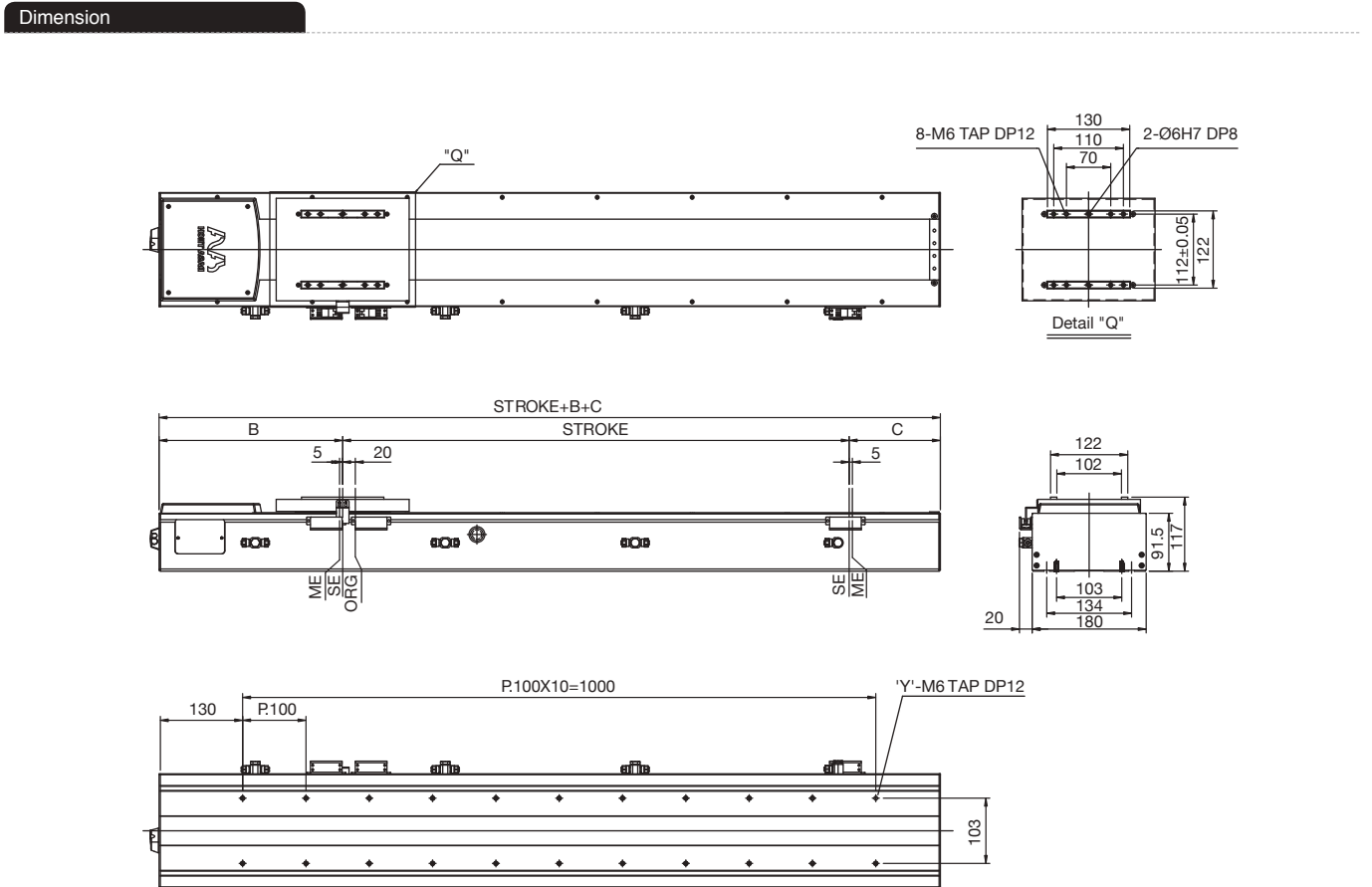
Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRMC	180	S	400	I	10	ST50	S3
DRMC		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	400 : 400W 400B : 400W(Brake)	I : Incremental A : Absolute	05 : 05mm 10 : 10mm 20 : 20mm 30 : 30mm	50 : 50mm ~ 1500 : 1500mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications							
Driving Type	Ball Screw $\phi 15$, $\phi 20$, $\phi 25$ C7 Grade			Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.20 2Rail 4Block

Actuator Specifications ($\phi 20$)						
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-180-□-400-I-L05-□-□	400	5	160	80	250	50~700
DRMC-180-□-400-I-L10-□-□		10	90	40	500	50~1500
DRMC-180-□-400-I-L20-□-□		20	50	20	1000	
DRMC-180-□-400-I-L30-□-□		30	20	10	1500	

Stroke, Velocity & Robot Mass																	* 파나소닉 모터 기준 산정 무게
Model		Stroke															
		50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRMC-180-□-400-I-L05-□-□	Speed(mm/s)	200							220	180	140	120	100	90	70	70	60
DRMC-180-□-400-I-L10-□-□	Speed(mm/s)	500							440	350	290	240	200	170	150	130	120
DRMC-180-□-400-I-L20-□-□	Speed(mm/s)	1000							900	720	590	490	410	350	300	270	230
DRMC-180-□-400-I-L30-□-□	Speed(mm/s)	1500							1360	1080	880	730	620	530	460	400	350
Mass(kg)	≒ 0.0103 * Stroke + 5.2	12.5	13.9	15.5	17.1	18.7	20.3	21.9	23.5	25.1	26.7	28.3	29.9	31.5	33.1	34.7	36.3

* 파나소닉 모터 기준 산정 무게



Applicable controllers			Page
Controller	Max. controlled axes		
iM-U	8 axes		206
iMS-Jp	1 axis		200

Note

(1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.

(2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-180-P

Ballscrew type, Clean room specifications,
Base Width 180mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRMC	180	LP	400	I	10	ST50	S3
DRMC	S : Straight		400 : 400W	I : Incremental	05 : 05mm	50 : 50mm	S0 : No sensor
DRMCP	LP : Motor Left		400B : 400W(Brake)	A : Absolute	10 : 10mm	~	S1 : In the robot by magnetic sensor
	RP : Motor Right				20 : 20mm	1500 : 1500mm	S2 : In the robot by magnetic sensor. Org
	BP : Motor Bottom				30 : 30mm		S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\Phi 15$, $\Phi 20$, $\Phi 25$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.20 2Rail 4Block
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Actuator Specifications ($\Phi 20$)

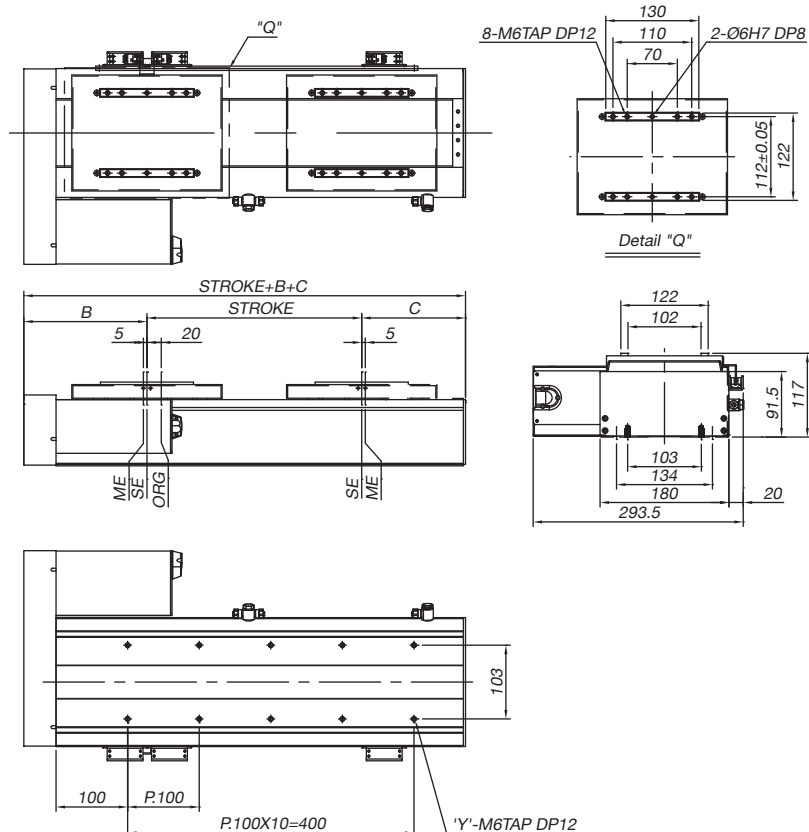
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-180-□-400-I-L05-□-□	400	5	160	80	250	50~700
DRMC-180-□-400-I-L10-□-□		10	90	40	500	50~1500
DRMC-180-□-400-I-L20-□-□		20	50	20	1000	
DRMC-180-□-400-I-L30-□-□		30	20	10	1500	

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke															
		50	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
DRMC-180-□-400-I-L05-□-□	Speed(mm/s)	200						200	160	130	110	90	80	70	60	50	
DRMC-180-□-400-I-L10-□-□	Speed(mm/s)	500						390	320	260	220	190	160	140	120	110	
DRMC-180-□-400-I-L20-□-□	Speed(mm/s)	1000						800	650	530	450	380	330	280	250	220	
DRMC-180-□-400-I-L30-□-□	Speed(mm/s)	1500						1200	970	800	670	570	490	430	370	330	
Mass(kg)	≐ 0.0103 * Stroke + 5.2	12.5	13.9	15.5	17.1	18.7	20.3	21.9	23.5	25.1	26.7	28.3	29.9	31.5	33.1	34.7	36.3

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-265-S

Ballscrew type, Clean room specifications,
Base Width 265mm



Series	Type 1	Type 2	Motor Power	Encoder	Lead	Stroke	Option
DRMC	265	S	2000	I	10	ST100	S3
DRMC		S : Straight LP : Motor Left RP : Motor Right BP : Motor Bottom	2000 : 2000W 2000B : 2000W(Brake)	I : Incremental A : Absolute	10 : 10mm 20 : 20mm 40 : 40mm	100:100mm ~ 2500:2500mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Ball Screw $\phi 40$ C7 Grade	Position Repeatability	$\pm 0.02\text{mm}$	LM Guide	No.35 2Rail 4Block
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Actuator Specifications

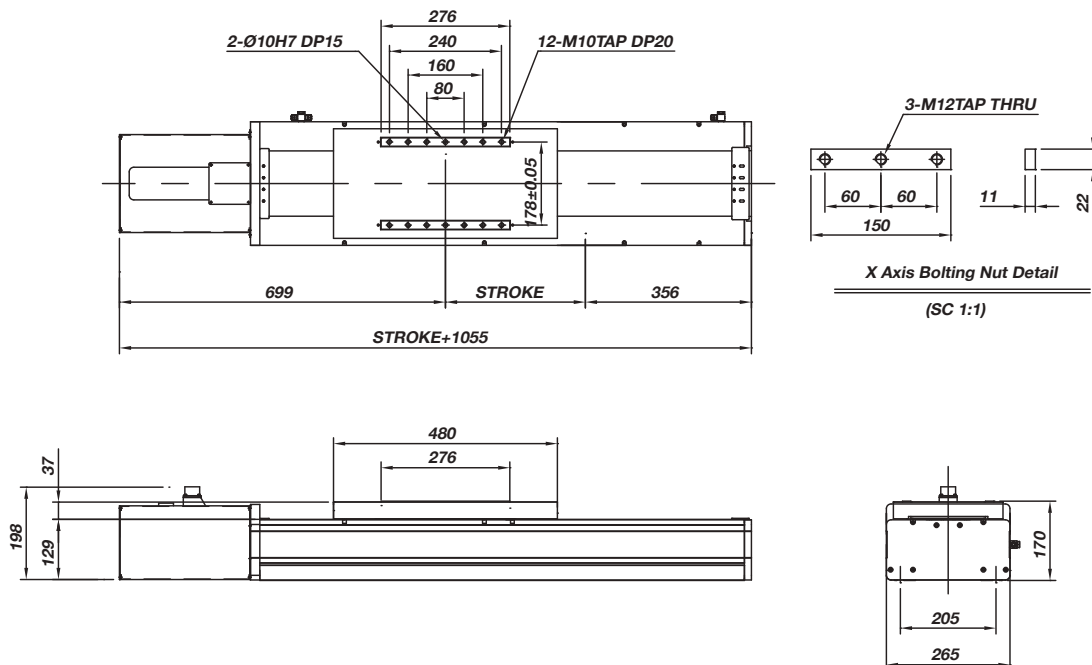
Model	Motor (W)	Lead (mm)	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-265-□-2000-L10-□-□	2000	10	500	200	330	100
DRMC-265-□-2000-L20-□-□		20	250	100	660	~
DRMC-265-□-2000-L40-□-□		40	100	50	1320	2500

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke																								
		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
DRMC-265-□-2000-L10-□-□	Speed(mm/s)	330														312	279	252	228	207	189	173	159	147	136	126
DRMC-265-□-2000-L20-□-□	Speed(mm/s)	660														625	559	503	455	414	378	346	319	294	272	253
DRMC-265-□-2000-L40-□-□	Speed(mm/s)	1320														1249	1118	1006	910	828	756	693	637	588	545	506
Mass(kg)	≅ 0.0103 * Stroke + 6.4	78	82.3	86.6	90.9	95.2	99.5	103.8	108.1	112.4	116.7	121	125	130	134	138	143	147	151	155	160	164	168	173	177	181

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-120-B

Belt type, Clean room specifications,
Base Width 120mm



Series	Type 1	Type 2	Motor Power	Encoder	Speed	Stroke	Option
DRMC	120	B	800	I	1000	ST1000	S3
DRMC DRMCP	B : Belt		800 : 800W 800B : 800W(Brake)	I : Incremental A : Absolute	1000 : 1000mm/s	1000 : 1000mm ~ 3000 : 3000mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Belt	Position Repeatability	±0.1mm	LM Guide	No.25 1Rail 4Block
--------------	------	------------------------	--------	----------	--------------------

Actuator Specifications

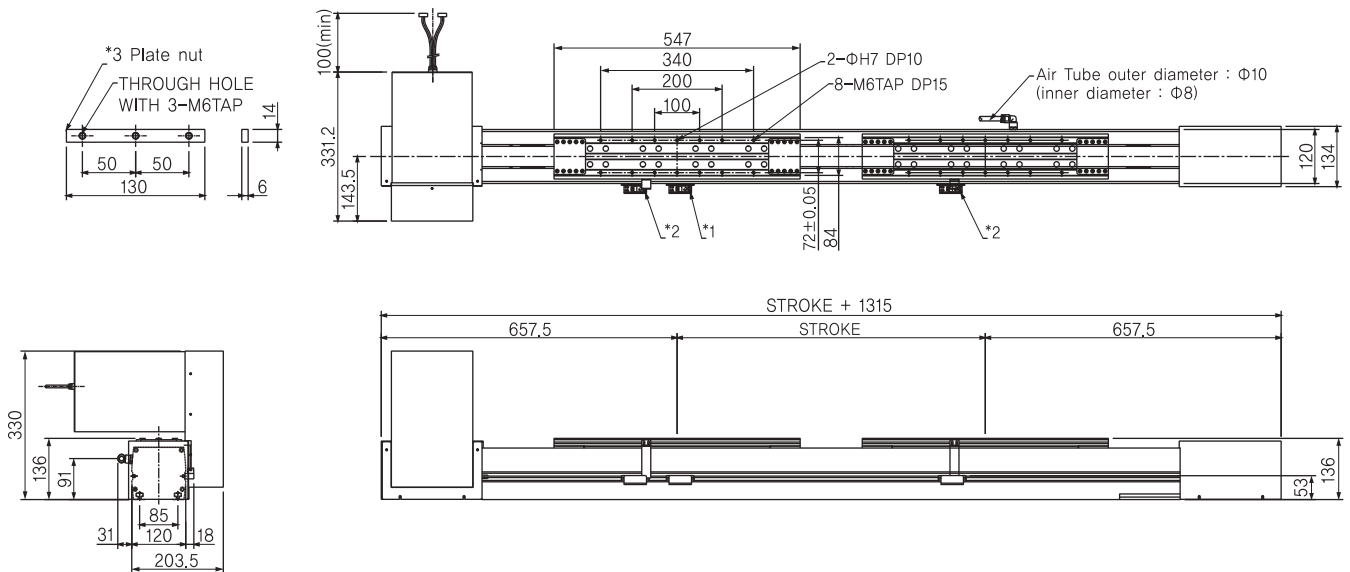
Model	Motor (W)	Encoder	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-120-800-I-□-□-□	800	I	40	-	1000	1000~3000

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model			Stroke																				
			1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000
DRMC-120-□-800-L10-□-□		Speed(mm/s)	1000																				
Mass(kg)	≒ 0.0103 * Stroke + 6.4		36.1	37	37.9	38.8	39.7	40.6	41.5	42.4	43.3	44.2	45.1	46	46.9	47.8	48.7	49.6	50.5	51.4	52.2	53.1	53.8

Dimension



Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cabel length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

DRMC-140-B

Belt type, Clean room specifications,
Base Width 140mm



Series	Type 1	Type 2	Motor Power	Encoder	Speed	Stroke	Option
DRMC	140	B	400	I	1200	ST1000	S3
DRMC		B : Belt	400 : 400W 400B : 400W(Brake)	I : Incremental A : Absolute	1200 : 1200mm/s	1000:1000mm ~ 2000:2000mm	S0 : No sensor S1 : In the robot by magnetic sensor S2 : In the robot by magnetic sensor. Org S3 : External photo sensor 3

Actuator Specifications

Driving Type	Belt	Position Repeatability	±0.1mm	LM Guide	No.15 2Rail 4Block
--------------	------	------------------------	--------	----------	--------------------

Actuator Specifications

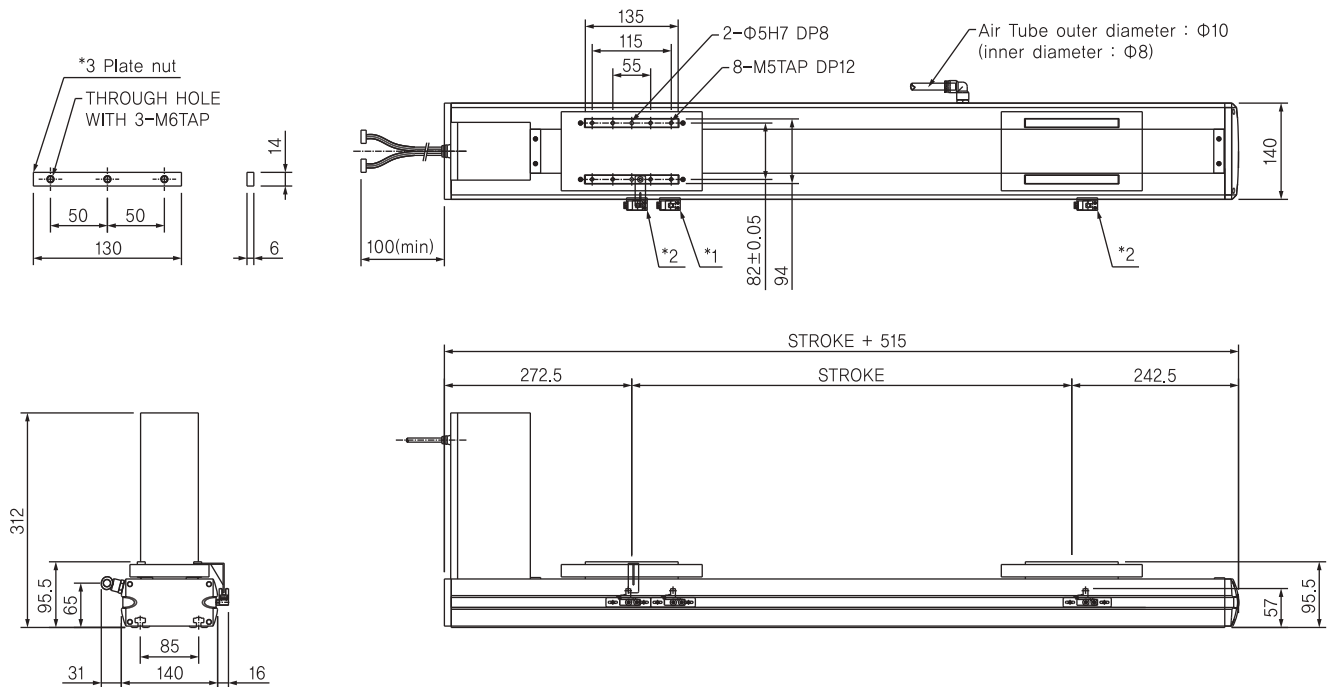
Model	Motor (W)	Encoder	Payload(kg)		Max.Speed (mm/s)	Stroke (mm)
			Hor'	Ver'		
DRMC-140-B-800-I-□-□-□	400	I	35	-	1200	1000 ~ 2000

Stroke, Velocity & Robot Mass

* 파나소닉 모터 기준 산정 무게

Model		Stroke										
		1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
DRMC-140-□-800-L10-□-□ Speed(mm/s)		1200										
Mass(kg)	≐ 0.0103 * Stroke + 6.4	34.5	35.5	36.5	37.5	38.5	39.5	40.5	41.5	42.5	43.5	44.5

Dimension



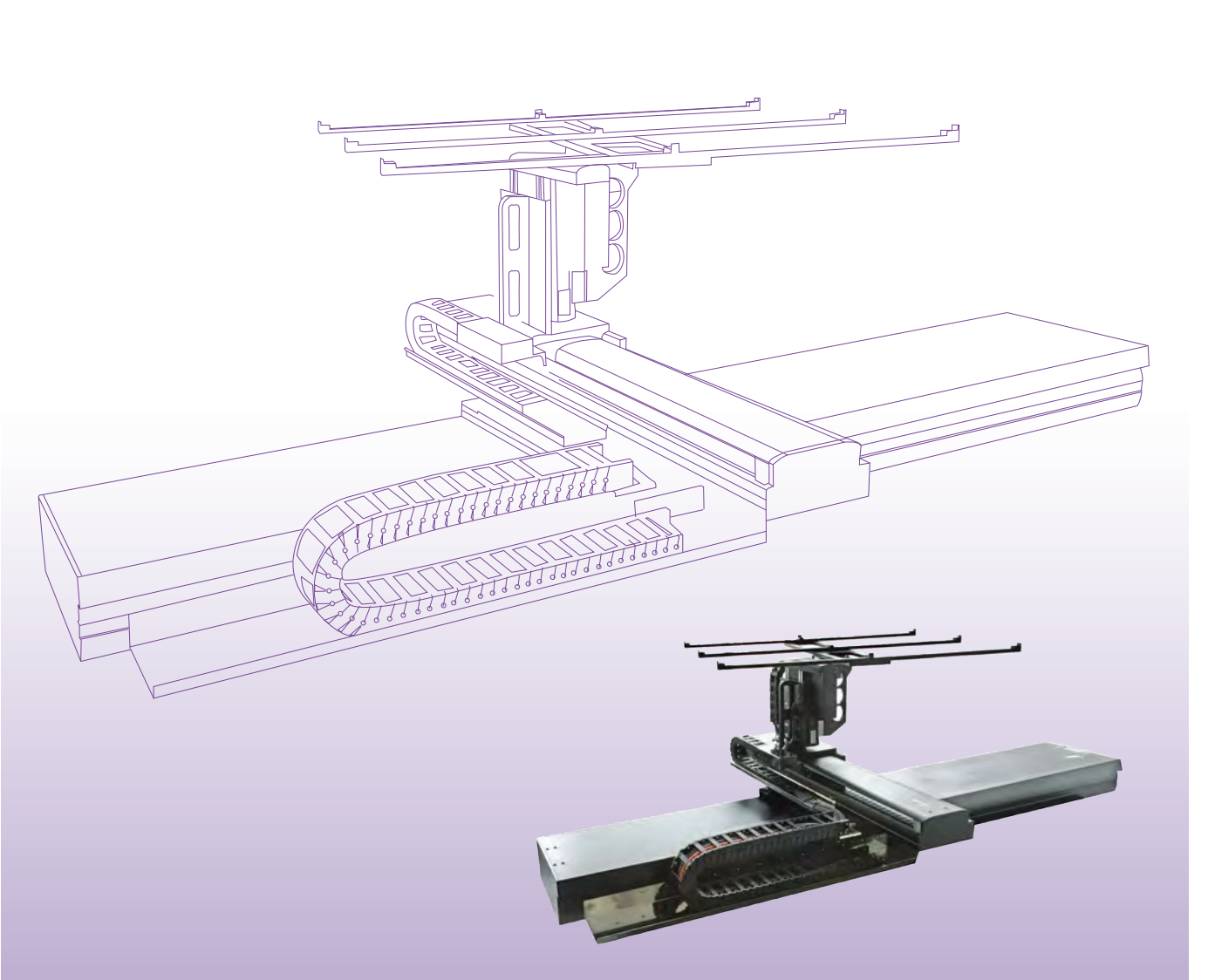
Applicable controllers

Controller	Max. controlled axes	Page
iM-U	8 axes	206
iMS-Jp	1 axis	200

Note

- (1) Required cable length is option. Maximum length is 30m. 케이블 길이는 옵션입니다. 최대 30m까지 가능합니다.
The performance of longer length than 15m is effected by the installation environment. 15m 이상 설치시 환경에 영향을 받을 수 있습니다.
- (2) This is the mass of the model without brake. 상기 표준은 브레이크가 없는 모터가 포함된 무게입니다.
the model equipped with a brake motor is 0.5kg heavier than this value. 브레이크는 표준무게보다 0.5kg이 추가됩니다.

Linear Motor robot / DLM series



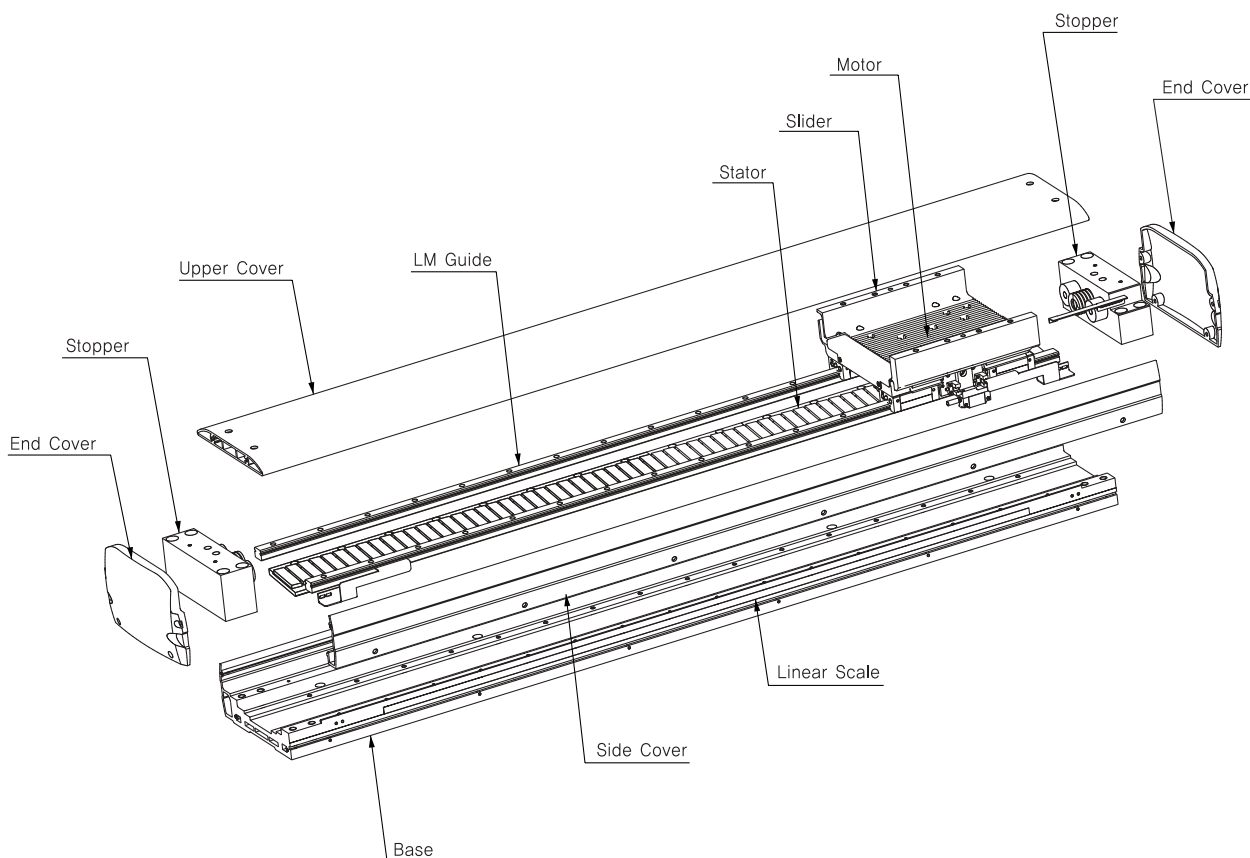
Contents

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Feature

DLM series provide the solution of the demand for the higher speed and precision, enhanced quality, and higher performance. Linear servo motor cartesian robot DLM series are iron-core type and multi movers on the single axis are much more space saving and lower cost

Structure



Higher performance assured

1) High acceleration*

The maximum acceleration of 2G contributes to save the cycle time.

* The acceleration level varies depending on the model, carrying weight and operation conditions.

2) High accuracy

The positioning accuracy is $\pm 10\mu\text{m}$ per 300mm

3) High speed*

The maximum speed is as high as 2m/s. The maximum speed is maintained even when moving over a long stroke.

* The maximum speed varies depending on operation conditions.

4) Longer stroke

DLM series are available in overall lengths up to 5000mm.

5) Multi movers

2 more multi movers are available in one single actuator and each mover can be operated by independently

Ordering Model

① Series ② Base width ③ Type ④ Resolution ⑤ Peak force ⑥ Encoder ⑦ Stroke ⑧ Option
DLM 190 - P - R1 - F15 - I - ST2000 - M1

① Series

Name of the series : DLM is Linear servo motor cartesian robot

DLM : Linear servo motor, Standard specifications

DLMD : Linear servo motor, Dust proof specifications

② Base width

The base width of each model

(Ex : 190 = 190mm)

③ Type

P : Iron-Core type

④ Resolution

The smallest distance, which the position measuring system detect

01~09 : 0.1um~0.9um

R1~R9 : 1.0um~9.0um

10 : 10.0um

⑤ Peak Force

Maximum force of motors

(Ex : F15 = 150N, F120 = 1200N)

⑥ Encoder

A : Absolute Encoder

The current slider position will be retained even after the power is turned off, so origin return is not required when the power is turned on.

I : Incremental Encoder

The slider position data will be cleared once the power is turned off, so origin return is required whenever the power is turned on.

⑦ Stroke

Stroke

(Ex : ST2000 = 2000mm)

⑧ Option

Mx : Numbers of mover

(Ex : M1=one(1) mover, M2=Two(2) movers)

Sx : Numbers of sensor

(Ex : L1=one(1) sensor, L2=Two(2) sensor)

K : K1 seal grease for LM guide

R : Raydent

Model List

Series	Base width	-	Type	-	Resolution (um)	Continuous force (N)	Peak force (N)	-	Speed (mm/s)	-	Stroke (mm)	-	Encoder	-	Accleration (G)	-	Payload (kg)	-	Option
DLM DLMD	120	-	P	-	0.1~1.0	60	150	-	2000	-	5000	-	I A	-	2 (max)	-	3.5	-	Mx K R
						120	300										13		
	135					240	600										31		
						360	900										51		
	155					480	1200										70		
						60	150										2.5		
	190					120	300										11.5		
						240	600										29		
						360	900										49		
						480	1200										67		
						240	600										29		
						360	900										49		
	210					480	1200										65		
						240	600										27		
	260					360	900										47		
						480	1200										64		
						720	1800										105		
						960	2400										147		
						480	1200										66		
						720	1800										105		
	280					960	2400										147		
						480	1200										64		
	290					720	1800										102		
						960	2400										144		

DLM series Note

Linear servo motor actuator

(Note 1) Resolution

"Resolution" represents the smallest distance which the position measuring system will detect.
"분해능"은 위치 측정 시스템에서 검출되는 최소 거리를 나타냅니다.

(Note 2) Continuous force

It is the force that the linear servo motors can produce in continuous operation
정격 추력은 Linear servo motor가 연속 운전에서 생산할 수 있는 힘을 말합니다.

(Note 3) Peak force

"Peak force" is the maximum force that a motor can generate for approximately one second with peak current.
"최대 추력"은 모터가 최대 전류에서 약 1초 동안 생성할 수 있는 최대 힘을 말합니다.

(Note 4) Speed

Speed and resolution has relationship. To perform higher resolution, speed will be slower than maximum speed
속도와 분해능은 상호 관계가 있습니다. 고 분해능을 수행하기 위해서는 요구되는 속도는 최대 속도보다 느려질 것입니다.

(Note 5) Stroke

If you have a desired longer stroke than standard length of stroke, please contact the engineers of DONGBU ROBOT
표준 stroke 이상 길이의 stroke가 요구된다면 당사 담당자와 협의해 주시기 바랍니다.

(Note 6) Number of movers

A single axis of DLM series is able to set multiple numbers of movers and the possible mover numbers are subject to decided by stroke, peak force, and speed etc. (M2 = 2 movers)
단축 DLM 시리즈는 복수의 운반기(mover)를 설치할 수 있으며, 가능한 설치 수량은 속도, 최대 추력, 그리고 stroke에 따라 결정됩니다.

(Note 7) Positioning repeatability

This repeatability is not the "absolute positioning accuracy".
It refers to the positioning accuracy of repeated movements to a pre-stored position.
반복정밀도는 '절대 위치 정밀도'가 아닙니다. 반복정밀도는 기 저장된 위치에 대한 반복된 이동의 위치 정밀도를 말합니다.

(Note 8) Cable length

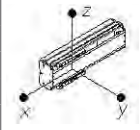
5m length is standard. Desired cable length is optional. Maximum length is 30m.
The performance of longer length than 15m is affected by the installation environment.
케이블은 5m 길이가 표준이며 최대 30m까지 가능합니다.
케이블 길이가 15m 이상일 경우 설치 환경에 따라 케이블 성능에 영향을 미칠 수 있습니다.

(Note 9) Weight

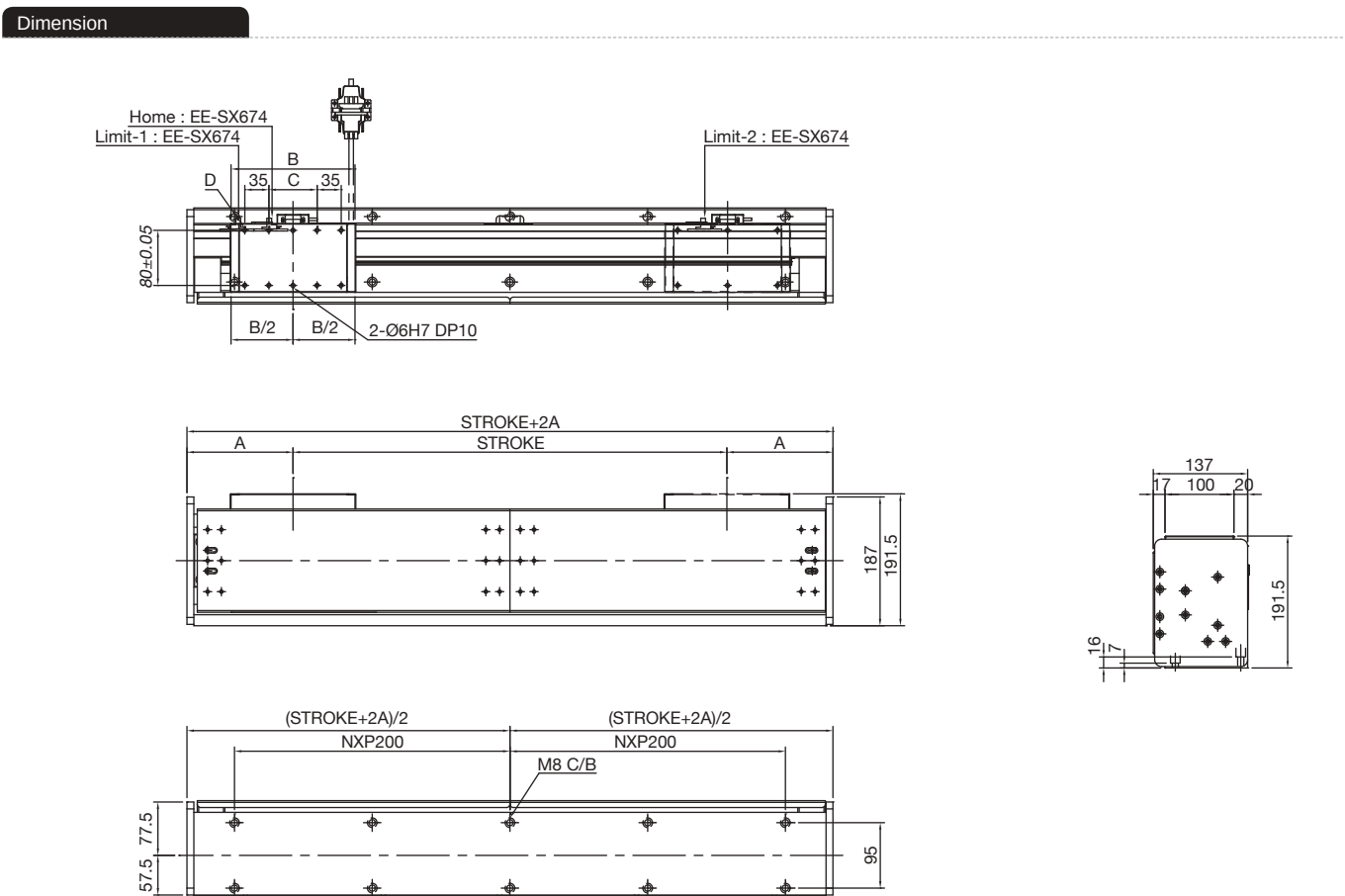
Different peak force in the same model has each different weight. The weight can be calculated as specific calculation formula. The calculated weight is not "absolute weight" but "approximate weight"
동일 모델에서 최대 추력이 다를 경우 무게도 달라집니다. 무게는 특별 계산 공식에 의해 계산됩니다.
계산된 무게는 "절대 무게" 값이 아닌 "대략 무게" 값입니다.

DLM120		Linear servo motor, Standard specifications, Base width 155mm Resolution 0.1~10μm, Maximum peak force 1200N, 1~2000mm/s						
Type : Iron core		Stroke : 100~5000mm			Payload : 70kg (1G)			
Series	Base width	Type	Resolution	Peak Force	Encoder	Stroke		Option
DLM	120	- P	- 10	- F120	- I	- 5000		- M1

Basic specifications								
Model	Type	Resolution(μm) (Note1)	Continus force(N) (Note2)	Peak force(N) (Note3)	Encoder	Speed(mm/s) (Note4)	Stroke(mm) (Note5)	Payload(maximum) (kg)
DLM120	P	0.1~10	60	150	I A	2000	5000	3.5
			120	300				13
			240	600				31
			360	900				51
			480	1200				70

Options		Allowable for over hang weight(acceleration = 1G)					
Code	Description	Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)	
Mx(Note6)	Number of movers	3.5Kg	2R 4B	5950	1785	5950	
B	Brake	13Kg	2R 4B	2561	529	2561	
K	K1 seal	31Kg	2R 6B	1106	249	1106	
R	Raydent	51Kg	2R 6B	432	88	432	
		70Kg	2R 8B	571	97	571	

Common specifications			
Position Accuracy	±6μm per 25mm/±10μm per 300mm	Position Repeatability(Note7)	±3μm(with resolution of 1μm or better)
Straightness	±10μm per 300mm	Cable length(Note8)	5m(standard), 7m, 10m(option)



Dimensions Table				
Peak force	A	B	C	Weight(Note9)
F15	185	180	40	5.8 + 0.018*(Stroke + 370)
F30	185	180	40	6.85 + 0.018*(Stroke + 370)
F60	220	250	100	8.8 + 0.018*(Stroke + 440)
F90	270	350	200	9.2 + 0.018*(Stroke + 540)
F120	320	450	300	14 + 0.018*(Stroke + 640)

DLM135

Linear servo motor, Standard specifications, Base width 155mm
Resolution 0.1~10μm, Maximum peak force 1200N, 1~2000mm/s

Type : Iron core

Stroke : 100~5000mm

Payload : 70kg (1G)

Series	Base width	Type	Resolution	Peak Force	Encoder	Stroke	Option
DLM	135	- P	- 10	- F120	- I	- 5000	- M1



Basic specifications

Model	Type	Resolution(μm) (Note1)	Continus force(N) (Note2)	Peak force(N) (Note3)	Encoder	Speed(mm/s) (Note4)	Stroke(mm) (Note5)	Payload(maximum) (kg)
DLM135	P	0.1~10	60	150	I A	2000	5000	3.5
			120	300				13
			240	600				31
			360	900				51
			480	1200				70

Options

Code	Description
Mx(Note6)	Number of movers
B	Brake
K	K1 seal
R	Raydent

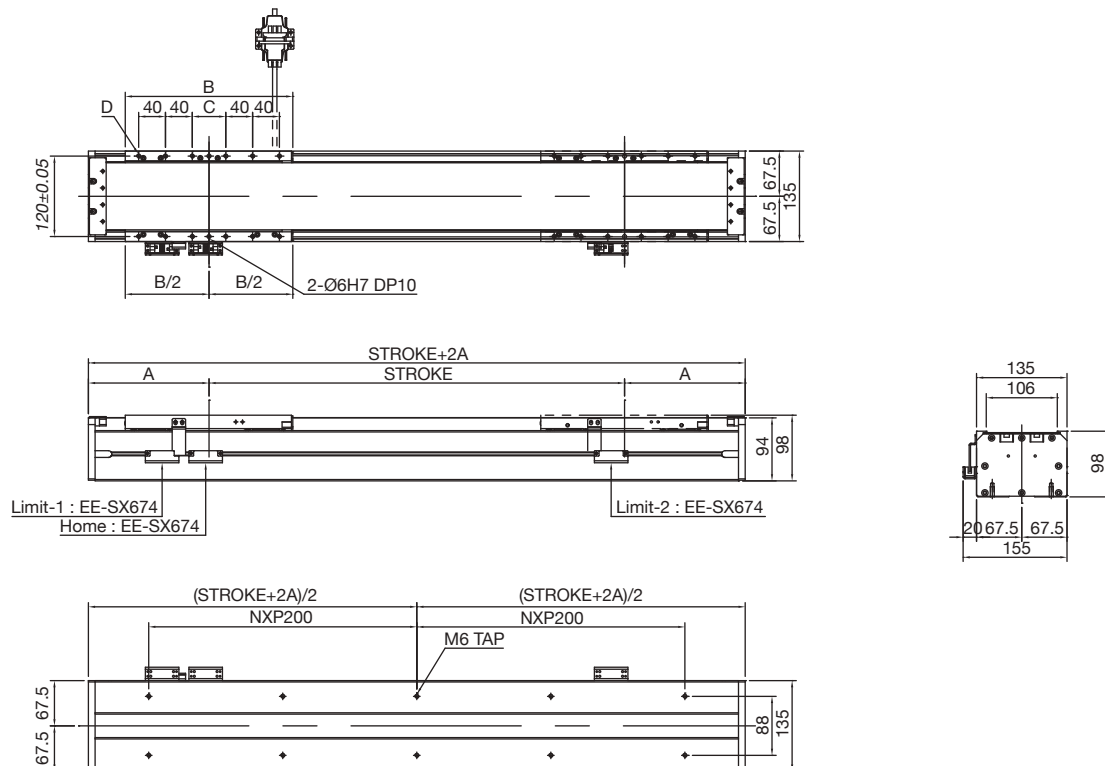
Allowable for over hang weight(acceleration = 1G)

	Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)		Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)
	3.5Kg	2R 4B	3714	2635	3714		3.5Kg	2R 4B	6080	1592	6080
	13Kg	2R 4B	1683	692	1683		13Kg	2R 4B	2636	484	2636
	31Kg	2R 6B	766	353	766		31Kg	2R 6B	1149	215	1149
	51Kg	2R 6B	368	144	368		51Kg	2R 6B	468	76	468
	70Kg	2R 8B	475	152	951		70Kg	2R 8B	613	84	613
	3.5Kg	2R 4B	3823	2713	3823		3.5Kg	2R 4B	1867	3735	-
	13Kg	2R 4B	1888	776	1888		13Kg	2R 4B	879	1758	-
	31Kg	2R 6B	939	433	939		31Kg	2R 6B	413	827	-
	51Kg	2R 6B	578	227	578		51Kg	2R 6B	224	448	-
	70Kg	2R 8B	743	237	1487		70Kg	2R 8B	384	576	-

Common specifications

Position Accuracy	±6μm per 25mm/±10μm per 300mm	Position Repeatability(Note7)	±3μm(with resolution of 1μm or better)
Straightness	±10μm per 300mm	Cable length(Note8)	5m(standard), 7m, 10m(option)

Dimension



Dimensions Table

Peak force	A	B	C	Weight(Note9)
F15	200	200	40	4.85 + 0.018*(Stroke + 370)
F30	200	200	40	5.05 + 0.018*(Stroke + 370)
F60	220	250	100	6.95 + 0.018*(Stroke + 440)
F90	270	350	200	7.8 + 0.018*(Stroke + 540)
F120	320	450	300	10.25 + 0.018*(Stroke + 640)

DLM155

Linear servo motor, Standard specifications, Base width 155mm
Resolution 0.1~10μm, Maximum peak force 1200N, 1~2000mm/s

Type : Iron core

Stroke : 100~5000mm

Payload : 70kg (1G)



Series	Base width	Type	Resolution	Peak Force	Encoder	Stroke	Option
DLM	155	- P -	10	- F120 -	I -	5000 -	M1

Basic specifications

Model	Type	Resolution(μm) (Note1)	Continus force(N) (Note2)	Peak force(N) (Note3)	Encoder	Speed(mm/s) (Note4)	Stroke(mm) (Note5)	Payload(maximum) (kg)
DLM155	P	0.1~10	60	150	I A	2000	5000	3.5
			120	300				13
			240	600				31
			360	900				51
			480	1200				70

Options

Code	Description
Mx(Note6)	Number of movers
B	Brake
K	K1 seal
R	Raydent

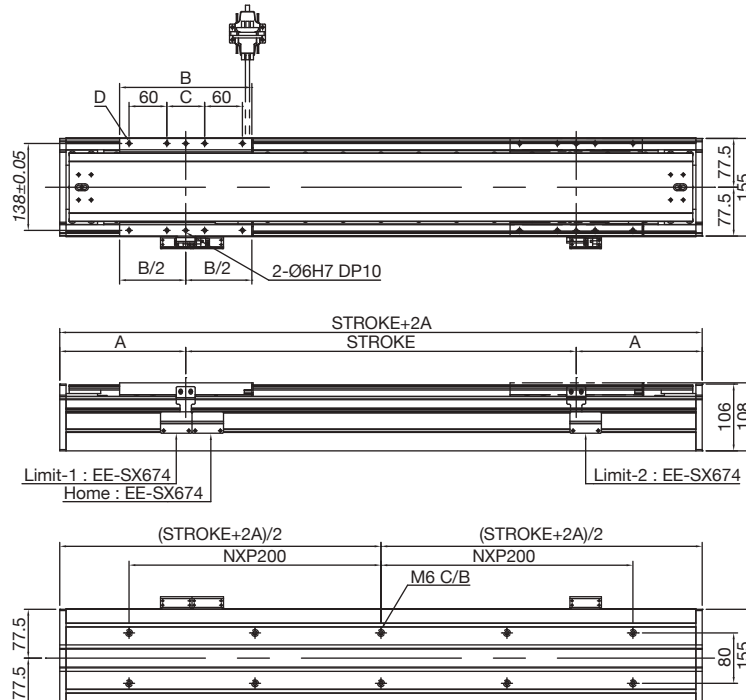
Allowable for over hang weight(acceleration = 1G)

	Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)		Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)
	3.5Kg	2R 4B	3635	2897	3635		3.5Kg	2R 4B	5923	1687	5923
	13Kg	2R 4B	1626	773	1626		13Kg	2R 4B	2522	484	2522
	31Kg	2R 6B	721	382	721		31Kg	2R 6B	1057	221	1057
	51Kg	2R 6B	325	147	325		51Kg	2R 6B	381	70	381
	70Kg	2R 8B	422	157	844		70Kg	2R 8B	507	79	507
	3.5Kg	2R 4B	3767	3002	3767		3.5Kg	2R 4B	1800	3600	-
	13Kg	2R 4B	1851	880	1851		13Kg	2R 4B	832	1664	-
	31Kg	2R 6B	902	479	902		31Kg	2R 6B	372	744	-
	51Kg	2R 6B	542	246	542		51Kg	2R 6B	184	368	-
	70Kg	2R 8B	699	261	1399		70Kg	2R 8B	314	471	-

Common specifications

Position Accuracy	±6μm per 25mm/±10μm per 300mm	Position Repeatability(Note7)	±3μm(with resolution of 1μm or better)
Straightness	±10μm per 300mm	Cable length(Note8)	5m(standard), 7m, 10m(option)

Dimension



Dimensions Table

Peak force	A	B	C	Weight(Note9)
F15	200	200	40	5.35 + 0.018*(Stroke + 370)
F30	200	200	40	5.85 + 0.018*(Stroke + 370)
F60	220	250	100	7.95 + 0.018*(Stroke + 440)
F90	270	350	200	8.2 + 0.018*(Stroke + 540)
F120	320	450	300	12.25 + 0.018*(Stroke + 640)

DLM190

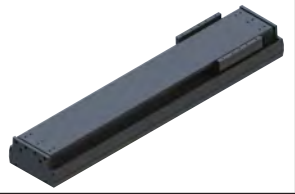
Linear servo motor, Standard specifications, Base width 190mm
Resolution 0.1~10μm, Maximum peak force 1200N, 1~2000mm/s

Type : Iron core

Stroke : 100~5000mm

Payload : 67kg (1G)

Series	Base width	Type	Resolution	Peak Force	Encoder	Stroke	Option
DLM	190	- P -	10	- F120 -	I	- 5000 -	M1



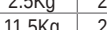
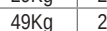
Basic specifications

Model	Type	Resolution(μm) (Note1)	Continus force(N) (Note2)	Peak force(N) (Note3)	Encoder	Speed(mm/s) (Note4)	Stroke(mm) (Note5)	Payload(maximum) (kg)
DLM190	P	0.1~10	60	150	I A	2000	5000	2.5
			120	300				11.5
			240	600				29
			360	900				49
			480	1200				67

Options

Code	Description
Mx(Note6)	Number of movers
B	Brake
K	K1 seal
R	Raydent

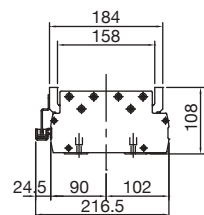
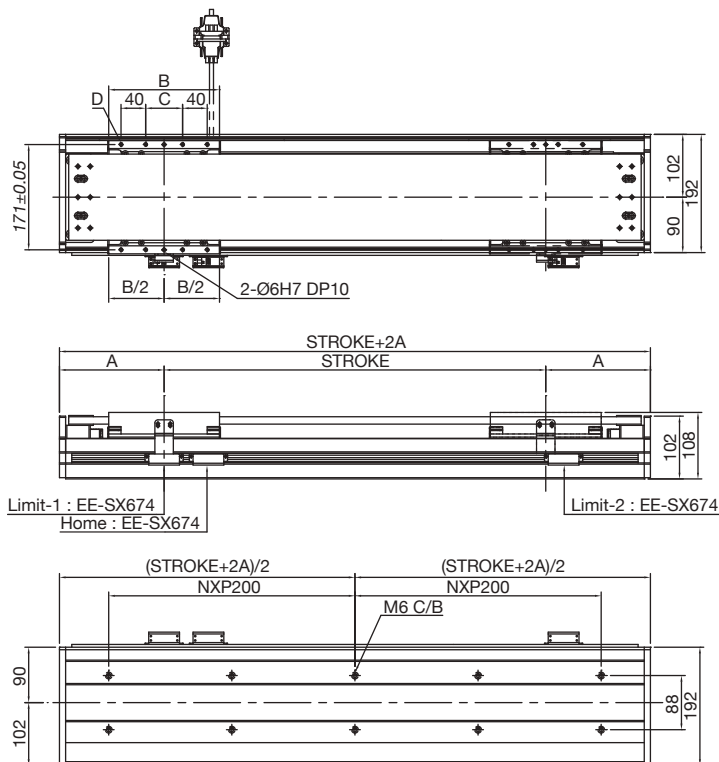
Allowable for over hang weight(acceleration = 1G)

	Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)		Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)
	2.5Kg	2R 4B	5095	4346	5095		2.5Kg	2R 4B	8303	2482	8303
	11.5Kg	2R 4B	1830	949	1830		11.5Kg	2R 4B	2836	583	2836
	29Kg	2R 6B	736	440	763		29Kg	2R 6B	1116	249	1116
	49Kg	2R 6B	329	163	329		49Kg	2R 6B	378	75	378
	67Kg	2R 8B	431	176	862		67Kg	2R 8B	509	86	509
	2.5Kg	2R 4B	5289	4511	5289		2.5Kg	2R 4B	2530	5060	-
	11.5Kg	2R 4B	2092	1085	2092		11.5Kg	2R 4B	937	1874	-
	29Kg	2R 6B	959	553	959		29Kg	2R 6B	391	783	-
	49Kg	2R 6B	558	277	558		49Kg	2R 6B	184	368	-
	67Kg	2R 8B	723	296	1446		67Kg	2R 8B	314	471	-

Common specifications

Position Accuracy	±6μm per 25mm/±10μm per 300mm	Position Repeatability(Notes7)	±3μm(with resolution of 1μm or better)
Straightness	±10μm per 300mm	Cable length(Notes8)	5m(standard), 7m, 10m(option)

Dimension



Dimensions Table

Peak force	A	B	C	Weight(Notes)
F15	195	200	60	5.35 + 0.018*(Stroke + 390)
F30	195	200	60	5.85 + 0.018*(Stroke + 390)
F60	235	280	110	7.95 + 0.018*(Stroke + 470)
F90	270	350	200	8.2 + 0.018*(Stroke + 540)
F120	320	450	300	12.25 + 0.018*(Stroke + 640)

DLM210		Linear servo motor, Standard specifications, Base width 210mm Resolution 0.1~10μm, Maximum peak force 1200N, 1~2000mm/s						
Type : Iron core		Stroke : 100~5000mm			Payload : 65kg (1G)			
Series	Base width	Type	Resolution	Peak Force	Encoder	Stroke		Option
DLM	210	- P	- 10	- F120	- I	- 5000		- M1

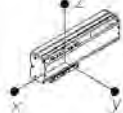
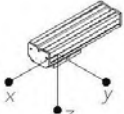
Basic specifications

Model	Type	Resolution(μm) (Note1)	Continus force(N) (Note2)	Peak force(N) (Note3)	Encoder	Speed(mm/s) (Note4)	Stroke(mm) (Note5)	Payload(maximum) (kg)
DLM210	P	0.1~10	240	600	I A	2000	5000	29
			360	900				49
			480	1200				65

Options

Code	Description
Mx(Note6)	Number of movers
B	Brake
K	K1 seal
R	Raydent

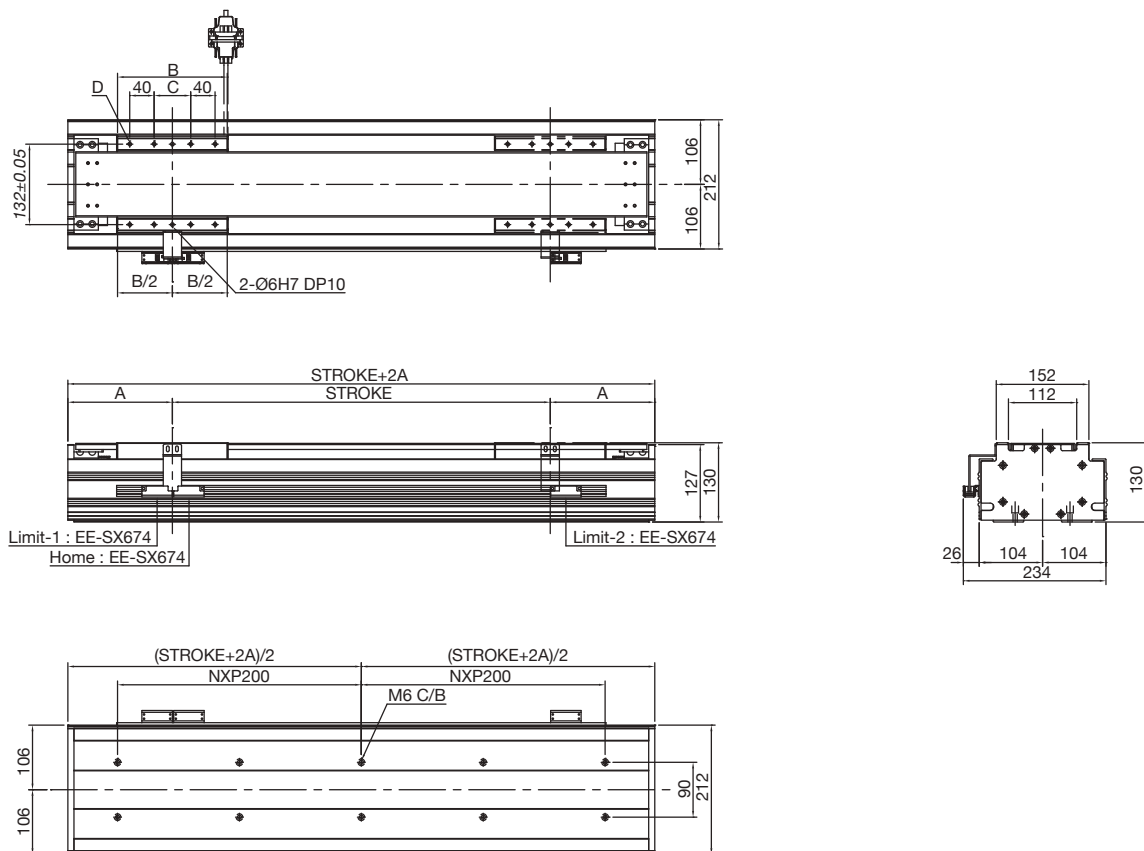
Allowable for over hang weight(acceleration = 1G)

	Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)		Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)
	29Kg	2R 4B	3474	1585	3474		29Kg	2R 4B	5595	1039	5595
	49Kg	2R 4B	2194	851	2194		49Kg	2R 4B	3432	557	3432
	65Kg	2R 6B	2407	1004	2407		65Kg	2R 6B	3814	658	3814
	29Kg	2R 4B	3779	1723	3779		29Kg	2R 4B	1769	3539	-
	49Kg	2R 4B	2546	988	2546		49Kg	2R 4B	1143	2286	-
	65Kg	2R 6B	2728	1138	2728		65Kg	2R 6B	1242	2485	-

Common specifications

Position Accuracy	±6μm per 25mm/±10μm per 300mm	Position Repeatability(Note7)	±3μm(with resolution of 1μm or better)
Straightness	±10μm per 300mm	Cable length(Note8)	5m(standard), 7m, 10m(option)

Dimension



Dimensions Table

Peak force	A	B	C	Weight(Note9)
F60	210	180	0	11+0.025*(Stroke+328)
F90	295	350	150	14+0.025*(Stroke+329)
F120	345	450	250	17.5+0.025*(Stroke+330)

DLM260

Linear servo motor, Standard specifications, Base width 260mm,
Resolution 0.1~10μm, Maximum peak force 2400N, 1~2000mm/s

Type : Iron core

Stroke : 100~5000mm

Payload : 147kg (1G)

Series	Base width	Type	Resolution	Peak Force	Encoder	Stroke	Option
DLM	260	- P	- 10	- F240	- I	- 5000	- M1



Basic specifications

Model	Type	Resolution(μm) (Note1)	Continus force(N) (Note2)	Peak force(N) (Note3)	Encoder	Speed(mm/s) (Note4)	Stroke(mm) (Note5)	Payload(maximum) (kg)
DLM260	P	0.1~10	240	600	I A	2000	5000	27
			360	900				47
			480	1200				64
			720	1800				105
			960	2400				147

Options

Code	Description
Mx(Note6)	Number of movers
B	Brake
K	K1 seal
R	Raydent

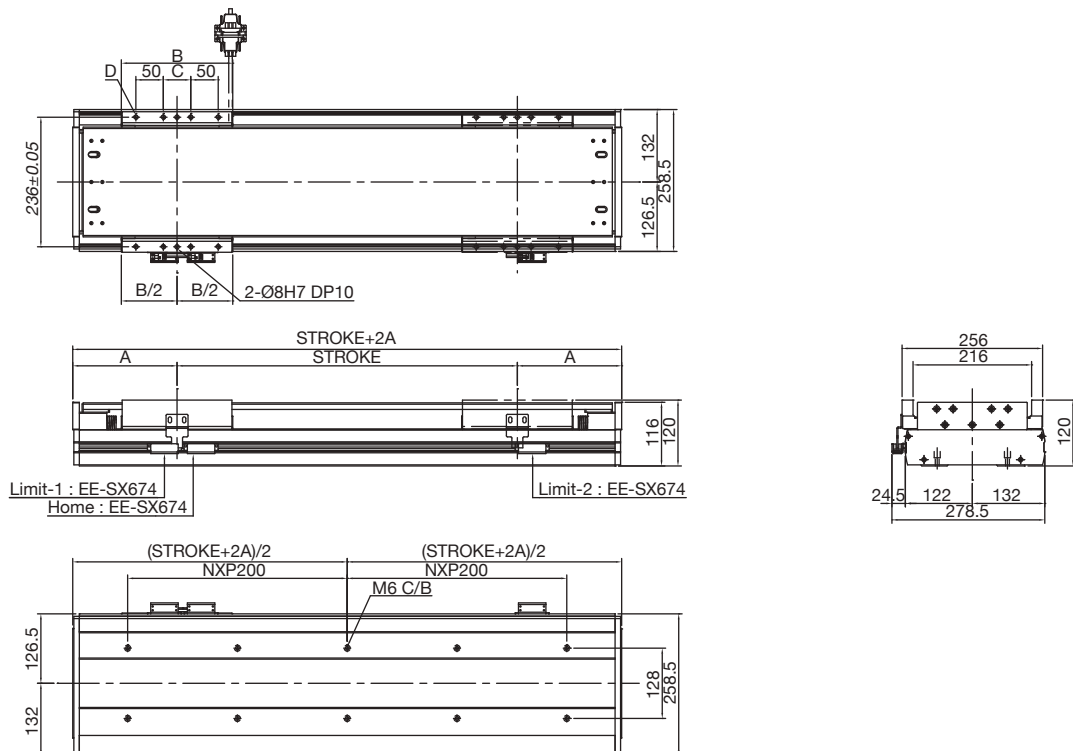
Allowable for over hang weight(acceleration = 1G)

	Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)		Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)
	27Kg	2R 4B	3733	2045	3733		27Kg	2R 4B	6013	1292	6013
	47Kg	2R 4B	2285	1074	2285		47Kg	2R 4B	3574	680	3574
	64Kg	2R 6B	1729	1091	1729		64Kg	2R 6B	2721	652	2721
	105Kg	2R 6B	1166	587	1166		105Kg	2R 6B	1739	349	1739
	147Kg	2R 6B	612	308	612		147Kg	2R 6B	818	164	818
	27Kg	2R 4B	4056	2222	4056		27Kg	2R 4B	1877	3755	-
	47Kg	2R 4B	2652	1247	2652		47Kg	2R 4B	1189	2379	-
	64Kg	2R 6B	1963	1239	1963		64Kg	2R 6B	879	1759	-
	105Kg	2R 6B	1476	743	1476		105Kg	2R 6B	618	1236	-
	147Kg	2R 6B	914	460	914		147Kg	2R 6B	339	679	-

Common specifications

Position Accuracy	±6μm per 25mm/±10μm per 300mm	Position Repeatability(Note7)	±3μm(with resolution of 1μm or better)
Straightness	±10μm per 300mm	Cable length(Note8)	5m(standard), 7m, 10m(option)

Dimension



Dimensions Table

Peak force	A	B	C	Weight(Note9)
F60	190	180	50	11+0.032*(Stroke+328)
F90	275	350	200	14+0.032*(Stroke+329)
F120	325	450	300	17.5+0.032*(Stroke+330)
F180	275	350	200	16.8+0.032*(Stroke+331)
F240	325	450	300	11+0.032*(Stroke+332)

DLM280		Linear servo motor, Standard specifications, Base width 280mm Resolution 0.1~10μm, Maximum peak force 2400N, 1~2000mm/s						
Type : Iron core		Stroke : 100~5000mm			Payload : 147kg (1G)			
Series	Base width	Type	Resolution	Peak Force	Encoder	Stroke		Option
DLM	280	- P	- 10	- F240	- I	- 5000		- M1

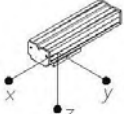
Basic specifications

Model	Type	Resolution(μm) (Note1)	Continus force(N) (Note2)	Peak force(N) (Note3)	Encoder	Speed(mm/s) (Note4)	Stroke(mm) (Note5)	Payload(maximum) (kg)
DLM280	P	0.1~10	480	1200	I A	2000	5000	66
			720	1800				105
			960	2400				147

Options

Code	Description
Mx(Note6)	Number of movers
B	Brake
K	K1 seal
R	Raydent

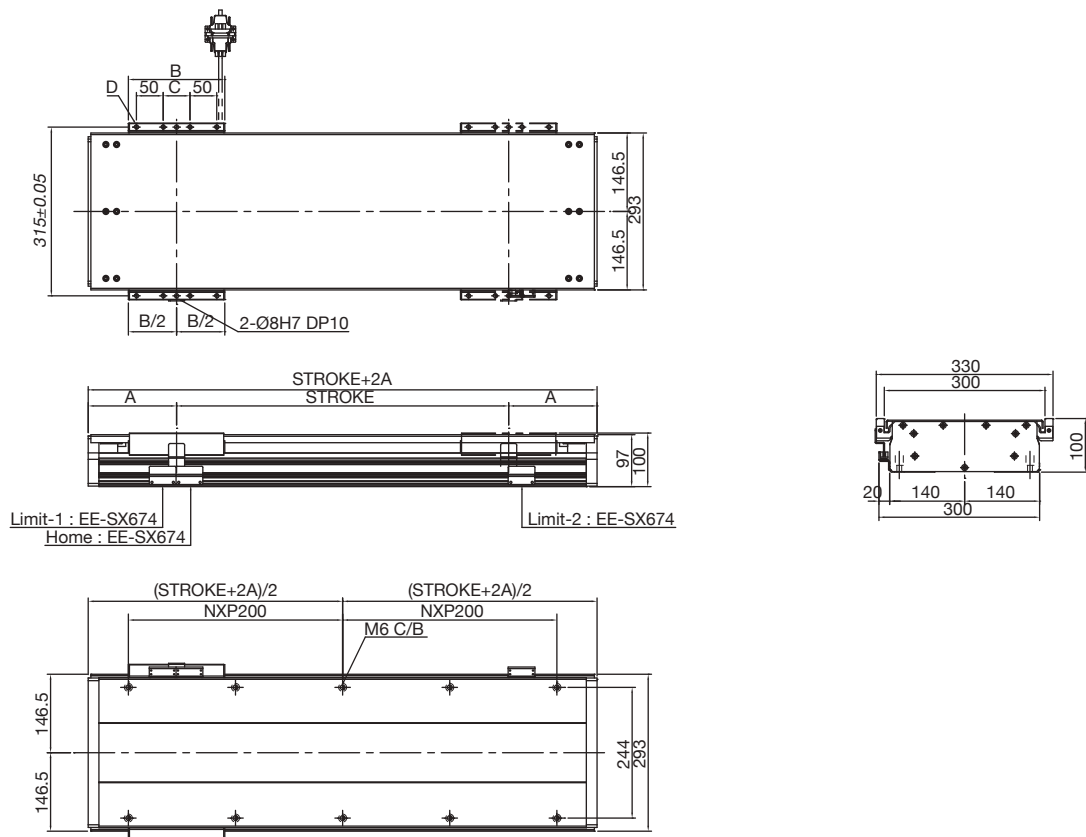
Allowable for over hang weight(acceleration = 1G)

	Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)		Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)
	66Kg	2R 6B	1707	1179	1707		66Kg	2R 6B	2699	693	2699
	105Kg	2R 6B	1201	668	1201		105Kg	2R 6B	1810	393	1810
	147Kg	2R 6B	630	350	630		147Kg	2R 6B	864	188	864
	66Kg	2R 6B	1939	1340	1939		66Kg	2R 6B	886	1772	-
	105Kg	2R 6B	1511	840	1511		105Kg	2R 6B	653	1307	-
	147Kg	2R 6B	931	518	931		147Kg	2R 6B	366	733	-

Common specifications

Position Accuracy	±6μm per 25mm/±10μm per 300mm	Position Repeatability(Note7)	±3μm(with resolution of 1μm or better)
Straightness	±10μm per 300mm	Cable length(Note8)	5m(standard), 7m, 10m(option)

Dimension



Dimensions Table

Peak force	A	B	C	Weight(Note9)
F120	200	250	120	14.2+0.032*(Stroke+560)
F180	250	350	220	18.2+0.032*(Stroke+656)
F240	300	450	320	22.2+0.032*(Stroke+752)

DLM290

Linear servo motor, Standard specifications, Base width 290mm,
Resolution 0.1~10μm, Maximum peak force 2400N, 1~2000mm/s

Type : Iron core

Stroke : 100~5000mm

Payload : 144kg (1G)

Series	Base width	Type	Resolution	Peak Force	Encoder	Stroke	Option
DLM	290	- P	- 10	- F240	- I	- 5000	- M1



Basic specifications

Model	Type	Resolution(μm) (Note1)	Continus force(N) (Note2)	Peak force(N) (Note3)	Encoder	Speed(mm/s) (Note4)	Stroke(mm) (Note5)	Payload(maximum) (kg)
DLM290	P	0.1~10	480	1200	I A	2000	5000	64
			720	1800				102
			960	2400				144

Options

Code	Description
MX(Note6)	Number of movers
B	Brake
K	K1 seal
R	Raydent

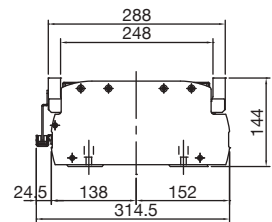
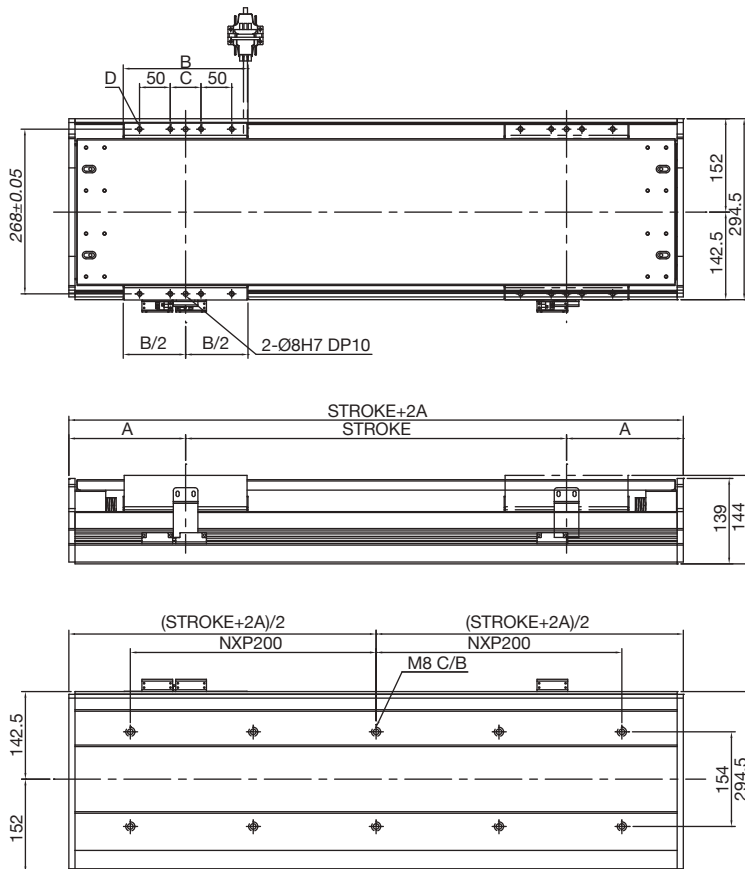
Allowable for over hang weight(acceleration = 1G)

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Common specifications

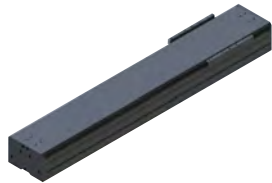
Position Accuracy	±6μm per 25mm/±10μm per 300mm	Position Repeatability(Notes7)	±3μm(with resolution of 1μm or better)
Straightness	±10μm per 300mm	Cable length(Notes8)	5m(standard), 7m, 10m(option)

Dimension



Dimensions Table

Peak force	A	B	C	Weight(Notes)
F120	240	250	120	14.2+0.0378*(Stroke+560)
F180	290	350	220	18.2+0.0378*(Stroke+656)
F240	340	450	320	22.2+0.0378*(Stroke+752)

DLMD155		Linear servo motor, Standard specifications, Base width 155mm Resolution 0.1~10μm, Maximum peak force 1200N, 1~2000mm/s						
Type : Iron core		Stroke : 100~5000mm				Payload : 70kg (1G)		
Series	Base width	Type	Resolution	Peak Force	Encoder	Stroke	Option	
DLMD	155	- P	- 10	- F120	- I	- 5000	- M1	

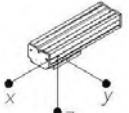
Basic specifications

Model	Type	Resolution(μm) (Note1)	Continus force(N) (Note2)	Peak force(N) (Note3)	Encoder	Speed(mm/s) (Note4)	Stroke(mm) (Note5)	Payload(maximum) (kg)
DLMD155	P	0.1~10	60	150	I A	2000	5000	2
			120	300				11
			240	600				29
			360	900				49
			480	1200				70

Options

Code	Description
Mx(Note6)	Number of movers
B	Brake
K	K1 seal
R	Raydent

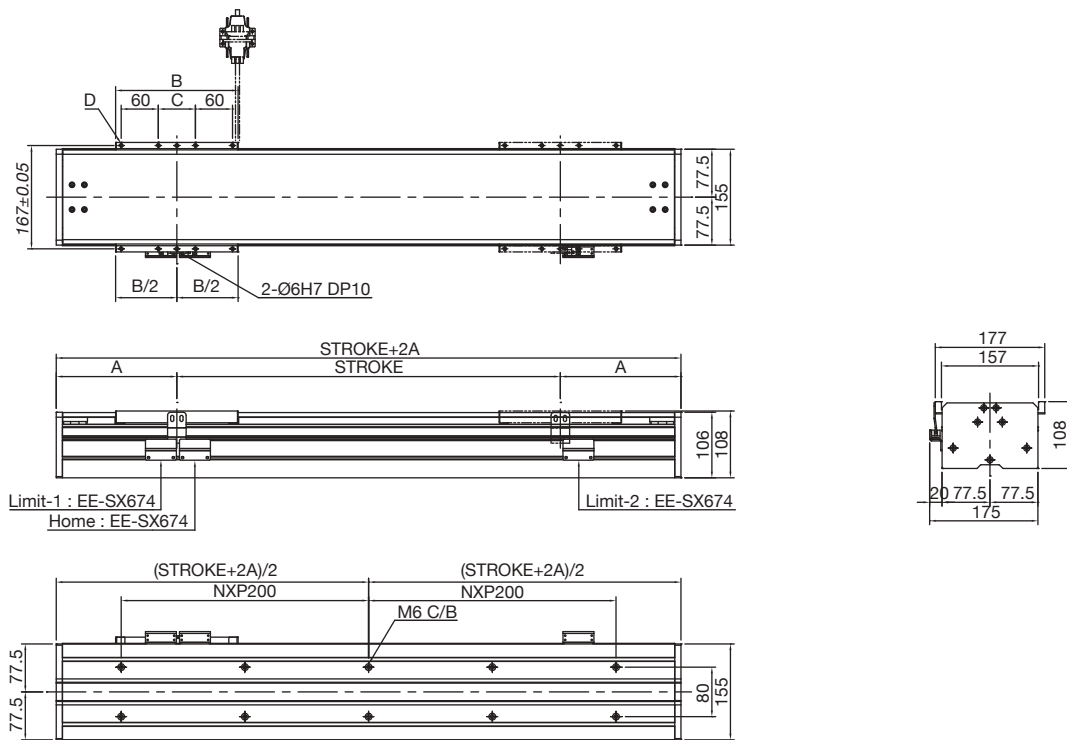
Allowable for over hang weight(acceleration = 1G)

	Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)		Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)
	2Kg	2R 4B	6371	5077	6371		2Kg	2R 4B	10383	2958	10383
	11Kg	2R 4B	1918	912	1918		11Kg	2R 4B	2975	571	2975
	29Kg	2R 6B	768	407	768		29Kg	2R 6B	1125	236	1125
	49Kg	2R 6B	335	152	335		49Kg	2R 6B	390	72	390
	70Kg	2R 8B	449	167	898		70Kg	2R 8B	540	84	540
	2Kg	2R 4B	6609	5267	6609		2Kg	2R 4B	3163	6326	-
	11Kg	2R 4B	2194	1043	2194		11Kg	2R 4B	985	1971	-
	29Kg	2R 6B	967	513	967		29Kg	2R 6B	398	796	-
	49Kg	2R 6B	567	258	567		49Kg	2R 6B	191	383	-
	70Kg	2R 8B	746	278	1492		70Kg	2R 8B	330	496	-

Common specifications

Position Accuracy	±6μm per 25mm/±10μm per 300mm	Position Repeatability(Note7)	±3μm(with resolution of 1μm or better)
Straightness	±10μm per 300mm	Cable length(Note8)	5m(standard), 7m, 10m(option)

Dimension



Dimensions Table

Peak force	A	B	C	Weight(Note9)
F15	185	180	40	5.35 + 0.018*(Stroke + 370)
F30	185	180	40	5.85 + 0.018*(Stroke + 370)
F60	220	250	100	7.95 + 0.018*(Stroke + 440)
F90	270	350	200	8.2 + 0.018*(Stroke + 540)
F120	320	450	300	12.25 + 0.018*(Stroke + 640)

DLMD190

Linear servo motor, Standard specifications, Base width 190mm,
Resolution 0.1~10μm, Maximum peak force 1200N, 1~2000mm/s

Type : Iron core

Stroke : 100~5000mm

Payload : 60kg (1G)

Series	Base width	Type	Resolution	Peak Force	Encoder	Stroke	Option
DLMD	190	- P -	10	- F120 -	I -	5000 -	M1



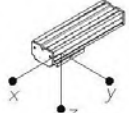
Basic specifications

Model	Type	Resolution(μm) (Note1)	Continus force(N) (Note2)	Peak force(N) (Note3)	Encoder	Speed(mm/s) (Note4)	Stroke(mm) (Note5)	Payload(maximum) (kg)
DLMD190	P	0.1~10	120	300	I A	2000	5000	7.5
			240	600				25
			360	900				44
			480	1200				60

Options

Code	Description
MX(Note6)	Number of movers
B	Brake
K	K1 seal
R	Raydent

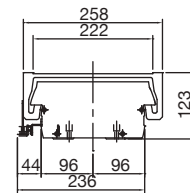
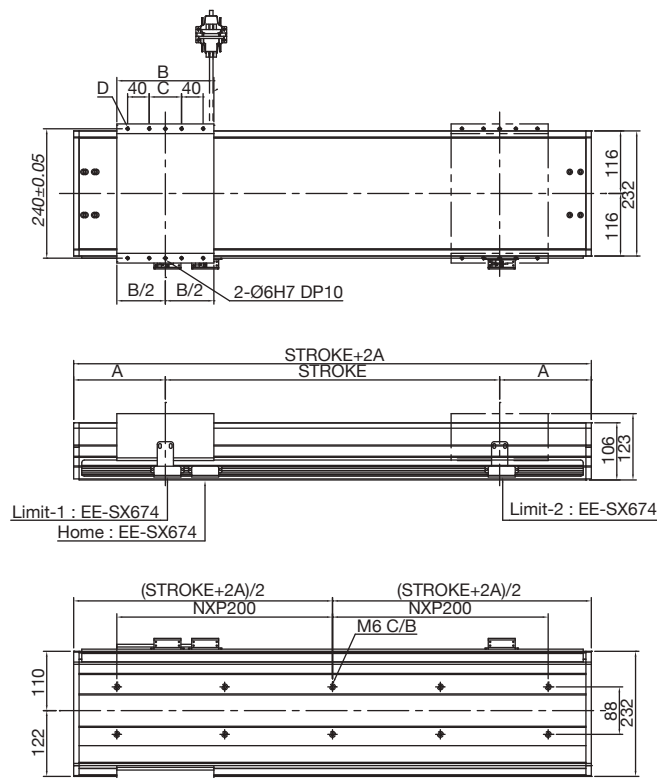
Allowable for over hang weight(acceleration = 1G)

	Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)		Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)
	7.5Kg	2R 4B	2790	1446	2790		7.5Kg	2R 4B	4314	888	4314
	25Kg	2R 6B	863	498	863		25Kg	2R 6B	1251	280	1251
	44Kg	2R 6B	347	172	347		44Kg	2R 6B	383	76	383
	60Kg	2R 6B	461	189	923		60Kg	2R 6B	529	90	529
	7.5Kg	2R 4B	3192	1655	3192		7.5Kg	2R 4B	1419	2839	-
	25Kg	2R 6B	1096	623	1096		25Kg	2R 6B	435	870	-
	44Kg	2R 6B	605	300	605		44Kg	2R 6B	187	374	-
	60Kg	2R 6B	788	322	1577		60Kg	2R 6B	309	463	-

Common specifications

Position Accuracy	±6μm per 25mm/±10μm per 300mm	Position Repeatability(Note7)	±3μm(with resolution of 1μm or better)
Straightness	±10μm per 300mm	Cable length(Note8)	5m(standard), 7m, 10m(option)

Dimension



Dimensions Table

Peak force	A	B	C	Weight(Note9)
F30	200	200	60	5.85 + 0.018*(Stroke + 390)
F60	240	280	110	7.95 + 0.018*(Stroke + 470)
F90	275	350	200	8.2 + 0.018*(Stroke + 540)
F120	325	450	300	12.25 + 0.018*(Stroke + 640)

DLMD260		Linear servo motor, Dust proof specifications, Base width 260mm, Resolution 0.1~10μm, Maximum peak force 2400N, 1~2000mm/s						
Type : Iron core		Stroke : 100~5000mm			Payload : 147kg (1G)			
Series	Base width	Type	Resolution	Peak Force	Encoder	Stroke		Option
DLMD	260	- P -	10	- F240 -	I	5000		- M1

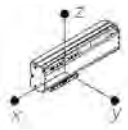
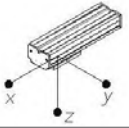
Basic specifications

Model	Type	Resolution(μm) (Note1)	Continus force(N) (Note2)	Peak force(N) (Note3)	Encoder	Speed(mm/s) (Note4)	Stroke(mm) (Note5)	Payload(maximum) (kg)
DLMD260	P	0.1~10	240	600	I A	2000	5000	21.5
			360	900				40
			480	1200				59
			720	1800				96
			960	2400				147

Options

Code	Description
Mx(Note6)	Number of movers
B	Brake
K	K1 seal
R	Raydent

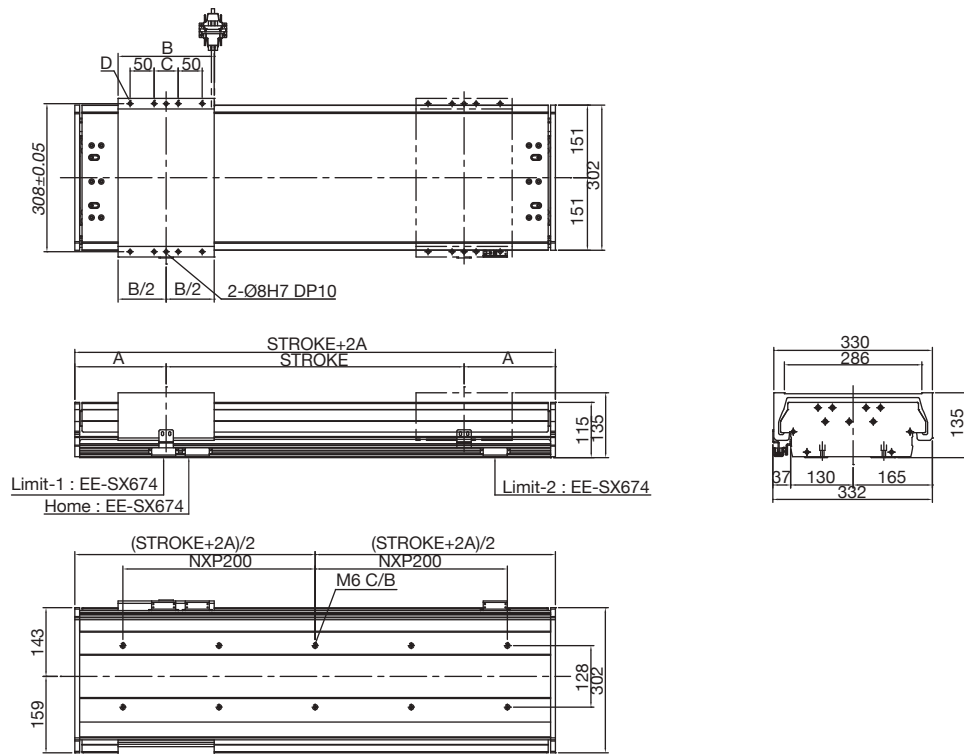
Allowable for over hang weight(acceleration = 1G)

	Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)		Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)
	21.5Kg	2R 4B	4628	2535	4628		21.5Kg	2R 4B	7437	1599	7437
	40Kg	2R 4B	2682	1261	2682		40Kg	2R 4B	4193	798	4193
	59Kg	2R 6B	1864	1176	1864		59Kg	2R 6B	2929	702	2929
	96Kg	2R 6B	1269	639	1269		96Kg	2R 6B	1889	380	1889
	147Kg	2R 6B	644	324	644		147Kg	2R 6B	857	172	857
	21.5Kg	2R 4B	5038	2760	5038		21.5Kg	2R 4B	2356	4713	-
	40Kg	2R 4B	3113	1464	3113		40Kg	2R 4B	1394	2789	-
	59Kg	2R 6B	2124	1341	2124		59Kg	2R 6B	946	1892	-
	96Kg	2R 6B	1609	810	1609		96Kg	2R 6B	669	1339	-
	147Kg	2R 6B	966	486	966		147Kg	2R 6B	354	709	-

Common specifications

Position Accuracy	±6μm per 25mm/±10μm per 300mm	Position Repeatability(Note7)	±3μm(with resolution of 1μm or better)
Straightness	±10μm per 300mm	Cable length(Note8)	5m(standard), 7m, 10m(option)

Dimension



Dimensions Table

Peak force	A	B	C	Weight(Note9)
F60	165	180	50	11.2+0.025*(Stroke+364)
F90	250	350	200	14.2+0.025*(Stroke+460)
F120	300	450	300	17.5+0.025*(Stroke+556)
F180	250	350	200	17+0.025*(Stroke+460)
F240	300	450	300	21+0.025*(Stroke+556)

DLMD290

Linear servo motor, Dust proof specifications, Base width 290mm, Resolution 0.1~10μm, Maximum peak force 2400N, 1~2000mm/s

Type : Iron core

Stroke : 100~5000mm

Payload : 144kg (1G)

Series Base width Type Resolution Peak Force Encoder Stroke Option
DLMD 290 - P - 10 - F240 - I - 5000 - M1



Basic specifications

Model	Type	Resolution(μm) (Note1)	Continus force(N) (Note2)	Peak force(N) (Note3)	Encoder	Speed(mm/s) (Note4)	Stroke(mm) (Note5)	Payload(maximum) (kg)
DLMD290	P	0.1~10	480	1200	I A	2000	5000	57
			720	1800				94
			960	2400				144

Options

Code	Description
Mx(Note6)	Number of movers
B	Brake
K	K1 seal
R	Raydent

Allowable for over hang weight(acceleration = 1G)

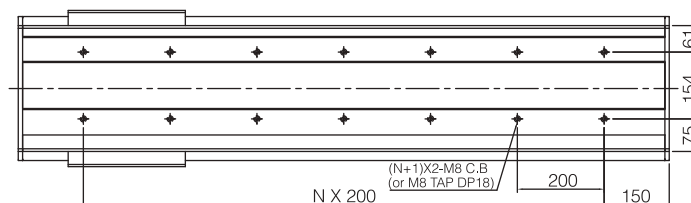
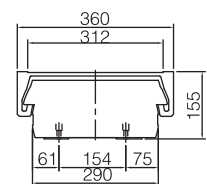
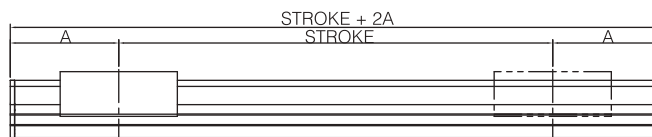
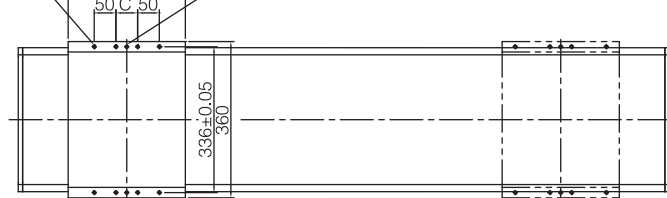
	Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)		Payload	Rail/Block	X(mm)	Y(mm)	Z(mm)
	57Kg	2R 6B	1913	1353	1913		57Kg	2R 6B	2999	783	2999
	94Kg	2R 6B	1278	729	1278		94Kg	2R 6B	1895	420	1895
	144Kg	2R 6B	612	349	612		144Kg	2R 6B	799	177	799
	-	-	-	-	-		-	-	-	-	-
	57Kg	2R 6B	2182	1543	2182		57Kg	2R 6B	962	1925	-
	94Kg	2R 6B	1626	928	1626		94Kg	2R 6B	667	1334	-
	144Kg	2R 6B	938	535	938		144Kg	2R 6B	330	661	-
	-	-	-	-	-		-	-	-	-	-
	-	-	-	-	-		-	-	-	-	-

Common specifications

Position Accuracy	±6μm per 25mm/±10μm per 300mm	Position Repeatability(Note7)	±3μm(with resolution of 1μm or better)
Straightness	±10μm per 300mm	Cable length(Note8)	5m(standard), 7m, 10m(option)

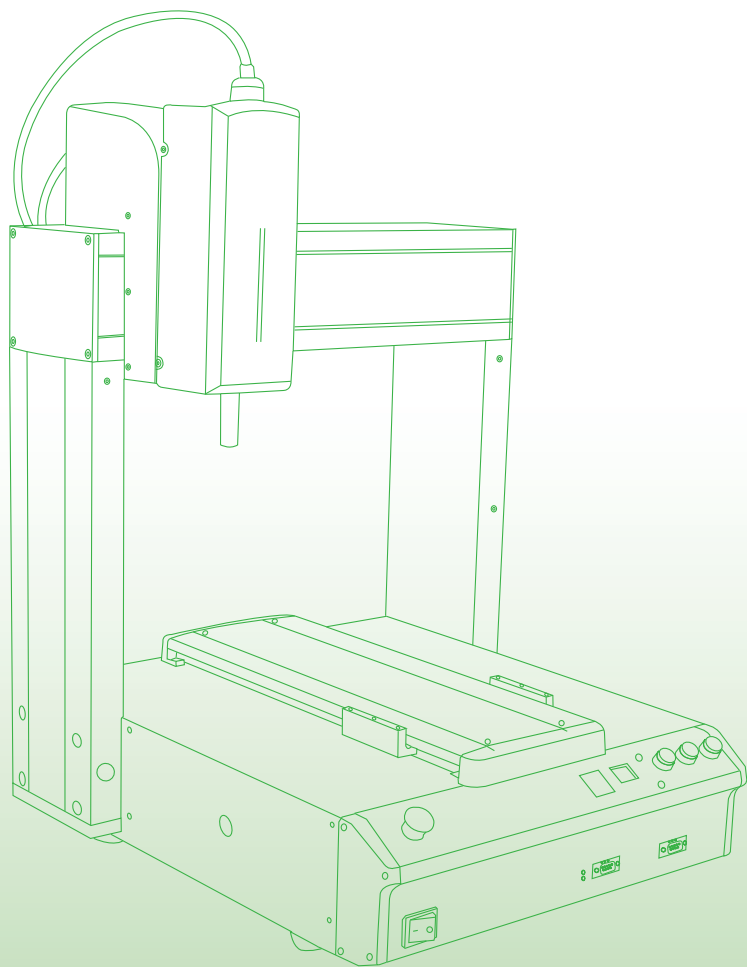
Dimension

8-M8 TAP DP15 B 50 C 50 2-Ø8H7 DP10



Dimensions Table

Peak force	A	B	C	Weight(Note9)
F120	240	250	120	14.2+0.0378*(Stroke+560)
F180	290	350	220	18.2+0.0378*(Stroke+656)
F240	340	450	320	22.2+0.0378*(Stroke+752)



Contents

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Feature

DTR series are designed to combine high precision and accurate positioning functions into compact unit with high rigid structure. DTR series have various models of servo motor with ball screw types and step motor with belt types models of and they are very useful and achieve best performance and outstanding cost performance

High Rigid Structure

Aluminum extruded material is employed on the base and gantry structure for all models enhance rigidity. The servo motor and ball screw types of DTR are a good solution for the required applications of high load such as automotive industry

Various line-up

The DTR series provide various products ranges. Belt driven with Stepper Motor type, ballscrew drive with Servo Motor type, 2~4 axes and Dual-X axes are available.

Compact design

Minimize whole dimension by cable treatment into the Robot and save working space*



DTR-SU-3310/4410 Series



DTR-SU-3510 Series



DTR-MU-2208/3308/4408 Series



DTR-MU-2205 Series

* Cables of the model 2205/2210 series and 4 axes (XYZR) of DTR series are exposed

Wide variety of applications

General purpose of software "iM-U" and PC software "Smart Work Studio" extends user's particular working job range, such as Screw tightening, Soldering, Dispensing, and CCD camera, Touch panel and other automation operations

Large Memory Capacity

Up to 100 programs can be stored. Up to 100,000 position points can be stored.

Ordering Model

1 Series **2** Type **3** Stroke **4** Option1 **5** Option2
DTR - MU - 3308 - E - 100

1 Series

Name of the Series : DTR is desktop robot

2 Type

Drive types

SU : Servo motor & Ball screw drive type

MU : Stepper motor & Belt drive type

3 Stroke

XYZ stroke

Ex) 2205 : 200×200×50mm

33 : 300×310mm

3308 : 300×310×80mm

3308R : 300×310×80mm + R axis

4 Option1

Extended I/O option

None: Basic I/O(8/16)

E : Extend I/O(24/32)

P : Add a MPG function

5 Option2

Extended pole height

None: Basic pole height

50 : Basic pole height + 50mm

100 : Basic pole height + 100mm

150 : Basic pole height + 150mm

200 : Basic pole height + 200mm

Model List

Series	Type	Stroke	Option1	Option2	Note
DTR	MU	2205	E P	50 100 150 200	
		22			
		2208			
		2208R			
		33			
		3308			
		3308R			
		44			
		4408			
		4408R			
		35			
		3508			
	SU2	33			
		3310			
		3310R			
		44			
		4410			
		4410R			
		35			
		3510			
		3510R			

MEMO

Specification of DTR-MU series

Item	Model	DTR-MU-2205	DTR-MU-22	DTR-MU-2208	DTR-MU-2208R	DTR-MU-33	
	Number of axis	3	2	3	4	2	
Stroke	X(mm)	200	245	245	245	300	
	Y(mm)	200	245	245	245	300	
	Z(mm)	50	-	80	80	-	
	R(°)	-	-	-	±360	-	
Payload(Note 1)	Work(kg)	5	15	15	15	15	
	Tool(kg)	2	15	6	2	15	
Speed	X, Y(mm/s)	500	600	600	600	600	
	Z(mm/s)	250	-	320	320	-	
	R(°/s)	-	-	-	720	-	
Position repeatability	X,Y(mm)	±0.01	±0.01	±0.01	±0.01	±0.01	
	Z(mm)	±0.01	-	±0.01	±0.01	-	
	R(°)	-	-	-	±0.02	-	
Dimension	W*D*H(mm)	320×320×410	407×425×424	407×425×516	407×425×516	467×475×424	
Weight(kg)		15	18	20	23	25	
Drive type		Timing Belt					
Motor		Stepper Motor / 2 Phase					
Power source(Note 2)		1Φ AC200V~AC230V, 50/60Hz, 800VA, 3.6A					
Program input		Teaching Pendant(DX-U), PC(IBM compatible)					
Position data input		MDI(Manual Data Input), Direct teaching, Touch panel					
Motion control		PTP, CP(3dimensional straight line/circular arc interpolation)					
Program capacity(Note 3)	Point files	100 files					
	Points	1,000 points per file					
Serial communication		SERIAL COMMUNICATION RS232/RS422 : 9600bps ~ 115200bps / ETHERNET : 10/100Mb					
I/O(Input/Output)		Standard: 8(IN)/16(OUT), Extension(optional): 24(IN)/32(OUT)					
Special function		3 dimensional palletizing, Pass&Turning motion, Teaching points shift, I/O parallel processing, R axis value compensation, Real time speed over ride					
PLC command		28					
PLC scanning time(ms)		5ms					
User memory capacity		2MB					
Operating ambient temperature/humidity		0~45°C/20~80%RH					
Storage ambient temperature/humidity		-15~60°C/10~90%RH					

(Note 1) Maximum payload is subject to change by the available speed and operating conditions

(Note 2) The power capacity is base on 3 axes and is subject to change by number of axis

(Note 3) Motion program and point can not exceed the user memory capacity

	DTR-MU-3308	DTR-MU-3308R	DTR-MU-44	DTR-MU-4408	DTR-MU-4408R	DTR-MU-35	DTR-MU-3508
	3	4	2	3	4	3	4
	300	300	400	400	400	300×2	300×2
	300	300	400	400	400	500	500
	80	80	-	80	80	-	80
	-	±360	-	-	±360	-	-
	15	15	15	15	15	10*2	10*2
	6	2	15	6	2	15	6
	600	600	600	600	600	600	600
	320	320	-	320	320	-	320
	-	720	-	-	720	-	-
	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01
	±0.01	±0.01	-	±0.01	±0.01	-	±0.01
	-	±0.02	-	-	±0.02	-	-
	467×475×516	467×475×516	567×575×424	567×575×516	567×575×516	667×475×424	667×475×516
	27	30	33	35	38	36	38
	Timing Belt						
	Stepper Motor / 2 Phase						
	1Φ AC200V~AC230V, 50/60Hz, 800VA, 3.6A						
	Teaching Pendant(DX-U), PC(IBM compatible)						
	MDI(Manual Data Input), Direct teaching, Touch panel						
	PTP, CP(3dimensional straight line/circular arc interpolation)						
	100 files						
	1,000 points per file						
	SERIAL COMMUNICATION RS232/RS422 : 9600bps ~ 115200bps / ETHERNET : 10/100Mb						
	Standard: 8(IN)/16(OUT), Extension(optional): 24(IN)/32(OUT)						
	3 dimensional palletizing, Pass&Turning motion, Teaching points shift, I/O parallel processing, R axis value compensation, Real time speed over ride						
	28						
	5ms						
	2MB						
	0~45°C/20~80%RH						
	-15~60°C/10~90%RH						

Specification of DTR-SU2 series

Item	Model	DTR-SU2-33	DTR-SU2-3310	DTR-SU2-3310R	
	Number of axis	2	3	4	
Stroke	X(mm)	300	300	300	
	Y(mm)	300	300	300	
	Z(mm)	-	100	100	
	R(°)	-	-	±360	
Payload(Note 1)	Work(kg)	20	20	20	
	Tool(kg)	20	8	4	
Speed	X, Y(mm/s)	667	667	667	
	Z(mm/s)	-	333	333	
	R(°/s)	-	-	1800	
Position repeatability	X, Y(mm)	±0.005	±0.005	±0.005	
	Z(mm)	-	±0.005	±0.005	
	R(°)	-	-	±0.02	
Dimension	W*D*H(mm)	630×678×613	630×678×813	630×678×813	
Weight(kg)		62	67	71	
Drive type		Ball screw			
Motor		AC servo motor			
Power source(Note 2)	Voltage/Frequency	1Φ AC200V~AC230V, 50/60Hz, 800VA, 3.6A			
	Capacity	Max. 800VA			
Program input		Teaching Pendant(DX-U), PC(IBM compatible)			
Position data input		MDI(Manual Data Input), Direct teaching, Touch panel			
Motion control		PTP, CP(3dimensional straight line/circular arc interpolation)			
Program capacity(Note 3)	Point files	100 files			
	Points	1,000 points per file			
Serial communication		SERIAL COMMUNICATION RS232/RS422 : 9600bps ~ 115200bps / ETHERNET : 10/100Mb			
I/O(Input/Output)		Standard: 8(IN)/16(OUT), Extension(optional) : 24(IN)/32(OUT)			
Special function		3 dimensional palletizing, Pass&Turning motion, Teaching points shift, I/O parallel processing, R axis value compensation, Real time speed over ride			
PLC command		28			
PLC scanning time(ms)		5ms			
User memory capacity		2MB			
Operating ambient temperature/humidity		0~45°C/20~80%RH			
Storage ambient temperature/humidity		-15~60°C/10~90%RH			

(Note 1) Maximum payload is subject to change by the available speed and operating conditions

(Note 2) The power capacity is base on 3 axes and is subject to change by number of axis

(Note 3) Motion program and point can not exceed the user memory capacity

	DTR-SU2-44	DTR-SU2-4410	DTR-SU2-4410R	DTR-SU2-35	DTR-SU2-3510	DTR-SU2-3510R
	2	3	4	2	3	4
	400	400	400	300	300	300
	400	400	400	500	500	500
	-	100	100	-	100	100
	-	-	±360	-	-	-
	20	20	20	20	20	20
	20	8	4	20	8	10
	667	667	667	667	667	667
	-	333	333	-	333	333
	-	-	1800	-	-	1800
	±0.005	±0.005	±0.005	±0.005	±0.005	±0.005
	-	±0.005	±0.005	-	-	-
	-	-	±0.02	-	-	±360
	730×778×613	730×778×813	730×778×813	860×711×781	860×711×781	860×711×781
	70	75	79	70	75	70
	Ball screw					
	AC servo motor					
	1Φ AC200V~AC230V, 50/60Hz, 800VA, 3.6A					
	Max. 800VA					Max. 1000VA
	Teaching Pendant(DX-U), PC(IBM compatible)					
	MDI(Manual Data Input), Direct teaching, Touch panel					
	PTP, CP(3dimensional straight line/circular arc interpolation)					
	100 files					
	1,000 points per file					
	SERIAL COMMUNICATION RS232/RS422 : 9600bps ~ 115200bps / ETHERNET : 10/100Mb					
	Standard: 8(IN)/16(OUT), Extension(optional) : 24(IN)/32(OUT)					Standard: 24(IN)/32(OUT)
	3 dimensional palletizing, Pass&Turning motion, Teaching points shift, I/O parallel processing, R axis value compensation, Real time speed over ride					
	28					
	5ms					
	2MB					
	0~45°C/20~80%RH					
	-15~60°C/10~90%RH					

DTR-MU-2205

Desktop robot, 3axes(XYZ), Aluminum extrusion, Stepper motor & belt driven



Series

DTR

Type

MU

Stroke

2205

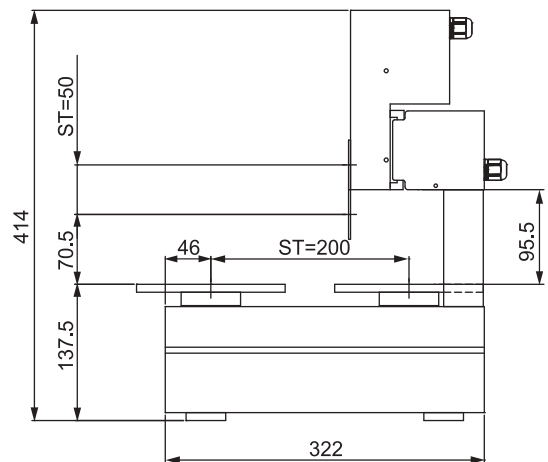
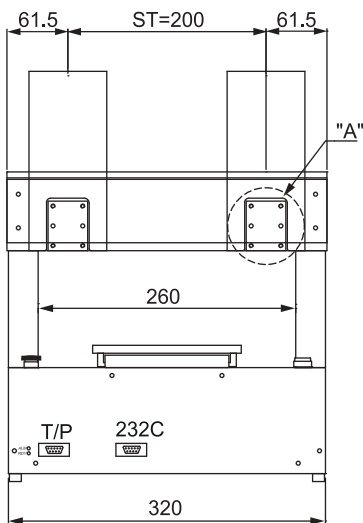
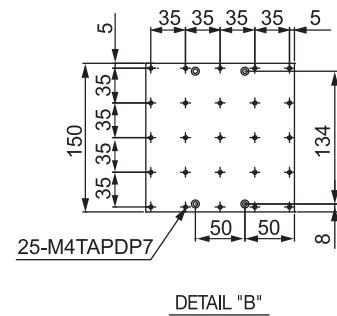
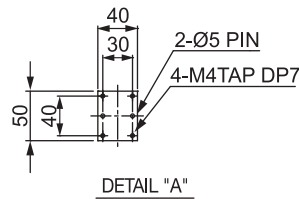
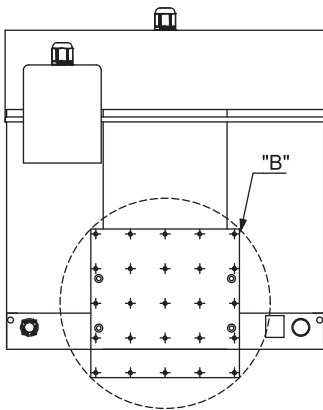
Basic specifications

Series	Axis	Stroke	Motor (A)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	200mm	2	500mm/s	±0.01mm	5	±0.05mm	±0.05mm	
	Y	200mm	2			-			
	Z	50mm	2	250mm/s	±0.01mm	2			
	R	-	-	-	-	-			

Common specifications

Drive Type	Timing belt	Body type	Aluminum. Extrusion type
Motor	2phase Stepper motor	Weight	15kg
Encoder type	-	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-MU-22

Desktop robot, 2axes(XY), Aluminum extrusion, Stepper motor & belt driven



Series: DTR - Type: MU - Stroke: 22 - Option1: E - Option2: 100

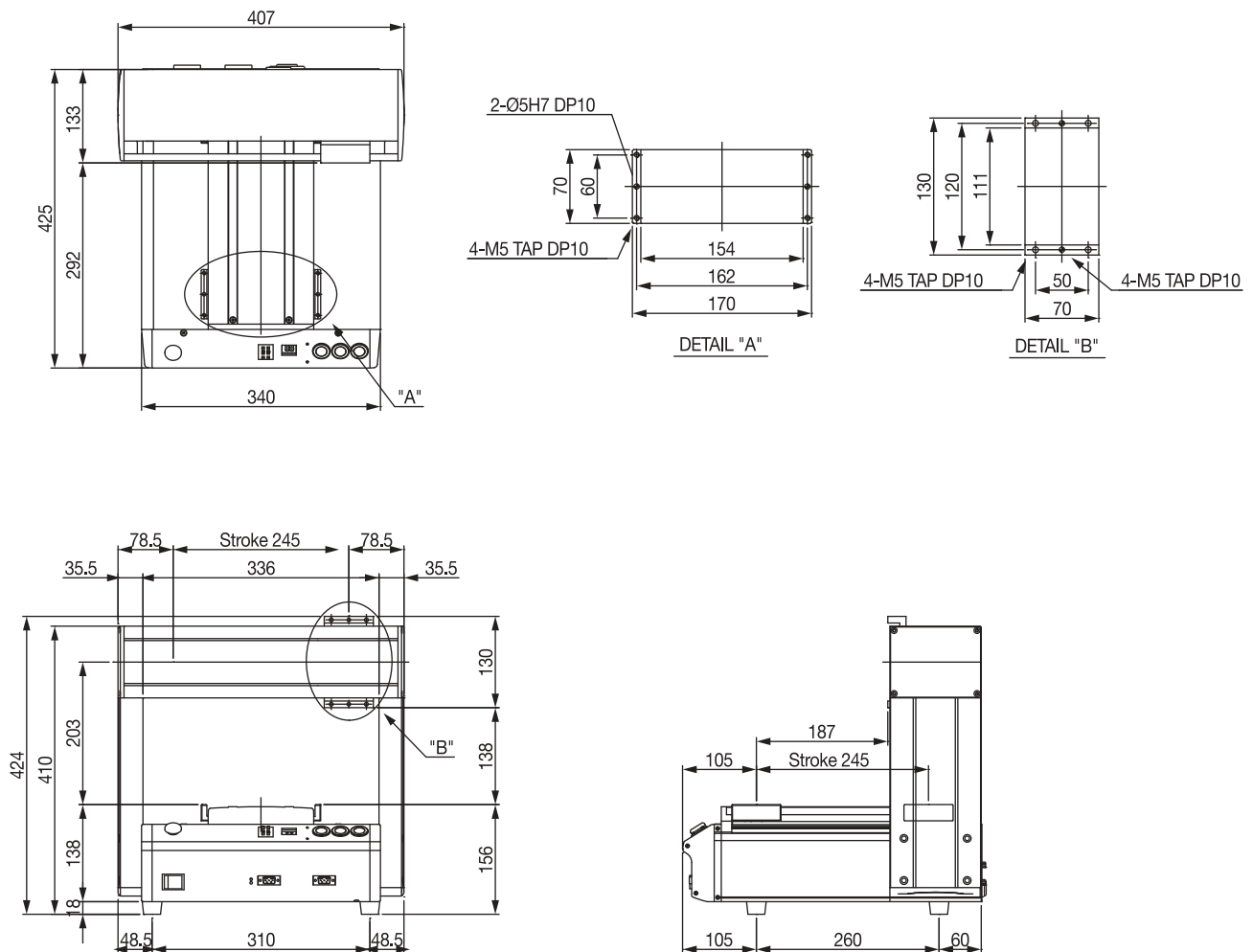
Basic specifications

Series	Axis	Stroke	Motor (A)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	245mm	2	600mm/s	± 0.01mm	15	± 0.05mm	± 0.05mm	
	Y	245mm	2			15			
	Z	-	-			-			
	R	-	-			-			

Common specifications

0.7pt	Timing belt	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	2phase Stepper motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	-	Weight	18kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-MU-2208

Desktop robot, 3axes(XYZ), Aluminum extrusion, Stepper motor & belt driven



Series: DTR - Type: MU - Stroke: 2208 - Option1: E - Option2: 100

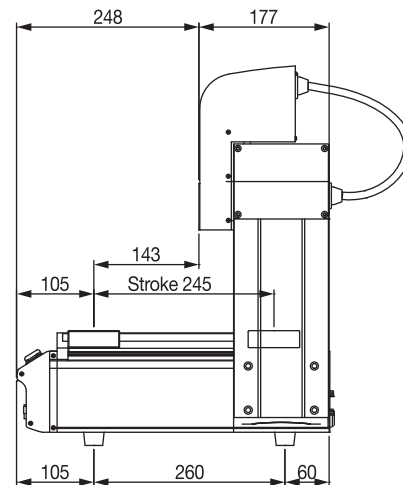
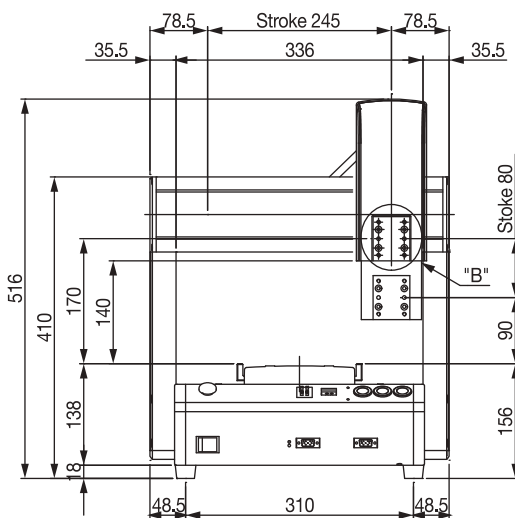
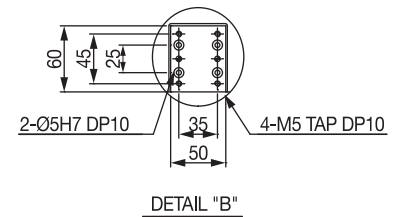
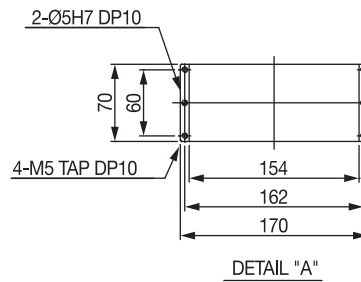
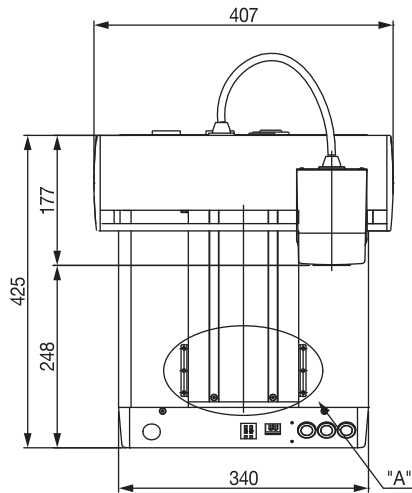
Basic specifications

Series	Axis	Stroke	Motor (A)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	245mm	2	600mm/s	±0.01mm	15	±0.05mm	±0.05mm	
	Y	245mm	2			-			
	Z	80mm	2	300mm/s	±0.01mm	6			
	R	-	-	-	-	-			

Common specifications

Drive Type	Timing belt	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	2phase Stepper motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	-	Weight	20kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-MU-2208R

Desktop robot, 4axes(XYZR), Aluminum extrusion, Stepper motor & belt driven



Series: DTR - Type: MU - Stroke: 2208R - Option1: E - Option2: 100

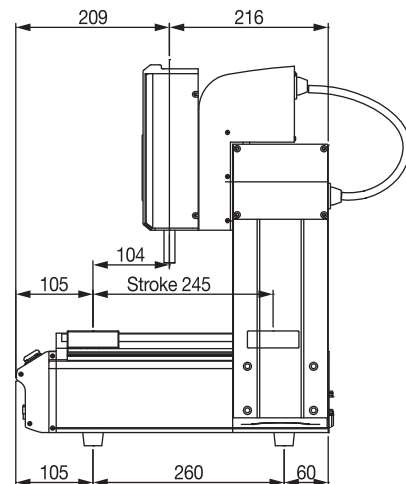
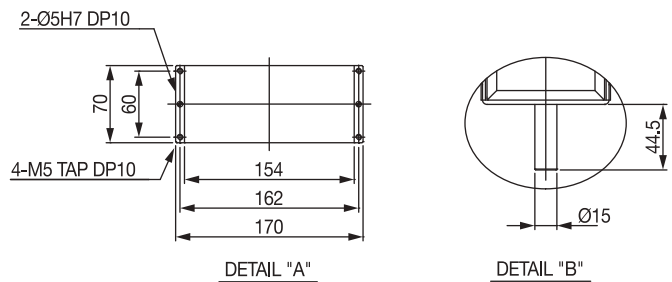
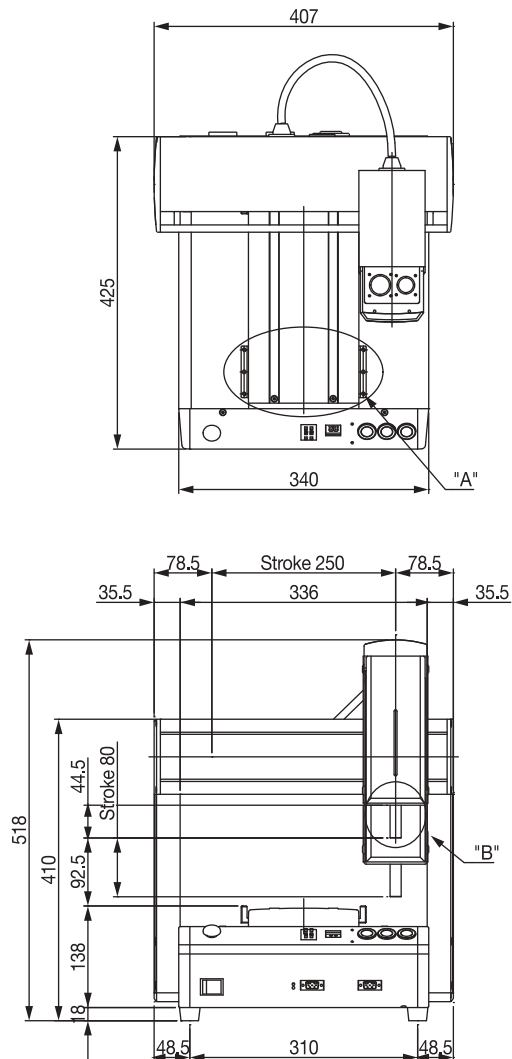
Basic specifications

Series	Axis	Stroke	Motor (A)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	245mm	2	600mm/s	± 0.01mm	15	± 0.05mm	± 0.05mm	
	Y	245mm	2			-			
	Z	80mm	2	300mm/s	± 0.01mm	-			
	R	± 360°	2	720°/s	± 0.02°	2			

Common specifications

Drive Type	Timing belt	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	2phase Stepper motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	-	Weight	23kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-MU-33

Desktop robot, 2axes(XY), Aluminum extrusion, Stepper motor & belt driven



Series: DTR - Type: MU - Stroke: 33 - Option1: E - Option2: 100

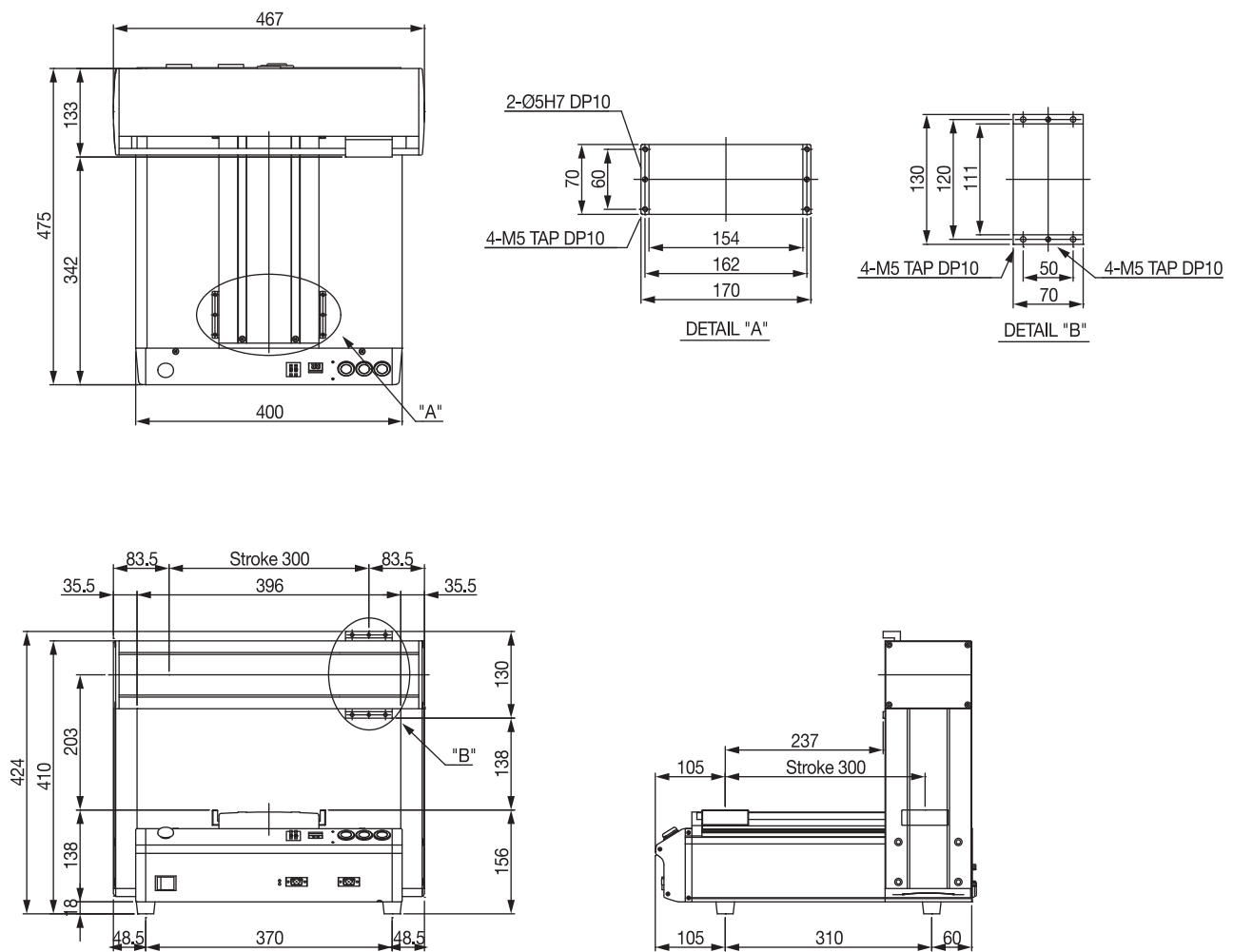
Basic specifications

Series	Axis	Stroke	Motor (A)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	300mm	2	600mm/s	±0.01mm	15	±0.05mm	±0.05mm	
	Y	300mm	2			15			
	Z	-	-			-			
	R	-	-			-			

Common specifications

Drive Type	Timing belt	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	2phase Stepper motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	-	Weight	25kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-MU-3308

Desktop robot, 3axes(XYZ), Aluminum extrusion, Stepper motor & belt driven



Series: DTR - Type: MU - Stroke: 3308 - Option1: E - Option2: 100

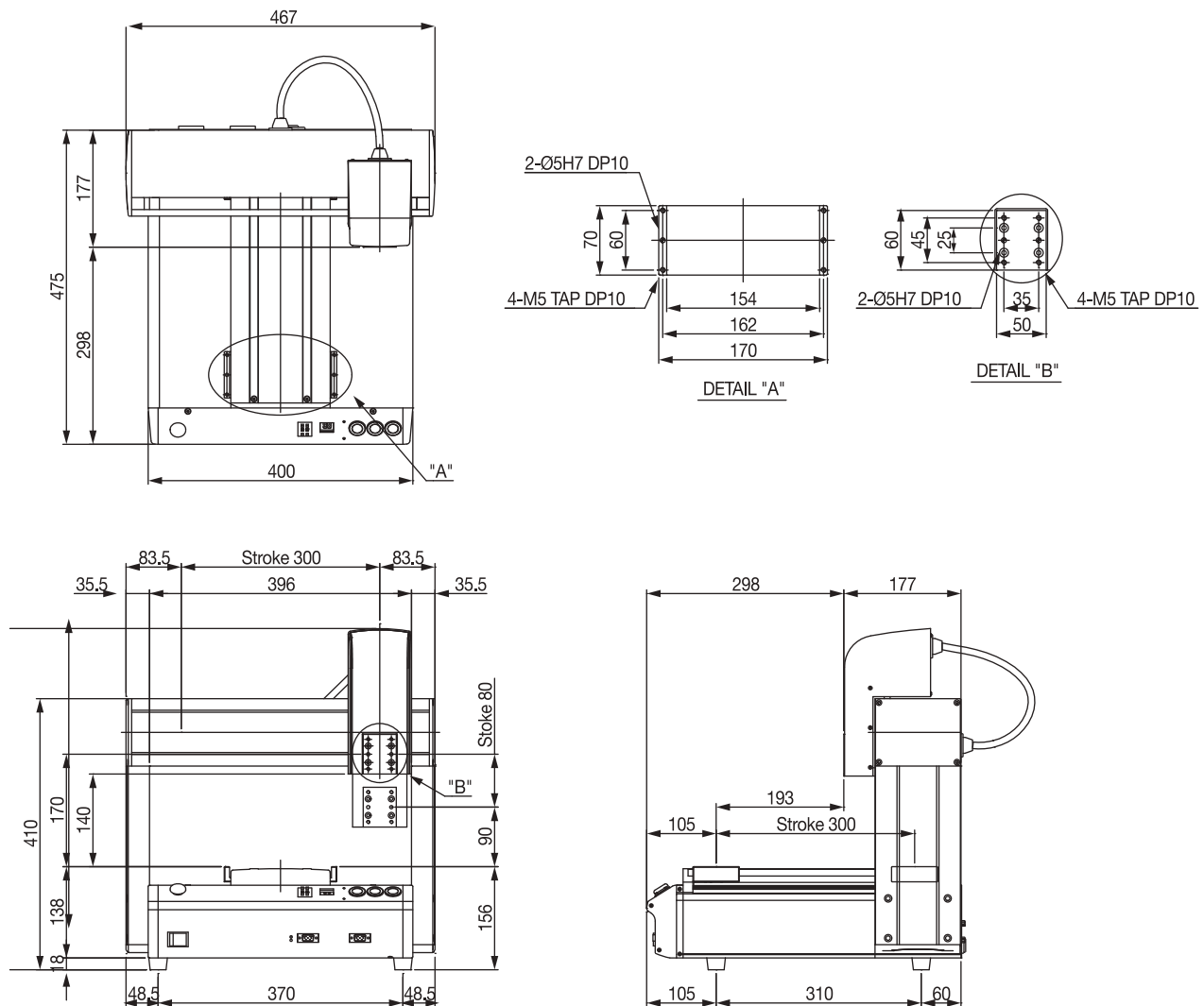
Basic specifications

Series	Axis	Stroke	Motor (A)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	300mm	2	600mm/s	± 0.01mm	15	± 0.05mm	± 0.05mm	
	Y	300mm	2			-			
	Z	80mm	2	300mm/s	± 0.01mm	6			
	R	-	-	-	-	-			

Common specifications

Drive Type	Timing belt	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	2phase Stepper motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	-	Weight	27kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-MU-3308R

Desktop robot, 4axes(XYZR), Aluminum extrusion, Stepper motor & belt driven



Series: DTR - Type: MU - Stroke: 3308R - Option1: E - Option2: 100

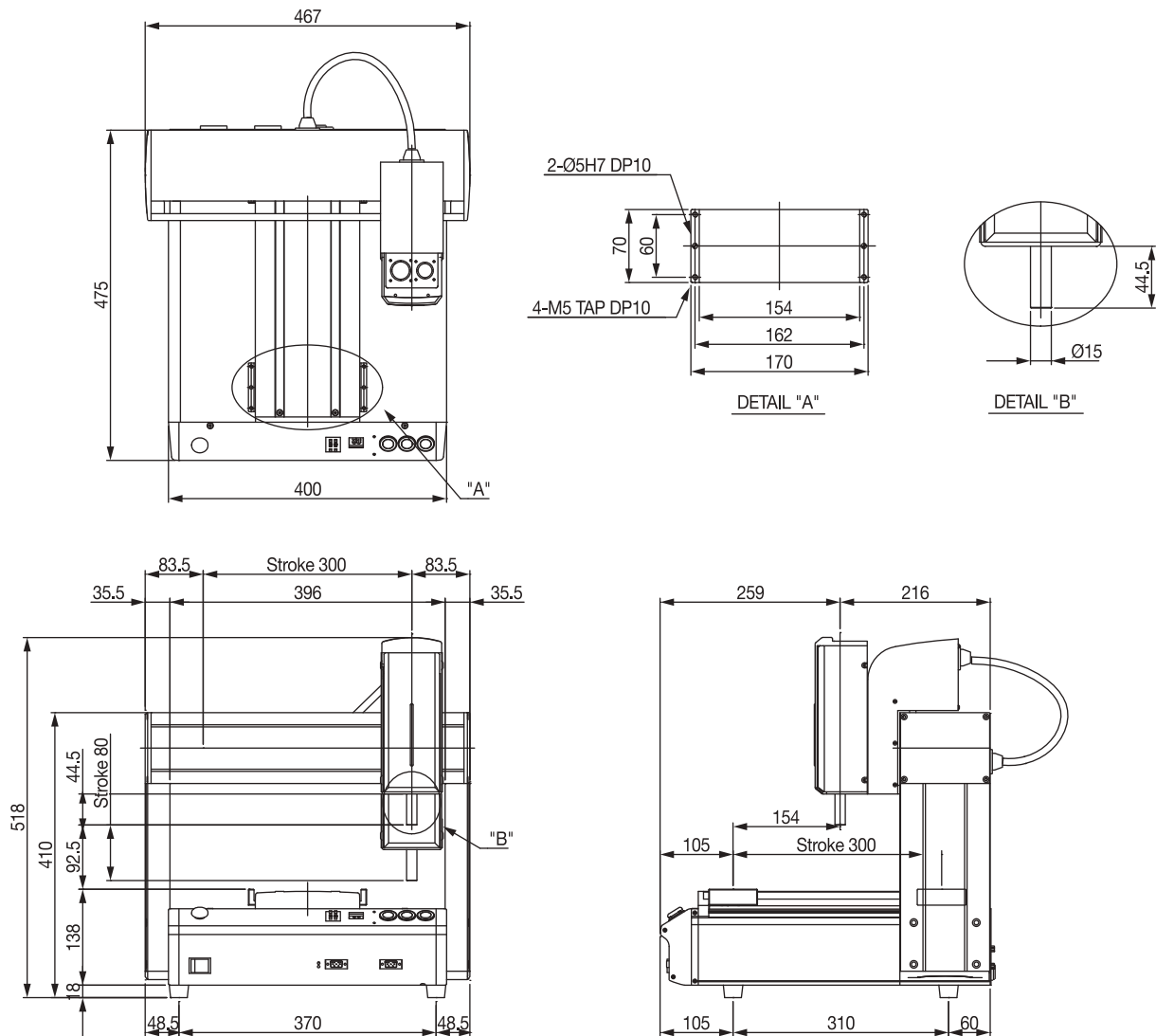
Basic specifications

Series	Axis	Stroke	Motor (A)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	300mm	2	600mm/s	± 0.01mm	15	± 0.05mm	± 0.05mm	
	Y	300mm	2			-			
	Z	80mm	2	300mm/s	± 0.01mm	-			
	R	± 360°	2	720 °/s	± 0.02°	2			

Common specifications

Drive Type	Timing belt	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	2phase Stepper motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	-	Weight	30kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-MU-44

Desktop robot, 2axes(XY), Aluminum extrusion, Stepper motor & belt driven



Series: DTR - Type: MU - Stroke: 44 - Option1: E - Option2: 100

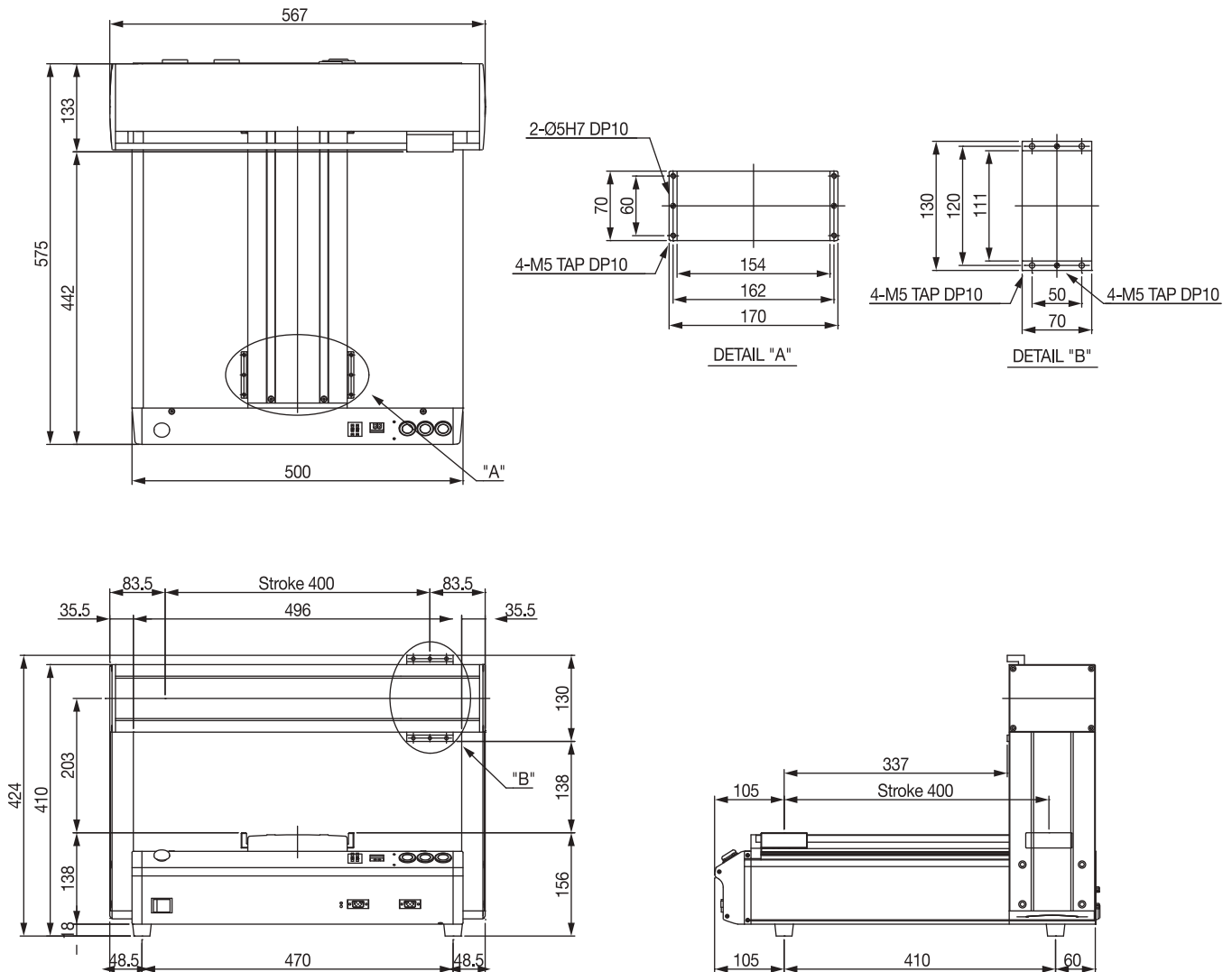
Basic specifications

Series	Axis	Stroke	Motor (A)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	400mm	2	600mm/s	± 0.01mm	15	± 0.05mm	± 0.05mm	
	Y	400mm	2			15			
	Z	-	-			-			
	R	-	-			-			

Common specifications

Drive Type	Timing belt	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	2phase Stepper motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	-	Weight	33kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

Desktop robot, 3axes(XYZ), Aluminum extrusion, Stepper motor & belt driven



Series	Type	Stroke	Option1	Option2
DTR	MU	4408	E	100

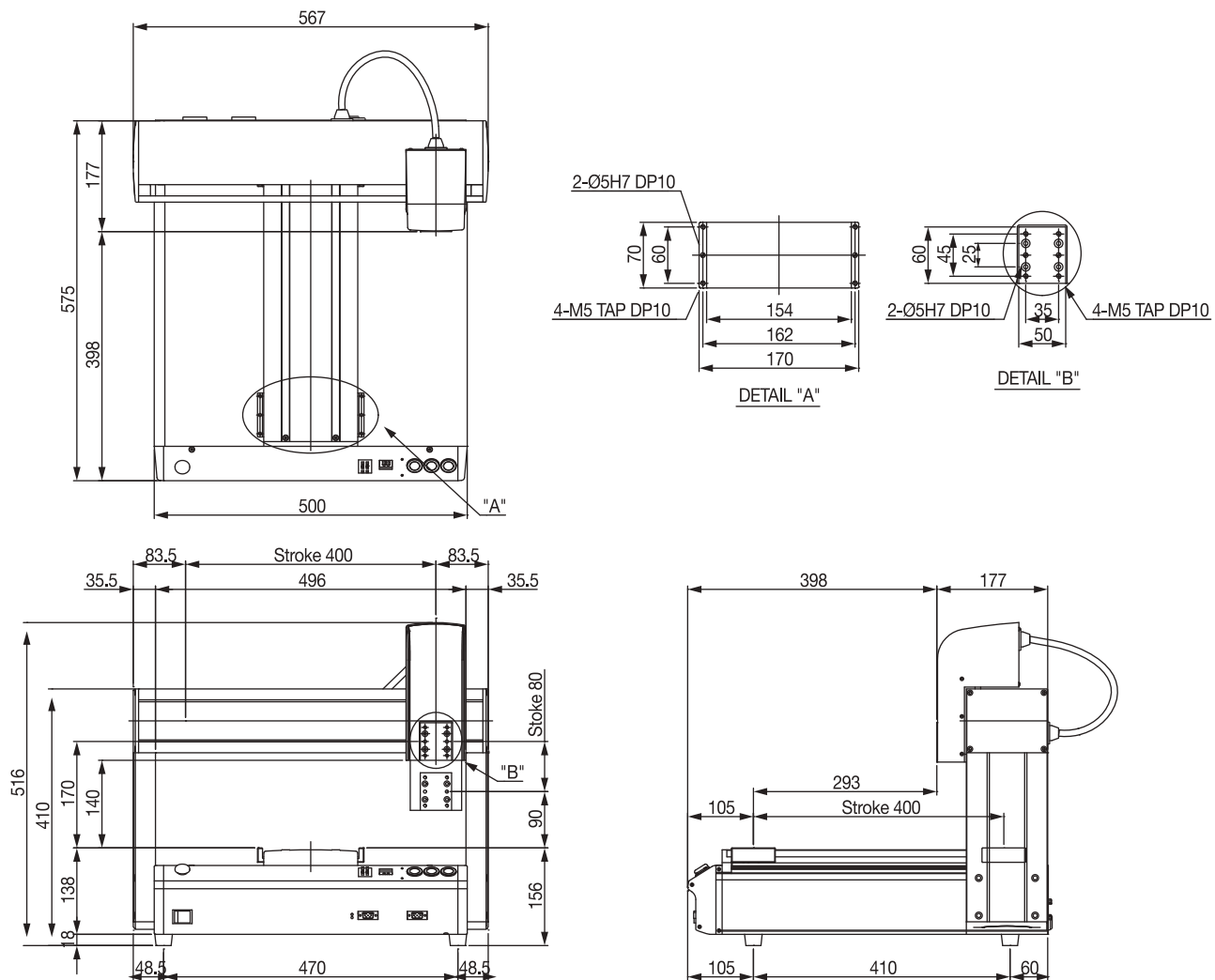
Basic specifications

Series	Axis	Stroke	Motor (A)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	400mm	2	600mm/s	± 0.01mm	15	± 0.05mm	± 0.05mm	
	Y	400mm	2		-				
	Z	80mm	2	300mm/s	± 0.01mm	6			
	R	-	-	-	-	-			

Common specifications

Drive Type	Timing belt	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	2phase Stepper motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	-	Weight	35kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-MU-4408R

Desktop robot, 4axes(XYZR), Aluminum extrusion, Stepper motor & belt driven



Series: DTR - Type: MU - Stroke: 4408R - Option1: E - Option2: 100

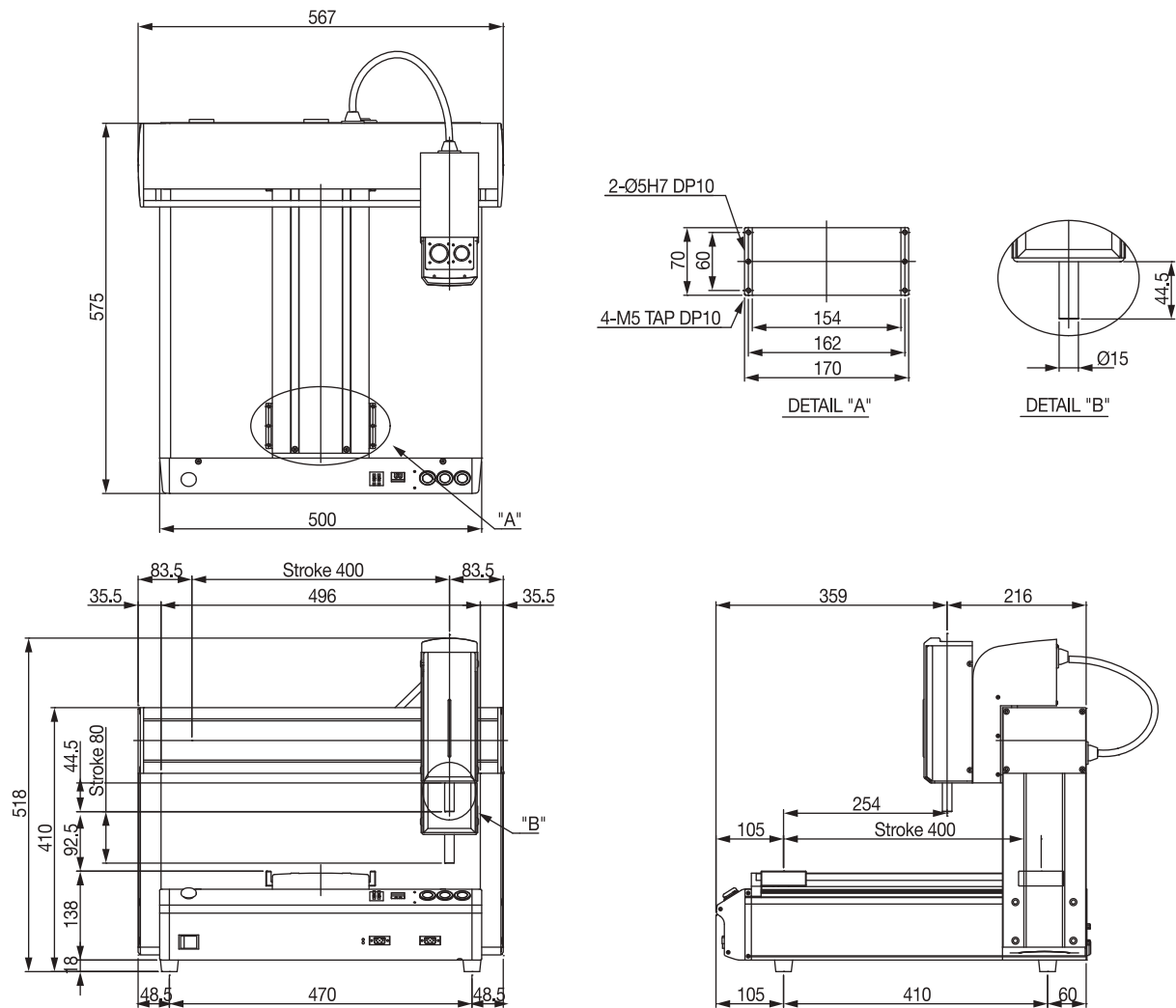
Basic specifications

Series	Axis	Stroke	Motor (A)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	400mm	2	600mm/s	± 0.01mm	15	± 0.05mm	± 0.05mm	
	Y	400mm	2			-			
	Z	80mm	2	300mm/s	± 0.01mm	-			
	R	± 360°	2	720 °/s	± 0.02°	2			

Common specifications

Drive Type	Timing belt	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	2phase Stepper motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	-	Weight	38kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-MU-35

Desktop robot, 3axes(X1X2Y), Aluminum extrusion, Stepper motor & belt driven



Series: DTR - Type: MU - Stroke: 35 - Option1: E - Option2: 100

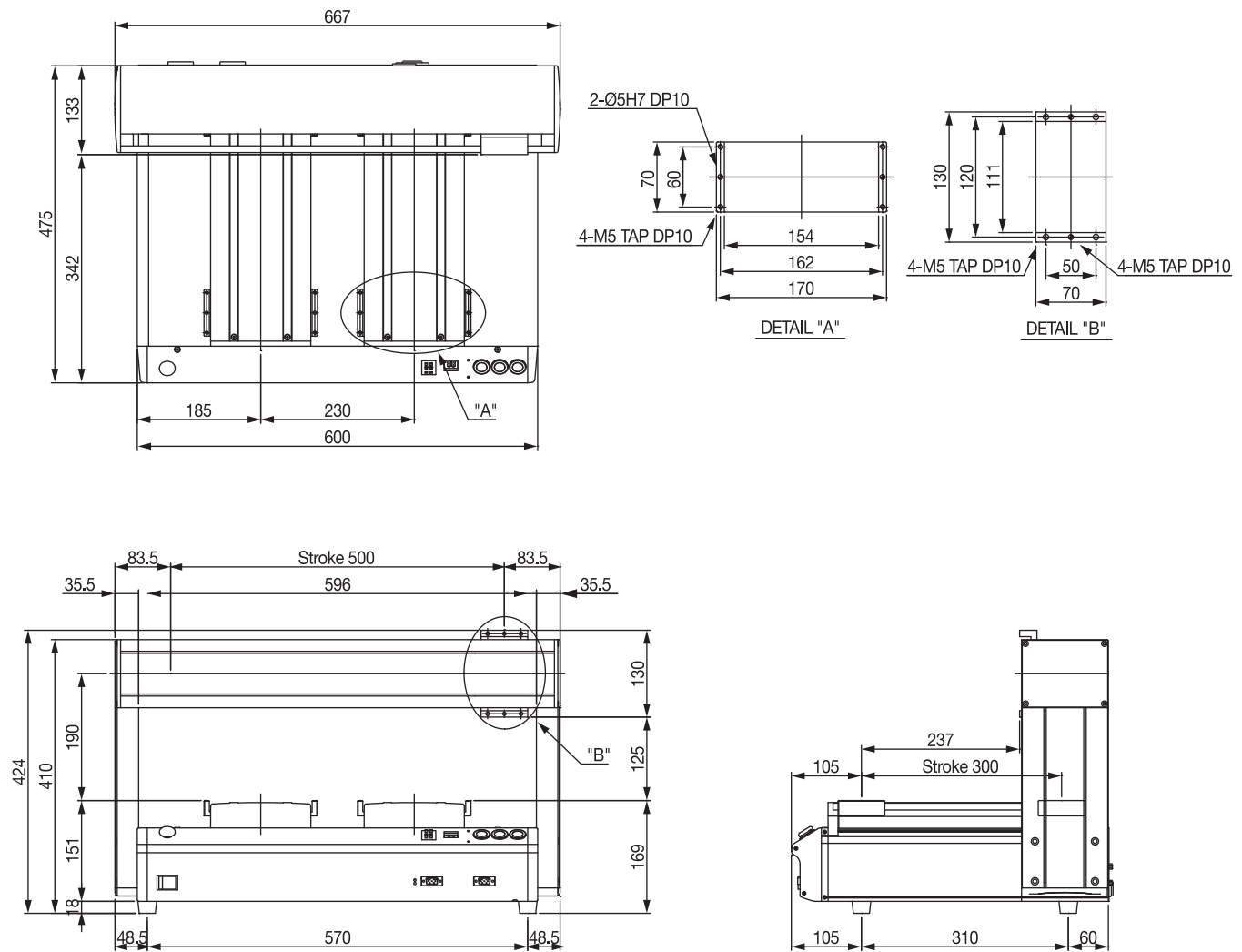
Basic specifications

Series	Axis	Stroke	Motor (A)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X1/X2	300mm	2	600mm/s	±0.01mm	10	±0.05mm	±0.05mm	
	Y	500mm	2			15			
	Z	-	-			-			
	R	-	-			-			

Common specifications

Drive Type	Timing belt	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	2phase Stepper motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	-	Weight	36kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

Desktop robot, 4axes(X1X2YZ), Aluminum extrusion, Stepper motor & belt driven



Series	Type	Stroke	Option1	Option2
DTR	MU	3508	E	100

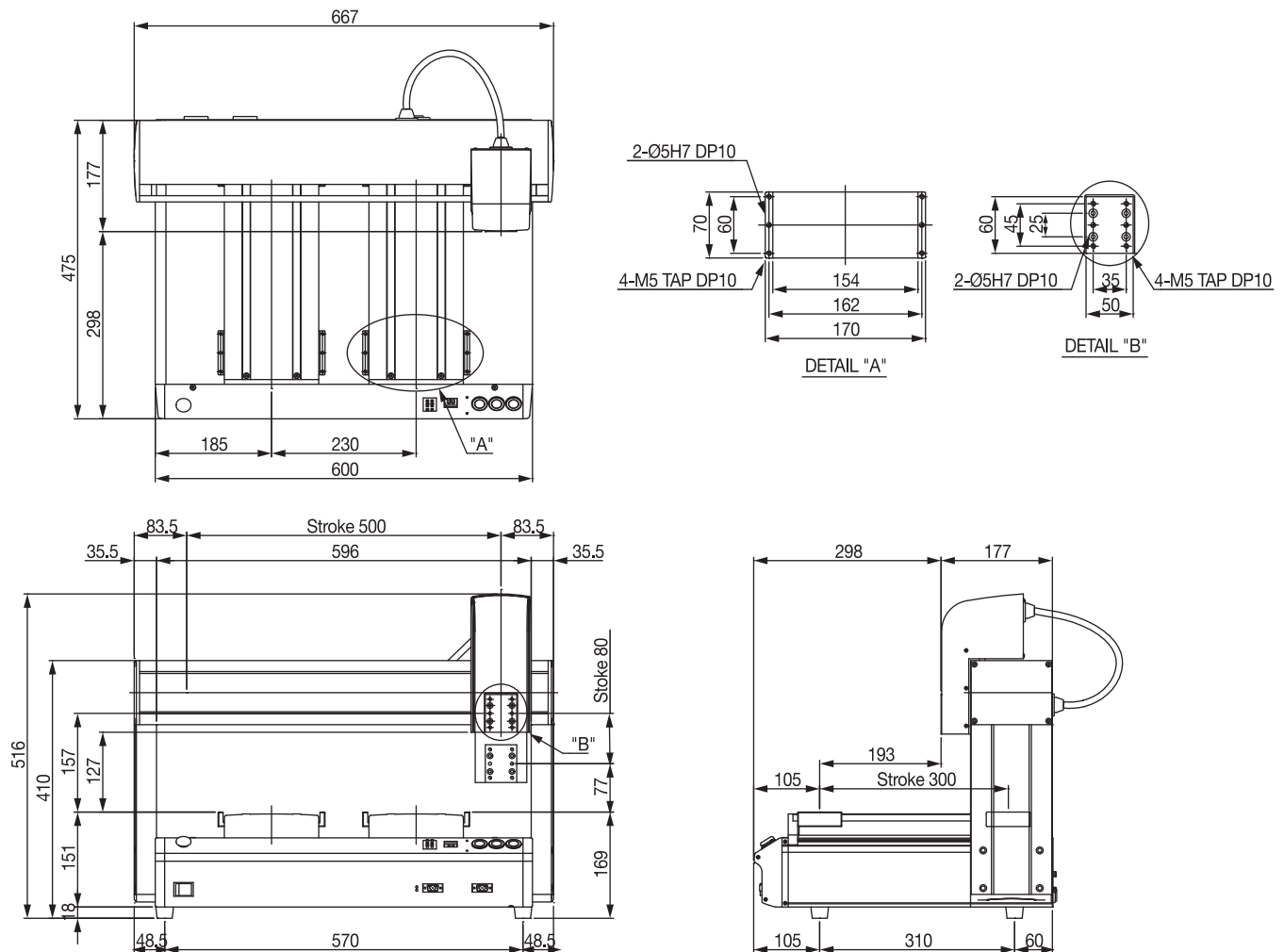
Basic specifications

Series	Axis	Stroke	Motor (A)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X1/X2	300mm	2	600mm/s	± 0.01mm	10	± 0.05mm	± 0.05mm	
	Y	500mm	2			-			
	Z	80mm	2	300mm/s	± 0.01mm	6			
	R	-	-	-	-	-			

Common specifications

Drive Type	Timing belt	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	2phase Stepper motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	-	Weight	38kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-SU2-33

Desktop robot, 2axes(XY), Aluminum extrusion, Servo motor & ball screw driven



Series: DTR - Type: SU2 - Stroke: 33 - Option1: E - Option2: 100

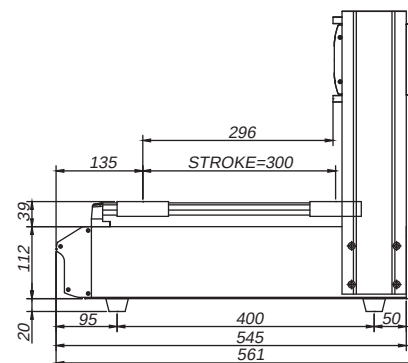
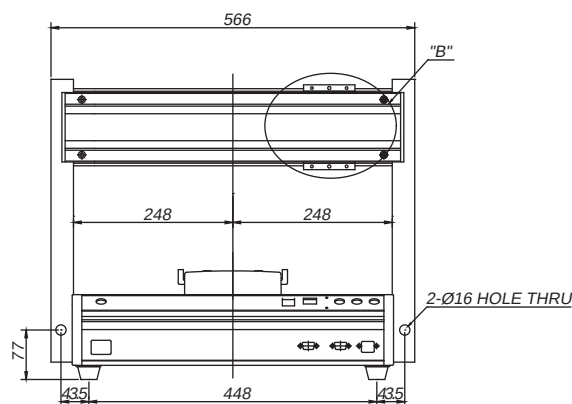
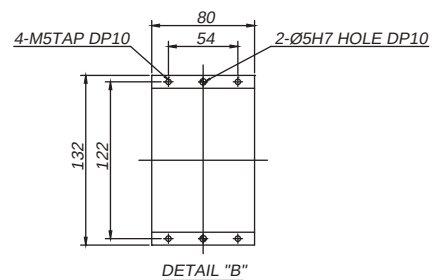
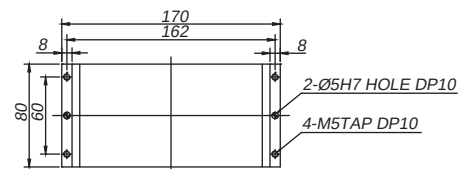
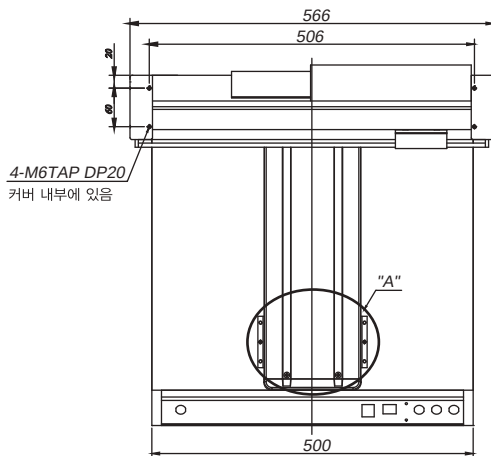
Basic specifications

Series	Axis	Stroke	Motor (W)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	300mm	100	667mm/s	± 0.005mm	20	± 0.03mm	± 0.03mm	
	Y	300mm	100			20			
	Z	-	-	-	-	-			
	R	-	-	-	-	-			

Common specifications

Drive Type	Ball screw	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	Servo motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	Incremental	Weight	62kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-SU2-3310

Desktop robot, 3axes(XYZ), Aluminum extrusion, Servo motor & ball screw driven



Series: DTR - Type: SU2 - Stroke: 3310 - Option1: E - Option2: 100

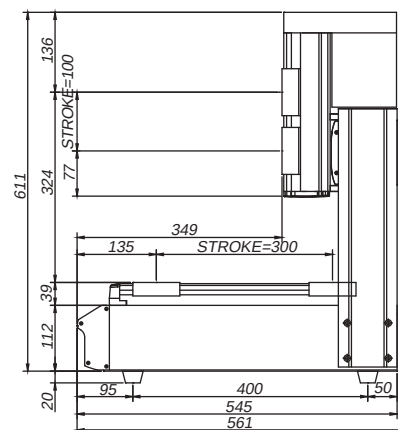
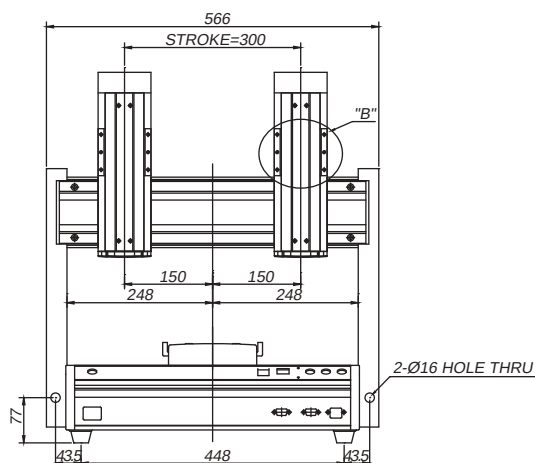
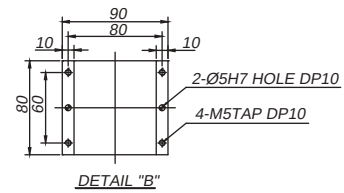
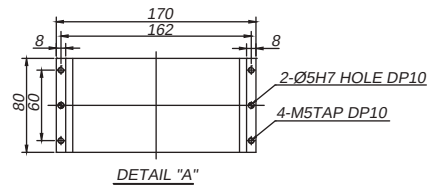
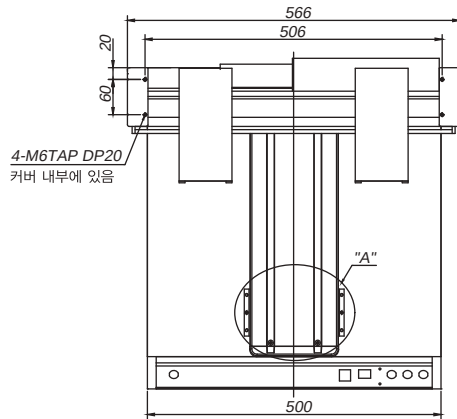
Basic specifications

Series	Axis	Stroke	Motor (W)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	300mm	100	667mm/s	± 0.005mm	20	± 0.03mm	± 0.03mm	
	Y	300mm	100			-			
	Z	100mm	100	333mm/s	± 0.005mm	8			
	R	-	-	-	-	-			

Common specifications

Drive Type	Ball screw	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	Servo motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	Incremental	Weight	67kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-SU2-3310R

Desktop robot, 4axes(XYZR), Aluminum extrusion, Servo motor & ball screw driven



Series: DTR - Type: SU2 - Stroke: 3310R - Option1: E - Option2: 100

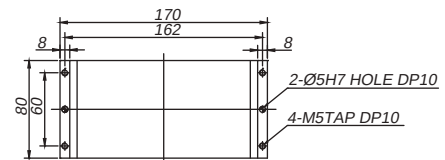
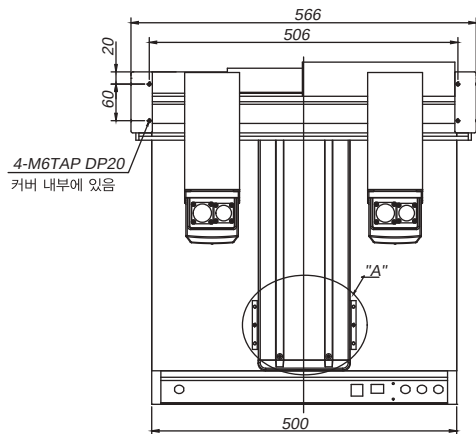
Basic specifications

Series	Axis	Stroke	Motor (W)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	300mm	100	667mm/s	± 0.005mm	20	± 0.03mm	± 0.03mm	
	Y	300mm	100			-			
	Z	100mm	100	333mm/s	± 0.005mm	-			
	R	± 360°	100	1800°/s	± 0.02°	4			

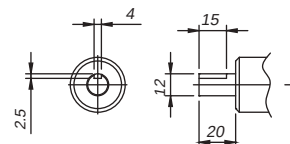
Common specifications

Drive Type	Ball screw	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	Servo motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	Incremental	Weight	71kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

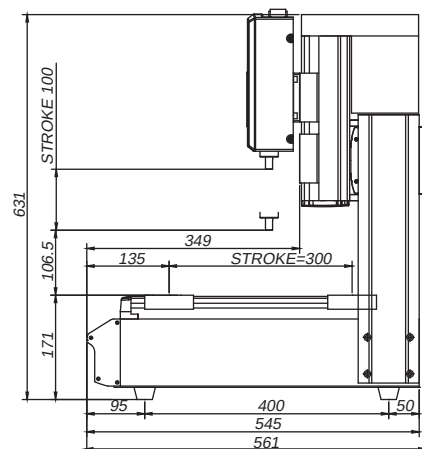
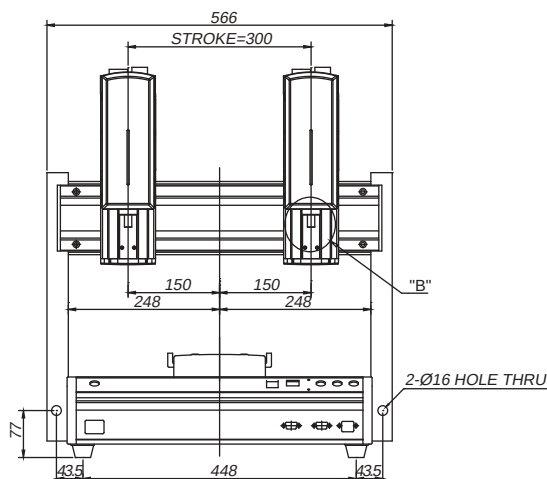
Dimension



DETAIL "A"



DETAIL "B"
(SCALE 1:3)



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-SU2-44

Desktop robot, 2axes(XY), Aluminum extrusion, Servo motor & ball screw driven



Series: DTR - Type: SU2 - Stroke: 44 - Option1: E - Option2: 100

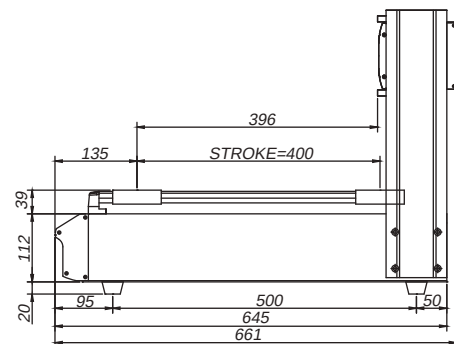
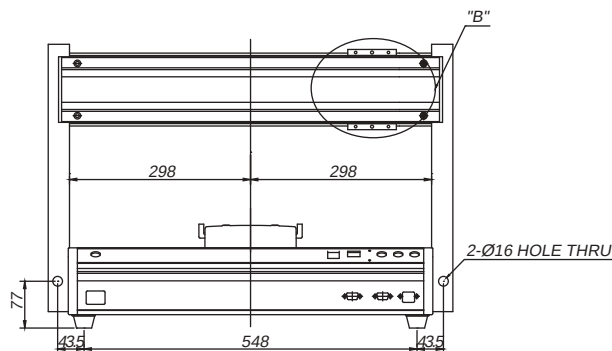
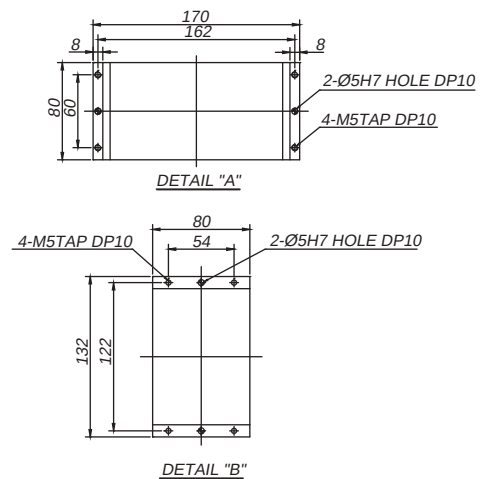
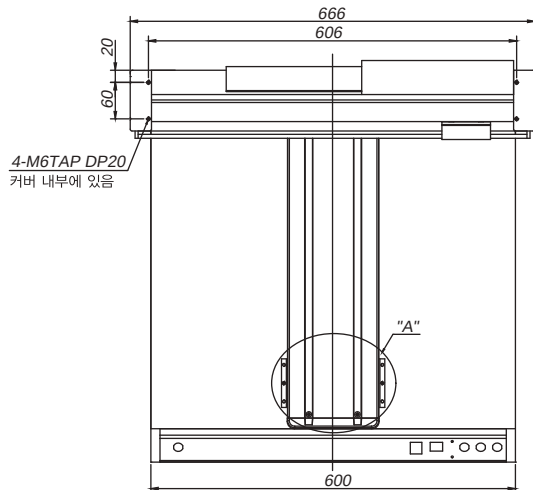
Basic specifications

Series	Axis	Stroke	Motor (W)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	400mm	100	667mm/s	± 0.005mm	20	± 0.03mm	± 0.03mm	
	Y	400mm	100			20			
	Z	-	-	-	-	-			
	R	-	-	-	-	-			

Common specifications

Drive Type	Ball screw	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	Servo motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	Incremental	Weight	70kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-SU2-4410

Desktop robot, 3axes(XYZ), Aluminum extrusion, Servo motor & ball screw driven



Series: DTR - Type: SU2 - Stroke: 4410 - Option1: E - Option2: 100

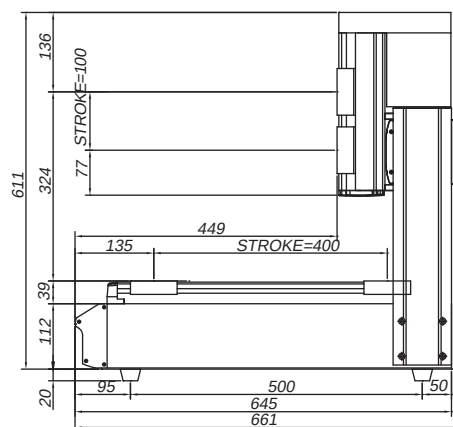
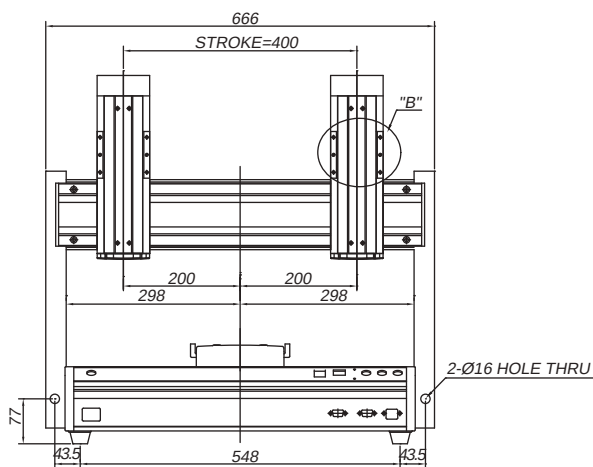
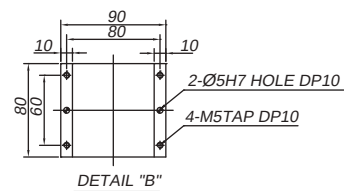
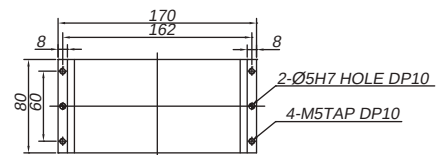
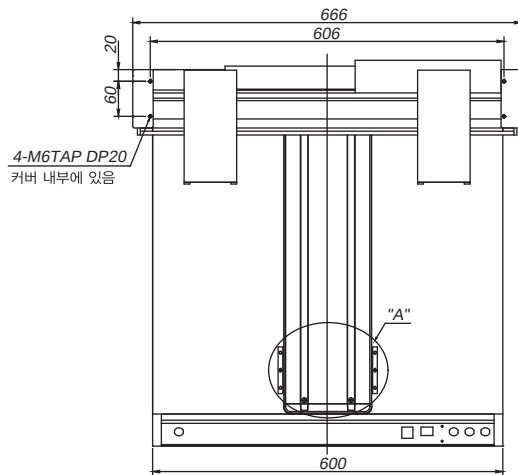
Basic specifications

Series	Axis	Stroke	Motor (W)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	400mm	100	667mm/s	± 0.005mm	20	± 0.03mm	± 0.03mm	
	Y	400mm	100			-			
	Z	100mm	100	333mm/s	± 0.005mm	8			
	R	-	-	-	-	-			

Common specifications

Drive Type	Ball screw	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	Servo motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	Incremental	Weight	75kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-SU2-4410R

Desktop robot, 4axes(XYZR), Aluminum extrusion, Servo motor & ball screw driven



Series: DTR - Type: SU2 - Stroke: 4410R - Option1: E - Option2: 100

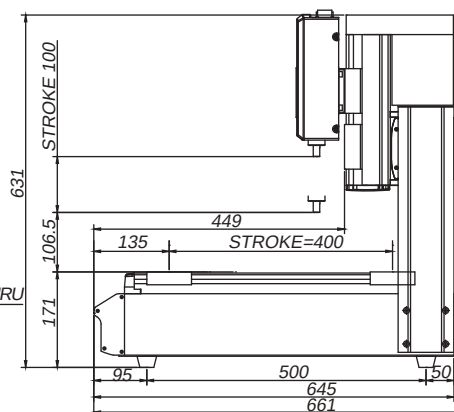
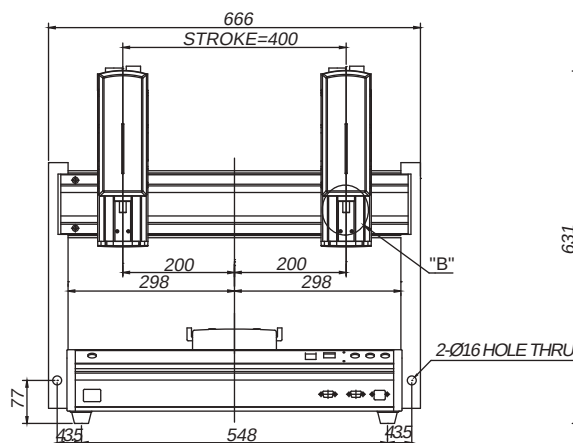
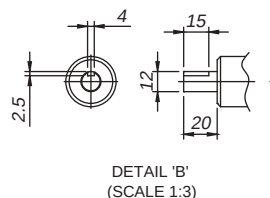
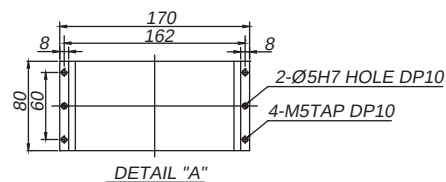
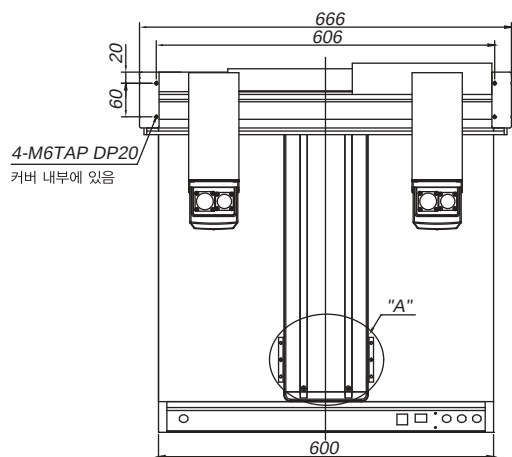
Basic specifications

Series	Axis	Stroke	Motor (W)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	400mm	100	667mm/s	± 0.005mm	20	± 0.03mm	± 0.03mm	
	Y	400mm	100			-			
	Z	100mm	100	333mm/s	± 0.005mm	-			
	R	± 360°	100	1800°/s	± 0.02°	4			

Common specifications

Drive Type	Ball screw	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	Servo motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	Incremental	Weight	71kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-SU2-35

Desktop robot, 2axes(XY), Aluminum extrusion, Servo motor & ball screw driven



Series: DTR - Type: SU2 - Stroke: 35 - Option1: E - Option2: 100

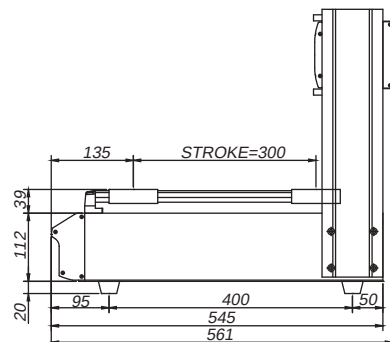
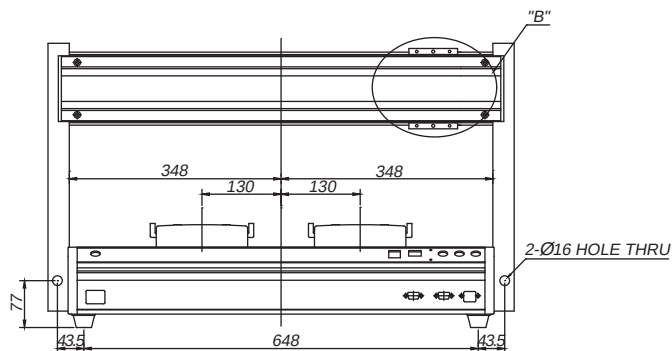
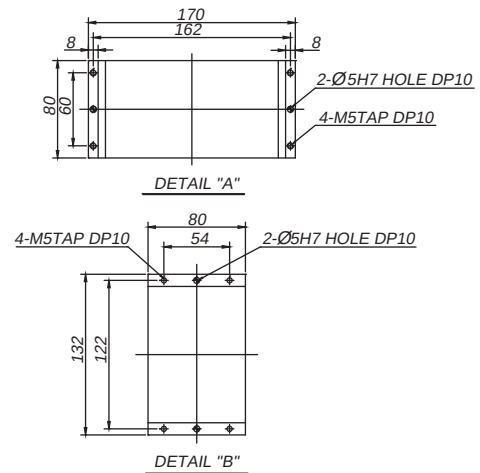
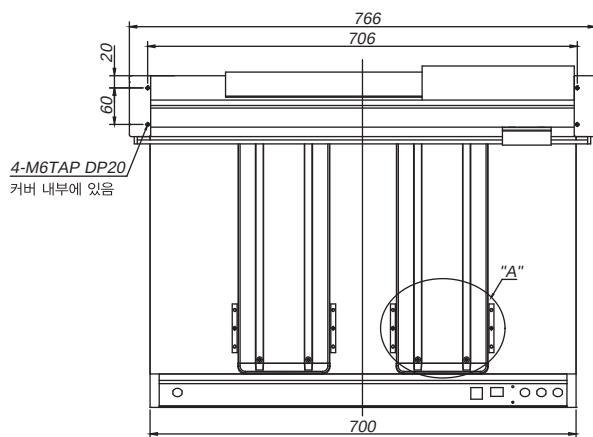
Basic specifications

Series	Axis	Stroke	Motor (W)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	300mm	100	667mm/s	± 0.005mm	20	± 0.03mm	± 0.03mm	
	Y	500mm	100			20			
	Z	-	-	-	-	-			
	R	-	-	-	-	-			

Common specifications

Drive Type	Ball screw	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	Servo motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	Incremental	Weight	70kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-SU2-3510

Desktop robot, 3axes(XYZ), Aluminum extrusion, Servo motor & ball screw driven



Series: DTR - Type: SU2 - Stroke: 3510 - Option1: E - Option2: 100

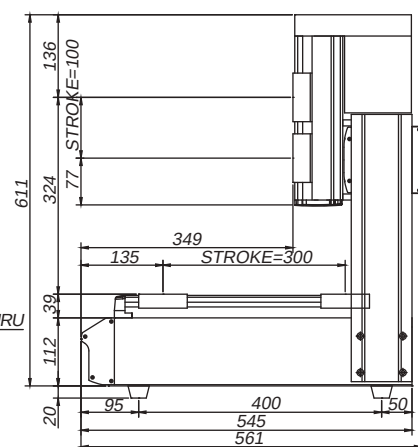
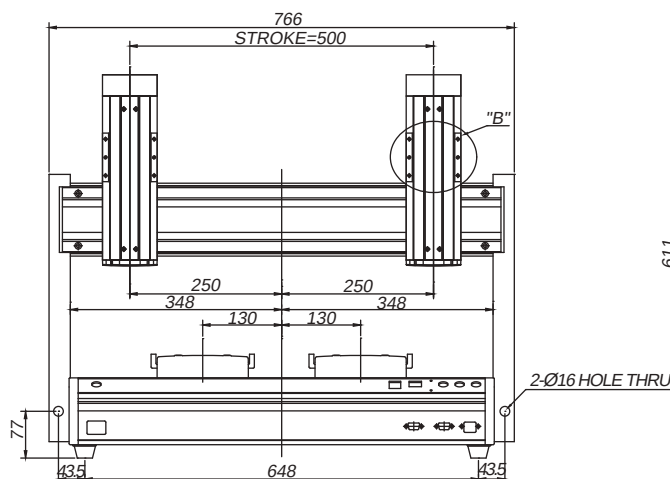
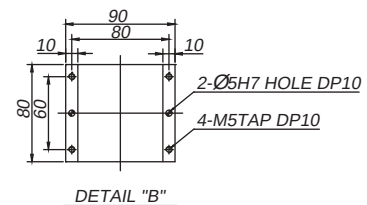
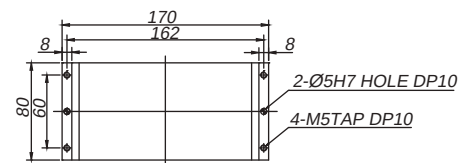
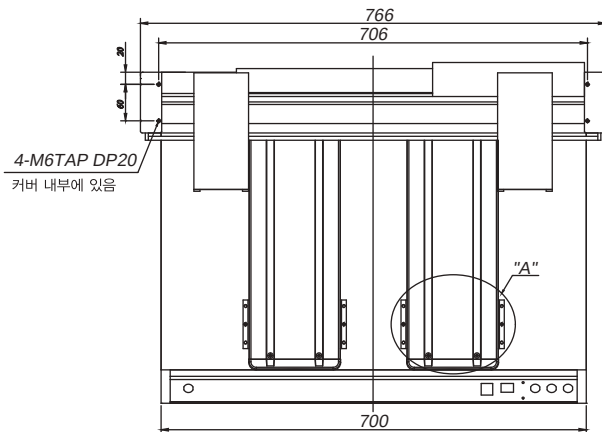
Basic specifications

Series	Axis	Stroke	Motor (W)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	300mm	100	667mm/s	± 0.005mm	20	± 0.03mm	± 0.03mm	
	Y	500mm	100			-			
	Z	100mm	100	333mm/s	± 0.005mm	8			
	R	-	-	-	-	-			

Common specifications

Drive Type	Ball screw	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	Servo motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	Incremental	Weight	75kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

Dimension



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC

DTR-SU2-3510R

Desktop robot, 4axes(XYZR), Aluminum extrusion, Servo motor & ball screw driven



Series Type Stroke Option1 Option2
DTR - SU2 - 3510R - E - 100

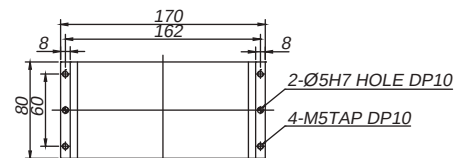
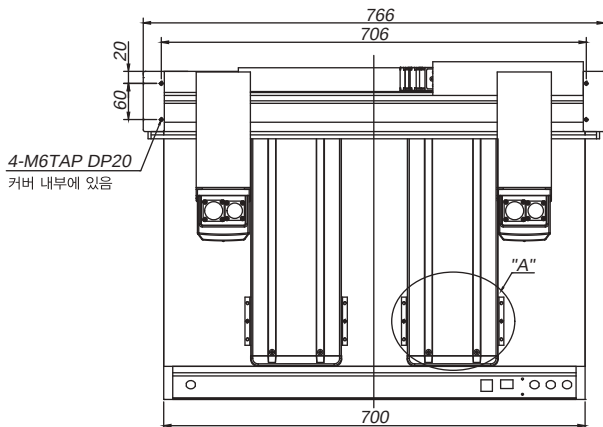
Basic specifications

Series	Axis	Stroke	Motor (W)	Maximum speed	Positioning Repeatability	Payload (kg)	Squareness (XY)	Parallelism (XY)	Note
DTR	X	300mm	100	667mm/s	± 0.005mm	20	± 0.03mm	± 0.03mm	
	Y	500mm	100			-			
	Z	100mm	100	333mm/s	± 0.005mm	-			
	R	± 360°	100	1800°/s	± 0.02°	4			

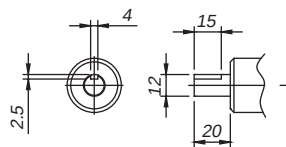
Common specifications

Drive Type	Ball screw	Option1- Input/Output	In 8 / Out 16, Extend In 24 / Out 32
Motor	Servo motor	Option2 - Pole height	Option : +50, +100, +150, +200mm
Encoder type	Incremental	Weight	71kg
Body type	Aluminum. Extrusion type	Environment	온도 0~45°C, 습도 20~85%RH 이하

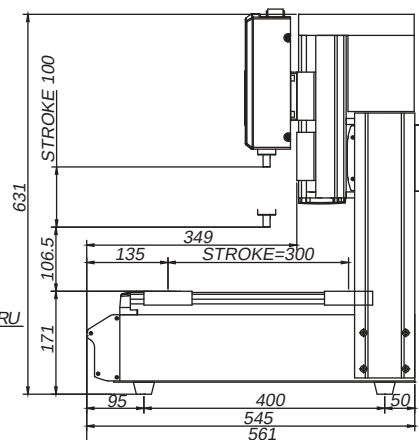
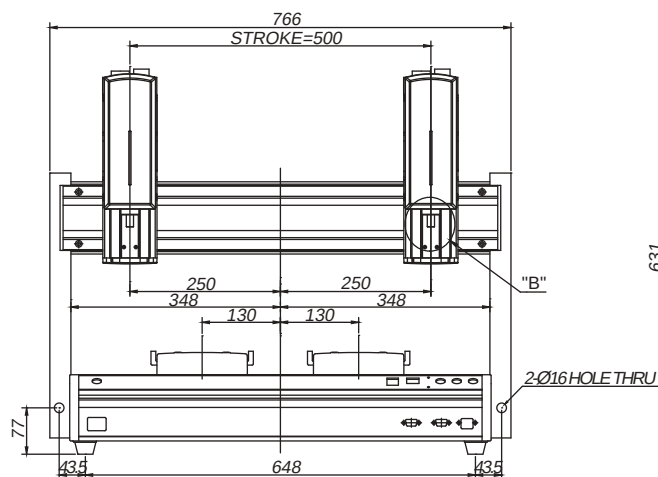
Dimension



DETAIL "A"

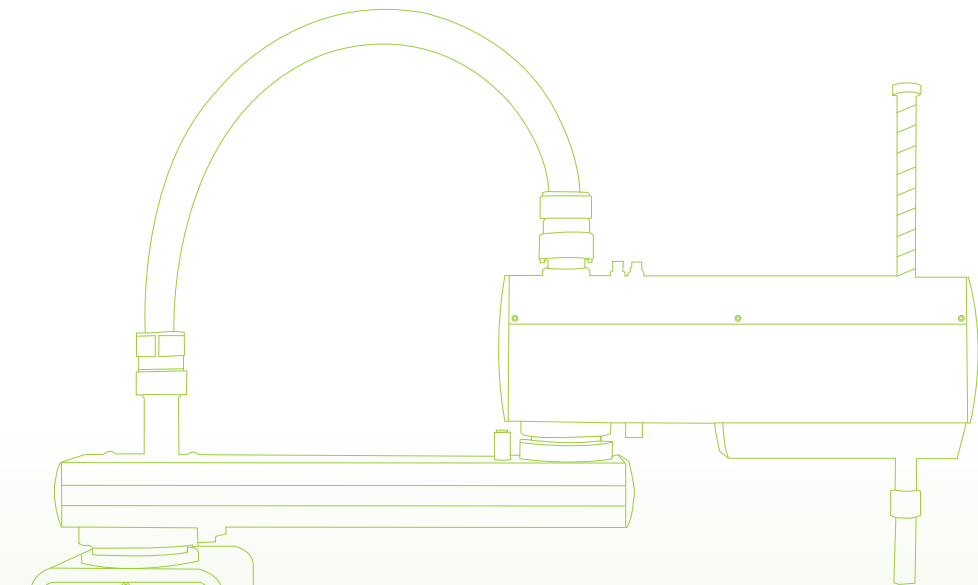


DETAIL "B"
(SCALE 1:3)



Applicable controllers

Controller	Rated voltage
iM-U	200~230VAC



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Feature

DSA series is SCARA.

This series provides various model range from 250mm to 1000mm in the arm length and up to 20kg in maximum payload.

It used absolute specification.

Standard and clean room/dust proof specifications are available.

Compact and rigid design

The DSA series enhanced rigidity in a light weight by comprising aluminum extruded material.

DSA-HNN series is capable of transferring high load up to 20kg.



Pursuing ease-of-use

The DSA series has standard user tubing and wiring.

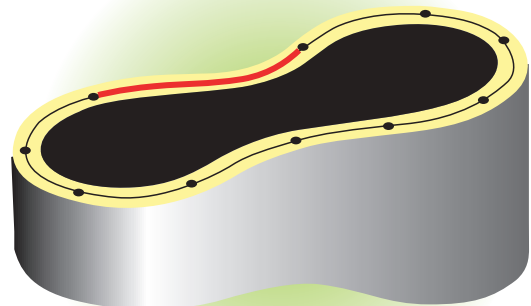
DSA-250/350/400 have the same air tubes as $\Phi 4 \times 3$ and 15 wires and DSA-500 and higher models have as $\Phi 6 \times 4$ and 15 wires



High performance of interpolation

The DSA series can perform three-dimensional arc/pass motions to allow for easy palletizing and dispensing.

The robot can also provide tool offset and R axis position compensation function



Ordering Model

①	②	③	④	⑤	⑥	⑦
Series	Arm length	Type1	Type2	Type3	Z Axis Stroke	Cable length
DSA	- 0600	- N	N	N	- 200	- 03

① Series

Name of the Series

DSA : Scara robot advanced

② Arm length

Arm length of A+B arm

(Ex : 0600 = 600mm)

③ Type1

Payload, speed

L : Payload 1kg, Normal speed

N : Payload 3kg, Normal speed

H : Payload 5kg, Normal speed

S : Payload 1kg, High speed

④ Type2

Robot mounting type

N : Floor mounting

⑤ Type3

Standard or Clean room specification

N : Standard specification

C : Clean Room specification

⑥ Z Axis Stroke

(Ex : 200 = 200mm)

⑦ Cable length

Cable length connecting the robot and controller

(Ex : 03 = 3m)

Model List

Series	Arm length(mm)	Type1	Type2	Type3	Z stroke	Cable length
DSA	0250	L	N	N	100 150	03 05 10
	0300					
	0350					
	0400					
	0500	N			200 300	
	0600					
	0600	H			200 300 400	
	0700					
	0800					
	0900					
	1000					
	0500	S			100 150	
	0600					

* Z axis of all models is using a brake motor

DSA series Note

SCARA

(Note 1) Motor

The motor of Z axis of every model is applied a brake motor
전 모델 Z축은 Brake motor가 적용되었습니다.

(Note 2) Maximum speed

The maximum speed represents the speed of PTP command operation, AB is composited speed.
This is the value at a constant ambient temperature(A, B arms)
최대 속도는 PTP 이동 시 속도를 나타냅니다. 1,2 arm축 합성 속도로 나타나며, 일정한 온도 및 습도 환경에서의 값입니다.

(Note 3) Positioning repeatability

This repeatability is not the "positioning accuracy" It refers to the positioning accuracy
of repeated movements to a pre-stored position.
반복정밀도는 '절대 위치 정밀도'가 아닙니다. 반복정밀도는 기 저장된 위치에 대한 반복된 이동의 위치 정밀도를 말합니다.

(Note 4) Standard cycle time

It refers to the time required to cycle one-way over a vertical distance 25mm and horizontal distance 300mm
The specified cycle time is based on the rated payload (rough positioning)
표준 Cycle time은 수평간 거리가 300mm, 수직간 거리가 25mm의 거리를 편도운행 했을 때 소요되는 시간을 나타낸 것이며,
정격 가반하중을 기준으로 한 것입니다.

(Note 5) R axis allowable moment Inertia

This indicates the allowable inertial moment of R axis of the SCARA as calculated at the center of rotation.
The offset from the center of R axis to the tool gravity center must be within 40mm.
R축 허용 관성 모멘트는 회전 축 중심에서 계산된 것입니다.
R축 중심에서 Tool 중량 중심까지의 offset은 반드시 40mm이내여야 합니다.

(Note 6) Cable length

The motor and encoder cables of the SCARA are directly connected to the robot.
Cable length of 3m is standard and selectable 5m/10m as the desired cable length when ordering.
SCARA 로봇의 모터 및 엔코더 케이블은 로봇에 직접 연결됩니다.
케이블 표준 길이는 3m이며 주문 시 5m/10m 길이도 가능합니다.

(Note 7) Cleanliness

It confirms class 10 with 0.1μm per 1 cfm when the suction blower is used.
It is subject to change of the operating conditions and running environment of robots
Suction 사용 상태에서 1cfm 당 0.1μm 크기에 대해서 clean도 10을 보증합니다.
이는 로봇의 사용 환경이나 운용 조건에 따라 달라질 수 있습니다.

(Note 8) Suction volume

"Suction volume" with 60 liter per minute is required to confirm cleanliness class 10
Clean도 10을 유지하기 위해서는 최소한 분당 60리터의 흡입량이 필요합니다.

DSA-0250-LNN		SCARA, Standard specification, Arm length 250mm(100 / 150) Z axis stroke 100mm, 150mm				
Series	Arm length	Type	Z axis stroke	Cable length		
DSA	- 0250	- LNN	- 150	- 3		



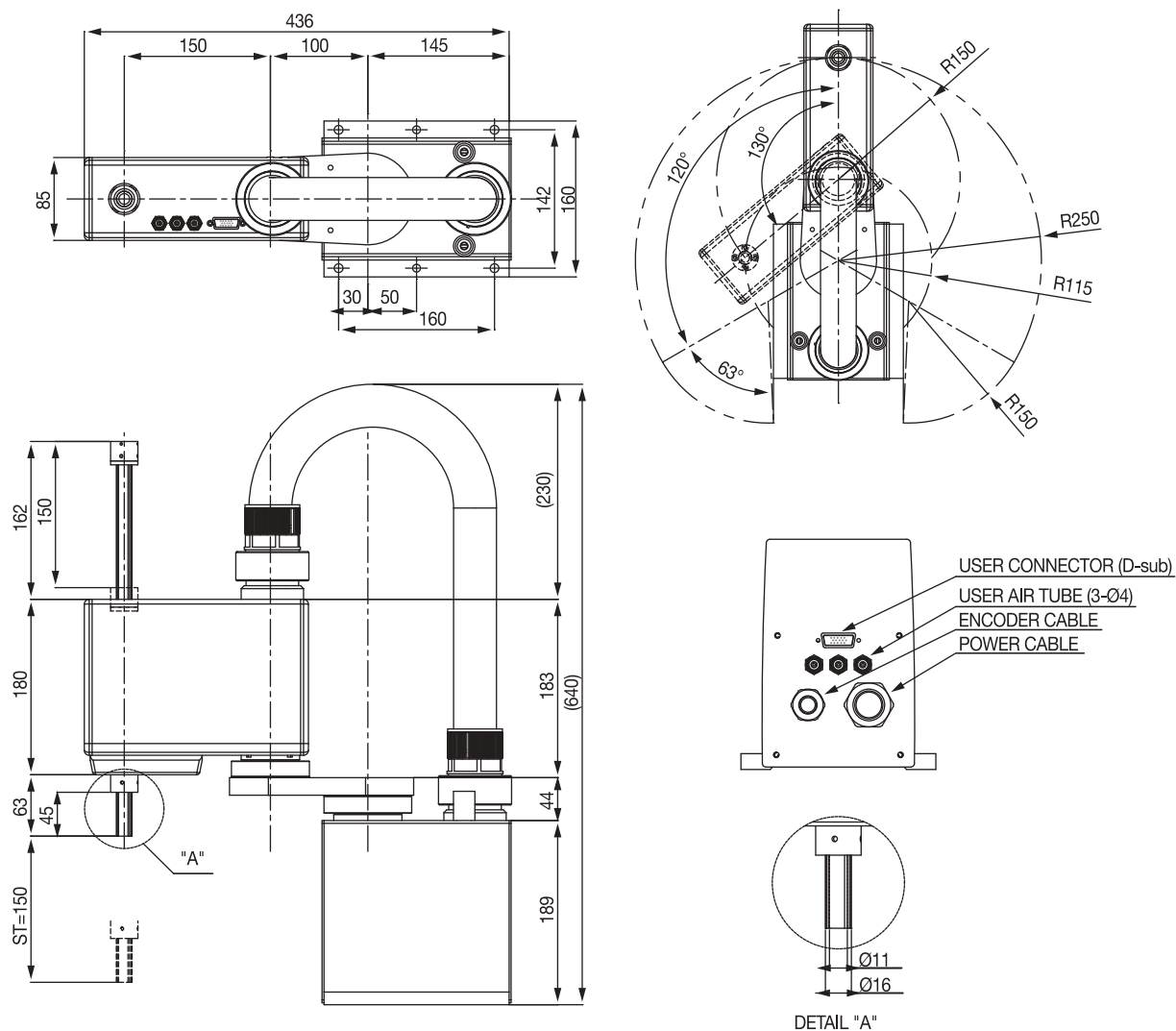
Basic specifications

SERIES	Axis		Arm length (mm)	Work range	Motor (w)	Maximum speed	Positioning Repeatability (+/-mm)	Standard Cycle time (s)	Payload(kg)		R axis allowable moment inertia (kg·m2)
									Rated	Maximum	
DSA	1Axis	1 Arm	100	+/-120°	200	3351mm/s	+/-0.01	0.48	1	3	0.015
	2Axis	2 Arm	150	+/-130°	100						
	3Axis	Vertical	-	150(100)mm	100	960mm/s	+/-0.01				
	4Axis	Rotating	-	+/-360°	50	1600°/s	+/-0.01				

Common specifications

Encoder Type	Absolute encoder	Z axis stroke	Standard 150mm, Option: 100mm
User wiring	0.2sqx15 wires / D-sub 15pin	Cable length(Note6)	Standard 3m, Option: 5m,10m
User tubing	ø4x3	Weight	13kg
Environment	온도 0~40°C, 습도 20~85%RH 이하		

Dimension



Applicable controllers

Controller	Rated voltage	Page
iM-LJ	200~230VAC	206

Note

Refer to the page 163 for the detail explanations of (Note1) to (Note6)

DSA-0300-LNN		SCARA, Standard specification, Arm length 300mm(150 / 150) Z axis stroke 100mm, 150mm		
Series	Arm length	Type	Z axis stroke	
DSA	- 0300	- LNN	- 150	- 3



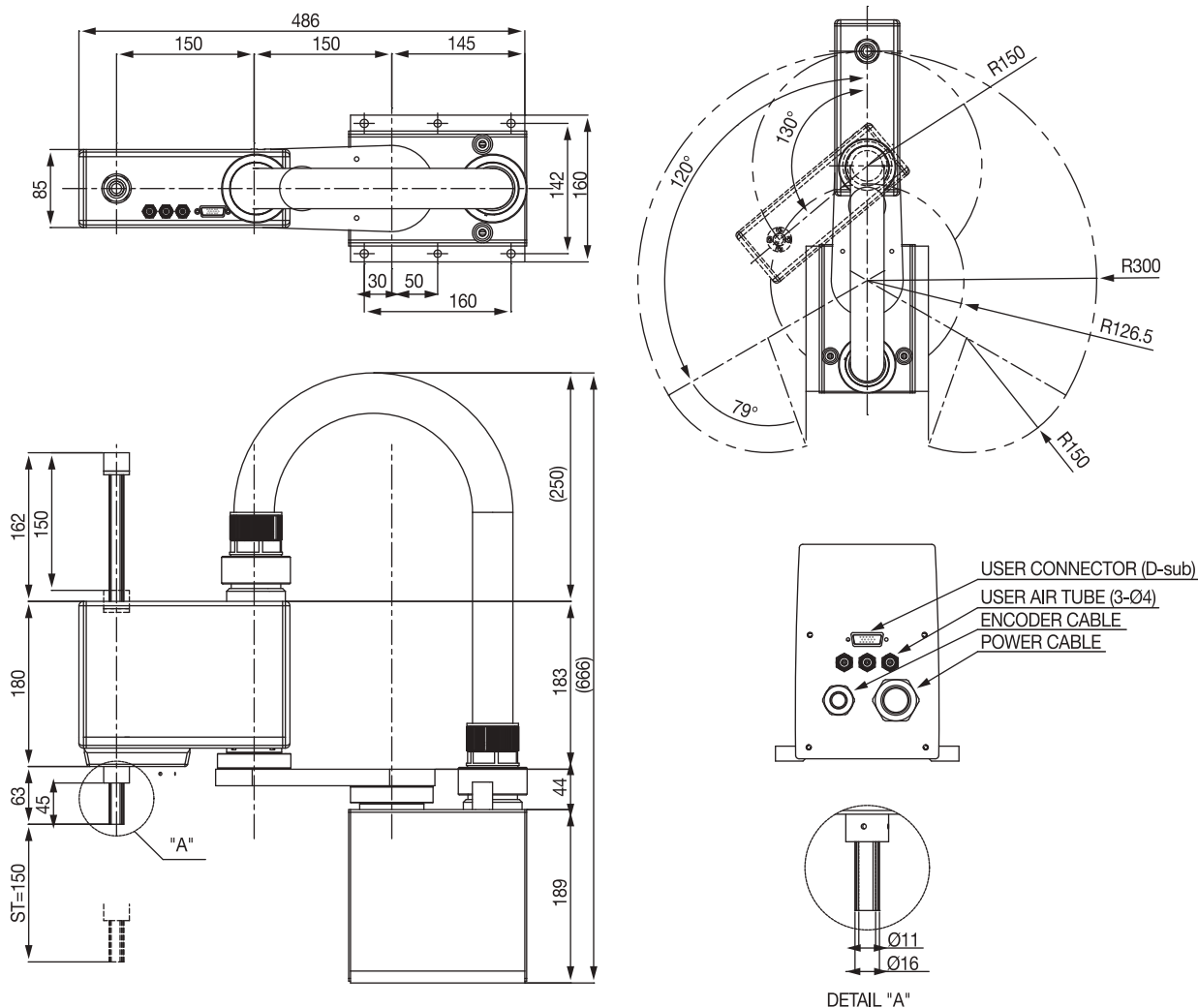
Basic specifications

SERIES	Axis		Arm length (mm)	Work range	Motor (w)	Maximum speed	Positioning Repeatability (+/-mm)	Standard Cycle time (s)	Payload(kg)		R axis allowable moment inertia (kg.m2)
									Rated	Maximum	
DSA	1Axis	1 Arm	150	+/-120°	200	3770mm/s	+/-0.01	0.50	1	3	0.015
	2Axis	2 Arm	150	+/-130°	100						
	3Axis	Vertical	-	150(100)mm	100	960mm/s	+/-0.01				
	4Axis	Rotating	-	+/-360°	50	1600°/s	+/-0.01				

Common specifications

Encoder Type	Absolute encoder	Z axis stroke	Standard 150mm, Option: 100mm
User wiring	0.2sqx15 wires / D-sub 15pin	Cable length(Note6)	Standard 3m, Option: 5m,10m
User tubing	ø4x3	Weight	14kg
Environment	온도 0~40°C, 습도 20~85%RH 이하		

Dimension



Applicable controllers

Controller	Rated voltage	Page
iM-11	200~230VAC	206

Note

Refer to the page 163 for the detail explanations of (Note1) to (Note6)

DSA-0350-LNN

SCARA, Standard specification, Arm length 350mm(200 / 150)
Z axis stroke 100mm, 150mm



Series: DSA - Arm length: 0350 - Type: LNN - Z axis stroke: 150 - Cable length: 3

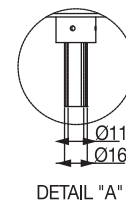
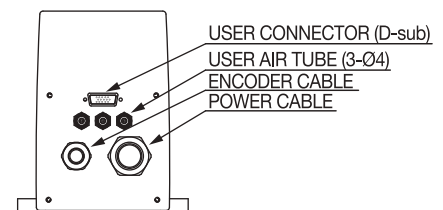
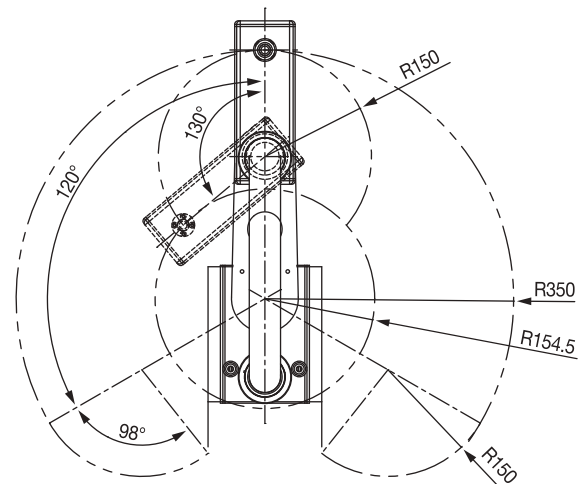
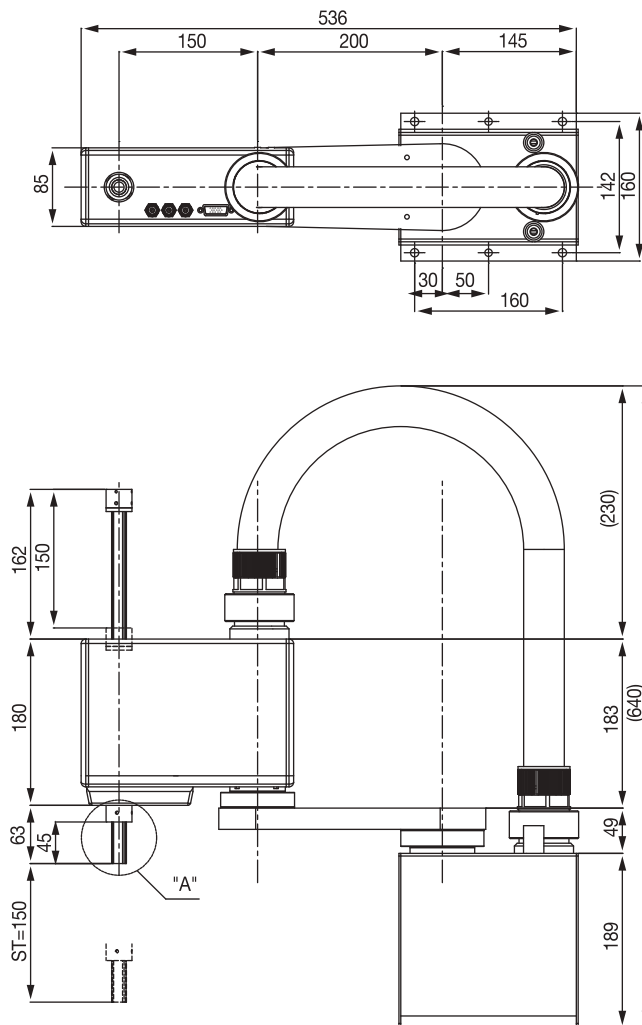
Basic specifications

SERIES	Axis		Arm length (mm)	Work range	Motor (w)	Maximum speed	Positioning Repeatability (+/-mm)	Standard Cycle time (s)	Payload(kg)		R axis allowable moment inertia (kg-m2)
									Rated	Maximum	
DSA	1Axis	1 Arm	200	+/-120°	200	4188mm/s	+/-0.01	0.55	1	3	0.015
	2Axis	2 Arm	150	+/-130°	100						
	3Axis	Vertical	-	150(100)mm	100	960mm/s	+/-0.01				
	4Axis	Rotating	-	+/-360°	50	1600°/s	+/-0.01				

Common specifications

Encoder Type	Absolute encoder	Z axis stroke	Standard 150mm, Option: 100mm
User wiring	0.2sqx15 wires / D-sub 15pin	Cable length(Note6)	Standard 3m, Option: 5m,10m
User tubing	ø4x3	Weight	15kg
Environment	온도 0~40°C, 습도 20~85%RH 이하		

Dimension



Applicable controllers

Controller	Rated voltage	Page
IM-U	200~230VAC	206

Note

Refer to the page 163 for the detail explanations of (Note1) to (Note6)

DSA-0400-LNN

SCARA, Standard specification, Arm length 400mm(225 / 175)
Z axis stroke 100mm, 150mm



Series: DSA - Arm length: 0400 - Type: LNN - Z axis stroke: 150 - Cable length: 3

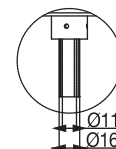
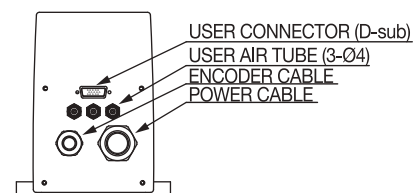
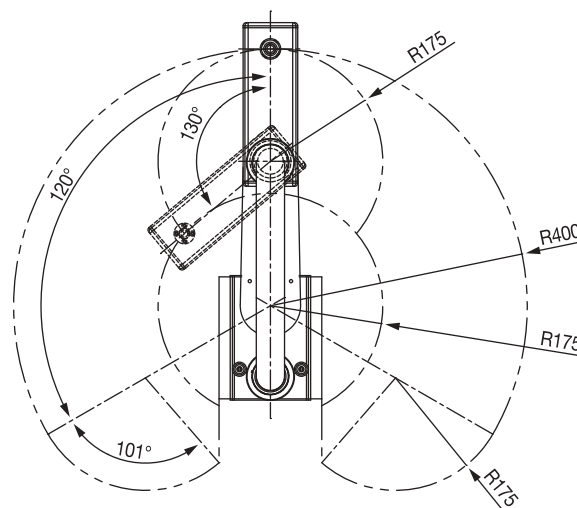
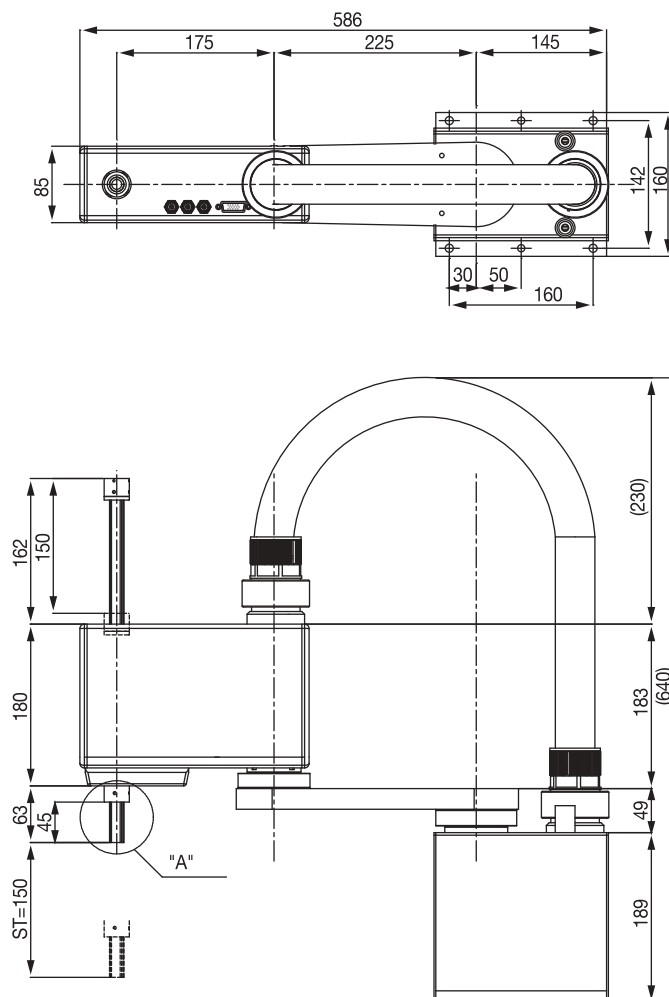
Basic specifications

SERIES	Axis		Arm length (mm)	Work range	Motor (w)	Maximum speed	Positioning Repeatability (+/-mm)	Standard Cycle time (s)	Payload(kg)		R axis allowable moment inertia (kg·m ²)
									Rated	Maximum	
DSA	1Axis	1 Arm	225	+/-120°	200	4817mm/s	+/-0.01	0.70	1	3	0.015
	2Axis	2 Arm	175	+/-130°	100						
	3Axis	Vertical	-	150(100)mm	100	960mm/s	+/-0.01				
	4Axis	Rotating	-	+/-360°	50	1600°/s	+/-0.01				

Common specifications

Encoder Type	Absolute encoder	Z axis stroke	Standard 150mm, Option: 100mm
User wiring	0.2sqx15 wires / D-sub 15pin	Cable length(Note6)	Standard 3m, Option: 5m,10m
User tubing	ø4x3	Weight	16kg
Environment	온도 0~40°C, 습도 20~85%RH 이하		

Dimension



DETAIL "A"

Applicable controllers

Controller	Rated voltage	Page
iM-U	200~230VAC	206

Note

Refer to the page 163 for the detail explanations of (Note1) to (Note6)

DSA-0500-NNN

SCARA, Standard specification, Arm length 500mm(250 / 250)
Z axis stroke 200mm, 300mm



Series: DSA - Arm length: 0500 - Type: NNN - Z axis stroke: 200 - Cable length: 3

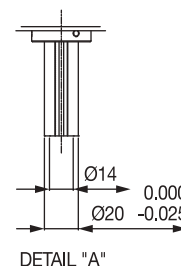
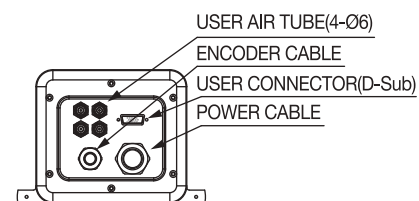
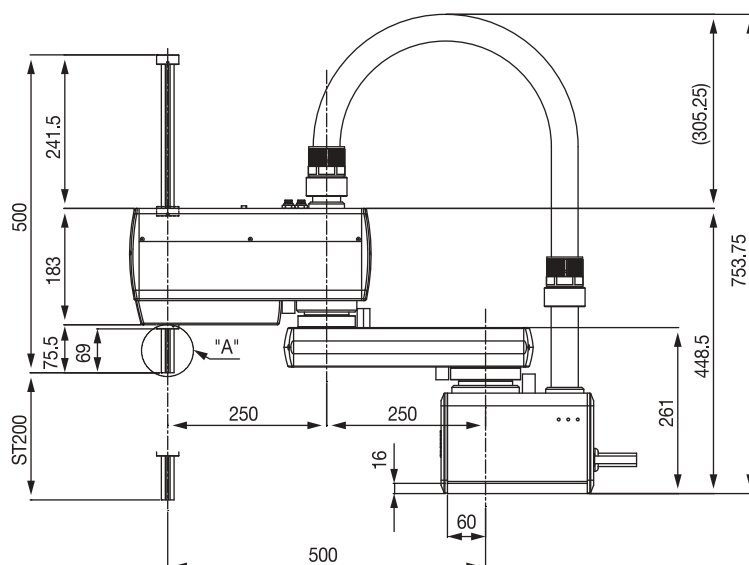
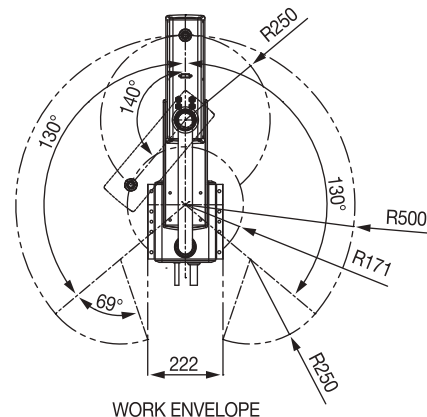
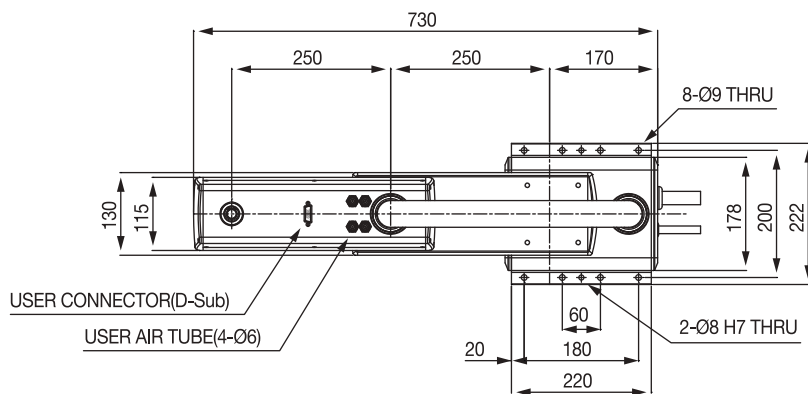
Basic specifications

SERIES	Axis		Arm length (mm)	Work range	Motor (w)	Maximum speed	Positioning Repeatability (+/-mm)	Standard Cycle time (s)	Payload(kg)		R axis allowable moment inertia (kg-m2)
									Rated	Maximum	
DSA	1Axis	1 Arm	250	+/-130°	400	6283mm/s	+/-0.01	0.44	3	10	0.06
	2Axis	2 Arm	250	+/-140°	200						
	3Axis	Vertical	-	200(300)mm	200	1200mm/s	+/-0.01				
	4Axis	Rotating	-	+/-360°	100	1600°/s	+/-0.01				

Common specifications

Encoder Type	Absolute encoder	Z axis stroke	Standard 200mm, Option: 300mm
User wiring	0.2sqx15 wires / D-sub 15pin	Cable length(Note6)	Standard 3m, Option: 5m,10m
User tubing	ø6x4	Weight	25kg
Environment	온도 0~40°C, 습도 20~85%RH 이하		

Dimension



Applicable controllers

Controller	Rated voltage	Page
IM-U	200~230VAC	206

Note

Refer to the page 163 for the detail explanations of (Note1) to (Note6)

DSA-0600-NNN

SCARA, Standard specification, Arm length 600mm(350 / 250)
Z axis stroke 200mm, 300mm



Series: DSA - Arm length: 0600 - Type: NNN - Z axis stroke: 200 - Cable length: 3

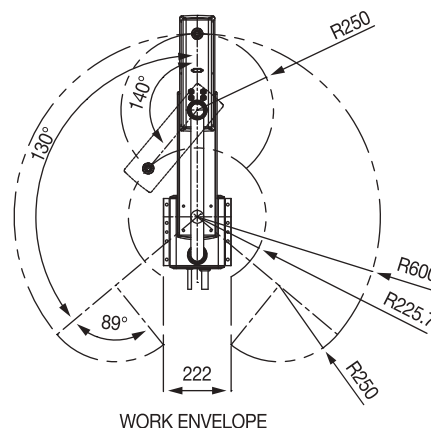
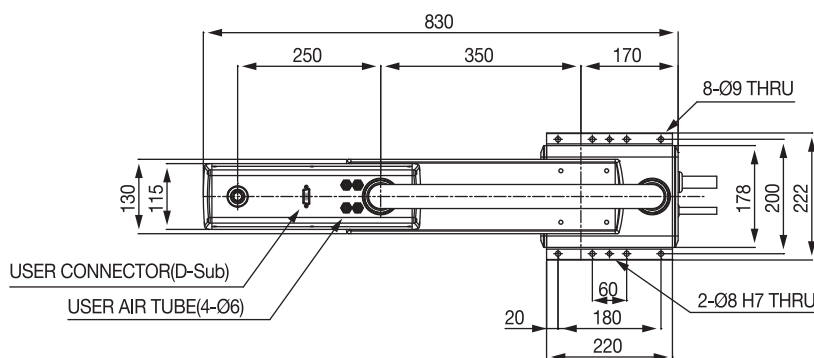
Basic specifications

SERIES	Axis		Arm length (mm)	Work range	Motor (w)	Maximum speed	Positioning Repeatability (+/-mm)	Standard Cycle time (s)	Payload(kg)		R axis allowable moment inertia (kg·m ²)
									Rated	Maximum	
DSA	1Axis	1 Arm	350	+/-130°	400	7121mm/s	+/-0.01	0.52	3	10	0.06
	2Axis	2 Arm	250	+/-140°	200						
	3Axis	Vertical	-	200(300)mm	200	1200mm/s	+/-0.01				
	4Axis	Rotating	-	+/-360°	100	1600°/s	+/-0.01				

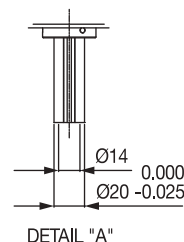
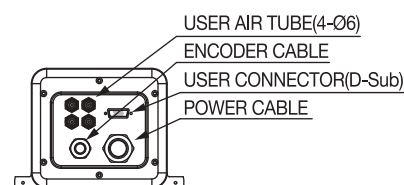
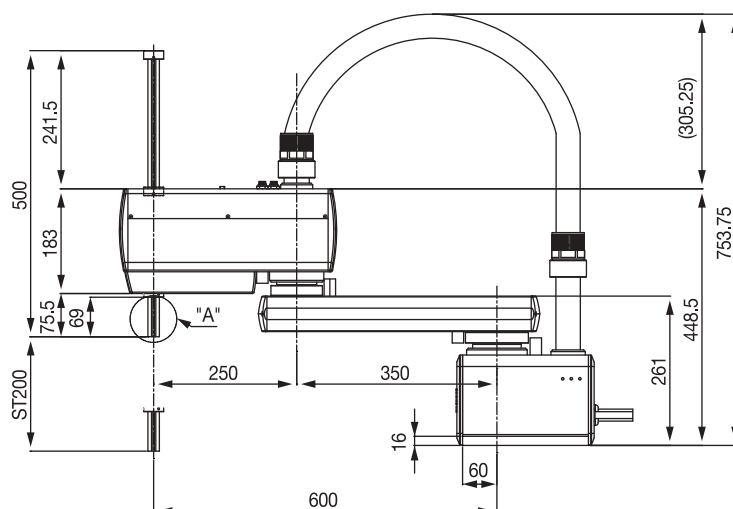
Common specifications

Encoder Type	Absolute encoder	Z axis stroke	Standard 200mm, Option: 300mm
User wiring	0.2sqx15 wires / D-sub 15pin	Cable length(Note6)	Standard 3m, Option: 5m,10m
User tubing	ø6x4	Weight	27kg
Environment	온도 0~40°C, 습도 20~85%RH 이하		

Dimension



WORK ENVELOPE



Applicable controllers

Controller	Rated voltage	Page
iM-U	200~230VAC	206

Note

Refer to the page 163 for the detail explanations of (Note1) to (Note6)

DSA-0600-HNN

SCARA, Standard specification, Arm length 600mm(300 / 300)
Z axis stroke 200mm, 300mm, 400mm



Series: DSA - Arm length: 0600 - Type: HNN - Z axis stroke: 200 - Cable length: 3

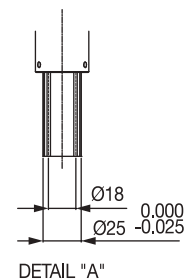
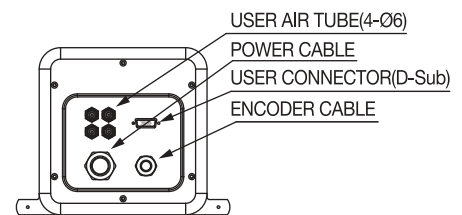
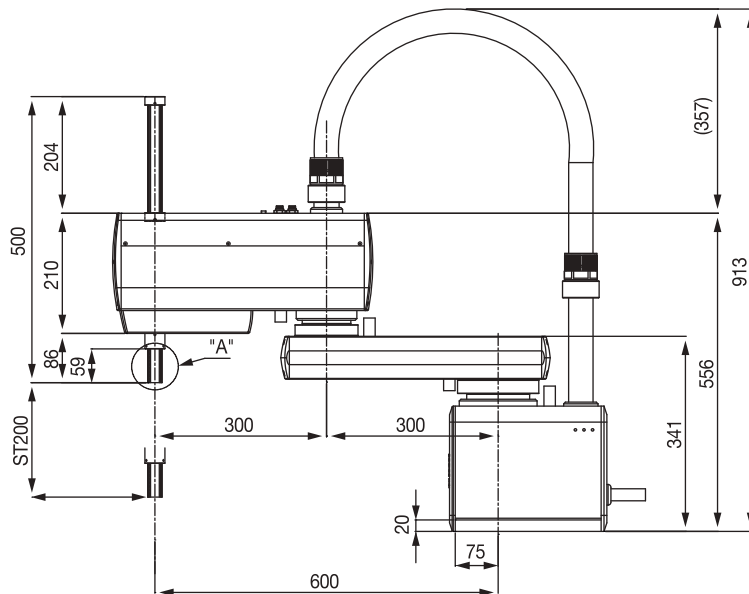
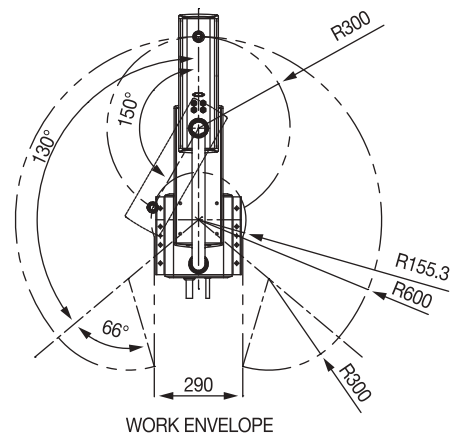
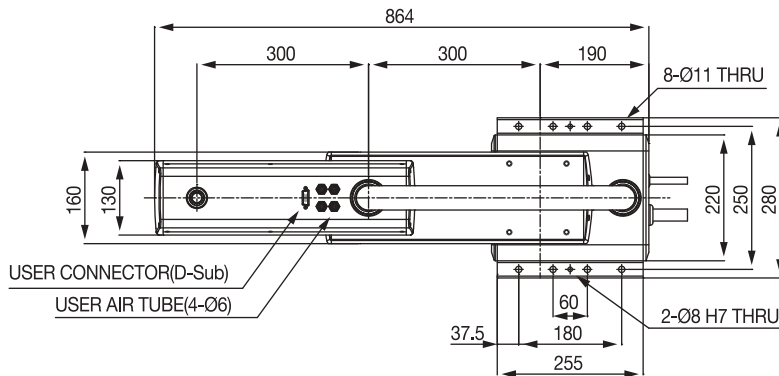
Basic specifications

SERIES	Axis		Arm length (mm)	Work range	Motor (w)	Maximum speed	Positioning Repeatability (+/-mm)	Standard Cycle time (s)	Payload(kg)		R axis allowable moment inertia (kg-m2)
									Rated	Maximum	
DSA	1Axis	1 Arm	300	+/-130°	750	5654mm/s	+/-0.01	0.48	5	20	0.1
	2Axis	2 Arm	300	+/-150°	400						
	3Axis	Vertical	-	200(400)mm	400	1600mm/s	+/-0.01				
	4Axis	Rotating	-	+/-360°	200	1600°/s	+/-0.01				

Common specifications

Encoder Type	Absolute encoder	Z axis stroke	Standard 200mm, Option: 300mm, 400mm
User wiring	0.2sqx15 wires / D-sub 15pin	Cable length(Note6)	Standard 3m, Option: 5m,10m
User tubing	ø6x4	Weight	39kg
Environment	온도 0~40°C, 습도 20~85%RH 이하		

Dimension



Applicable controllers

Controller	Rated voltage	Page
IM-U	200~230VAC	206

Note

Refer to the page 163 for the detail explanations of (Note1) to (Note6)

DSA-0700-HNN

SCARA, Standard specification, Arm length 700mm(350 / 350)
Z axis stroke 200mm, 300mm, 400mm



Series: DSA - Arm length: 0700 - Type: HNN - Z axis stroke: 200 - Cable length: 3

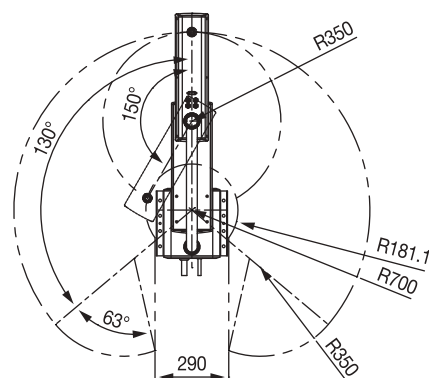
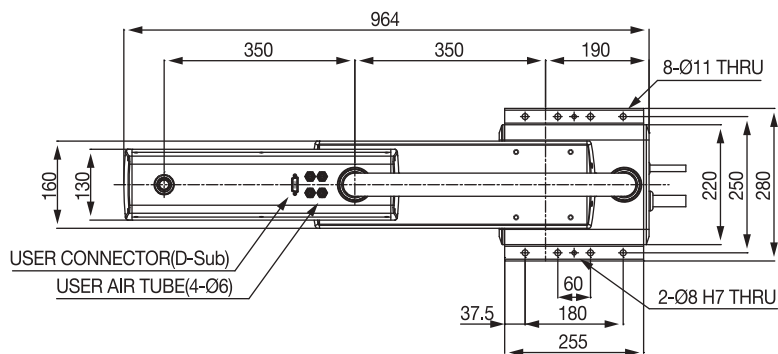
Basic specifications

SERIES	Axis		Arm length (mm)	Work range	Motor (w)	Maximum speed	Positioning Repeatability (+/-mm)	Standard Cycle time (s)	Payload(kg)		R axis allowable moment inertia (kg·m ²)
									Rated	Maximum	
DSA	1Axis	1 Arm	350	+/-130°	750	6597mm/s	+/-0.02	0.50	5	20	0.1
	2Axis	2 Arm	350	+/-150°	400						
	3Axis	Vertical	-	200(400)mm	400	1600mm/s	+/-0.01				
	4Axis	Rotating	-	+/-360°	200	1600°/s	+/-0.01				

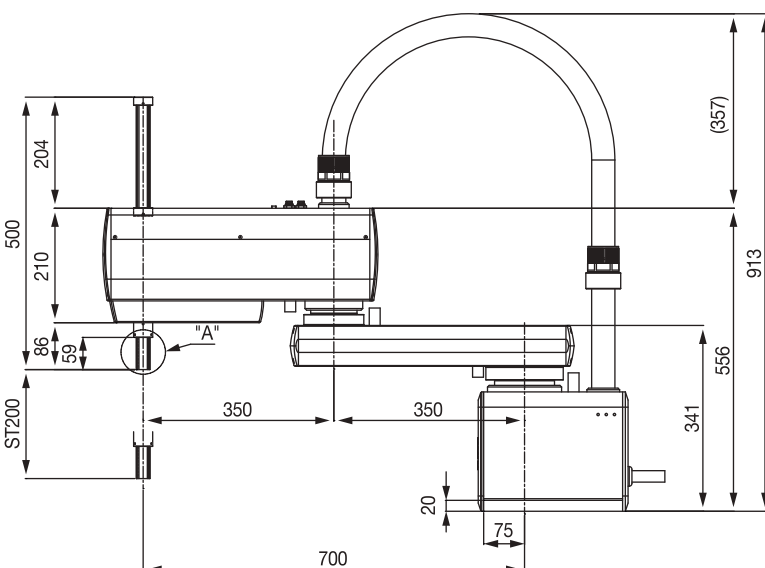
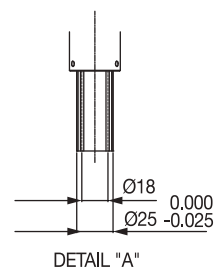
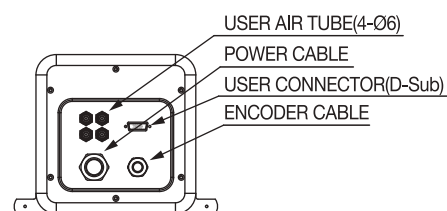
Common specifications

Encoder Type	Absolute encoder	Z axis stroke	Standard 200mm, Option: 300mm, 400mm
User wiring	0.2sqx15 wires / D-sub 15pin	Cable length(Note6)	Standard 3m, Option: 5m,10m
User tubing	ø6x4	Weight	41kg
Environment	온도 0~40°C, 습도 20~85%RH 이하		

Dimension



WORK ENVELOPE



Applicable controllers

Controller	Rated voltage	Page
iM-U	200~230VAC	206

Note

Refer to the page 163 for the detail explanations of (Note1) to (Note6)

DSA-0800-HNN

SCARA, Standard specification, Arm length 800mm(450 / 350)
Z axis stroke 200mm, 300mm, 400mm



Series	Arm length	Type	Z axis stroke	Cable length
DSA	- 0800	- HNN	- 200	- 3

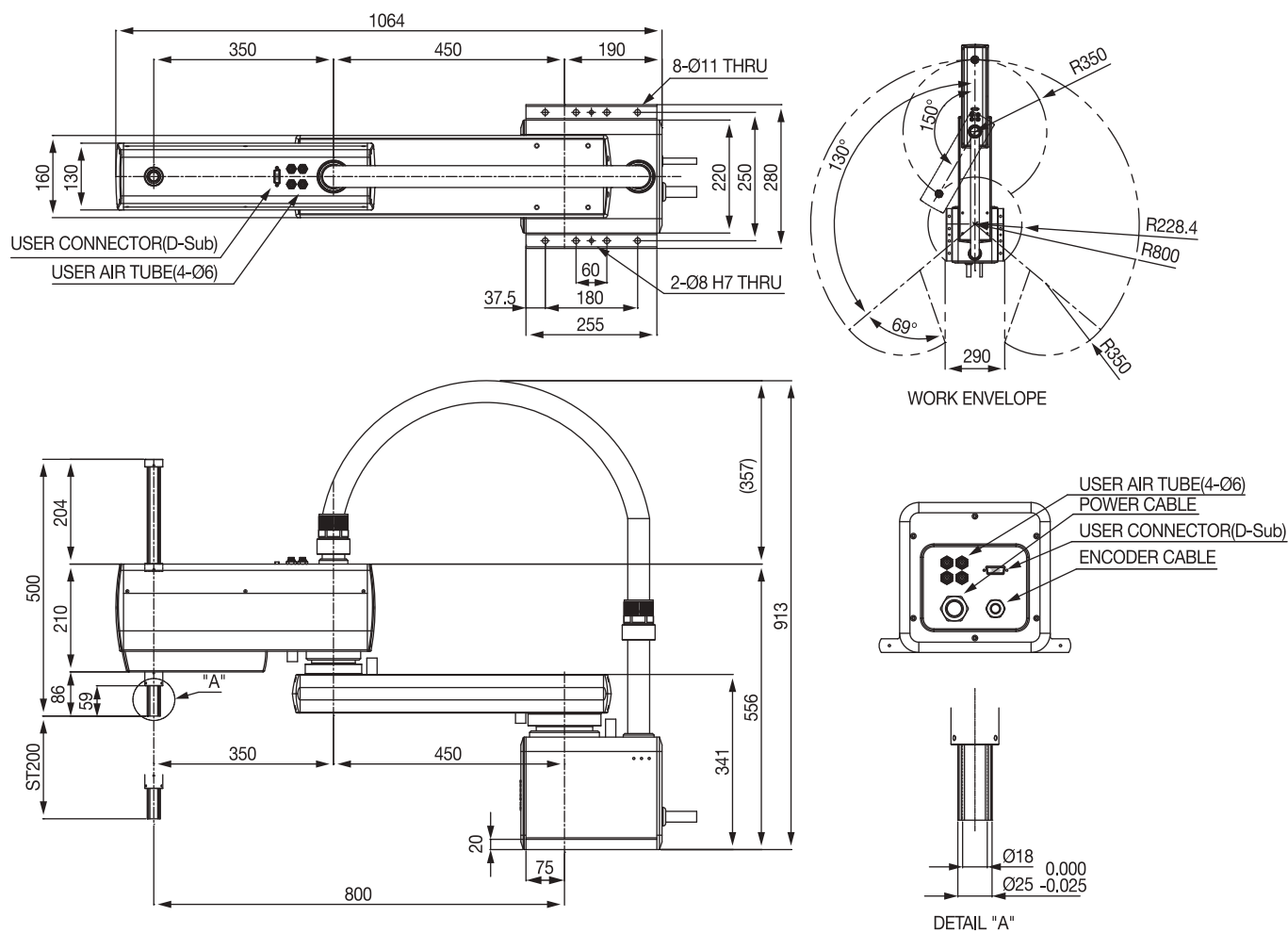
Basic specifications

SERIES	Axis		Arm length (mm)	Work range	Motor (w)	Maximum speed	Positioning Repeatability (+/-mm)	Standard Cycle time (s)	Payload(kg)		R axis allowable moment inertia (kg.m2)
									Rated	Maximum	
DSA	1Axis	1 Arm	450	+/-130°	750	7225mm/s	+/-0.02	0.52	5	20	0.1
	2Axis	2 Arm	350	+/-150°	400						
	3Axis	Vertical	-	200(400)mm	400	1600mm/s	+/-0.01				
	4Axis	Rotating	-	+/-360°	200	1600°/s	+/-0.01				

Common specifications

Encoder Type	Absolute encoder	Z axis stroke	Standard 200mm, Option: 300mm, 400mm
User wiring	0.2sqx15 wires / D-sub 15pin	Cable length(Note6)	Standard 3m, Option: 5m,10m
User tubing	ø6x4	Weight	43kg
Environment	온도 0~40℃, 습도 20~85%RH 이하		

Dimension



Applicable controllers

Controller	Rated voltage	Page
iM-U	200~230VAC	206

Note

Refer to the page 163 for the detail explanations of (Note1) to (Note6)

DSA-0900-HNN

SCARA, Standard specification, Arm length 900mm(500 / 400)
Z axis stroke 200mm, 300mm, 400mm



Series: DSA - Arm length: 0900 - Type: HNN - Z axis stroke: 200 - Cable length: 3

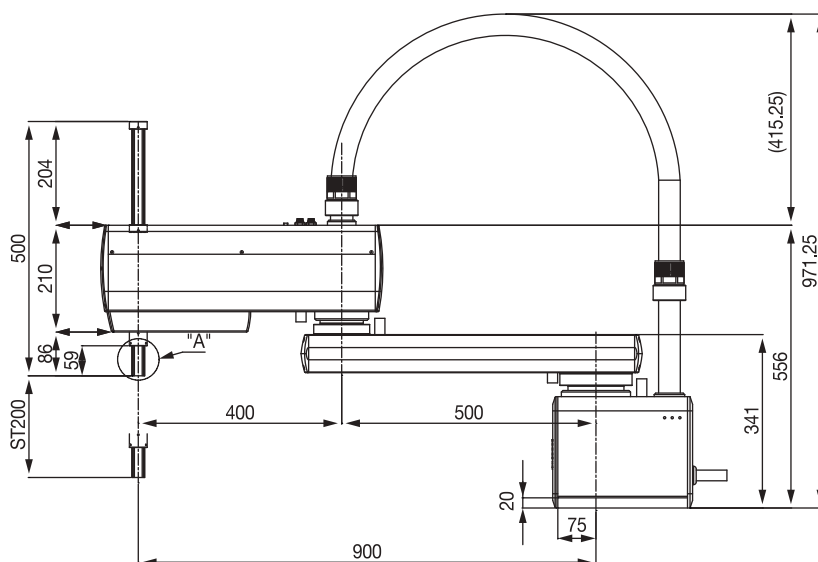
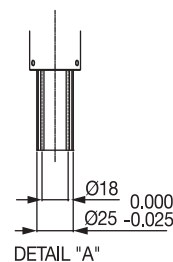
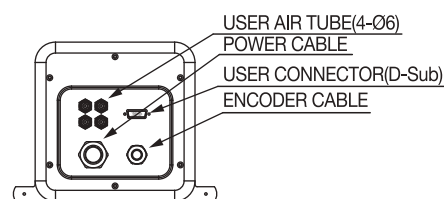
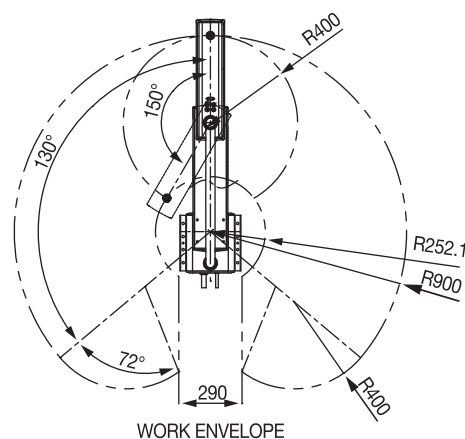
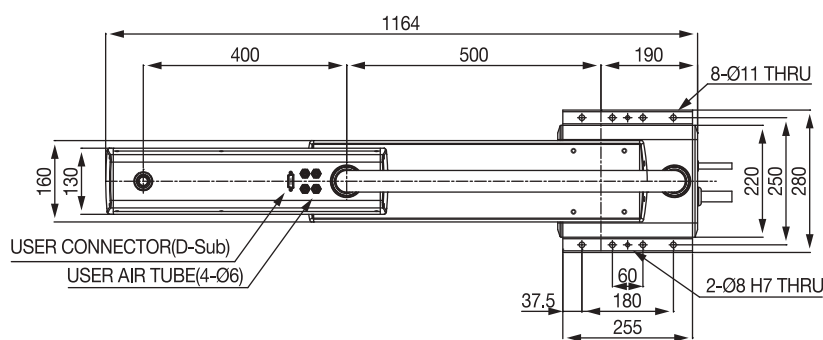
Basic specifications

SERIES	Axis		Arm length (mm)	Work range	Motor (w)	Maximum speed	Positioning Repeatability (+/-mm)	Standard Cycle time (s)	Payload(kg)		R axis allowable moment inertia (kg·m ²)
									Rated	Maximum	
DSA	1Axis	1 Arm	500	+/-130°	750	7775mm/s	+/-0.02	0.54	5	20	0.1
	2Axis	2 Arm	400	+/-150°	400						
	3Axis	Vertical	-	200(400)mm	400	1600mm/s	+/-0.01				
	4Axis	Rotating	-	+/-360°	200	1600°/s	+/-0.01				

Common specifications

Encoder Type	Absolute encoder	Z axis stroke	Standard 200mm, Option: 300mm, 400mm
User wiring	0.2sqx15 wires / D-sub 15pin	Cable length(Note6)	Standard 3m, Option: 5m,10m
User tubing	ø6x4	Weight	45kg
Environment	온도 0~40°C, 습도 20~85%RH 이하		

Dimension



Applicable controllers

Controller	Rated voltage	Page
iM-U	200~230VAC	206

Note

Refer to the page 163 for the detail explanations of (Note1) to (Note6)

DSA-1000-HNN

SCARA, Standard specification, Arm length 1000mm(600 / 400)
Z axis stroke 200mm, 300mm, 400mm



Series: DSA - Arm length: 1000 - Type: HNN - Z axis stroke: 200 - Cable length: 3

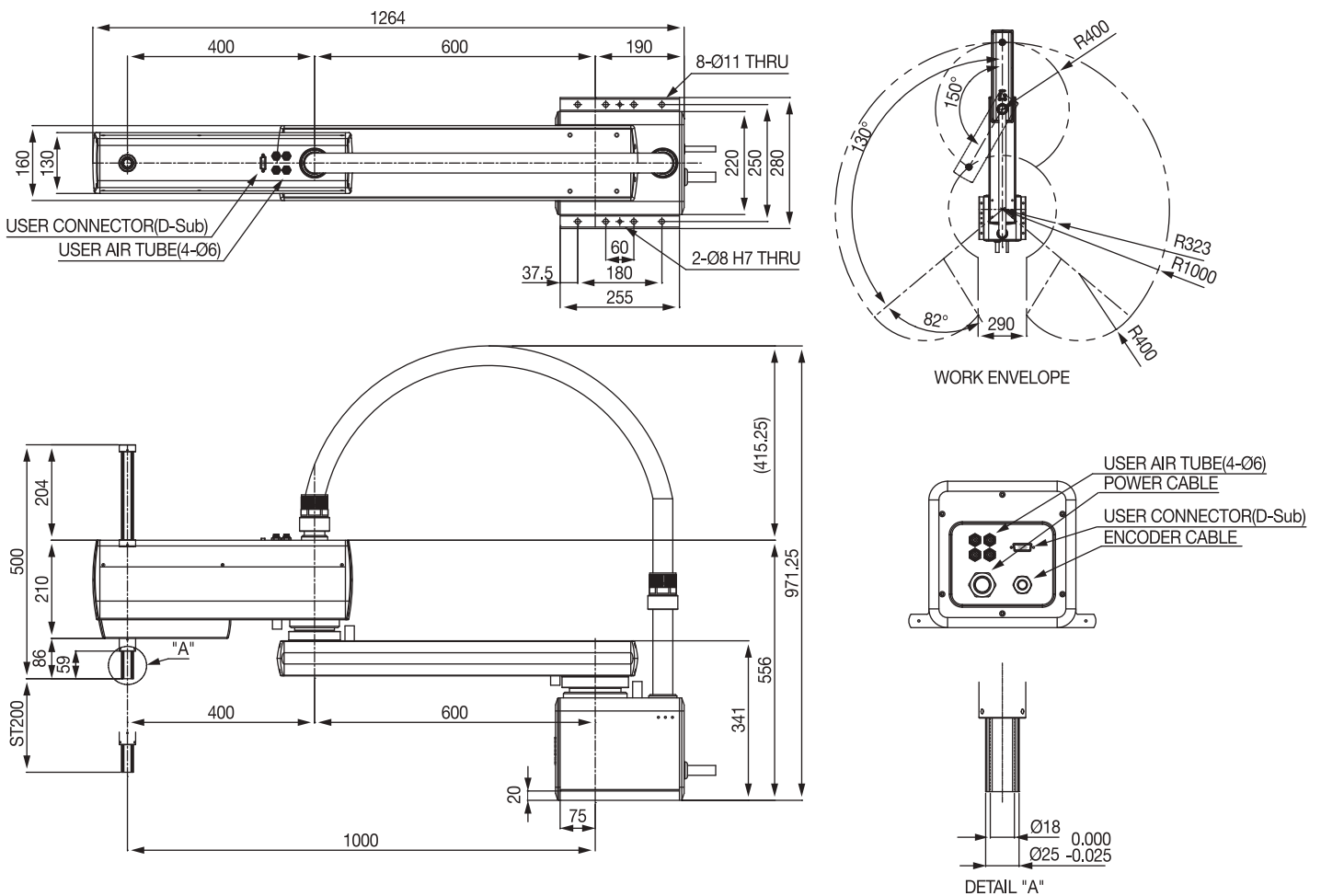
Basic specifications

SERIES	Axis		Arm length (mm)	Work range	Motor (w)	Maximum speed	Positioning Repeatability (+/-mm)	Standard Cycle time (s)	Payload(kg)		R axis allowable moment inertia (kg-m2)
									Rated	Maximum	
DSA	1Axis	1 Arm	600	+/-130°	750	8351mm/s	+/-0.02	0.70	5	20	0.1
	2Axis	2 Arm	400	+/-150°	400						
	3Axis	Vertical	-	200(400)mm	400	1600mm/s	+/-0.01				
	4Axis	Rotating	-	+/-360°	200	1600°/s	+/-0.01				

Common specifications

Encoder Type	Absolute encoder	Z axis stroke	Standard 200mm, Option: 300mm, 400mm
User wiring	0.2sqx15 wires / D-sub 15pin	Cable length(Note6)	Standard 3m, Option: 5m,10m
User tubing	ø6x4	Weight	47kg
Environment	온도 0~40°C, 습도 20~85%RH 이하		

Dimension



Applicable controllers

Controller	Rated voltage	Page
IM-U	200~230VAC	206

Note

Refer to the page 163 for the detail explanations of (Note1) to (Note6)

DSA-0500-SNN

SCARA, Standard specification, Arm length 500mm(250 / 250)
Z axis stroke 100mm, 150mm



Series: DSA - Arm length: 0500 - Type: SNN - Z axis stroke: 150 - Cable length: 3

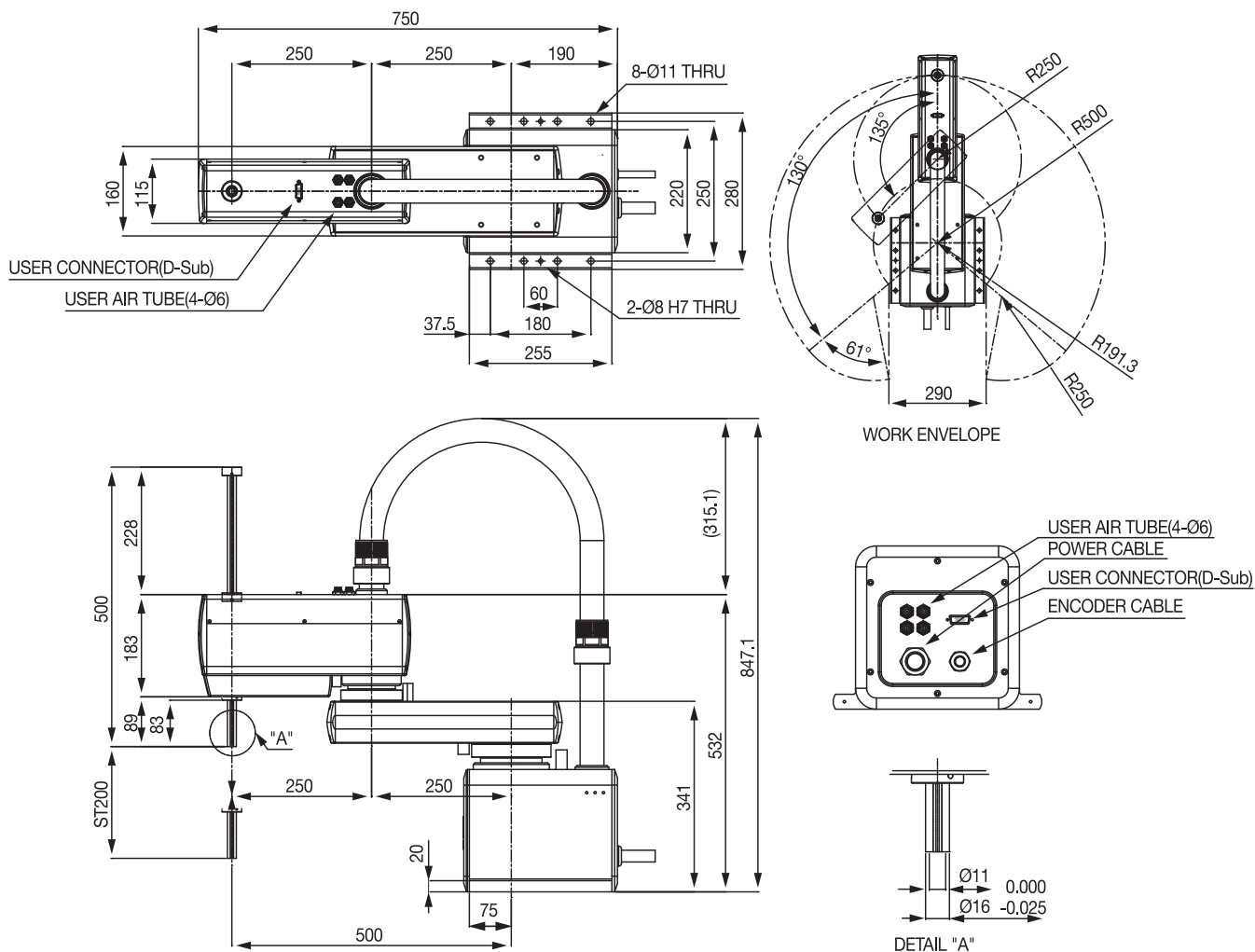
Basic specifications

SERIES	Axis		Arm length (mm)	Work range	Motor (w)	Maximum speed	Positioning Repeatability (+/-mm)	Standard Cycle time (s)	Payload(kg)		R axis allowable moment inertia (kg·m ²)
									Rated	Maximum	
DSA	1Axis	1 Arm	250	+/-130°	750	4712mm/s	+/-0.01	0.30	1	3	0.015
	2Axis	2 Arm	250	+/-135°	400						
	3Axis	Vertical	-	150(100)mm	200	960mm/s	+/-0.01				
	4Axis	Rotating	-	+/-360°	100	1600°/s	+/-0.01				

Common specifications

Encoder Type	Absolute encoder	Z axis stroke	Standard 100mm, Option: 150mm
User wiring	0.2sqx15 wires / D-sub 15pin	Cable length(Note6)	Standard 3m, Option: 5m,10m
User tubing	ø6x4	Weight	32kg
Environment	온도 0~40°C, 습도 20~85%RH 이하		

Dimension



Applicable controllers

Controller	Rated voltage	Page
iM-U	200~230VAC	206

Note

Refer to the page 163 for the detail explanations of (Note1) to (Note6)

DSA-0600-SNN

SCARA, High speed specification, Arm length 600mm(350 / 250)
Z axis stroke 100mm, 150mm



Series: DSA - Arm length: 0600 - Type: SNN - Z axis stroke: 150 - Cable length: 3

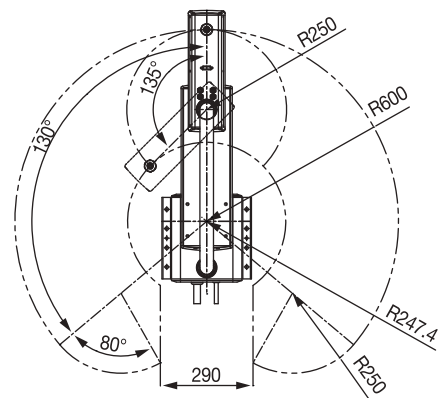
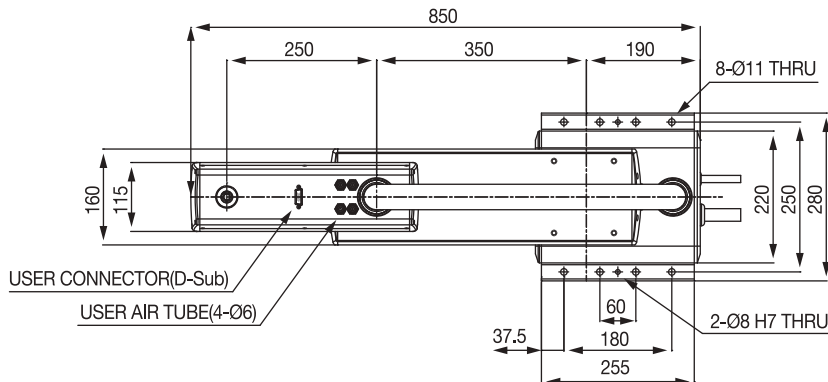
Basic specifications

SERIES	Axis		Arm length (mm)	Work range	Motor (w)	Maximum speed	Positioning Repeatability (+/-mm)	Standard Cycle time (s)	Payload(kg)		R axis allowable moment inertia (kg-m2)
									Rated	Maximum	
DSA	1Axis	1 Arm	350	+/-130°	750	5340mm/s	+/-0.01	0.39	1	3	0.015
	2Axis	2 Arm	250	+/-135°	400						
	3Axis	Vertical	-	150(100)mm	200	960mm/s	+/-0.01				
	4Axis	Rotating	-	+/-360°	100	1600°/s	+/-0.01				

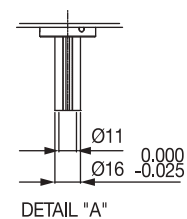
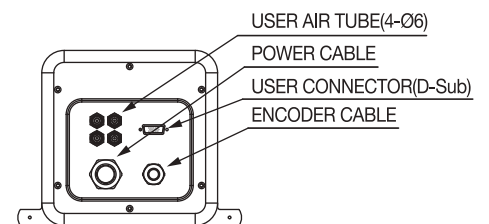
Common specifications

Encoder Type	Absolute encoder	Z axis stroke	Standard 100mm, Option: 150mm
User wiring	0.2sqx15 wires / D-sub 15pin	Cable length(Note6)	Standard 3m, Option: 5m,10m
User tubing	ø6x4	Weight	32kg
Environment	온도 0~40°C, 습도 20~85%RH 이하		

Dimension



WORK ENVELOPE



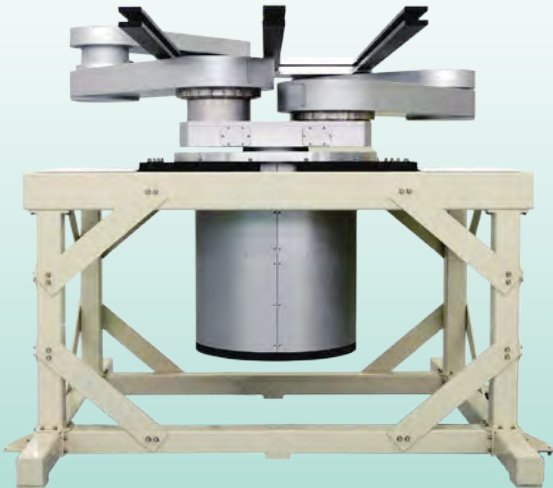
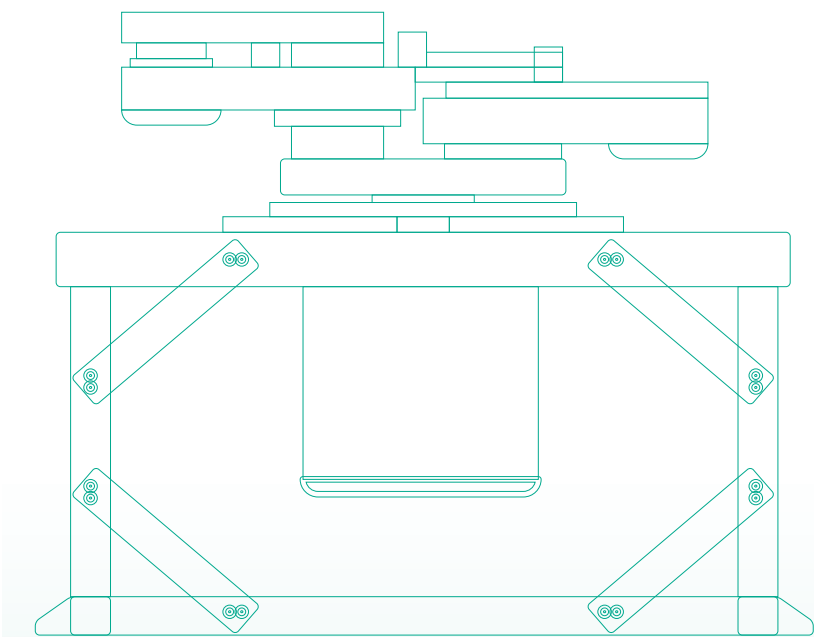
Applicable controllers

Controller	Rated voltage	Page
IM-U	200~230VAC	206

Note

Refer to the page 163 for the detail explanations of (Note1) to (Note6)

TRANSFER ROBOT



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DAI-2500A /DAI-2500B/DAI-2500C /DAI-2500F	

Wafer Transfer Robot (Vacuum)

FEATURES

1. The shortest path with Θ axis's limitless rotation
 2. Realizing high-speed
 3. Optimized configuration (Vacuum, N2 Environment)
 4. Dry-bearing
1. Θ 축 무한회전으로 최단경로로 선회 가능
 2. 고속반송 실현
 3. 고(高)진공에서 저(低)진공, N2 환경까지 최적화된 구성으로 제안 가능
 4. 드라이베어링 채용

ORDERING MODEL

AR - WV 300 - 50
① ②③ ④ ⑤

- ① : AITEC ROBOT
② : ARM TYPE: S-Single W: Double
③ : Environment: V-Vacuum
④ : Wafer size
⑤ : Z axis stroke

Wafer Transfer Robot (Atmospheric)

FEATURES

1. Various models with combinations main body, arm&hand, common running axis
 2. Pay load 3KG (Wafer, Cassettes etc)
 3. Realizing high-speed
 4. Flexible customizing with modularity
1. 본체 구동부, 암, 핸드, 주행축 공용화, 각 모듈의 조합으로 다양한 사양의 시스템 구축이 가능
 2. 암의 반송가능 질량이 3kg으로, 웨이퍼는 물론 카세트 등 중량물 반송에도 대응
 3. 고속 반송 실현
 4. 표준품의 모듈화를 통한 유연한 customizing 가능

ORDERING MODEL

AR - S300H - 300
① ② ③ ④

- ① : AITEC ROBOT
② : ARM TYPE: S-SINGLE W- DOUBLE
③ : Wafer Size
④ : Z axis Stroke

Glass Transfer Robot (Vacuum)

FEATURES

1. Light-weight, high-speed, low-vibration, especially minimized the sagging at the top of end-effector and low cost
 2. Maximized stroke with minimized space. High-speed&precision
 3. The shortest path with Θ axis's limitless rotation
 4. Optimized configuration (Vacuum, N2 Environment)
1. Long stroke임에도 불구하고, Hand의 선당진동을 최소화 하였으며, 경량화, 고속화, 저진동, 저가실현
 2. 최소의 공간활용으로, 최대이송거리를 구현하였으며, 독자기술로 고강성 고정도를 실현
 3. Θ 축 무한회전으로 최단경로로 선회 가능
 4. 고(高)진공에서 저(低)진공, N2 환경까지 최적화된 구성으로 제안 가능

ORDERING MODEL

AR - SV 5G - 100
① ②③ ④ ⑤

- ① : AITEC ROBOT
② : ARM TYPE: S-SINGLE W- DOUBLE
③ : Environmnet: v- Vacuum
④ : Glass Size
⑤ : Z axis Stroke

Glass Transfer Robot (Atmospheric)

FEATURES

1. Turning large size glass over vertically, turn over at low pass line
 2. Dongbu has plenty of experience from the Array process field to the cell process field
 3. Simple mechanistic structure enavles high-efficiency air flow
1. 대형 액정기판을 수직으로 반전시키는 반송이 가능하며, 낮은 pass line 에서의 반전 가능
 2. Array 공정에서 셀공정반송까지 폭넓은 실적을 보유하고 있습니다.
 3. 간단한 기계구조는 고효율의 Air flow를 형성합니다.

ORDERING MODEL

AR - 4GW - 800
① ②③ ④

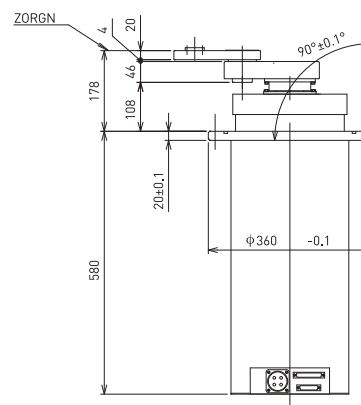
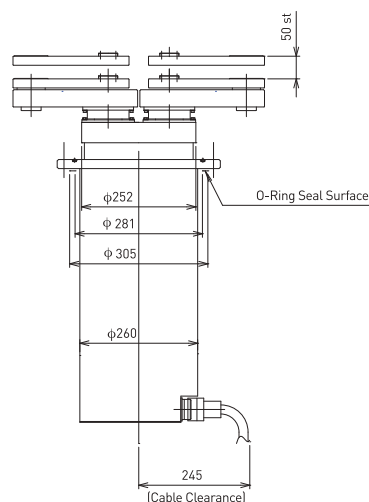
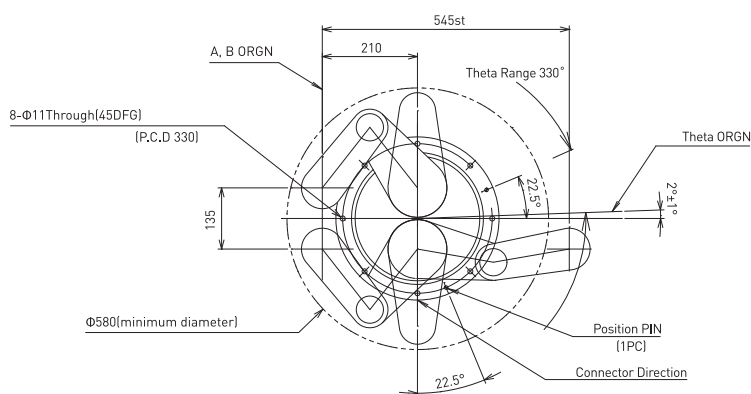
- ① : AITEC ROBOT
② : Glass Size
③ : ARM TYPE: S-SINGLE W-DOBLE
④ : Z axis Stroke

Wafer transfer robot with double arm in Vacuum condition

AR-WV300



Model Name		AR-WV300-50
Structure		Cylindrical Coordinate
Moving Axes		4
Operating Range	A-axis	545mm
	B-axis	545mm
	θ-axis	330°
	Z-axis	50mm
Operating speed	A-axis	1000mm/sec
	B-axis	1000mm/sec
	θ-axis	216°/s
	Z-axis	75mm/s
Vacuum Seal Method		Mechanical lip-seal Bellows-seal
Repeatability		±0.1mm
Cleanliness		Class 1(0.1μm/cf)
Leak rate		$1 \times 10^{-8}(\text{Pa} \cdot \text{m}^3/\text{s})$
Payload		700g(Including the hand)
Operating Environment	Atmospheric	Temp. : 0~40℃ Humid. : 70% under
	Vacuum	Vacuum level : $1 \times 10^{-6}\text{Pa}(7.5 \times 10^{-9} \text{ Torr})$ Temp. : 0~80℃
Robot Weight		Approximately 70kg
Appearance	Atmospheric	Aluminium white Alumite
	Vacuum	Aluminium(Non surface finishing)

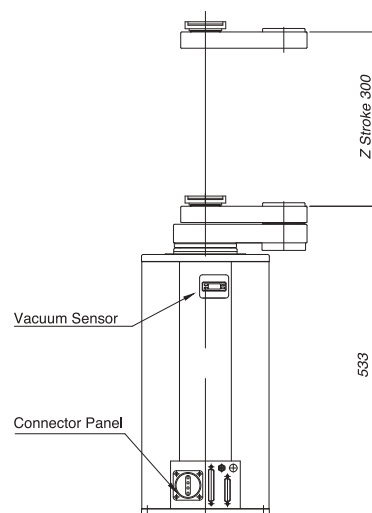
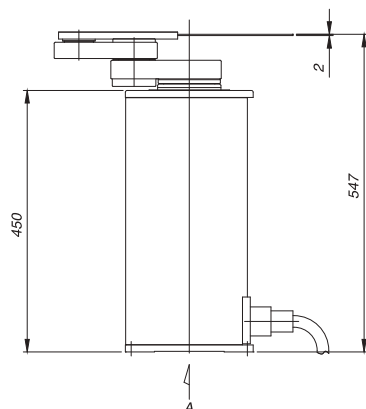
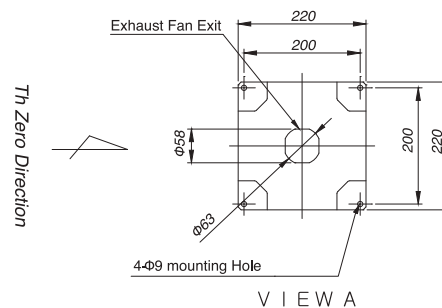
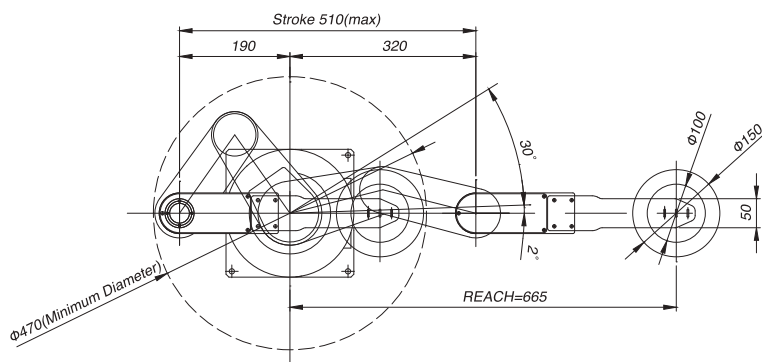


Wafer transfer robot with single arm in Atmosphere condition

AR-S300H



Model Name		AR-S300H-300
Structure		Cylindrical Coordinate
Moving Axes		3
Operating Range (MAX)	A-axis	510mm
	θ-axis	330°
	Z-axis	300mm
Operating speed (MAX)	A-axis	1700mm/sec
	θ-axis	470°/s
	Z-axis	500mm/s
Repeatability		±0.1mm
Cleanliness		Class 1(0.1μm/cf)
Payload		3kg(Including the hand)
Operating Environment		Temp. : 0~40℃ Humid. : 70% under
Robot Weight		Approximately 20kg
Appearance		Aluminium white Alumite SUS buffing(#400)

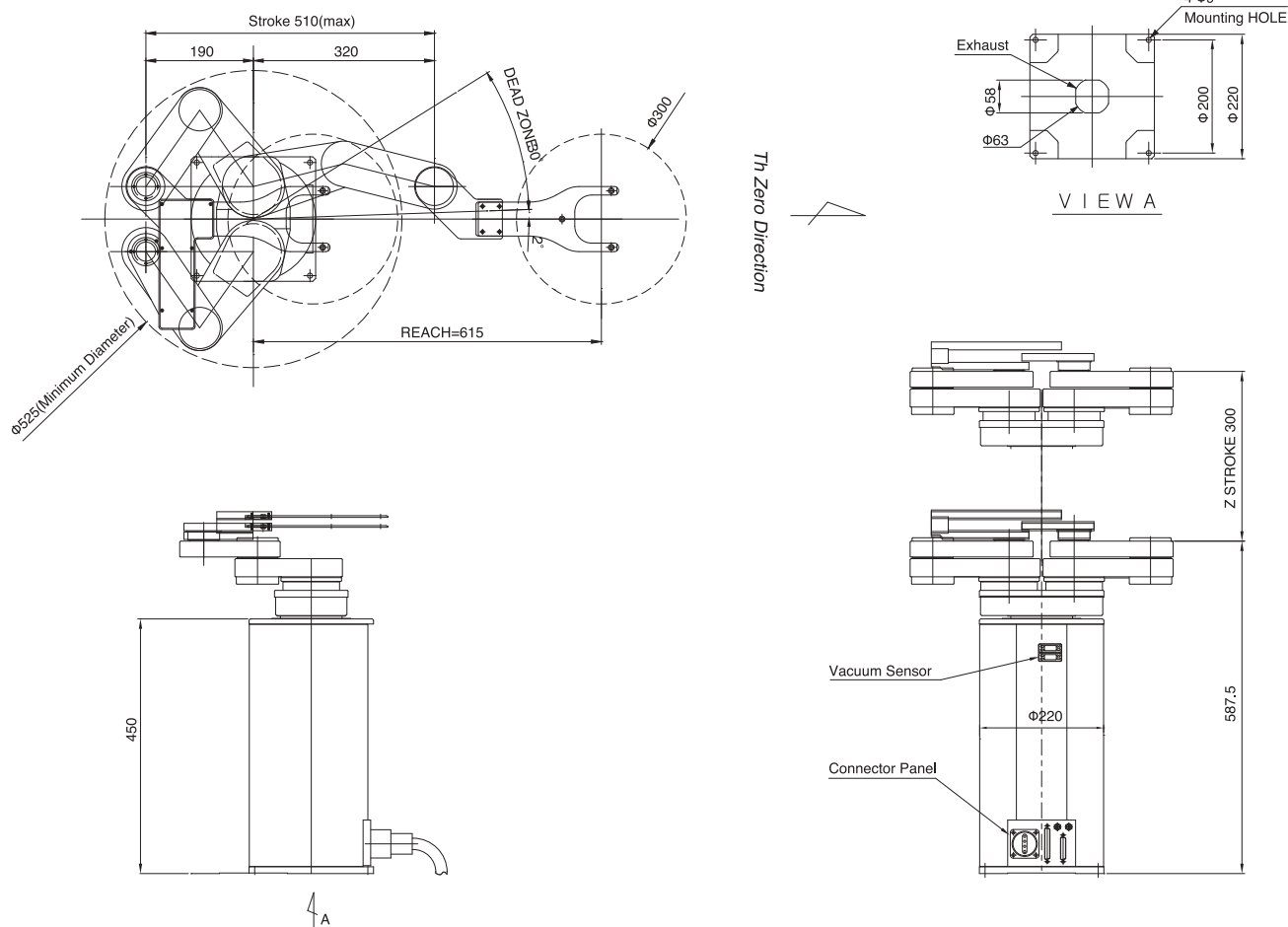


Wafer transfer robot wiht double arms in Atmosphere condition

AR-W300H



Model Name		AR-W300H-300
Structure		Cylindrical Coordinate
Moving Axes		4
Operating Range (MAX)	A-axis	510mm
	B-axis	510mm
	θ-axis	330°
	Z-axis	300mm
Operating Speed (MAX)	A-axis	1700mm/sec
	B-axis	1700mm/sec
	θ-axis	470°/s
	Z-axis	500mm/s
Repeatability		±0.1mm
Cleanliness		Class 1(0.1μm/cf)
Payload		3kg(Including the hand)
Operaitng Environment	Atomoshperic	Temp. : 0~40℃ Humid. : 70% under
Robot Weight		Approximately 27kg
Appearance		Aluminium white Alumite SUS buffing(#400)

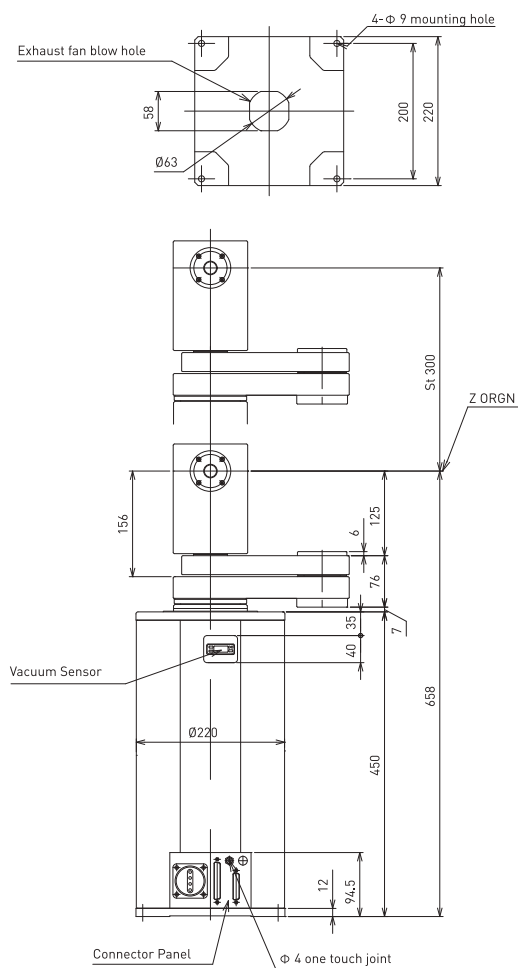
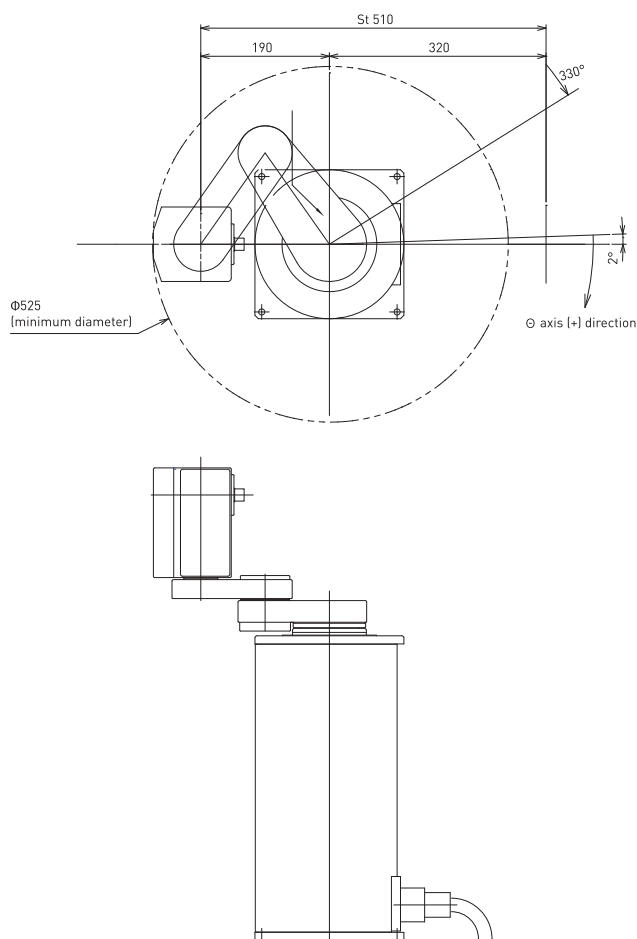


Wafer transfer robot(Reverse type)

AR-S300R



Model Name		AR-S300R-300R
Structure		Cylindrical Coordinate
Moving Axes		3+1
Operating Range	A-axis	510mm
	θ-axis	330°
	Z-axis	300mm
	R-axis	183°
Operating speed (MAX)	A-axis	600mm/sec
	θ-axis	235°/sec
	Z-axis	150mm/sec
	R-axis	300/s
Repeatability		±0.1mm
Cleanliness		Class 1(0.1μm/cf)
Payload		500g (Including the hand)
Operating Environment		Temp. : 0~40℃ Humid. : 70% under
Robot Weight		Approximately 29kg
Appearance	Main body : Aluminium white Alumite, SUS buffing(#400)	
	Reverse : Teflon coating(Balck)	

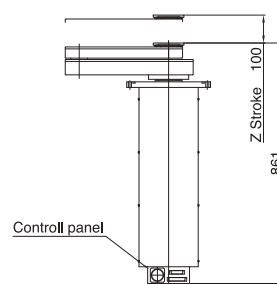
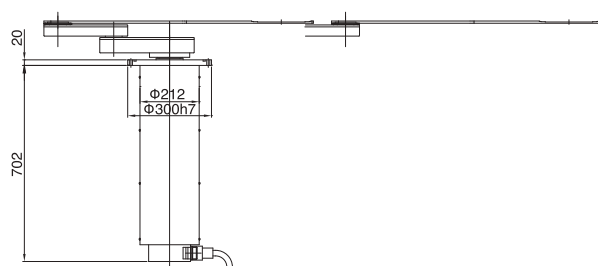
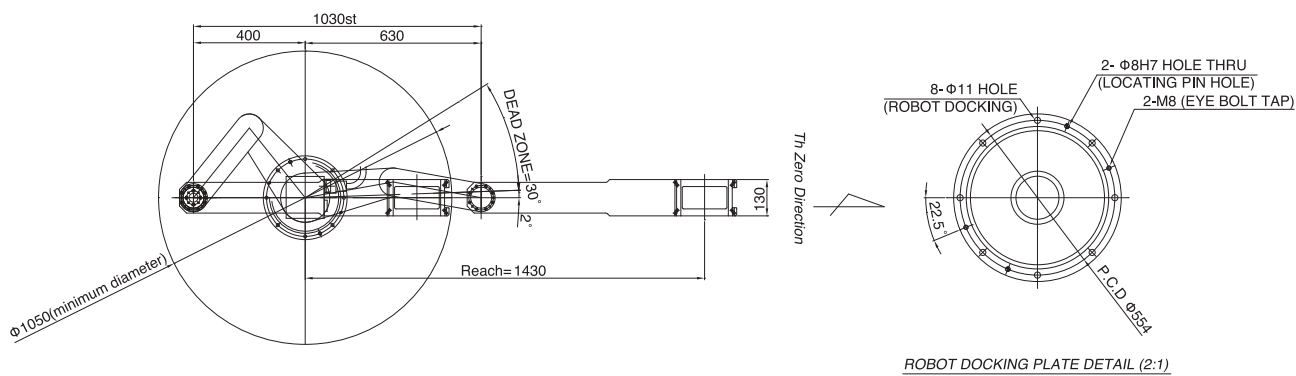


Transfer robot with single arm in Vacuum

AR-SV3G



Model Name		AR-SV3G-100
Structure		Cylindrical Coordinate
Moving Axes		3
Operating Range	A-axis	1030mm
	θ-axis	330°
	Z-axis	100mm
Operating speed (MAX)	A-axis	600mm/sec
	θ-axis	70°/s
	Z-axis	100mm/s
Vacuum Seal Method		Mechanical lip-seal, Bellows-seal
Repeatability		±0.1mm
Cleanliness		Class 1(0.1μm/cf)
Leak rate		1 x 10 ⁻⁹ (Pa·m ³ /s He)
Payload		4kg(Including the hand)
Operating Environment	Atmospheric	Temp. : 0~40℃ Humid. : 70% under
	Vacuum	Vacuum level : 1 x 10 ⁻⁶ Pa Temp. : 0-80℃
Robot Weight		Approximately 70Kg
Appearance	Atmospheric	Aluminium with Alumite
	Vacuum	Aluminium(Non surface finishing)

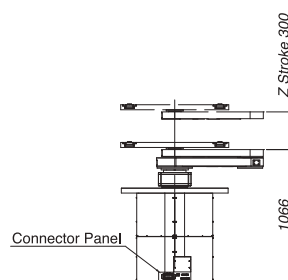
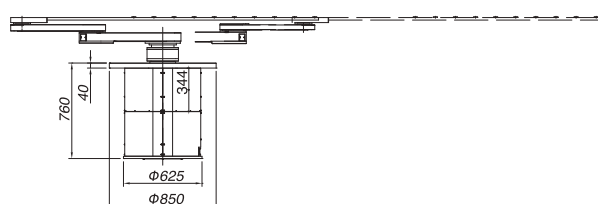
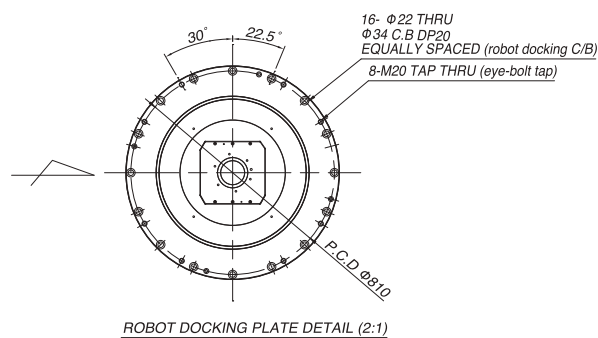
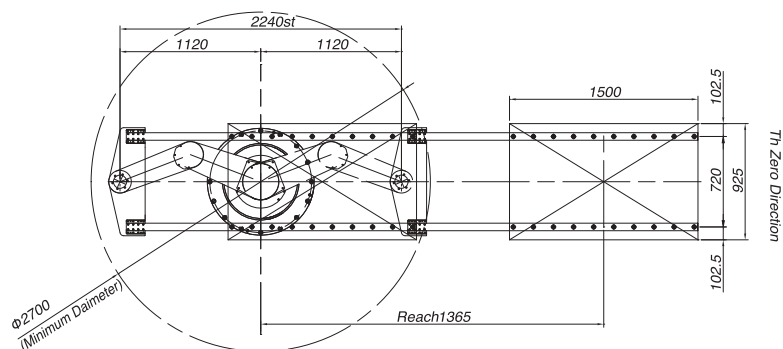


Transfer robot with single arm in Vacuum

AR-SV5G



Model Name		AR-SV5G-300
Structure		Cylindrical Coordinate
Moving Axes		3
Operating Range	A-axis	2240mm
	θ-axis	Continuous
	Z-axis	300mm
Operating speed (MAX)	A-axis	1200mm/sec
	θ-axis	120°/s
	Z-axis	120mm/s
Vacuum Seal Method		Mechanical lip-seal
Repeatability		±0.1mm
Cleanliness		Class 1(0.1μm/cf)
Leak rate		1 x 10 ⁻⁷ (Pa·m ³ /s)
Payload		15kg(Including the hand)
Operating Environment	Atmospheric	Temp. : 0~40℃ Humid. : 70% under
	Vacuum	Vacuum level : 1 x 10 ⁻⁵ Pa Temp. : 0-80℃
Robot Weight		Approximately 280Kg
Appearance	Atmospheric	Aluminium with Alumite
	Vacuum	Aluminium(No surface finishing)

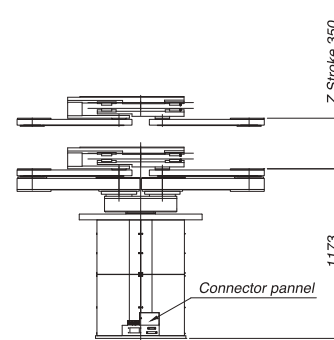
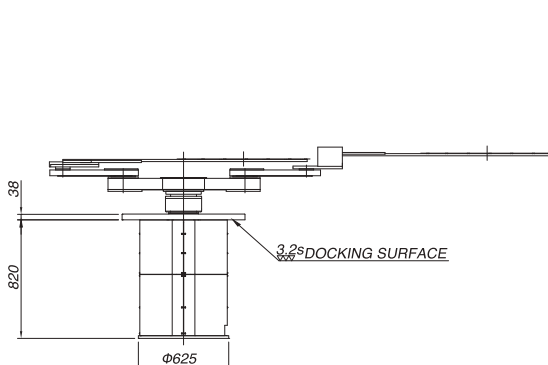
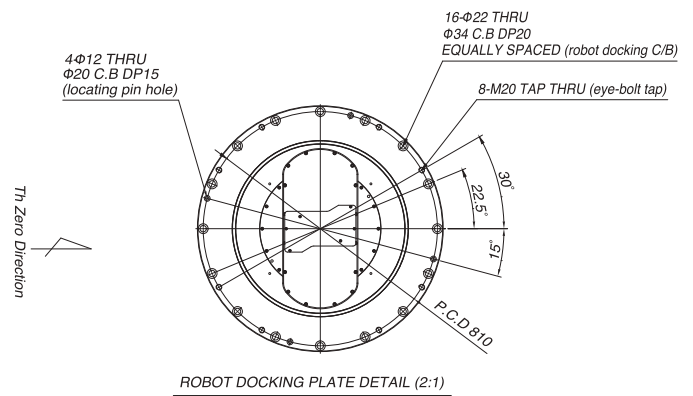
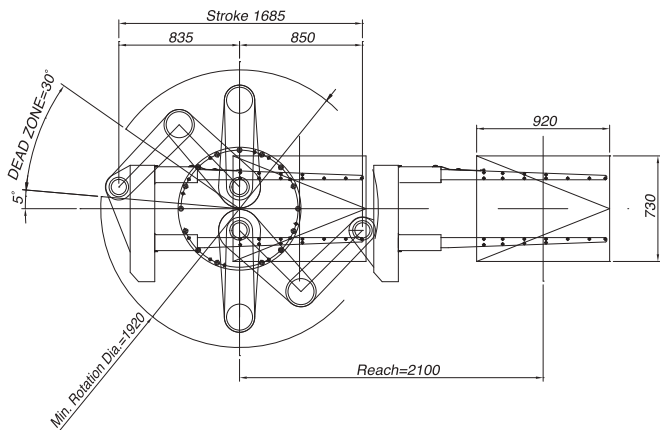


Glass transfer robot with double arms in Vacuum

AR-WV5G



Model Name		AR-WV5G-350
Structure		Cylindrical Coordinate
Moving Axes		4
Operating Range	A-axis	1685mm
	B-axis	1685mm
	θ-axis	330°
	Z-axis	350mm
Operating speed (MAX)	A-axis	1200mm/sec
	B-axis	1200mm/sec
	θ-axis	120°/s
	Z-axis	120mm/s
Vacuum Seal Method		Mechanical lip-seal, Bellows-seal
Repeatability		±0.1mm
Cleanliness		Class 1(0.1μm/cf)
Leak rate		1 x 10 ⁻⁷ (Pa·m ³ /s)
Payload		15kg(Including the hand)
Operating Environment	Atmospheric	Temp. : 0~40℃ Humid. : 70% under
	Vacuum	Vacuum level : 1 x 10 ⁻⁵ Pa(7.5 x 10 ⁻⁹ Torr) Temp. : 0-80℃
Robot Weight		Approximately 280Kg
Appearance	Atmospheric	Aluminium with Alumite
	Vacuum	Aluminium(Non surface finishing)

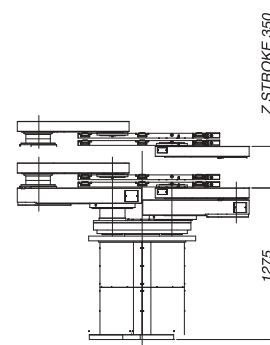
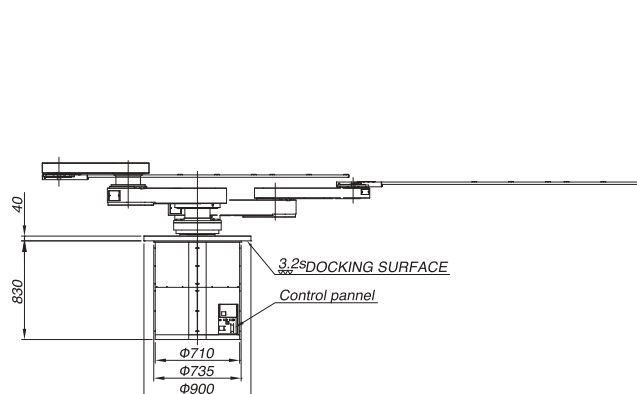
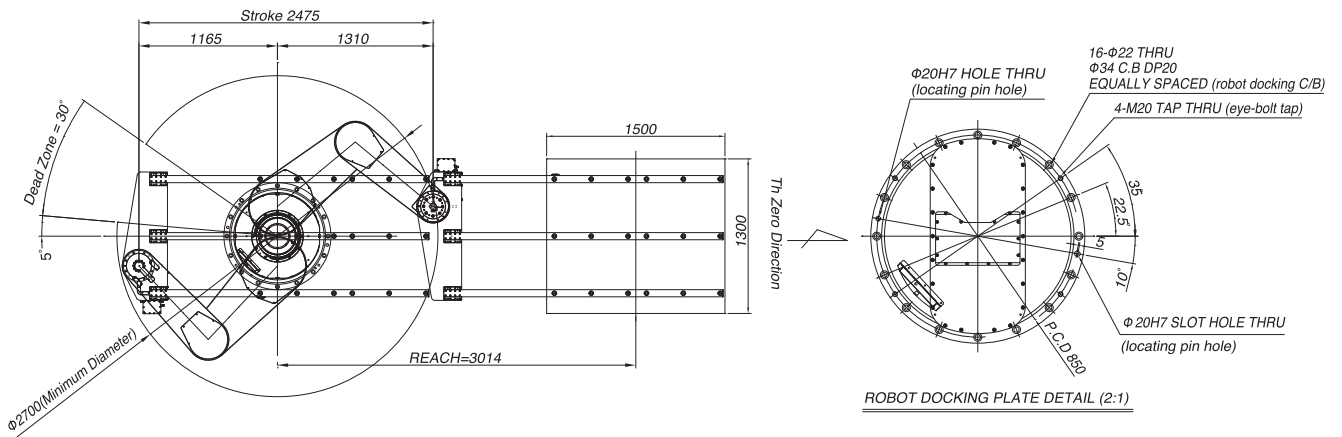


Glass transfer robot with double arms in Vacuum condition

AR-WV5.5G



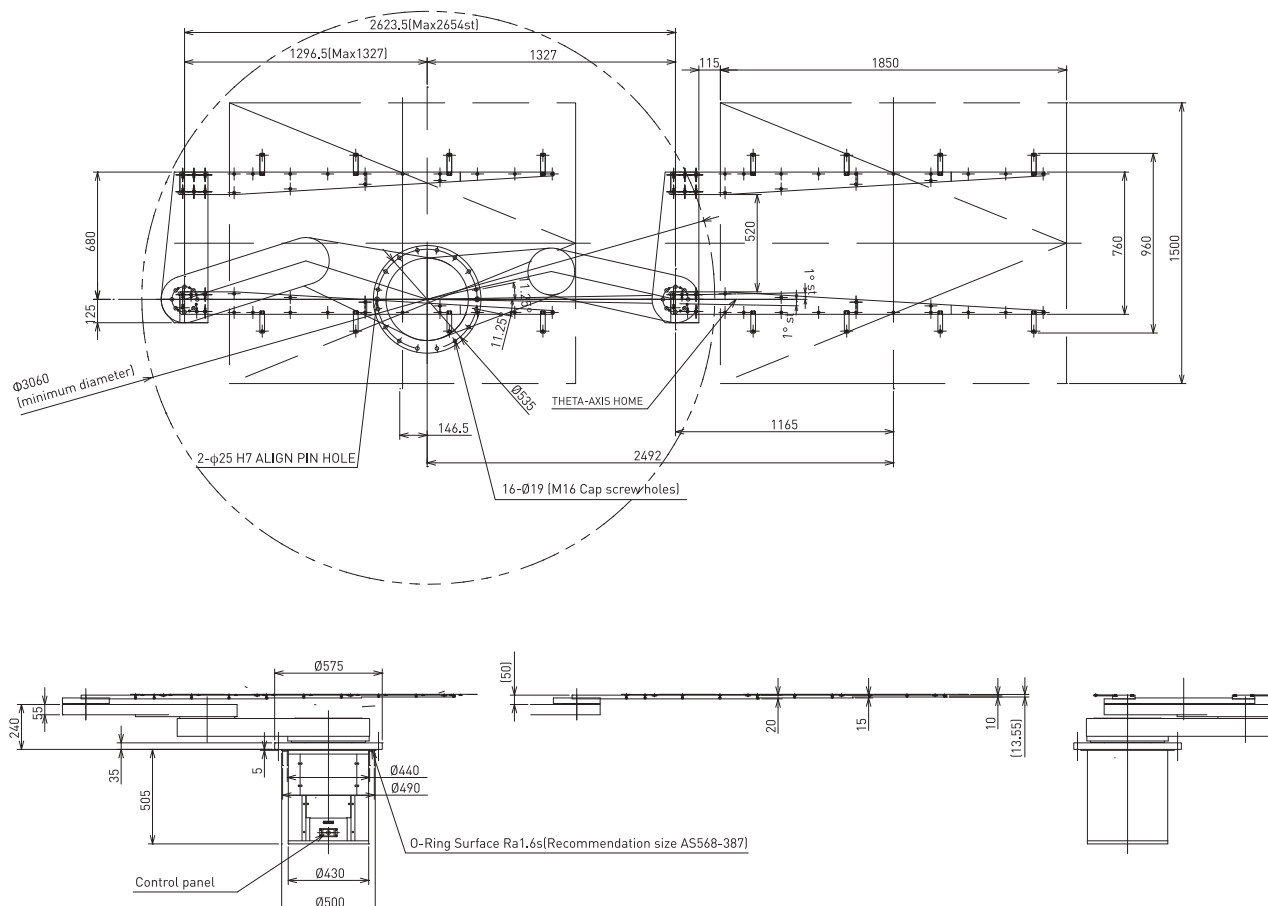
Model Name		AR-WV5.5G-350
Structure		Cylindrical Coordinate
Moving Axes		4
Operating Range	A-axis	2475mm
	B-axis	2475mm
	θ-axis	330°
	Z-axis	350mm
Operating speed (MAX)	A-axis	2475mm/2.5sec
	B-axis	2475mm/2.5sec
	θ-axis	180°/2.5s
	Z-axis	350mm/2s
Vacuum Seal Method		Mechanical lip-seal, Bellows-seal
Repeatability		±0.5mm
Cleanliness		Class 4
Leak rate		$1 \times 10^{-7} (\text{Pa} \cdot \text{m}^3/\text{s})$
Payload		50g(Including the hand)
Operating Environment	Atmospheric	Temp. : 0~40℃ Humid. : 70% under
	Vacuum	Vacuum level : $1 \times 10^{-5} \text{Pa}$ Temp. : 0-80℃
Robot Weight		Approximately 2000Kg



Glass transfer robot with single arm in Vacuum

AR-SV6G

Model Name		AR-SV6G-A28T2
Moving Axis		2
Operation range	A-axis	2600mm
	θ-axis	+/-°(For adjust Resolution 0.001°)
Operation speed (max)	A-axis	1600mm/sec
Time to reach full stroke	A-axis	3.0sec
Repeatability		+/-0.2mm
Leak rate		$1.0 \times 10^{-7} \text{Pa} \cdot \text{m}^3/\text{s}$
Cleanliness		Class 1(0.1μm/cf)
Payload		30Kg(Including end effector)
Operation Environment	Atmospheric side	Temperature 0~40[°C] Humidity 70% or below
	Vacuum side	Vacuum rate : $1.0 \times 10^{-5} \text{Pa}$ (1 x 10 ⁻⁶ Torr) Temperature 0~80[°C]
Robot weight		approximately 160Kg

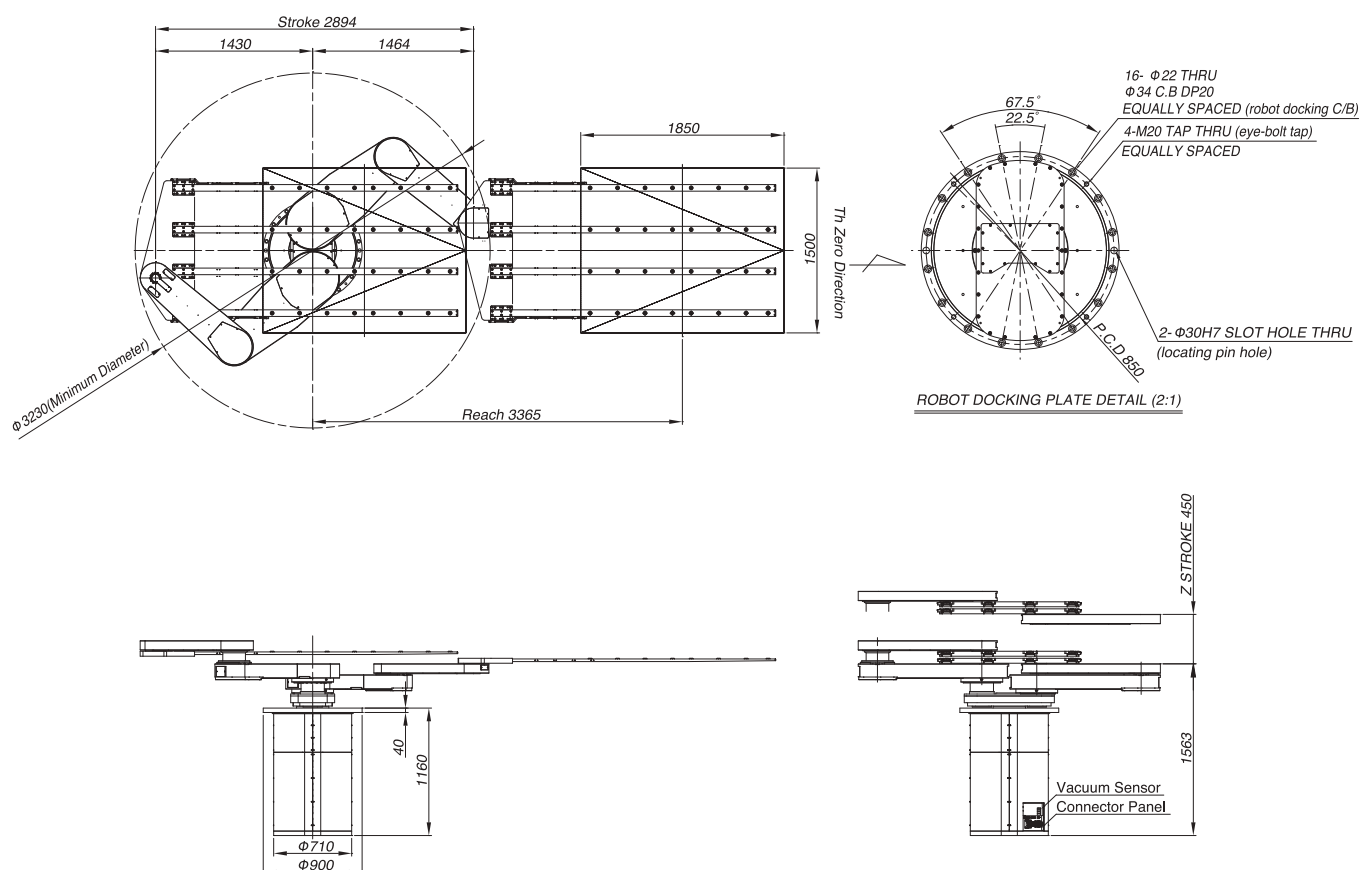


Glass transfer robot with double arms in Vacuum

AR-WV6S



Model Name		AR-WV6S-450
Structure		Cylindrical Coordinate
Moving Axes		4
Operating Range	A-axis	2894mm
	B-axis	2894mm
	θ-axis	330°
	Z-axis	450mm
Operating speed (MAX)	A-axis	2894mm/2.8sec
	B-axis	2894mm/2.8sec
	θ-axis	185°/2.35s
	Z-axis	450mm/2s
Vacuum Seal Method		Mechanical lip-seal, Bellows-seal
Repeatability		±0.5mm
Cleanliness		Class 3
Leak rate		$1 \times 10^{-5} (\text{Pa} \cdot \text{m}^3/\text{s})$
Payload		50kg(Including the hand)
Operating Environment	Atmospheric	Temp. : 0~40°C Humid. : 70% under
	Vacuum	Vacuum level : $1 \times 10^{-5} \text{Pa} (1.0 \times 10^{-8} \text{Torr})$ Temp. : 0-80°C
Robot Weight		Approximately 1700Kg

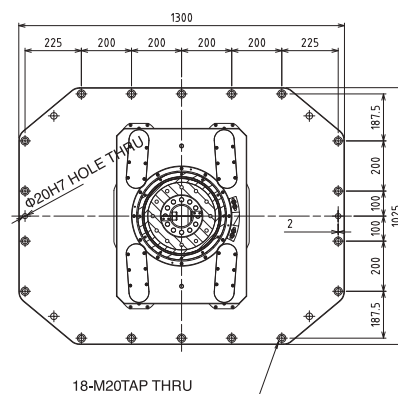
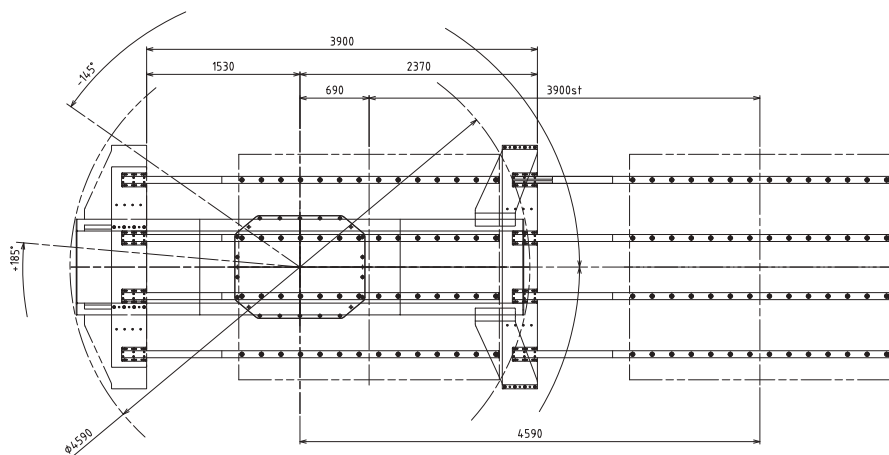


Glass transfer robot with double arms in Vacuum

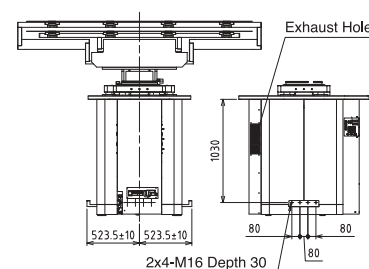
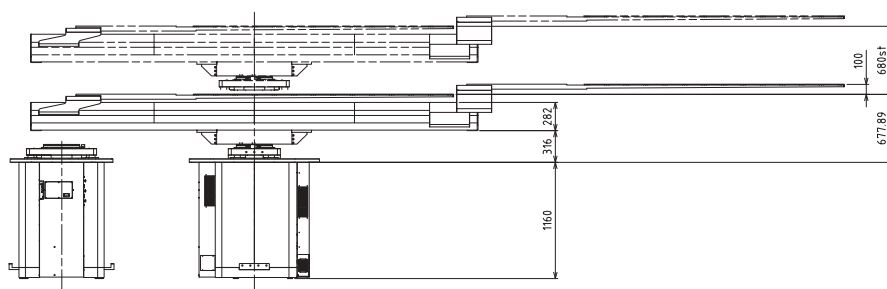
AR-WV8.6G



Model Name		AR-WV8.6G-680
Structure		Cylindrical Coordinate
Moving Axes		4
Operating Range	A-axis	3900mm
	B-axis	3900mm
	θ-axis	+185 ~ -145°
	Z-axis	680mm
Operating speed (MAX)	A-axis	3900mm/2.7sec
	B-axis	3900mm/2.7sec
	θ-axis	180°/3.5s
	Z-axis	650mm/3s
Vacuum Seal Method		Mechanical lip-seal, Bellows-seal
Repeatability		±0.5mm
Cleanliness		ISO Class 4
Leak rate(He)		1 x 10 ⁻⁷ (Pa·m ³ /s He)
Payload		120kg(Including the hand)
Operating Environment	Atmospheric	Temp. : 0~40°C Humid. : 70% under
	Vacuum	Temp. : 0-80°C
Robot Weight		Approximately 1900Kg

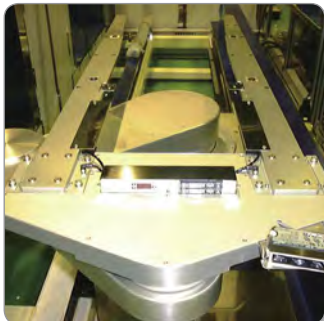


ROBOT DOCKING PLATE DETAIL (10:1)

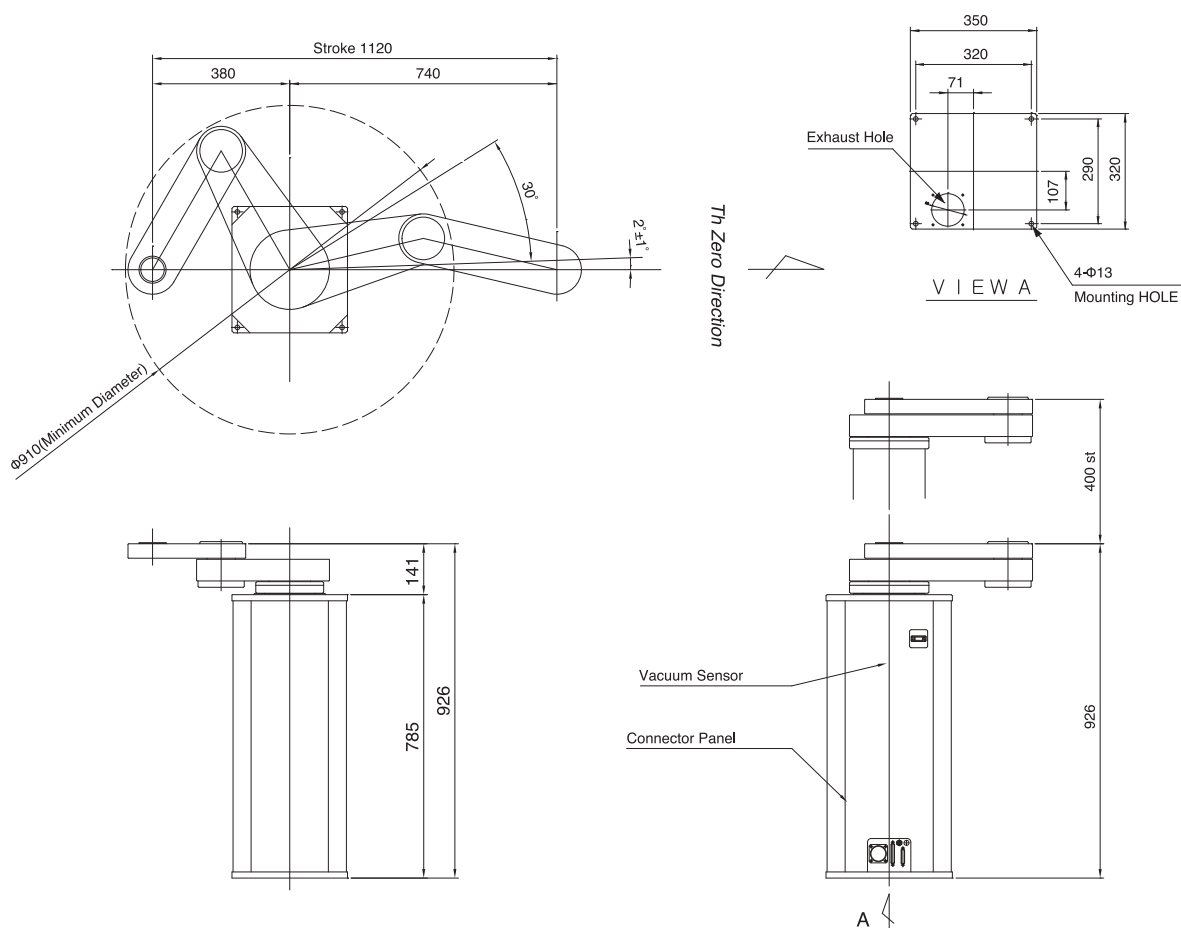


Glass transfer robot with single arm

AR-3GS

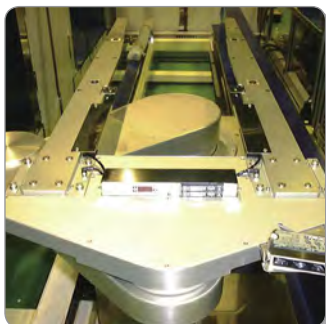


Model Name		AR-3GS-400 / AR-3GS-520 / AR-3GS-600
Structure		Cylindrical Coordinate
Moving Axes		3
Operating Range (MAX)	A-axis	1120mm
	θ-axis	330°
	Z-axis	400mm / 520mm / 600mm
Operating speed (MAX)	A-axis	1400mm/sec
	θ-axis	145 °/s
	Z-axis	210mm/sec
Repeatability		±0.1mm
Cleanliness		Class 10(0.3μm/cf)
Payload		5kg(Including the hand)
Operating Environment		Temp. : 0~40℃ Humid. : 70% under
Robot Weight		Approximately 85kg / Approximately 90kg / Approximately 95kg
Appearance		Aluminium white Alumite SUS buffing (#400)

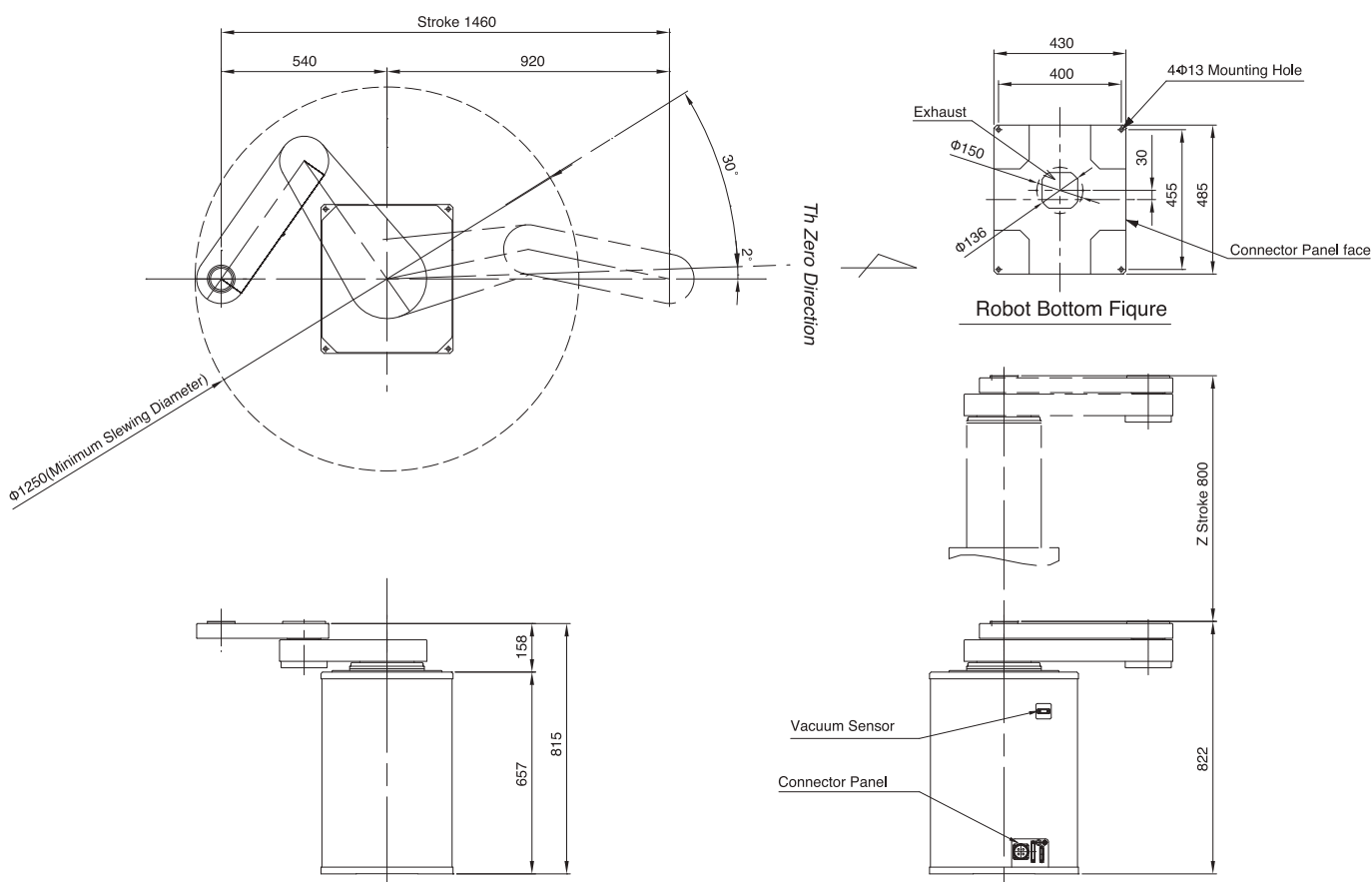


Glass transfer robot with single arm

AR-4GS



Model Name		AR-4GS-800 / AR-4GS-1000
Structure		Cylindrical Coordinate
Moving Axes		3
Operating Range (MAX)	A-axis	1460mm
	θ-axis	330°
	Z-axis	800mm / 1000mm
Operating speed (MAX)	A-axis	1700mm/sec
	θ-axis	145°/s
	Z-axis	400mm/sec
Repeatability		±0.1mm
Cleanliness		Class 10(0.3μm/cf)
Payload		10kg(Including the hand)
Operating Environment		Temp. : 0~40℃ Humid. : 70% under
Robot Weight		Approximately 210kg Approximately 230kg
Appearance		Aluminium white Alumite SUS buffing(#400)

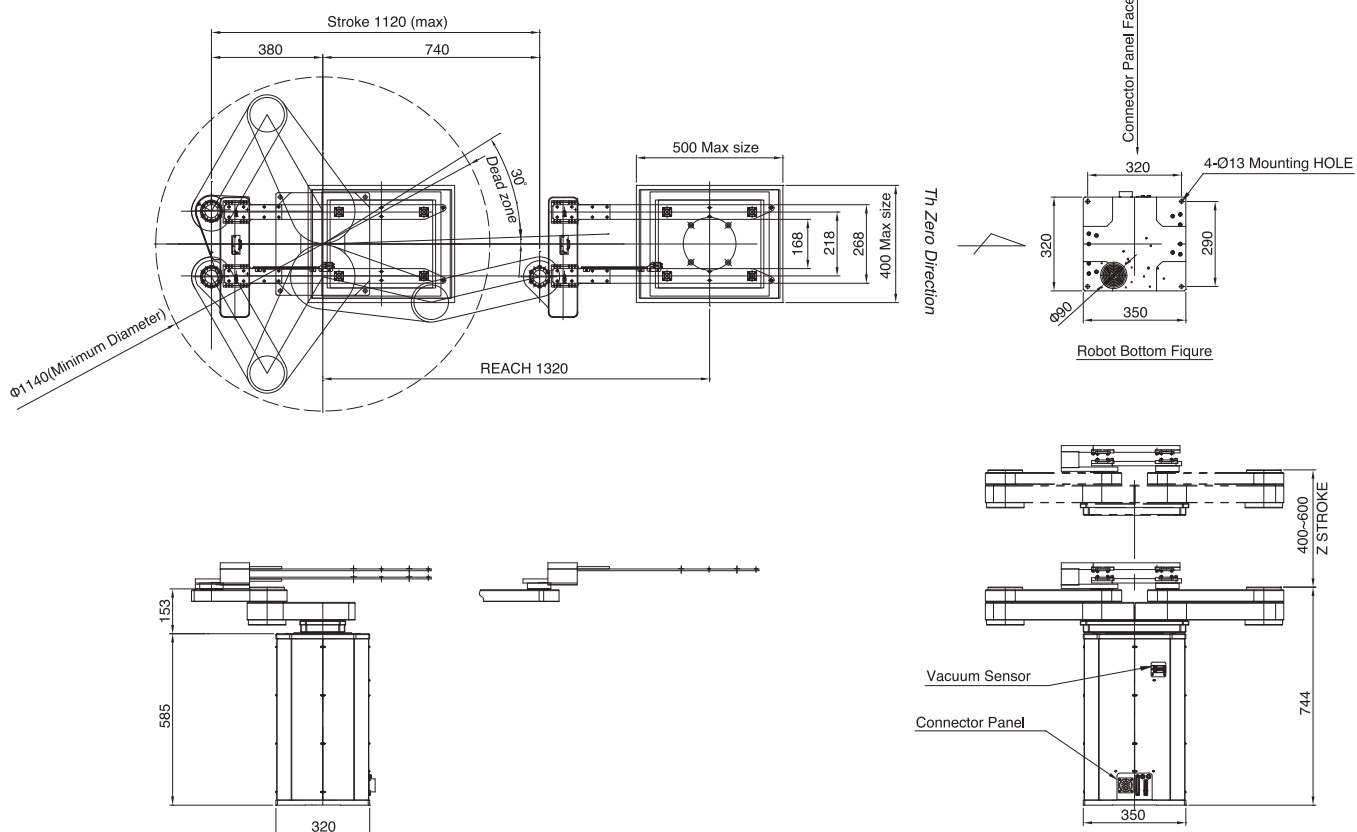


Glass transfer robot with double arms

AR-3GW



Model Name		AR-3GW-400 / AR-3GW-520 / AR-3GW-600
Structure		Cylindrical Coordinate
Moving Axes		4
Operating Range (MAX)	A-axis	1120mm
	θ-axis	330°
	Z-axis	400mm / 520mm / 600mm
Operating speed (MAX)	A-axis	1400mm/sec
	θ-axis	145°/s
	Z-axis	210mm/sec
Repeatability		±0.1mm
Cleanliness		Class 10(0.3μm/cf)
Payload		5kg/1 per(Including the hand)
Operating Environment		Temp. : 0~40℃ Humid. : 70% under
Robot Weight		Approximately 100kg / Approximately 105kg / Approximately 110kg
Appearance		Aluminium white Alumite SUS buffing(#400)

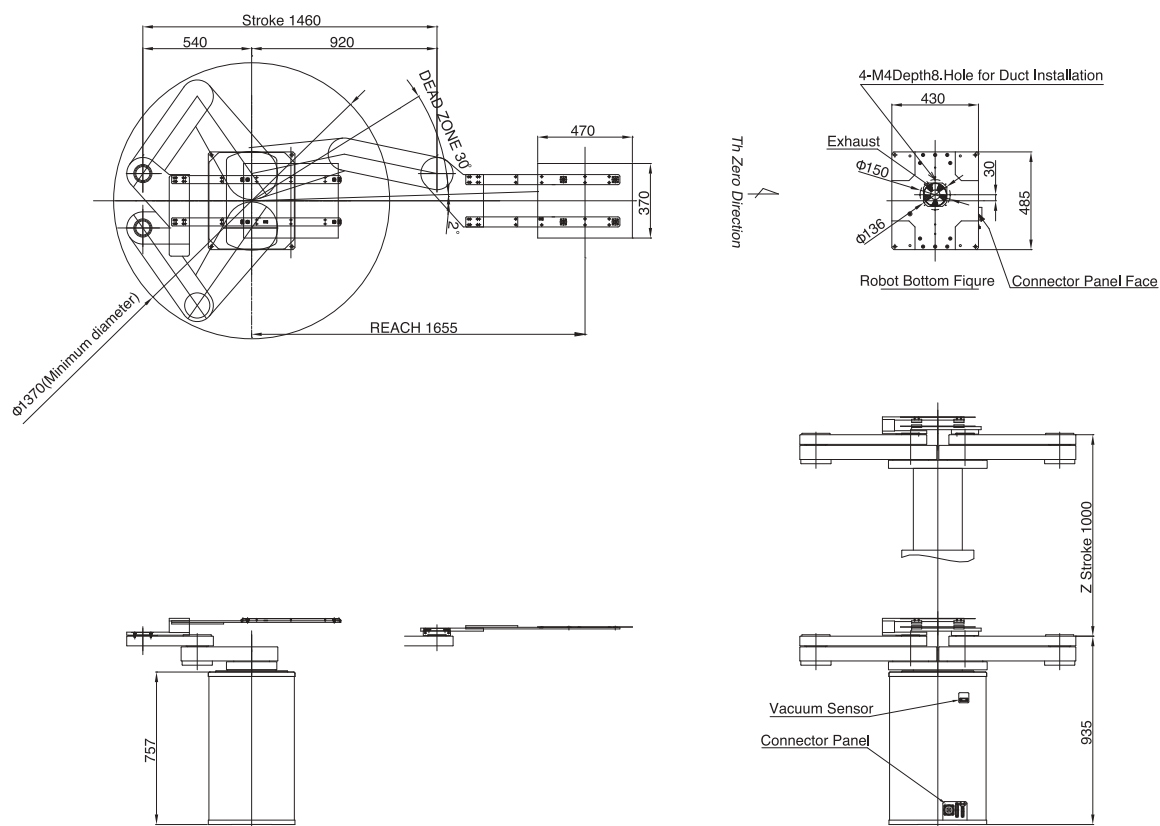


Glass transfer robot with double arms

AR-4GW



Model Name		AR-4GW-800 / AR-4GW-1000
Structure		Cylindrical Coordinate
Moving Axes		4
Operating Range (MAX)	A, B-axis	1460mm
	θ-axis	330°
	Z-axis	800mm / 1000mm
Operating speed (MAX)	A, B-axis	1700mm/sec
	θ-axis	145 °/s
	Z-axis	400mm/sec
Repeatability		±0.1mm
Cleanliness		Class 10(0.3μm/cf)
Payload		10kg/1 per(Including the hand)
Operating Environment		Temp. : 0~40℃ Humid. : 70% under
Robot Weight		Approximately 250kg Approximately 270kg
Appearance		Aluminium white Alumite SUS buffing(#400)

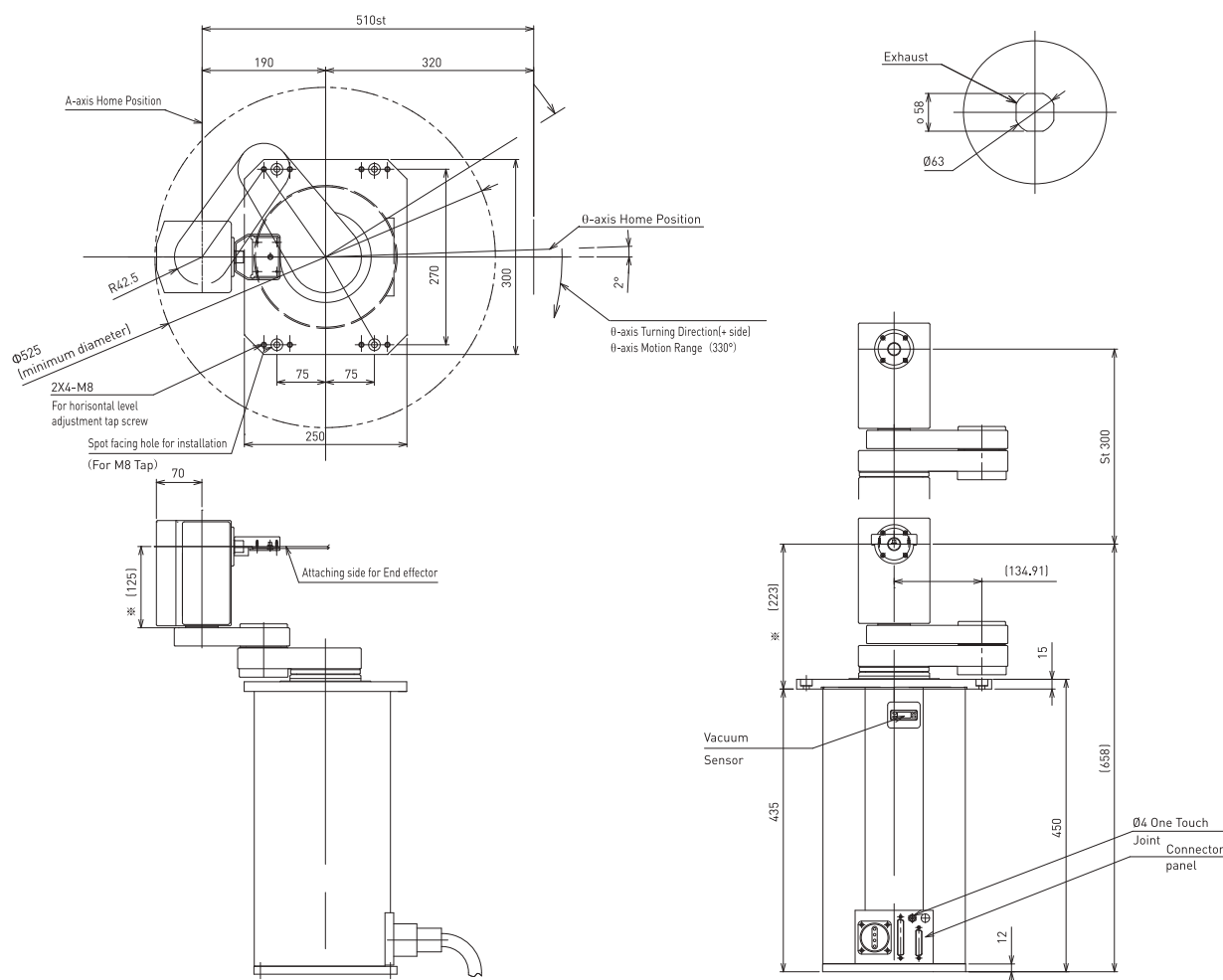


Glass transfer robot with single arm(Reverse type)

AR-3GSR



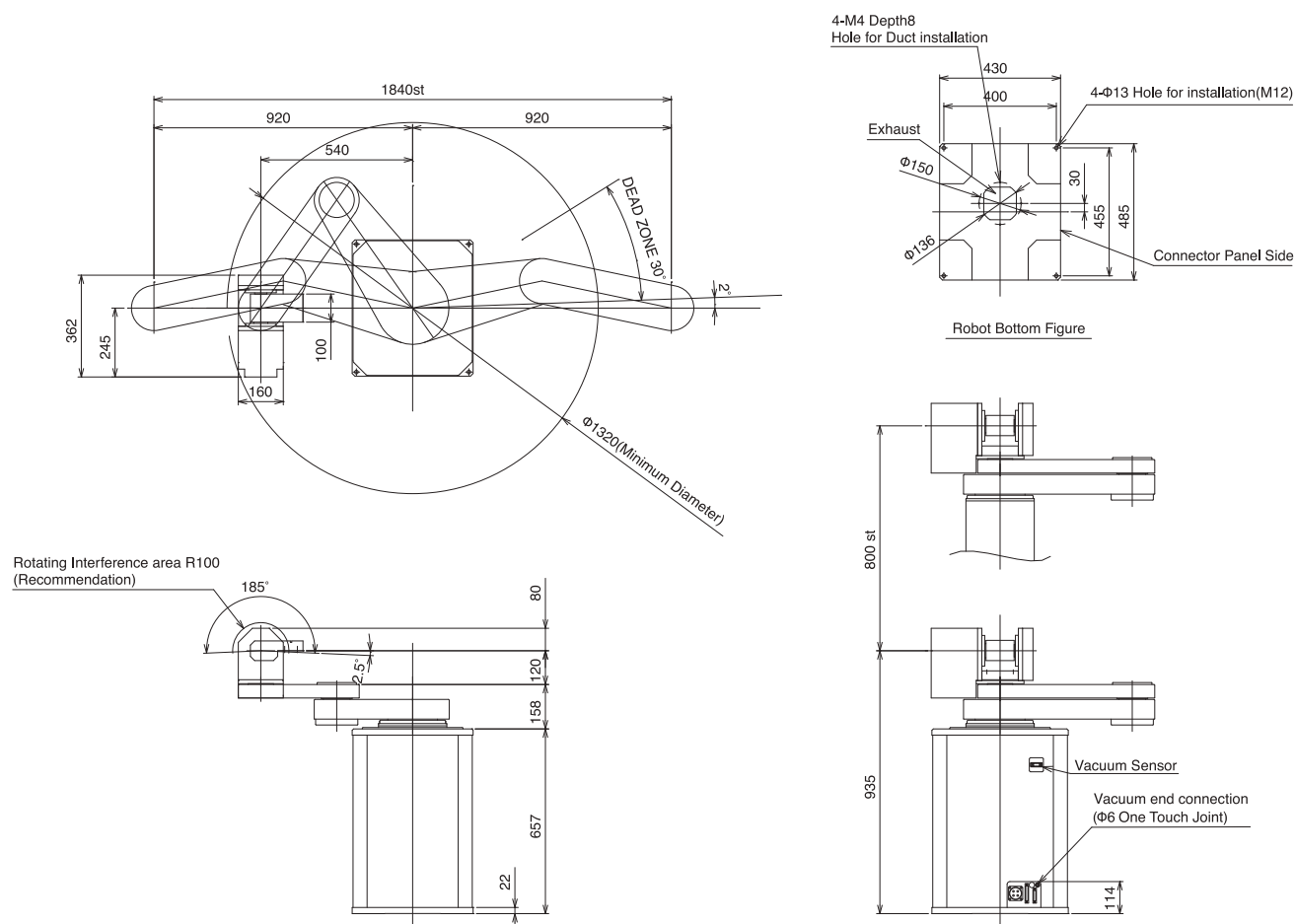
Model Name		AR-3GSR
Structure		Cylindrical Coordinate
Moving Axes		3+1
Operating Range (MAX)	A-axis	1120mm
	θ-axis	330°
	Z-axis	400mm / 520mm / 600mm
	R-axis	185°
Operating speed (MAX)	A-axis	800mm/s
	θ-axis	100°/sec
	Z-axis	150mm/s
	R-axis	30°/s
Repeatability		±0.2mm
Cleanliness		Class 10(0.1μm/cf)
Power		Vacuum 54kPa(over) 10NL/min
Payload		4kg/1 per arm(Including the hand)
Operating Environment		Temp. : 0~40℃ Humid. : 70% under
Robot Weight		Approximately 100kg / Approximately 105kg / Approximately 110kg
Appearance		Aluminium white Alumite, SUS buffing (#400)



AR-4GSR



Model Name		AR-4GSR
Structure		Cylindrical Coordinate
Moving Axes		3+1
Operating Range (MAX)	A-axis	1460mm
	θ-axis	330°
	Z-axis	800mm / 1000mm
	R-axis	185°
Operating speed (MAX)	A-axis	1000mm/s
	θ-axis	100°/sec
	Z-axis	400mm/s
	R-axis	30°/sec
Repeatability		±0.2mm
Cleanliness		Class 10(0.1μm/cf)
Power		Vacuum 54kPa(over) 10NL/min
Payload		10kg/1 per arm(Including the hand)
Operating Environment		Temp. : 0~40℃ Humid. : 70% under
Robot Weight		Approximately 225kg Approximately 245kg
Appearance		Aluminium white Alumite, SUS buffing(#400)

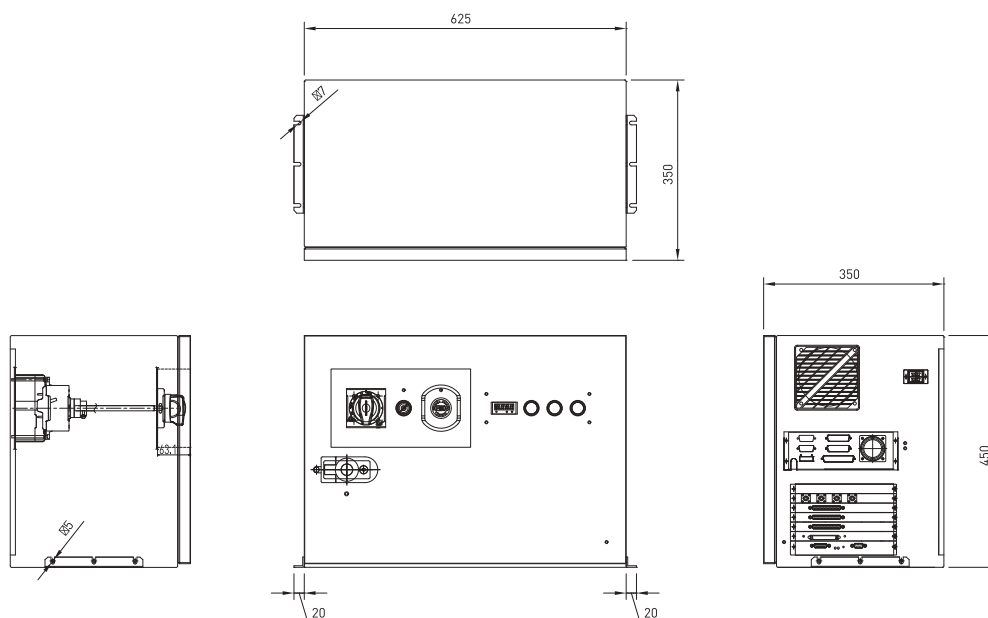


MEMO

Controller

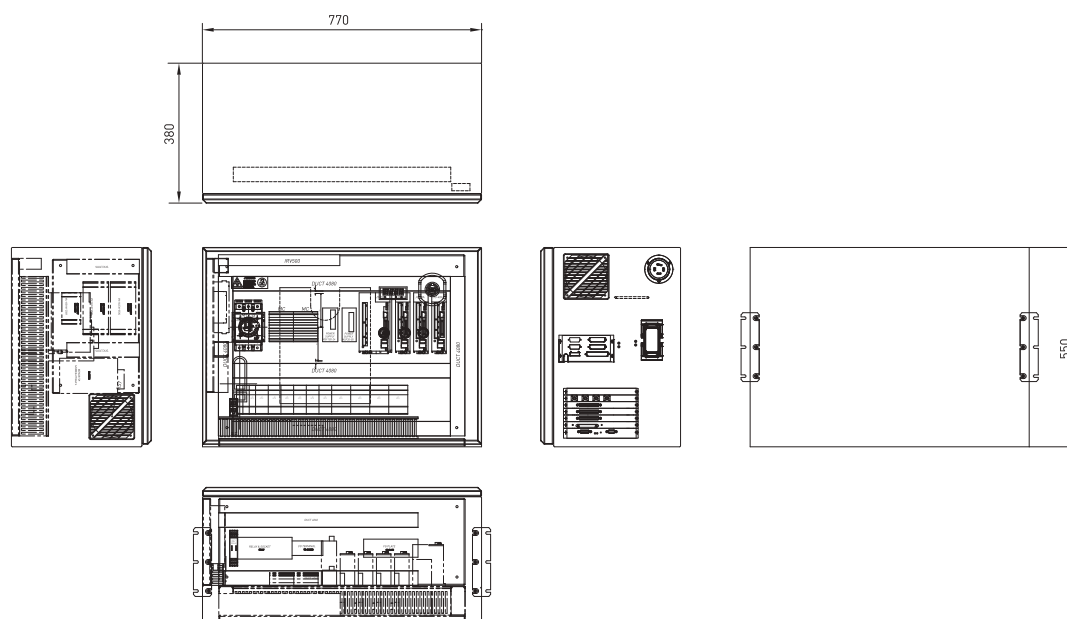
DAI-2500A

Model Name	2500A
Voltage / Frequency	AC200 ~ 230V $\pm 10\%$ 10A 50/60Hz
Capacity(kVA)	1.0 KVA
Operation Conditions	Temperature : 0~40℃, Humidity : 70% (No condensing)
Weight	42kg



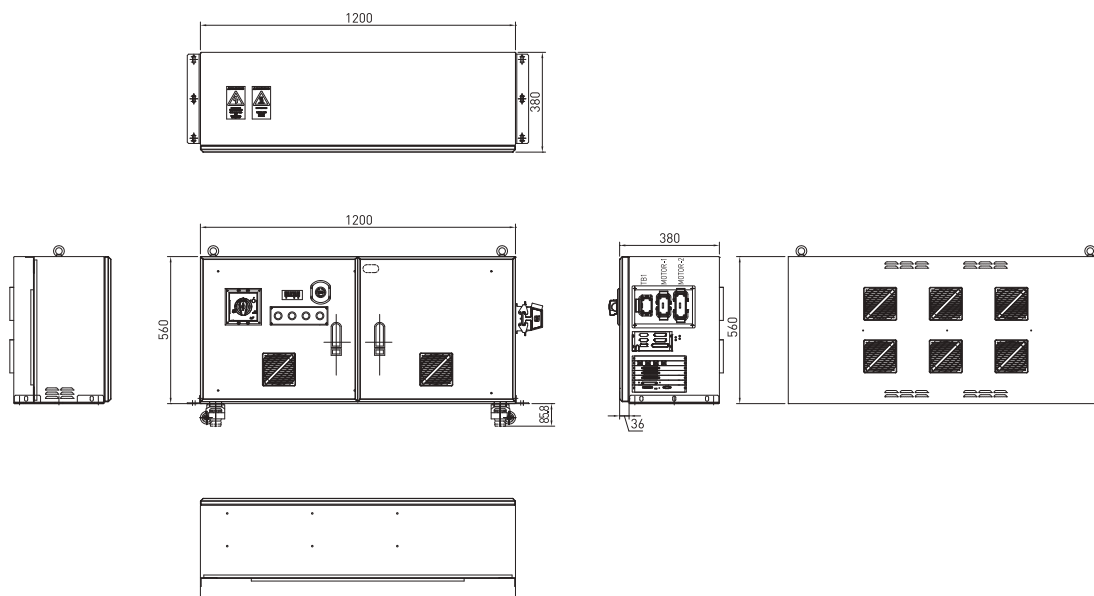
DAI-2500B

Model Name	2500B
Voltage / Frequency	AC200 ~ 230V $\pm 10\%$ 18A 50/60Hz
Capacity(kVA)	7.0 KVA
Operation Conditions	Temperature : 0~40℃, Humidity : 70% (No condensing)
Weight	80kg

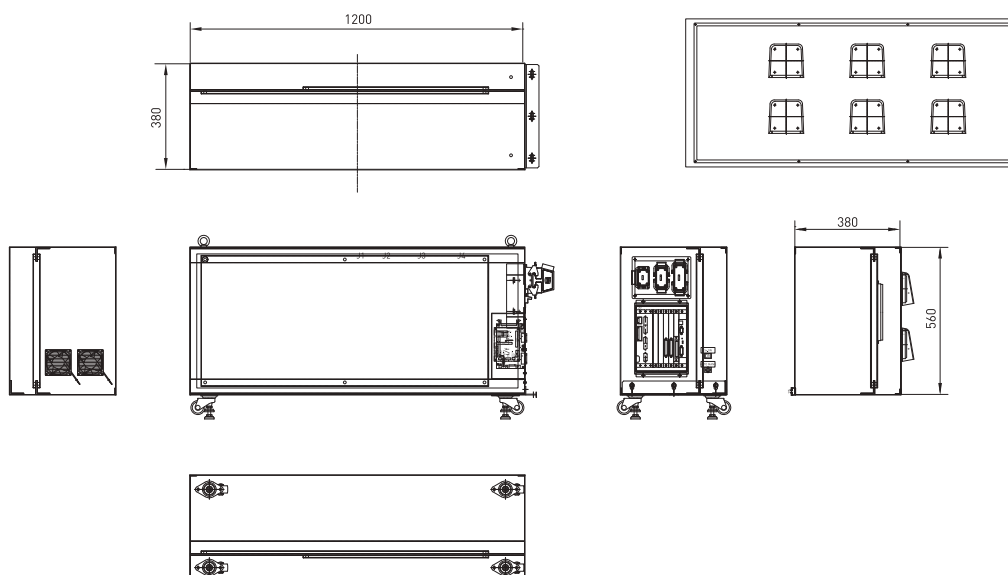


DAI-2500C

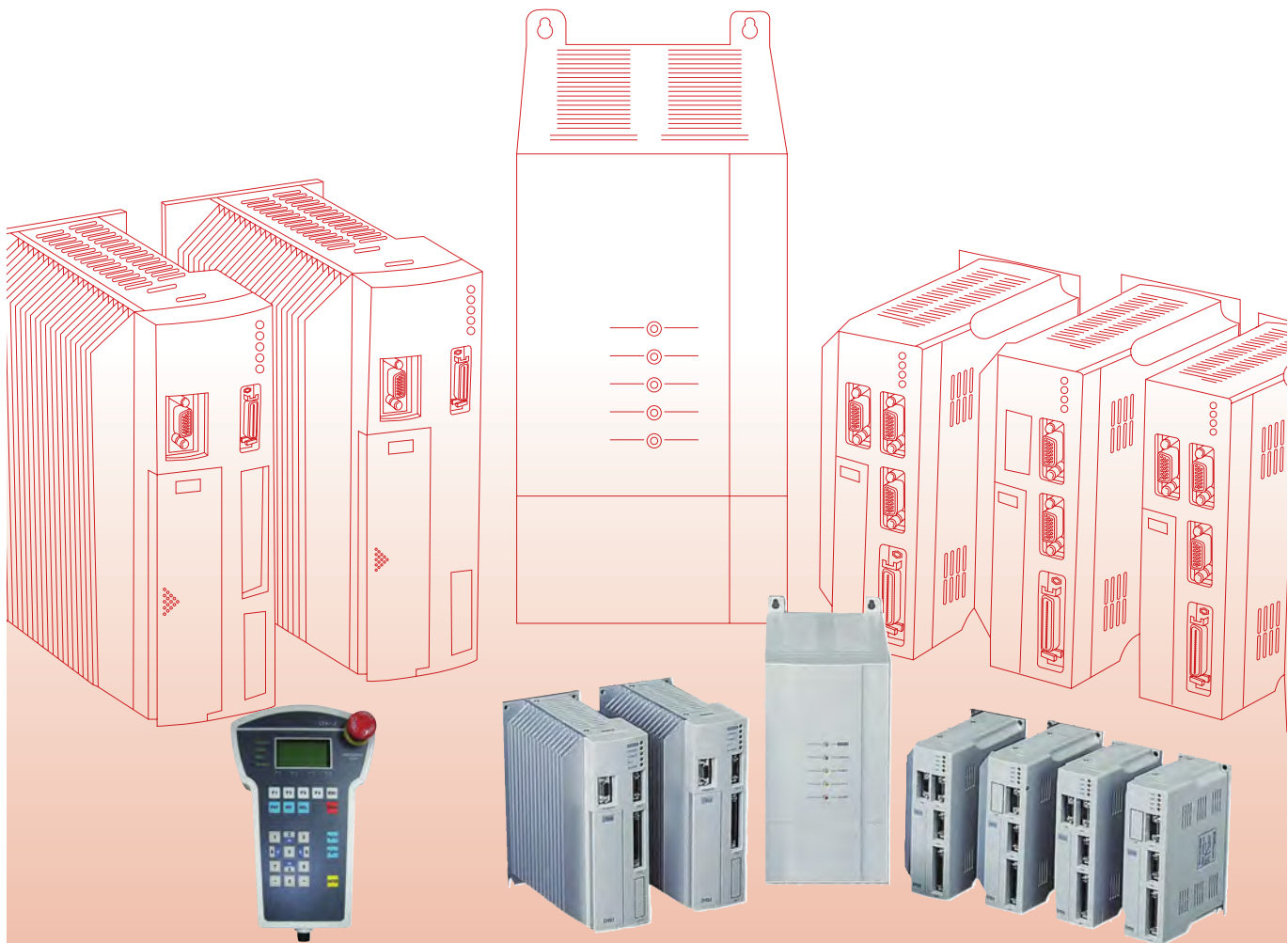
Model Name	2500C
Voltage / Frequency	AC200 ~ 230V $\pm 10\%$ 60A 50/60Hz
Capacity(kVA)	16.5 KVA
Operation Conditions	Temperature : 0~40°C, Humidity : 70% (No condensing)
Weight	150kg

**DAI-2500F**

Model Name	2500F
Voltage / Frequency	AC200 ~ 230V $\pm 10\%$ 60A 50/60Hz
Capacity(kVA)	16.0 KVA
Operation Conditions	Temperature : 0~40°C, Humidity : 70% (No condensing)
Weight	120kg



SINGLE AXIS CONTROLLER / iMS - Jp series



Contents

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iMS - Jp series

Feature

iMS - Jp series is a single axis controller which is characterized by high speed, high accuracy, and motion stability because it adopts the latest 32bit · DSP · CPU and intelligent power module.

iM-J 시리즈는 최신 32비트, DSP, CPU 그리고 지능형 파워모듈을 적용하여 고속, 높은 정확도 및 모션 안정성의 특징으로 하는 단축컨트롤러입니다.

1. All in One - Control system including motion control, servo amp, and sequence function

All in One - 컨트롤러 시스템에 모션컨트롤, 서보앰프, 시퀀스 기능을 포함합니다.

2. Various Application - Synchronous operation, position transfer by bit

Transfer by external pulse without motion operation.

다양한 어플리케이션 - 동기 운전, 비트에 의한 위치전송, 모션 연산을 하지 않고 외부 펄스에 의한 전송이 가능합니다.

3. Easy Application - Torque sensing and various outputs by time or interval

용이한 어플리케이션 - 시간이나 간격을 통한 토크 감지 및 다양한 출력이 가능합니다.

4. Remote control and programming by RS232/422 interface

RS232/422 인터페이스에 의한 원격제어 및 프로그래밍이 가능합니다.

5. Easy operation and monitoring by touch screen

터치 스크린으로 쉽게 조작 및 모니터링이 가능합니다.

6. Various motor brands compatible(DST ROBOT, SAMSUNG, HIGEN, TAMAGAWA, PANASONIC etc.)

다양한 모터 브랜드들과 호환이 가능합니다.(DST Robot, Samsung, HIGEN, Tamagawa 등)

7. User can set basic input bit and output bit.

사용자가 기본 I/O BIT 설정할 수 있습니다.

8. Efficient scalability for feeder unit, IO transmitter, and so on

피더유닛, IO 송신기 등의 효율적인 확장이 가능합니다.

9. I/O control by CC-Link or ProfiBus converter.

CC-Link 또는 ProfiBus로 I/O제어가 가능합니다.



Ordering Model

①

Series

iMS - Jp

②

Motor capacity

0200

③

Option

CC

① Series

Name of the series : iMS - Jp is a single axis controller

② Motor capacity

Motor capacity(W)

(Ex : 200 = 200W)

③ Option

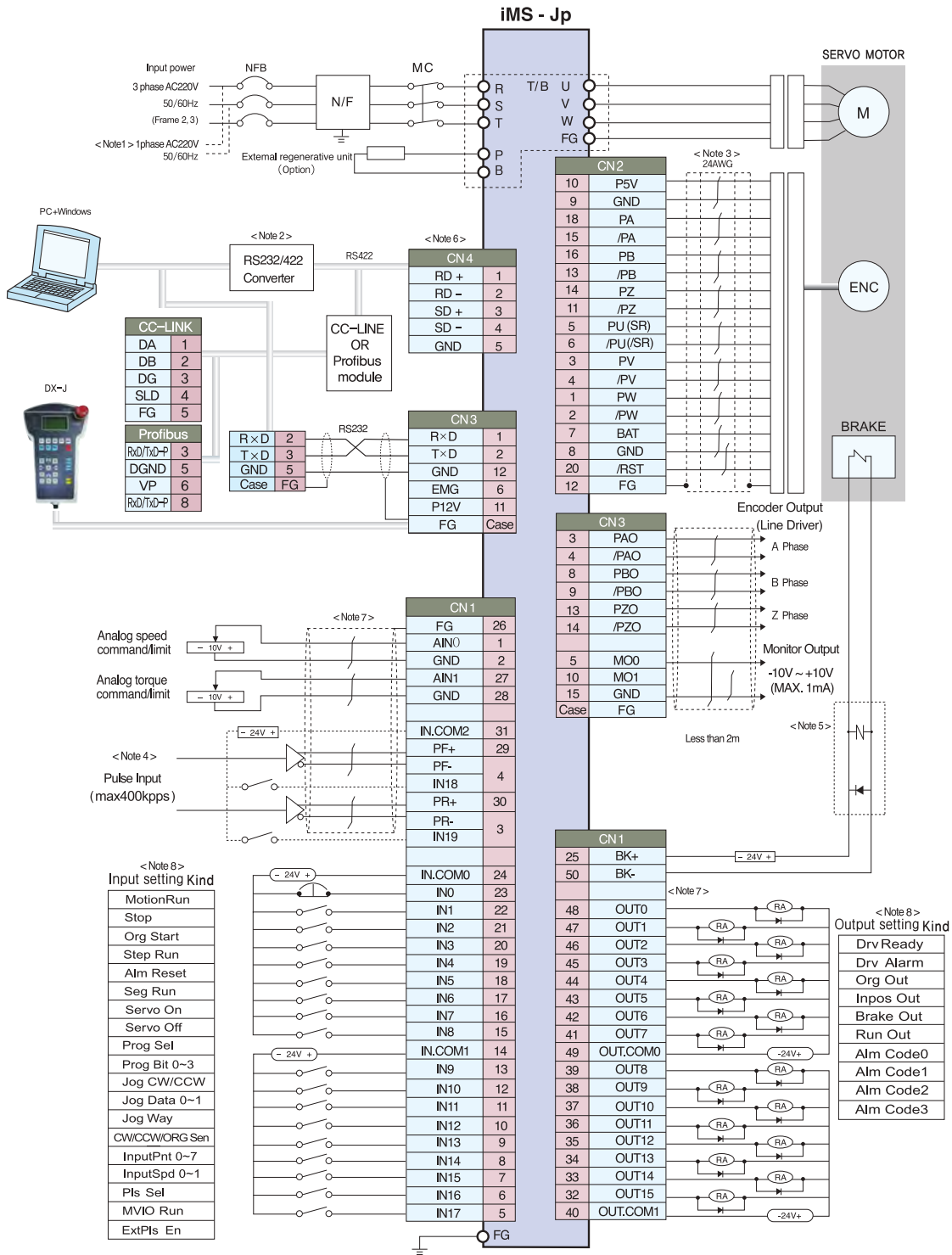
CC : CC-Link connection

PB : ProfiBus connection

Model List

Series	-	Motor Capacity	-	Option
iMS - Jp	-	0100	-	CC PB
		0200		
		0400		
		0600		
		0800		
		1000		

Wiring Diagram



 (Note)

1. If single phase power is used, make sure that it is connected to terminal R and S. (Frame1)
2. Multi-drop operation by RS422 interface enables simultaneous control of up to 32 sets of controllers. Both of RS232 and RS422 are not able to be connected at the same time. Only one of them is able to be connected.
3. The cable for encoder should be twisted and shielded. If the cable length exceeds 5m, the cable must be higher than AWG24.
4. PF and PR input are available for line driver and open collector input. In case of open collector input, PF and PR inputs can be used as general input(IN18, IN19)
5. A diode and ZNR should be connected to brake terminals as the diagram shows. If the power for brake is not DC24V, please contact our representative for technical assistance.
6. As option, CN4 is the pin layout of Frame1. Regarding Frame2, please refer to their operating manual.
7. Please do not connect any terminal if its function is not specified.
8. It is a kind of setting. Please set up at the parameter
9. It is not possible to use CC Link and ProfiBus at the same time.

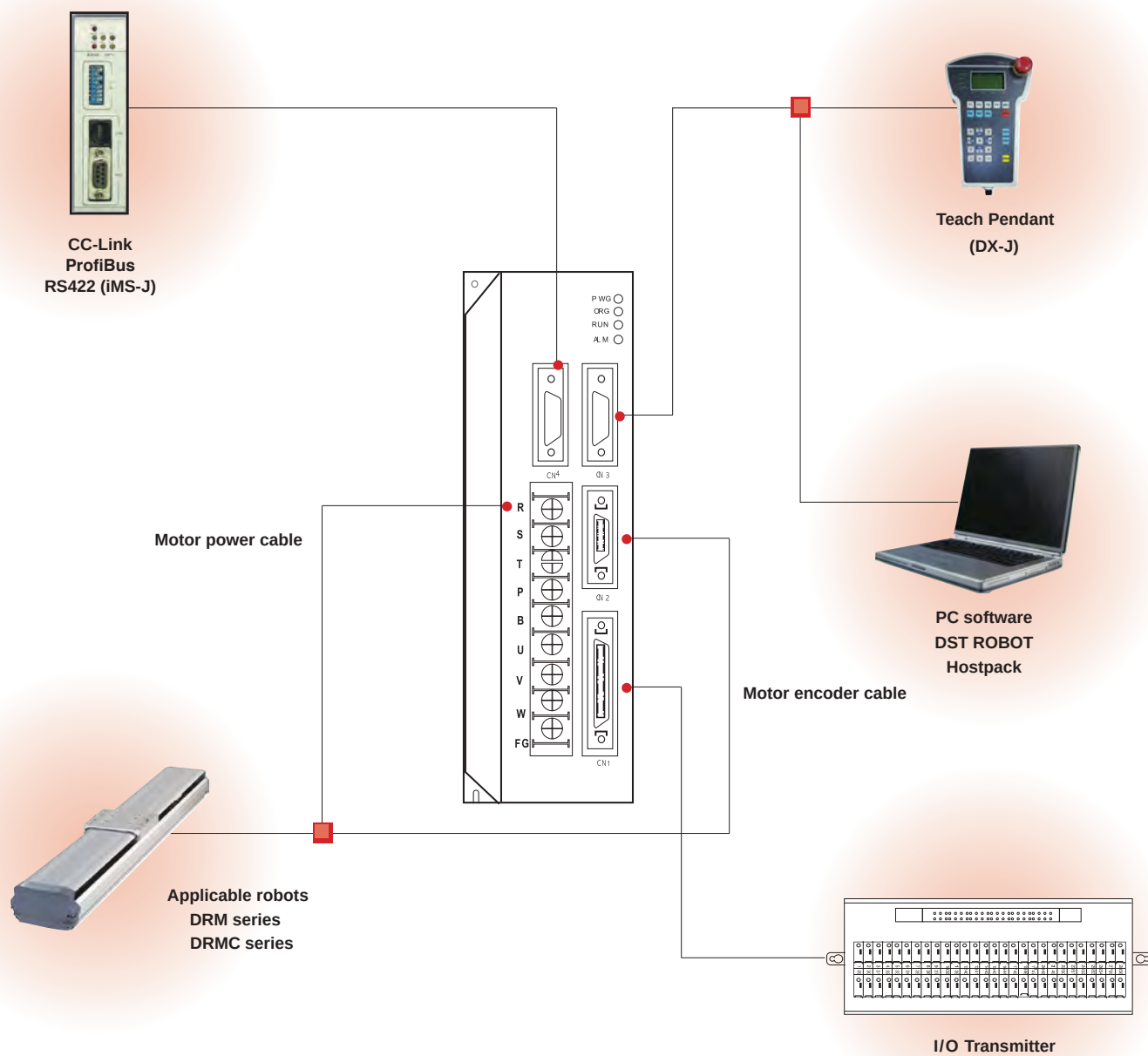
Specification

Frame		Frame 1			Frame 2		
Rated power output (W)		0100	0200	0400	0600	0800	1000
Power	Voltage/Frequency	Single-phase AC220V, 50/60Hz			Three-phase AC 220V, 50/60Hz		
	Capacity(KVA)	0.5 ~ 1.0			1.0 ~ 2.0		
Applicable Encoder Type		Pulse Encoder type (Line Driver : 9/15 Lines) / Serial Encoder type(Line Driver : 4/6 Lines)					
Programming tool		Teach Pendant (DX-J), PC (IBM compatible)					
Position data input		MDI, Direct Teaching, PC (IBM compatible), Touch Panel					
Program language		DARLI (DST ROBOT's Advanced Robot Language)					
Sequence command		14 command sets (AND, OR, NOT, TIMER, COUNTER, etc)					
Control accuracy		Within±1pulse of encoder					
Serial interface		RS232 and RS422, CC-link(Note1), Profibus(Note2)					
Input Output	General I/O	20/16 points (Extension : 16/8 points, only frame 3)					
	Special I/O	Pulse Input (1 Port), Analog Input (2 Port), Encoder output (A, B, Z), Monitor output (2 Port)					
	Internal I/O	216 points					
Special function		Synchronous control, Infinite revolution motion, Speed override, Torque sensing, I/O parallel processing					
Safety Function		IPM Error, Over Current, Over Load, Encoder Error, Under/Over Voltage, Following Error					
Dynamic Brake		Built-in					
Regenerative resistor		External connection (Standard spec.)					
Operating conditions	Operation	0~45°C/20~80%RH (No condensing)					
	conditions	-10~60°C/10~90%RH (No condensing)					
	Set-up environment	No erosive gas or explosive gas, No oil mist					
	Vibration	Less than 0.5G					
Weight(kgf)		0.8			1.3		
Motor type		AC Servo Motor (DST ROBOT, SAMSUNG, HIGEN, TAMAGAWA, PANASONIC)					
Cooling method		Natural air-cooling					
Teach pendant		DX-J : The standard length of cable is 3m and extends to 15m (option)					

Note

Specifications	CC-Link (Note1)	ProfiBus (Note2)
Protocol	CC-Link Slave V2.0	ProfiBus-DP Slave, En 50170/DIN19245
Interface	RS-422(Electric)/Bus Topology	RS-422(Electrically isolated)
Communication speed	10M/5M/2.5M/625K/156Kbps	9600~12Mbps/Auto Baudrate
Communication system	Broadcast Polling System	1.2km~100m/Adjustment by Baudrate
Extended cyclic setting	×1/ ×2/ ×Φ4/ ×Φ8	32 station/Segment
Max. no. of occupied stations	4 stations	Input 64Byte/Output 64 Byte
Link access	Remote device station	9 Pin D-Sub
Terminating Resistance	110 ohm, 1/2w(Link between DA and DB)	220 ohm, 1/2w(Link between A & B)

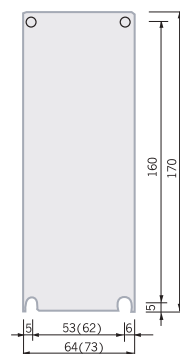
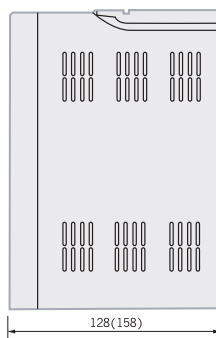
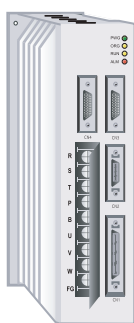
System Configuration



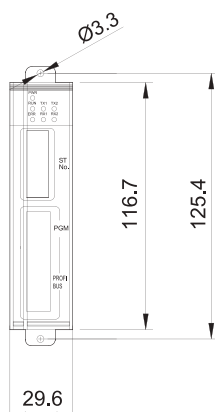
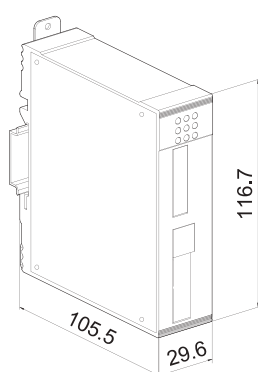
Dimensions

Frame 1 / Frame 2

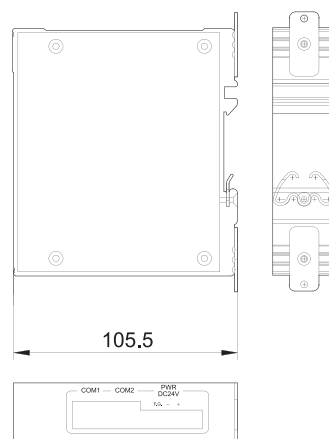
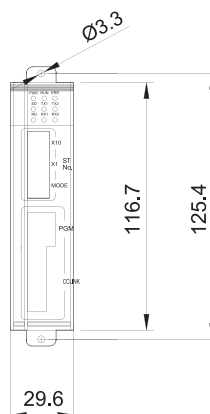
※The value in () indicates the dimension of Frame 2



CC-Link & ProfiBus Converter



ProfiBus

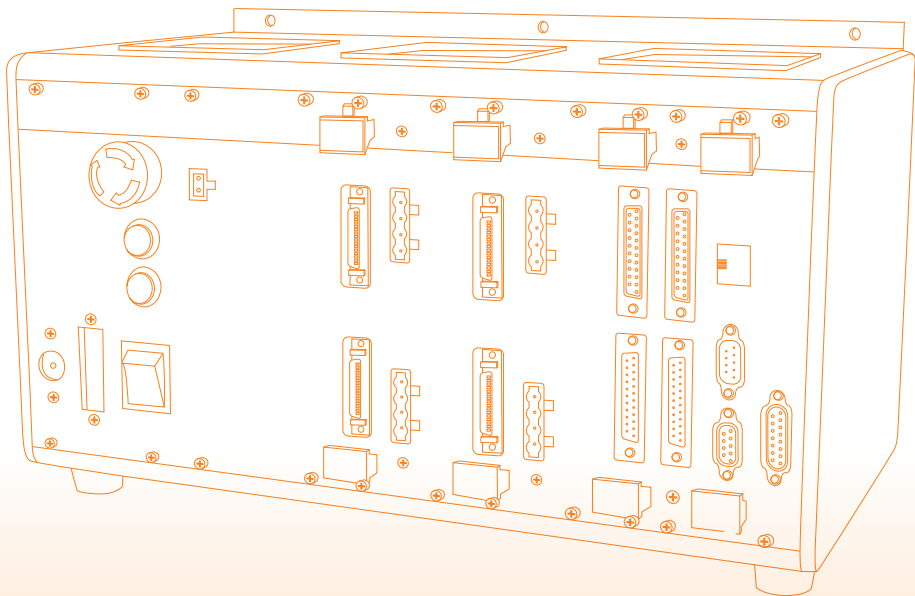


CC-Link

MULTI AXES CONTROLLER / iM-U series

Option : 

Standard :   



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iM-U series

Feature

iM-U series is characterized by high speed, high accuracy, and motion stability because it adopts high performance of a digital amplifier which is controlled by 32 bit DSP. It is designed to control from 2-axis robot to 8-axis robot or 8 single axes robot at once.

iM-U시리즈는 특별히 32비트 DSP에 의해 제어되는 고성능 디지털증폭기를 사용하여 고속, 높은 정확도 및 모션 안정성의 특징을 바탕으로 개발되었습니다.

본 제어기는 2축부터 8축까지 제어가 가능하며, 8축의 로봇을 한번에 구동시킬 수 있습니다.

1. Cost effective of all-in-One functions All-in-One 기능의 비용효과

The iM-U series controller combines the functions of motion control, servo drive, and PLC function into a compact unit. Therefore, iM-U controller offers high performance with cost-effectiveness

iM-U시리즈 제어기는 모션컨트롤, 서보 드라이버, 그리고 PLC기능을 하나의 장치로 결합시킵니다.

그러므로, iM-U제어기는 비용효과와 함께 높은 성능을 자랑합니다.

2. Possible to control multi axes of Cartesian robots, Desktop robots, SCARA robots, and Linear servo motor Cartesian robots

다축의 직교로봇, 데스크탑로봇, 스카라 로봇, 그리고 리니어서보모터 컨트롤 가능

The iM-U series are capable of controlling more number of 2 axes of the DRM, DRMC, DTR(Built-in), DS and DLM series robots at the same time.

iM-U 시리즈는 DRM, DRMC, DTR, DS 및 DLM 시리즈 로봇을 동시에 2축 이상의 수를 제어 할 수 있습니다.

3. Multitasking 멀티태스킹

The iM-U controller executes each different 4 robot motion programs with maximum 8axes, simultaneously and independently.

iM-U 제어기는 동시에 또는 독립적으로, 각 다른 4대의 로봇의 모션프로그램을 최대 8 축으로 실행할 수 있습니다.

4. Various options and extensive usage 다양한 옵션 및 광범위한 사용

The iM-U can connect touch screen, CCD camera, magnetic sensor, photo sensor, solenoid, MPG etc.

It accommodates installation of extension board up to 8 axes and network options (CC-Link, Profibus) are selectable.

iM-U 제어기는 터치스크린, CCD카메라, 마그네틱 센서, 포토센서, 솔레노이드, MPG등과 연결될 수 있습니다.

또한 8축까지 확장 보드의 설치가 가능하며 네트워크 옵션(CC-Link, Profibus)을 선택할 수 있습니다.

5. User friendly software 사용자 친화적 소프트웨어

The iM-U series has different types of software to use easy and enhance system performance.

It provides the general purpose software, dispensing software, and screw tightening software, and also PC software.

iM-U제어기는 서로 다른 유형의 소프트웨어를 쉽게 사용하고 시스템 성능을 향상시키기 위해 다양한 소프트웨어를 보유하고 있습니다.

일반적인 소프트웨어, 디스펜싱 소프트웨어, 나사체결 소프트웨어, 그리고 PC소프트웨어등을 제공합니다.

*Specifications & Requirements are required a prior consultation

*사양 및 요구사항은 사전 협의를 거쳐야 합니다.



Ordering Model

① Series	② Axis	③ Converter Capacity	④ Type of amp module	⑤ Option
iM-U	7	4000	D B A N	IEM

① Series

Name of the Series :
Unicon series are
the multi axis controller

② Axis

Number of applicable axis
500w : 2~4
2000, 4000w : 2~8

③ Converter Capacity

모터파워 공급용량, 모터용량의
합계가 이 용량을 넘지 않아야 함
0500 : 500w Max
2000 : 2000w Max
4000 : 4000w Max

④ Type of amp module

※AMP module is based on individual axis

AC Servo : Pulse train encoder type
(Ex, KOMOTEK MOTOR)

A : Low capacity 1 axis(100~400w / Axis)
B : Low capacity 2 axis(100~400w / Axis)
C : High capacity 1 axis(100~1kw / Axis)
D : High capacity 2 axis(100~1kw / Axis)
E : Super high capacity 1 axis(1kw~2kw / Axis)

AC Servo : Serial encoder type(Inc / Abs)
(Ex, PANASONIC MOTOR)

K : Low capacity 1 axis(100~400w / Axis)
L : Low capacity 2 axis(100~400w / Axis)
M : High capacity 1 axis(100~1kw / Axis)
N : High capacity 2 axis(100~1kw / Axis)
O : Super high capacity 1 axis(1kw~2kw / Axis)

Stepping motor amp

S : 2 Phase step 1 axis
T : 2 Phase step 2 axis
U : 2 Phase step 3 axis
V : 2 Phase step 4 axis

⑤ Option

K : CE, KCs cerrification(6 Slot)
I : Extend I/O(+16/16, 1Slot)
IE : Extend I/O(+32/32, 2Slot)
M : MPG & AD/DA I/O(1Slot)
CC : CC link connection(2Slot)
PB : Profibus link connection(2Slot)
P : PNP Type I/O
K 옵션은 컨버터 용량이 2000W 만
적용 가능합니다.

Model List

Series	Axis	-	Capacity	-	Motor	-	Option
iM-U	2	-	0500 2000 4000	-	A, B, C, D, E K, L, M, N, O S, T, U, V	-	무표시 K I IE M CC PB
	3						
	4						
	5						
	6						
	7						
	8						

Note1) Motor can be used within maximum capacity as above.

유니콘 제어기 구성

■ 프레임 구성 예

EX) iM-U3-2000-LM-K(400w, 400w, 600w) 유니콘 제어기 구성

- 1) 파워용량 선정 : 개별 축 용량이 500W 이상 포함되어 있으므로 2Kw Pwr 선택(표3-2)
- 2) IO구성확인 : IO 구성은 기본 선택(표3-6)
- 3) AMP Module 선정 : 3축이므로 AMP Module(2축), (1축) 각각 1EA 선택(표3-5)
- 4) 옵션품목 확인 : KCS 인증형이므로 KCS Module 선택 (표4-6)

상기 구성 완료 후 각 Part별 Slot수 합(22Slot)

표2-2 참조하여 Frame5 선택1

■ 표1 - 표준사양

NO	표준제어기 구성		Frame 종류	최대구성 Slot수	크기(mm)
	표준제어기 기본모듈구성품				W
1	0.5Kw / 2Kw	Pwr + 기본IO + Amp Module(Axis) + 옵션품목	F2	15	305
2	0.5Kw / 2Kw	Pwr + 기본IO + Amp Module(Axis) + 옵션품목	F3	18	366
3	2Kw / 4Kw	Pwr + 기본IO + Amp Module(Axis) + 옵션품목	F4	21	427
4	2Kw / 4Kw	Pwr + 기본IO + Amp Module(Axis) + 옵션품목	F5	24	488
5	2Kw / 4Kw	Pwr + 기본IO + Amp Module(Axis) + 옵션품목	F6	27	549

■ 표2 - KCS인증사양

NO	KCS 제어기 구성		Frame 종류	최대구성 Slot수	크기(mm)
	KCS 제어기 기본모듈구성품				W
1	2Kw	Pwr + 기본IO + Amp Module(Axis) + 옵션품목	F4	21	427
2	2Kw	Pwr + 기본IO + Amp Module(Axis) + 옵션품목	F5	24	488
3	2Kw	Pwr + 기본IO + Amp Module(Axis) + 옵션품목	F6	27	549

■ 표3 - 기본구성 품목

NO	제어기 구성품(공통)	Slot	크기(mm)	
	모듈구성(공통)		W	H
1	0.5Kw Pwr	5	99.8	227
2	2Kw Pwr	8	160.8	
3	4Kw Pwr	11	221.6	
4	AMP Module(1축)	3	61.6	
5	AMP Module(2축)	3	61.6	
6	기본IO(32/32)	2	41.6	

■ 표4 - 옵션 품목

NO	제어기 구성(공통)	Slot	크기(mm)	
	기본모듈구성품(공통)		W	H
1	I : 확장IO(16/16)	1	20	227
2	M : MPG & AD/DA	1	20	
3	CC : CC Link	2	41.6	
4	IE : 확장IO(32/32)	2	41.6	
5	PB : Profibus	2	41.6	
6	K : KCS 인증 Module	6	183	

System Configuration



CC-Link
Profibus
RS422



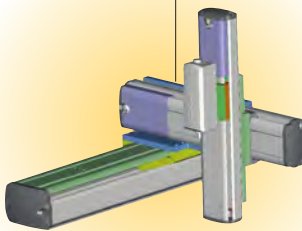
PC software
Smart Work Studio



Touch screen
Top series (M2I)
V6 series (HAKKO)



Motor Encoder Cable
Motor Power Cable

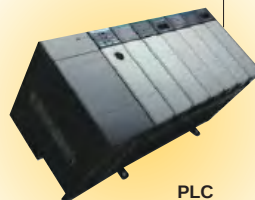


Applicable robot

DRA series
DRM series
DRM-C series
DSA series
DLM series



Teach Pendant
(DX-U)



PLC

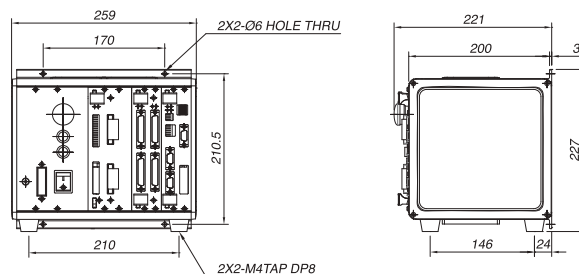
Dimension

[iM-U series]

FRAME1

※ KCS 인증형, 미인증형(2개중 택일 필수)

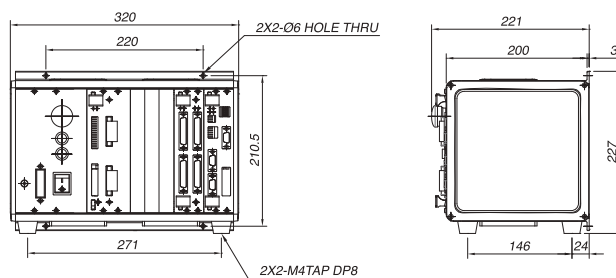
■ 500W : (1) 기본/O, 2축



FRAME2

※ KCS 인증형, 미인증형(2개중 택일 필수)

■ 500W : (1) 기본/O, 4축 (2) 확장/O, 2축

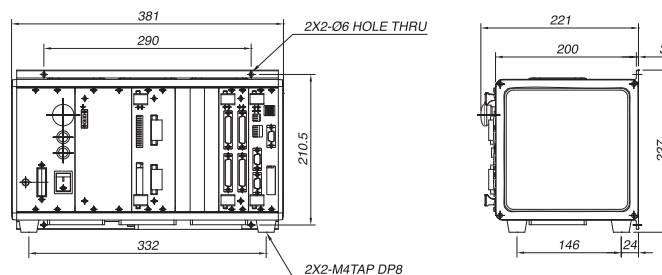


FRAME3

※ KCS 인증형, 미인증형(2개중 택일 필수)

■ 500W : (1) 확장/O, 4축

■ 2KW : (1) 확장/O, 2축 (2) 기본/O, 4축



Dimension

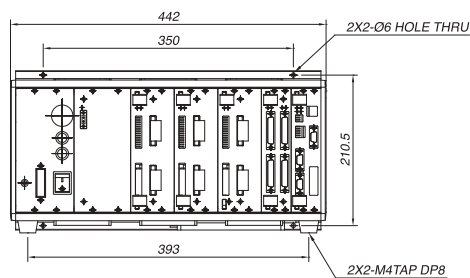
[iM-U series]

FRAME4

※ KCS 인증형, 미인증형(2개중 택일 필수)

■ 2KW : (1) 확장/O, 4축 (2) 기본/O, 6축

■ 4KW : (1) 기본/O, 4축

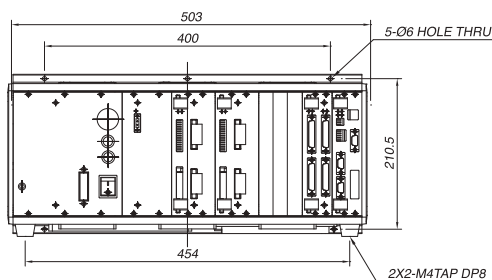


FRAME5

※ KCS 인증형, 미인증형(2개중 택일 필수)

■ 2KW : (1) 확장/O, 6축 (2) 기본/O, 8축

■ 4KW : (1) 확장/O, 4축 (2) 기본/O, 6축

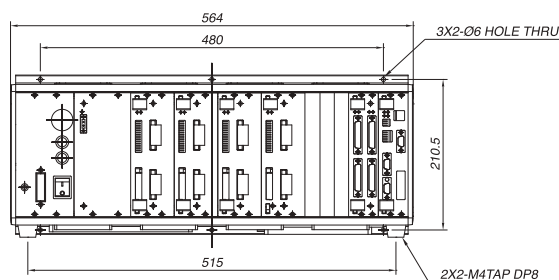


FRAME6

※ KCS 인증형, 미인증형(2개중 택일 필수)

■ 2KW : (1) 확장/O, 8축

■ 4KW : (1) 확장/O, 6축 (2) 기본/O, 8축



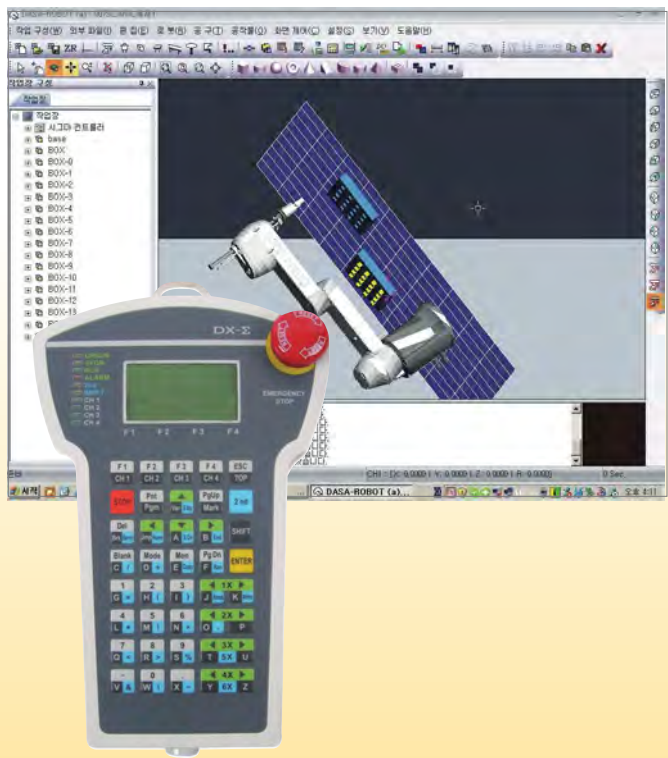
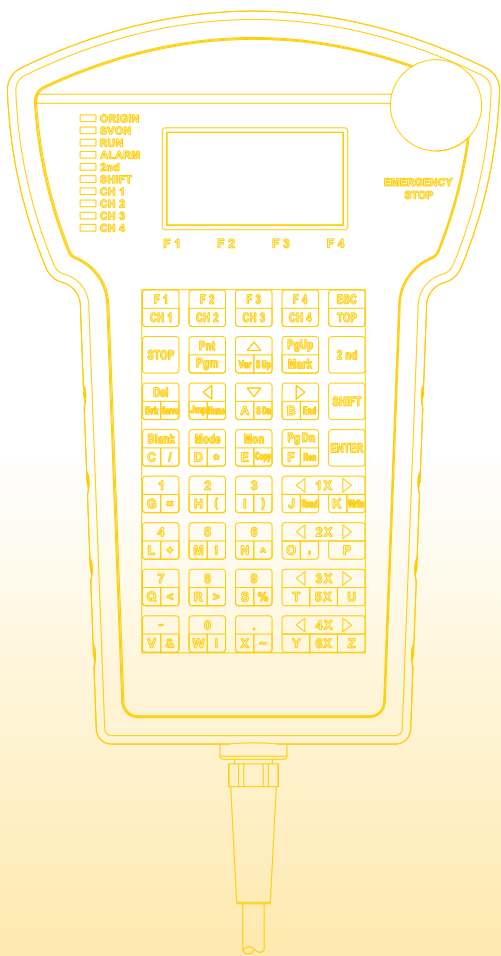
Specification

[iM-U series]

Number of axis			2 axes	3/4 axes	5/6 axes	7/8 axes	
Control capacity			500W(max. 100W /axis)			-	
			2KW(max. 1kW /axis)				
			-	4KW(max. 1kW /axis)			
Input /Output	Voltage/ Frequency	2p	Single-phase AC220V(-15%~+10%),50/60hz				
		3p	-	3-phase AC220V(-15%~+10%), 50/60hz			
	Capacity(kVA)		max. 5.0KVA				
Applicable encoder type			Incremental type(Line driver : 9 lines, 15 lines), absolute type(Tamagawa)				
Programming tool			Teach pendant, PC				
Position data input method			Teach pendant, PC, Touch				
Motion control method			PTP control, CP control(3D linear/circular interpolation)				
Operating system			Multi-tasking RTOS(control max. 4 independent channels simultaneously)				
Program language			DBRL (DONGBU's Advanced Robot Language)				
Sequence command			Simple PLC(command : 26)				
Control accuracy			Within ± 1 pulse of encoder				
Communication		Serial	RS232C(19200bps) * 1port, RS232/RS422(9600bps to 15200bps) * 2 ports				
		Ethernet	TCP/IP(10Mbps)				
System I/O			Case Front : Button 2 input OP Box : FND display(10 output), LED display(2 output), Emergency(1 input), Button(4 Input)				
Option slots		Digital I/O	Basic IO:16/16, Extension IO: 16/16(option), max. IO slot : 4 slot (max. 128/128)				
		MPG AIO	MPG : 1, AIO:2/2, Extension IO: 16/16(option), max. MPG slot : 1 slot				
Internal PLC scan time			5[ms]				
Safety function			IPM Error, Over Current, Over Load, Encoder Error, Under/Over Voltage, Following Error				
Dynamic Brake			Built-in				
Regenerative resistor			Built-in				
Operating conditions	Operation		Temperature : 0~45°C / Humidity : 20~80%RH (No condensing)				
	conditions		Temperature : -15~60°C / Humidity : 10~90%RH (No condensing)				
	Set-up environment		No erosive gas or explosive gas, no oil mist				
	Vibration		Less than 0.5G				
Memory size			SDRAM(32MB), FLASH(4MB), NVRAM(256KB)				
Memory backup			FLASH, NVRAM				
Applicable robots			DRM, DRMC, DLM, DTR, DS Series				
Weight (kgf)			8Kg	10Kg	12Kg	13.4KG	14.9Kg
Dimensions	WxDxH[mm](under 2kW)		320 x 220 x 227	381 x 220 x 22 (under 500W compact type: 301 x 220 x 227)	442 x 220 x 227	503 x 220 x 227	
	WxDxH[mm](over 2kW)		-	442 x 220 x 227	503 x 220 x 227	564 x 220 x 227	

Specifications	CC-Link	ProfiBus
Protocol	CC-Link Slave V2.0 compatible	ProfiBus-DP Slave, En 50170/DIN19245
Interface	RS-485(Electric)/Bus Topology	RS-485(Electrically isolated)
Communication Speed	156K/625K/2.5M/5M/10Mbps	9600 ~12Mbps / Auto Baudrate
Communication System	Broadcast Polling	1.2km ~ 100m / Settlement by Baudrate
Extended cyclic setting	x1/x2/x4/x8	32 station / Segment
The maximum number of occupied stations	4 station	Input 64 Byte / Output 64 Byte
Link Access	x	9 pin D-sub
Terminating Resistance	110Ω 1/2W(DA-DB Line)	220 ohm, 1/2W(Link between A and B)

ACCESSORIES



Contents

Teaching Pendant	215
Cables	216 _ 223
PC Software(for Windows)	224
Light Curtain   	225

Teaching Pendant for Multi axes

Model DX-U(Standard)

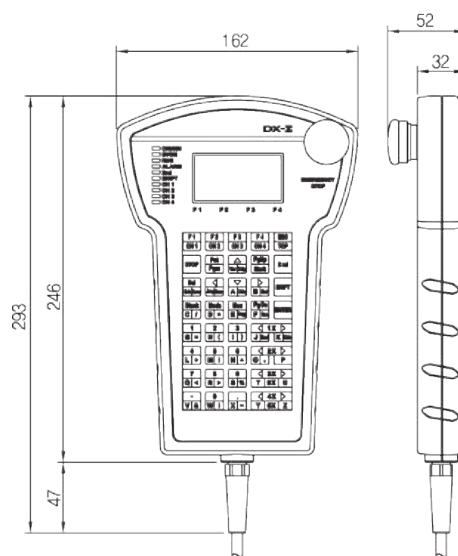
Features

This teaching device provide all operational functions including program creating, editing, position input, monitoring etc.

Basic Specifications

Item	Series & Controller Axis
Operating temperature/ Operating humidity	0~45°C/20~80%RH (non-condensing)
Serial interface	RS 232C
Display	LCD(20 characters × 4 lines)
Dimensions	W162 x H293 x D32mm
Weight	700g with a standard cable
Cable length	3m(Standard)

Dimensions



Teaching Pendant for Single axis

Model DX-J(Standard)

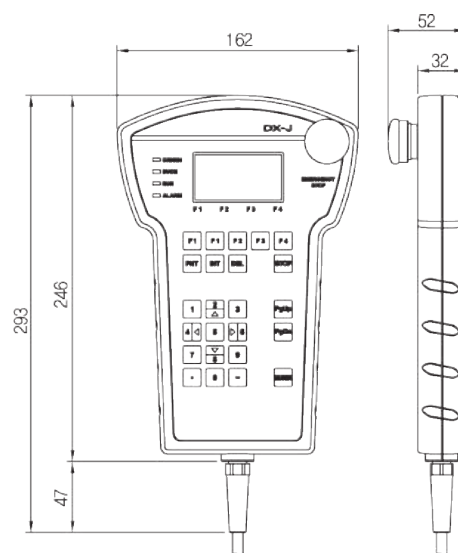
Features

This teaching device provide all operational functions including program creating, editing, position input, monitoring etc.

Basic Specifications

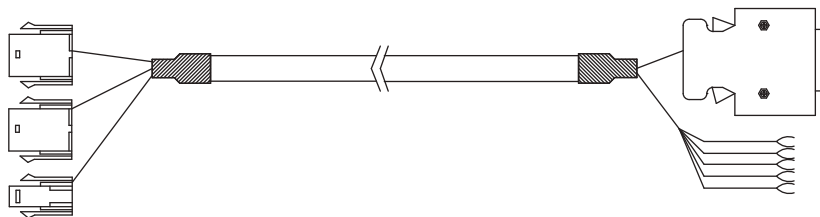
Item	Series & Controller Axis
Operating temperature/ Operating humidity	0~45°C/20~80%RH (non-condensing)
Serial interface	RS 232C
Display	LCD(20 characters × 4 lines)
Dimensions	W162 × H293 × D32mm
Weight	700g with a standard cable
Cable length	3m(Standard)

Dimensions



Cables of Single Axis Standard(Model: iMS-Jp-C□□DΔ9-H)

Encoder cable



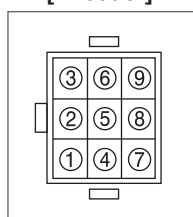
In □□, enter desired cable length up to 15m
(EX : 05=5m)

In Δ, enter option move or non-move
(EX : M = Flexible cable)

9 : Pulse train encoder type 9 lines Incremental cable

Wiring diagram

[Encoder]



AMP172161-1
(9 circuits, Cap)

[Motor side]

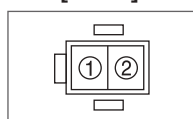
Color	Signal	No
-	EA	1
-	/EA	2
-	EB	3
-	/EB	4
-	EC	5
-	/EC	6
-	+5V	7
-	GND	8
Shield	FG	9

[CN2]

[Controller side]

No	Signal	Color
1		-
2		-
3		-
4		-
5		-
6		-
7		-
8	-	-
9	GND	-
10	+5V	-
11	/EC	-
12	Shield	-
13	/EB	-
14	EC	-
15	/EA	-
16	EB	-
17	-	-
18	EA	-
19	+5V	-
20	-	-
Case	FG	Shield

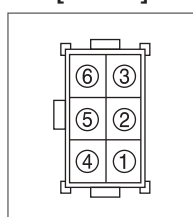
[Brake]



AMP172157-1
(2 circuits)

Color	Signal	No
-	BRK+	1
-	BRK-	2

[Sensor]



MOLEX 5559-06
(6 circuits)

Color	Signal	No
-	P24V	1
-	G24V	2
-	FLS	3
-	RLS	4
-	ORG	5
-	-	6

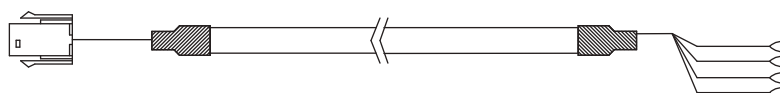
[CN1]

No	Signal	Color
-	P24V	White
-	G24V	White
CN1	FLS	White
CN1	FLS	White
CN1	ORG	White
	-	

[CN1]

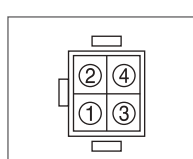
No	Signal	Color
25	BRK+	1
50	BRK-	2

Motor cable



Wiring diagram

[Motor side]



AMP 172159-1
(4 circuits, Cap)

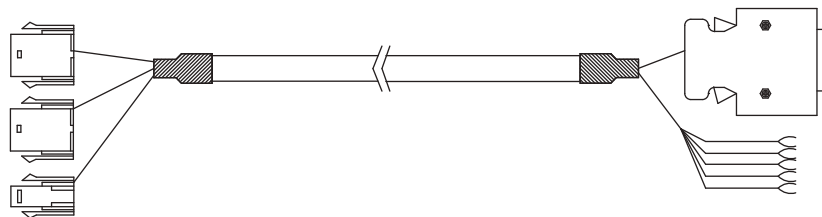
Color	Signal	No
Black	U	1
Black	V	2
Black	W	3
Green/Yellow	FG	4

[Controller side]

No	Signal	Color
1	U	Black
2	V	Black
3	W	Black
4	FG	Green/Yellow

Cables of Single Axis Standard(Model: iMS-Jp-C□□DΔ15-H)

Encoder cable (Pulse type)



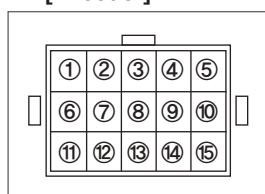
In □□, enter desired cable length up to 15m
(EX : 05=5m)

In Δ, enter option move or non-move
(EX : M = Flexible cable)

15 : Pulse train encoder type 15 lines Incremental cable

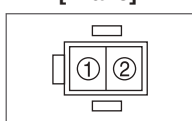
Wiring diagram

[Encoder]



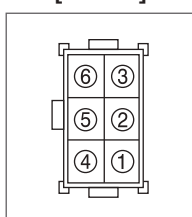
AMP172163-1
(15 circuits, Cap)

[Brake]



AMP172157-1
(2 circuits)

[Sensor]



MOLEX 5559-06
(6 circuits)

[Motor side]

Color	Signal	No
-	EA	1
-	/EA	2
-	EB	3
-	/EB	4
-	EC	5
-	/EC	6
-	PU	7
-	/PU	8
-	PV	9
-	/PV	10
-	PW	11
-	/PW	12
-	+5V	13
-	GND	14
Shield	FG	15

Color	Signal	No
-	BRK+	1
-	BRK-	2

[CN2]

[Controller side]

No	Signal	Color
1	PW	-
2	/PW	-
3	PV	-
4	/PV	-
5	PU	-
6	/PU	-
7	-	-
8	-	-
9	GND	-
10	+5V	-
11	/EC	-
12	Shield	-
13	/EB	-
14	EC	-
15	/EA	-
16	EB	-
17	-	-
18	EA	-
19	+5V	-
20	-	-
Case	FG	Shield

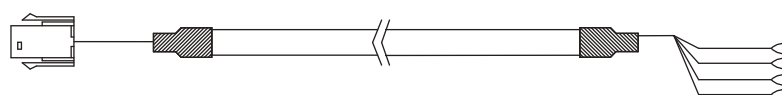
[CN1]

No	Signal	Color
-	P24V	White
-	G24V	White
CN1	FLS	White
CN1	FLS	White
CN1	ORG	White
-	-	-

[CN1]

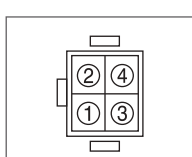
No	Signal	Color
25	BRK+	1
50	BRK-	2

Motor cable



Wiring diagram

[Motor side]



AMP 172159-1
(4 circuits, Cap)

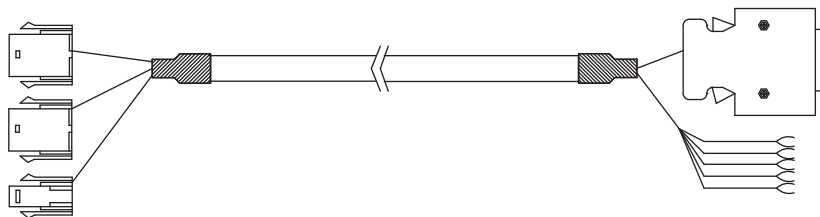
Color	Signal	No
Black	U	1
Black	V	2
Black	W	3
Green/Yellow	FG	4

[Controller side]

No	Signal	Color
1	U	Black
2	V	Black
3	W	Black
4	FG	Green/Yellow

Cables of Single Axis Standard(Model: iMS-Jp-C□□ADΔ4-H)

Encoder cable (Pulse type)



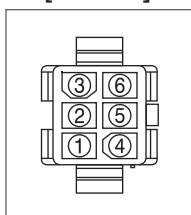
In □□, enter desired cable length up to 15m
(EX : 05=5m)

In Δ, enter option move or non-move
(EX : M = Flexible cable)

4 : Serial encoder type 4 lines
Incremental cable

Wiring diagram

[Encoder]



AMP172160-1
(6 circuits, Cap)

[Motor side]

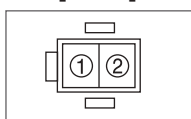
Color	Signal	No
-	-	1
-	SD	2
-	/SD	3
-	+5V	4
-	GND	5
Shield	FG	6

[CN2]

[Controller side]

No	Signal	Color
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	SD	-
8	/SD	-
9	GND	-
10	+5V	-
11	-	-
12	FG	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	+5V	-
20	-	-
Case	FG	Shield

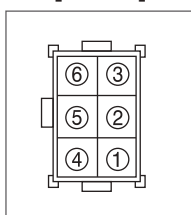
[Brake]



AMP172157-1
(2 circuits)

Color	Signal	No
-	BRK+	1
-	BRK-	2

[Sensor]



MOLEX 5559-06
(6 circuits)

Color	Signal	No
-	P24V	1
-	G24V	2
-	FLS	3
-	RLS	4
-	ORG	5
-	-	6

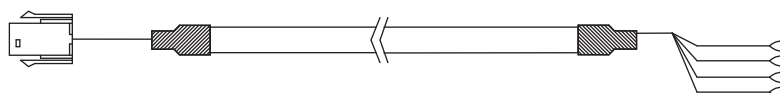
[CN1]

No	Signal	Color
-	P24V	White
-	G24V	White
CN1	FLS	White
CN1	FLS	White
CN1	ORG	White
	-	

[CN1]

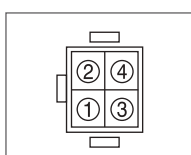
No	Signal	Color
25	BRK+	1
50	BRK-	2

Motor cable



Wiring diagram

[Motor side]



AMP 172159-1
(4 circuits, Cap)

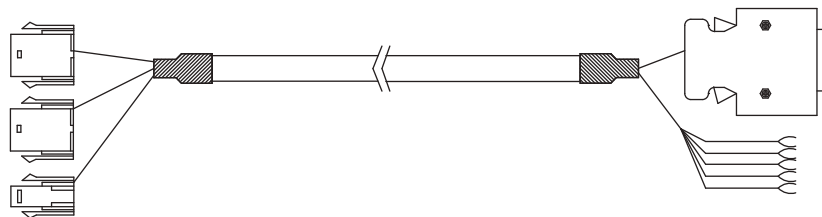
Color	Signal	No
Black	U	1
Black	V	2
Black	W	3
Green/Yellow	FG	4

[Controller side]

No	Signal	Color
1	U	Black
2	V	Black
3	W	Black
4	FG	Green/Yellow

Cables of Single Axis Standard(Model: iMS-Jp-C□□DΔ6-H)

Encoder cable (Pulse type)



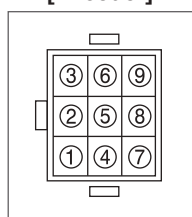
In □□, enter desired cable length up to 15m
(EX : 05=5m)

In Δ, enter option move or non-move
(EX : M = Flexible cable)

6 : Serial encoder type 6 lines
Absolute cable

Wiring diagram

[Encoder]



AMP172161-1
(9 circuits, Cap)

[Motor side]

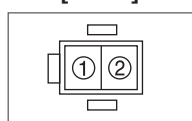
Color	Signal	No
-	BAT+	1
-	BAT-	2
Shield	FG	3
-	SD	4
-	/SD	5
-	-	6
-	+5V	7
-	GND	8
-	-	9

[CN2]

[Controller side]

No	Signal	Color
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	SD	-
8	/SD	-
9	GND	-
10	+5V	-
11	-	-
12	FG	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	+5V	-
20	-	-
Case	FG	Shield

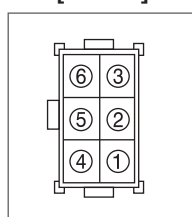
[Brake]



AMP172157-1
(2 circuits)

Color	Signal	No
-	BRK+	1
-	BRK-	2

[Sensor]



MOLEX 5559-06
(6 circuits)

Color	Signal	No
-	P24V	1
-	G24V	2
-	FLS	3
-	RLS	4
-	ORG	5
-	-	6

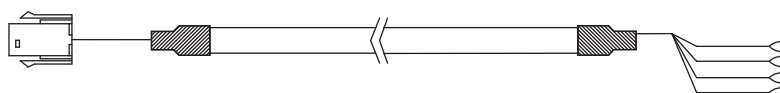
[CN1]

No	Signal	Color
-	P24V	White
-	G24V	White
CN1	FLS	White
CN1	FLS	White
CN1	ORG	White
	-	

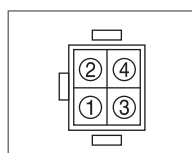
[CN1]

No	Signal	Color
25	BRK+	1
50	BRK-	2

Motor cable



Wiring diagram



AMP 172159-1
(4 circuits, Cap)

[Motor side]

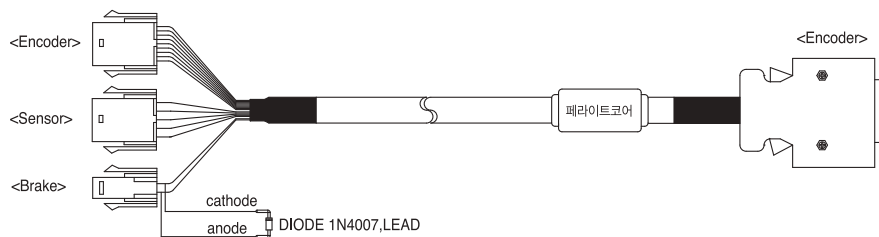
Color	Signal	No
Black	U	1
Black	V	2
Black	W	3
Green/Yellow	FG	4

[Controller side]

No	Signal	Color
1	U	Black
2	V	Black
3	W	Black
4	FG	Green/Yellow

Cables of Multi axes Standard(Model: iM-U-C □□ D△9-H)

Encoder cable



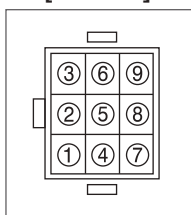
In □□, enter desired cable length up to 15m
(EX : 05=5m)

In △, enter option move or non-move
(EX : M = Flexible cable)

9 : Pulse train encoder type 9 lines Incremental cable

Wiring diagram

[Encoder]



AMP172161-1
(9 circuits, Cap)

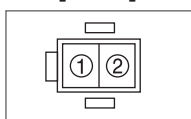
[Motor side]

Color	Signal	No
-	EA	1
-	/EA	2
-	EB	3
-	/EB	4
-	EC	5
-	/EC	6
-	+5V	7
-	GND	8
Shield	FG	9

[Controller side]

No	Signal	Color
1	-	-
2	BRK+	-
3	-	-
4	P24V	-
5	ORG	-
6	FLS	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	+5V	-
17	+5V	-
18	-	-
19	-	-
20	BRK-	-
21	-	-
22	G24	-
23	-	-
24	RLS	-
25	-	-
26	-	-
27	-	-
28	/EC	-
29	EC	-
30	/EB	-
31	EB	-
32	/EA	-
33	EA	-
34	GND	-
35	GND	-
36	-	-
Case	FG	Shield

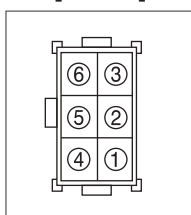
[Brake]



AMP172157-1
(2 circuits)

Color	Signal	No
-	BRK+	1
-	BRK-	2

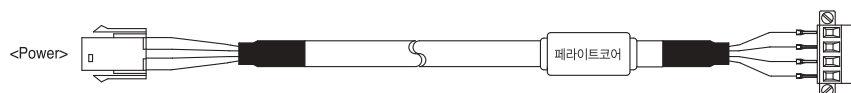
[Sensor]



MOLEX 5559-06
(6 circuits)

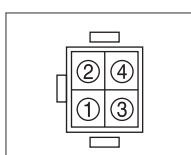
Color	Signal	No
-	P24V	1
-	G24V	2
-	FLS	3
-	RLS	4
-	ORG	5
-	-	6

Motor cable



Wiring diagram

[Motor side]



AMP 172159-1
(4 circuits, Cap)

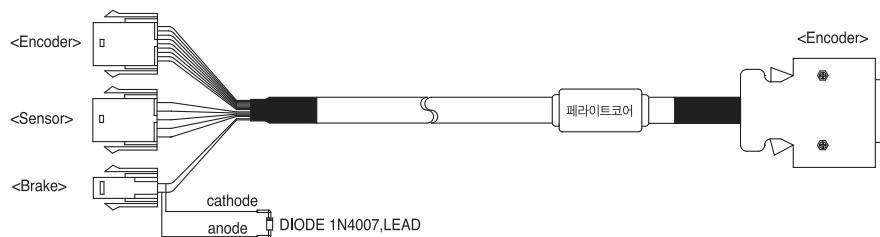
Color	Signal	No
Black	U	1
Black	V	2
Black	W	3
Green/Yellow	FG	4

[Controller side]

No	Signal	Color
1	U	Black
2	V	Black
3	W	Black
4	FG	Green/Yellow

Cables of Multi axes Standard(Model: iM-U-C □□ D△15-H)

Encoder cable



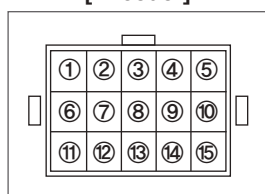
In □□, enter desired cable length up to 15m
(EX : 05=5m)

In △, enter option move or non-move
(EX : M = Flexible cable)

15 : Pulse train encoder type 15 lines Incremental cable

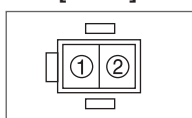
Wiring diagram

[Encoder]



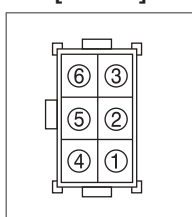
AMP172163-1
(15 circuits, Cap)

[Brake]



AMP172157-1
(2 circuits)

[Sensor]



MOLEX 5559-06
(6 circuits)

[Motor side]

Color	Signal	No
-	EA	1
-	/EA	2
-	EB	3
-	/EB	4
-	EC	5
-	/EC	6
-	PU	7
-	/PU	8
-	PV	9
-	/PV	10
-	PW	11
-	/PW	12
-	+5V	13
-	GND	14
Shield	FG	15

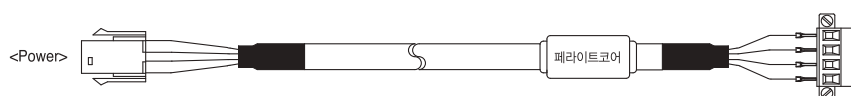
Color	Signal	No
-	BRK+	1
-	BRK-	2

Color	Signal	No
-	P24V	1
-	G24V	2
-	FLS	3
-	RLS	4
-	ORG	5
-	-	6

[Controller side]

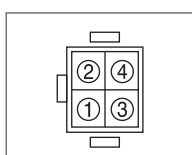
No	Signal	Color
1	-	-
2	BRK+	-
3	-	-
4	P24V	-
5	ORG	-
6	FLS	-
7	-	-
8	-	-
9	-	-
10	/PW	-
11	PW	-
12	/PV	-
13	PV	-
14	/PU	-
15	PU	-
16	+5V	-
17	+5V	-
18	-	-
19	-	-
20	BRK-	-
21	-	-
22	G24	-
23	-	-
24	RLS	-
25	-	-
26	-	-
27	-	-
28	/EC	-
29	EC	-
30	/EB	-
31	EB	-
32	/EA	-
33	EA	-
34	GND	-
35	GND	-
36	-	-
Case	FG	Shield

Motor cable



Wiring diagram

[Motor side]



AMP 172159-1
(4 circuits, Cap)

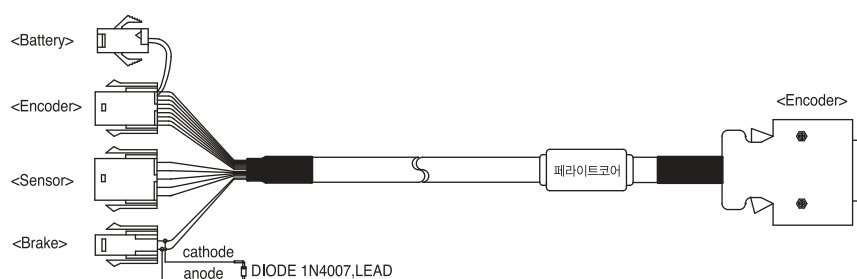
Color	Signal	No
Black	U	1
Black	V	2
Black	W	3
Green/Yellow	FG	4

[Controller side]

No	Signal	Color
1	U	Black
2	V	Black
3	W	Black
4	FG	Green/Yellow

Cables of Multi axes Standard(Model: iMS-Jp-C □□ADΔ4-H)

Encoder cable



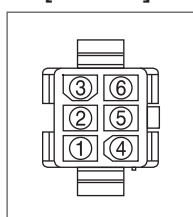
In □□, enter desired cable length up to 15m
(EX : 05=5m)

In Δ, enter option move or non-move
(EX : M = Flexible cable)

4 : Serial encoder type 4 lines
lines Incremental cable

Wiring diagram

[Encoder]



AMP172160-1
(6 circuits, Cap)

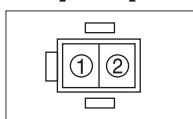
[Motor side]

Color	Signal	No
-	-	1
-	SD	2
-	/SD	3
-	+5V	4
-	GND	5
Shield	FG	6

[Controller side]

No	Signal	Color
1	-	-
2	BRK+	-
3	-	-
4	P24V	-
5	ORG	-
6	FLS	-
7	-	-
8	SD	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	+5V	-
17	+5V	-
18	-	-
19	-	-
20	BRK-	-
21	-	-
22	G24V	-
23	-	-
24	RLS	-
25	-	-
26	/SD	-
27	-	-
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	-	-
34	GND	-
35	GND	-
36	-	-
Case	FG	Shield

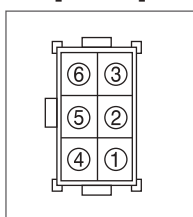
[Brake]



AMP172157-1
(2 circuits)

Color	Signal	No
-	BRK+	1
-	BRK-	2

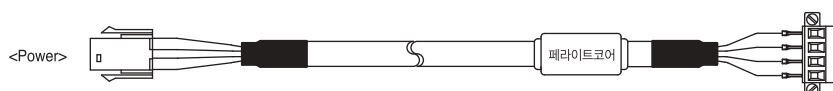
[Sensor]



MOLEX 5559-06
(6 circuits)

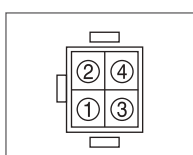
Color	Signal	No
-	P24V	1
-	G24V	2
-	FLS	3
-	RLS	4
-	ORG	5
-	-	6

Motor cable



Wiring diagram

[Motor side]



AMP 172159-1
(4 circuits, Cap)

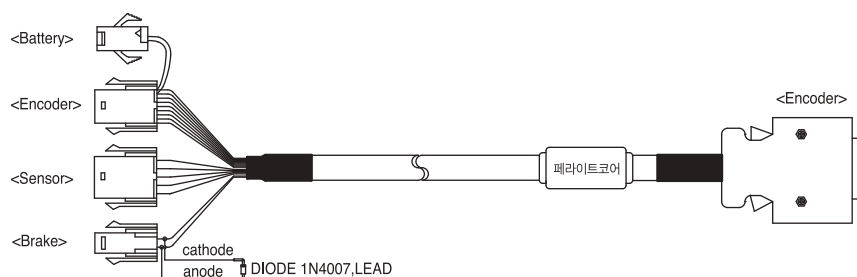
Color	Signal	No
Black	U	1
Black	V	2
Black	W	3
Green/Yellow	FG	4

[Controller side]

No	Signal	Color
1	U	Black
2	V	Black
3	W	Black
4	FG	Green/Yellow

Cables of Multi axes Standard(Model: iM-U-C □ □ D△6-H)

Encoder cable



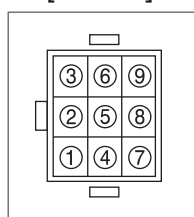
In □ □, enter desired cable length up to 15m
(EX : 05=5m)

In △, enter option move or non-move
(EX : M = Flexible cable)

6 : Serial encoder type 6 lines
Absolute cable

Wiring diagram

[Encoder]



AMP172161-1
(9 circuits, Cap)

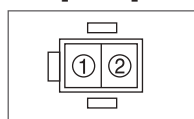
[Motor side]

Color	Signal	No
-	BAT+	1
-	BAT-	2
Shield	FG	3
-	SD	4
-	/SD	5
-	-	6
-	+5V	7
-	GND	8
-	-	9

[Controller side]

No	Signal	Color
1	-	-
2	BRK+	-
3	-	-
4	P24V	-
5	ORG	-
6	FLS	-
7	-	-
8	SD	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	+5V	-
17	+5V	-
18	-	-
19	-	-
20	BRK-	-
21	-	-
22	G24V	-
23	-	-
24	RLS	-
25	-	-
26	/SD	-
27	-	-
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	-	-
34	GND	-
35	GND	-
36	-	-
Case	FG	Shield

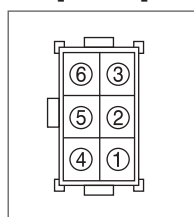
[Brake]



AMP172157-1
(2 circuits)

Color	Signal	No
-	BRK+	1
-	BRK-	2

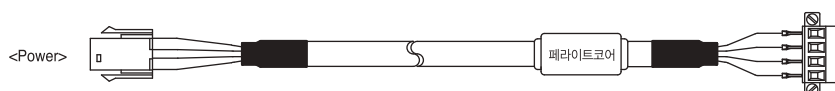
[Sensor]



MOLEX 5559-06
(6 circuits)

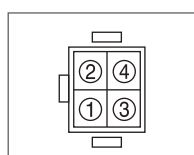
Color	Signal	No
-	P24V	1
-	G24V	2
-	FLS	3
-	RLS	4
-	ORG	5
-	-	6

Motor cable



Wiring diagram

[Motor side]



AMP 172159-1
(4 circuits, Cap)

Color	Signal	No
Black	U	1
Black	V	2
Black	W	3
Green/Yellow	FG	4

[Controller side]

No	Signal	Color
1	U	Black
2	V	Black
3	W	Black
4	FG	Green/Yellow

PC software(for Windows)

Model SmartWorkStudio

Features

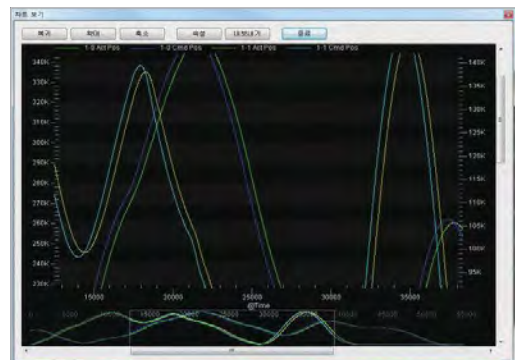
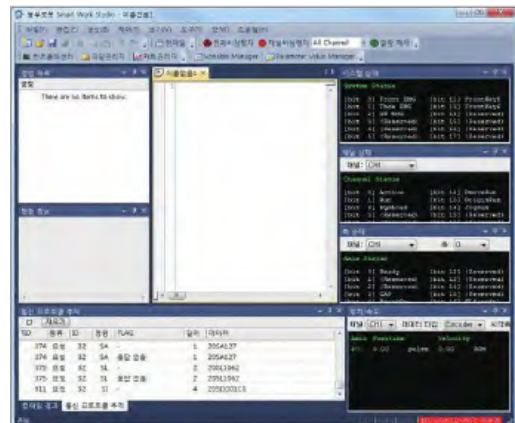
SmartWorkStudio(SWS), motion controller equipment and TCP/IP socket communication or Serial Port communications using the motion controller is a program that allows you to control equipment.

This program basically can develop motion control program for editors and build. And, you can check for Compilation errors.

You can check the status of the equipment in real time,

You can set various values of the equipment.

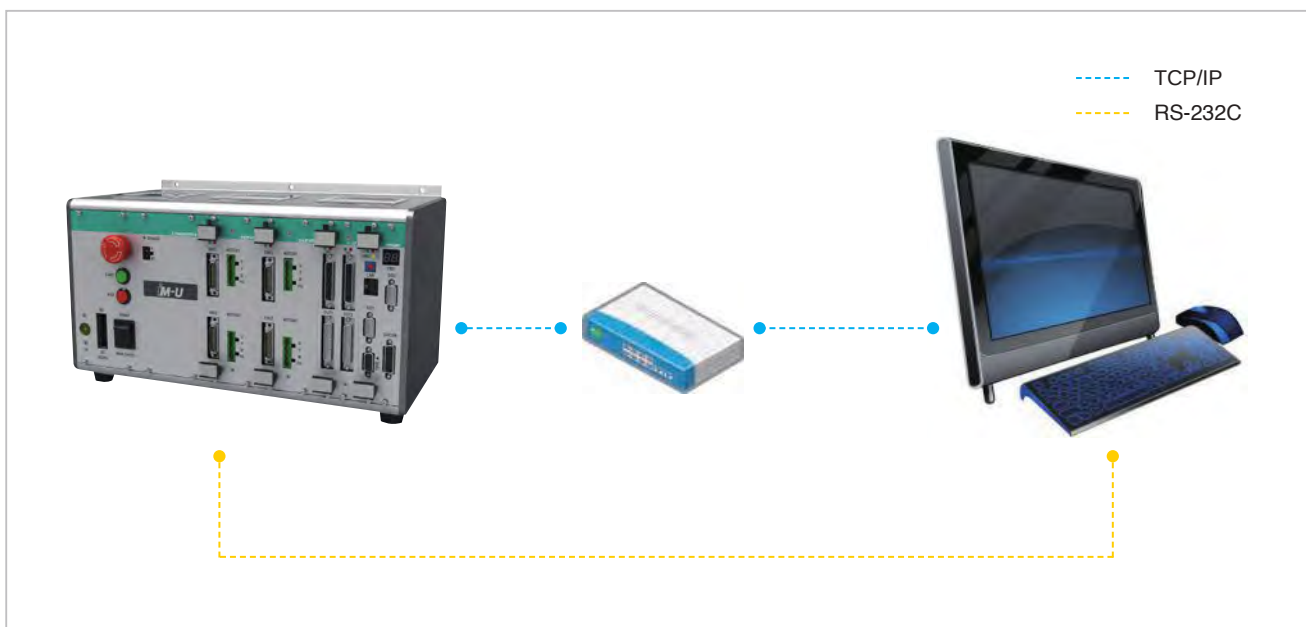
Upload user-generated program equipment can operate the equipment as a result of various conditions, provides the ability to view the graph.



Environment

Item	Specifications
Operating Software	MS-Windows version 2000/XP/Vista/7/8
Memory(RAM)	1GB or more
Hard disk	Open capacity 13MB or more
CD-ROM drive	More than 8 times speed
Connection*	Serial or TCP/IP
Applicable controllers	iM-U

* USB to Serial cable is available



Safety Light Curtain

Ordering Model

①	②	③	④	⑤	⑥	⑦
Series	Type	Pitch	Length	Resolution	Supply Voltage	Type of Output
DSLCL	- 4	- 18.37	- 147	- R14	- 1	- A

① Series

Name of Series :
DSLCL Series is standard light curtain.

② Type

Type 2 : Response Time (2 m/sec), IP65
Type 4 : Response Time (500 μ /sec), IP67

③ Pitch

Type 2 : 18.25mm, 36.75mm
Type 4 : 10mm, 18.37mm

④ Length

Screen Height of Type 2, Type 4
(Ex. 147 = 147mm)

⑤ Resolution

14 : R14mm
30 : R30mm
48 : R48mm

⑥ Supply Voltage

1 : 110 VAC $\pm$ 15%, 50Hz
2 : 230 VAC $\pm$ 15%, 50Hz
3 : 24 VDC $\pm$ 15%

⑦ Type of Output

A : NPN NO
B : PNP NO

Technical Specification

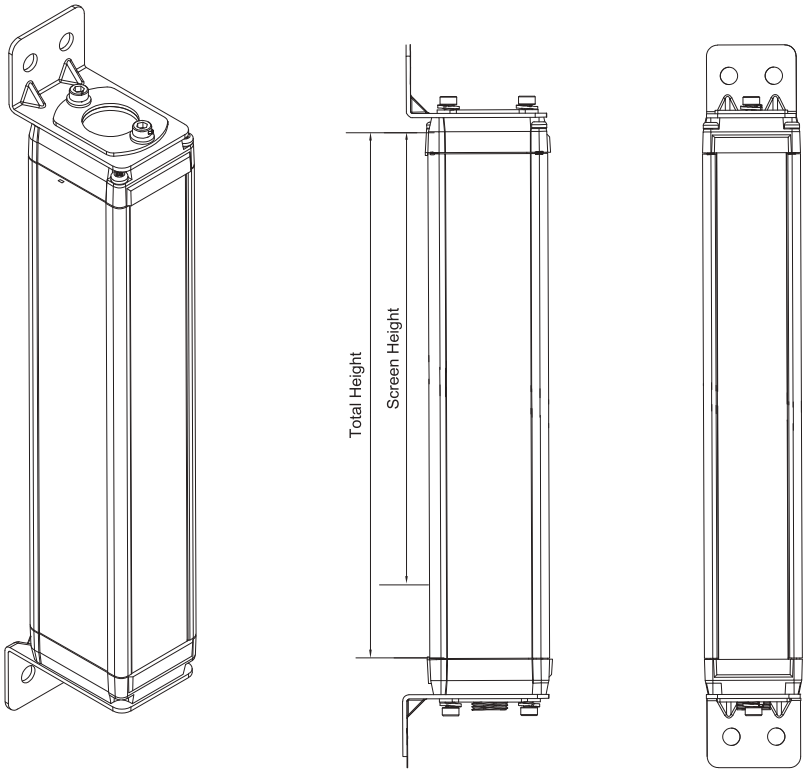
Operating Range	5000 mm
Effective Angle	$\pm 2.5^\circ$ for TYPE - 4 / $\pm 5^\circ$ for TYPE - 2
Supply Voltage	24 VDC $\pm$ 20%
Output	2 x PNP N/O
Response Time	Type 2 : 2 m sec/Channel, Type 4 : 500 μ sec/Channel
Temperature	0 to 60°C
Humidity	30 to 85% RH
Emitting Element	Infra Red LED
Peak Emission Wavelength	940 nm
Output Load current	Max. 100 mA
Vibration Resistance	10 to 55 Hz, 0.75mm Amplitude in X Y & Z Direction For 2 Hours each 30 msec ² Acceleration (30 G approx.) in X, Y & Z direction for three time each
Connection	Type 2 : Transmitter 2 pin connector and Receiver 4 Pin connector (M18) Type 4 : Transmitter 3 pin connector and Receiver 5 Pin connector (M12)
Dimension	31 mm (Width) x 41 mm (Breadth) x Total Height



DSLCL-4-10				Safety Light Curtains are designed for prevention of accidents in hazardous areas.					
Series	Type	Pitch	Length						
DSLCL	- 4	- 10	- 120						

Basic specifications									
Model	Type	Pitch (mm)	No. of Channels	Screen Height (mm)	Total Height (mm)	Resolution (mm)	Supply Voltage	Type of Output	Mechanical Protection
DSLCL	4	10	12	120	150	14 30 48	1 : 110 VAC ± 15%, 50Hz 2 : 230 VAC ± 15%, 50Hz 3 : 24 VDC ± 15%	A : NPN NO B : PNP NO	IP65 IP67
			20	200	230				
			24	240	270				
			32	320	350				
			36	360	390				
			48	480	510				
			56	560	590				
			60	600	630				
			72	720	750				
			84	840	870				
			96	960	990				

Dimension



DSL-4-18.37

Safety Light Curtains are designed for prevention of accidents in hazardous areas.



Series

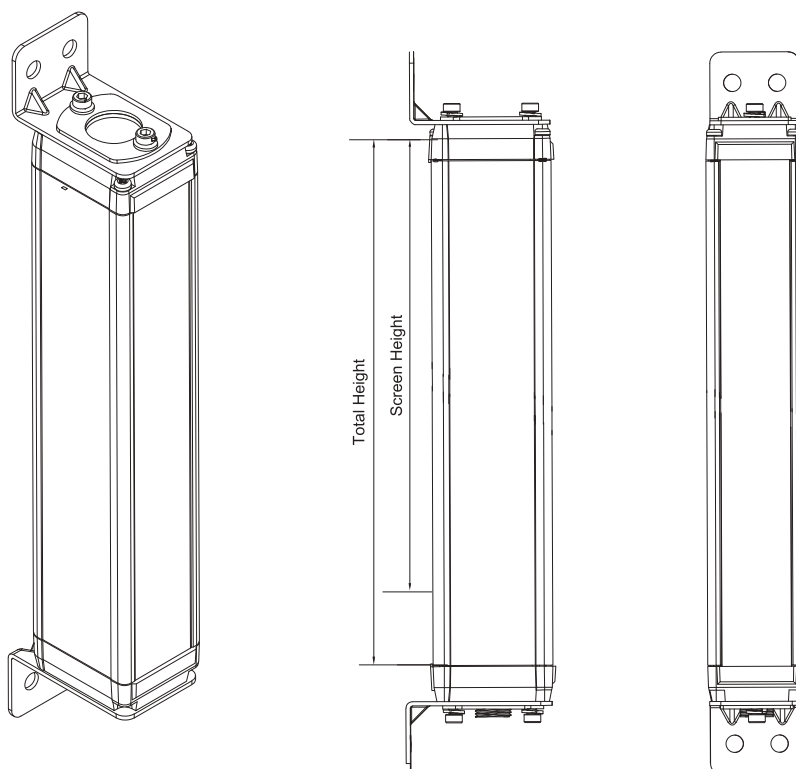
Type

Pitch

Length

DSL-4-18.37-147**Basic specifications**

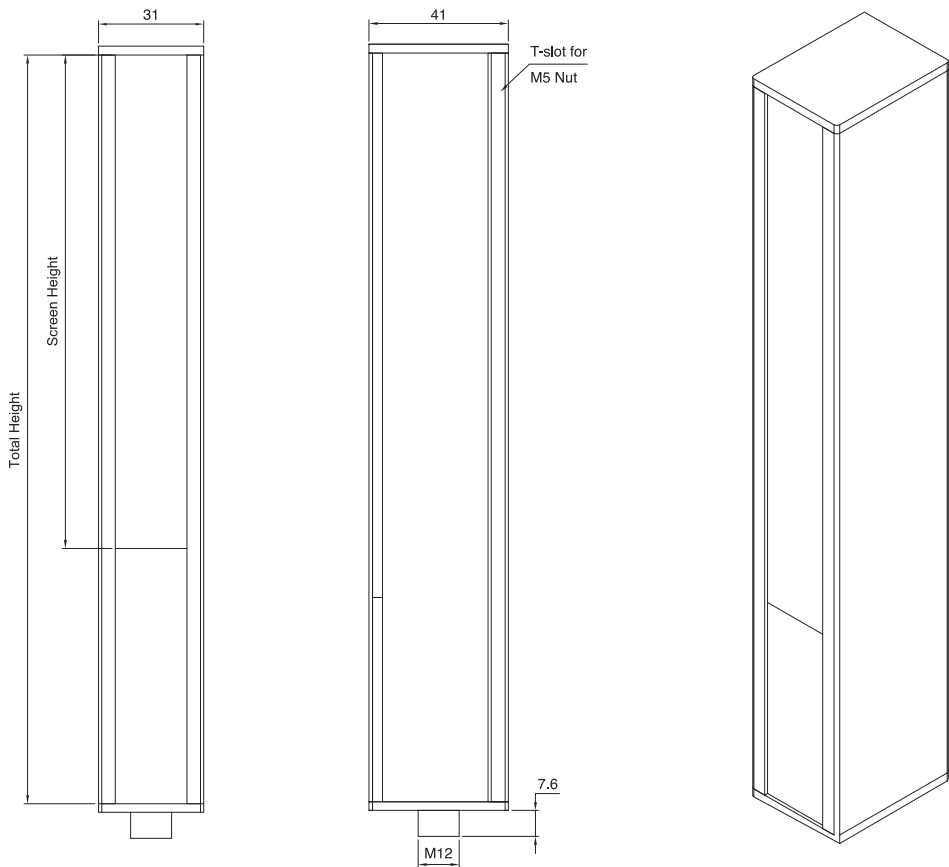
Model	Type	Pitch (mm)	No. of Channels	Screen Height (mm)	Total Height (mm)	Resolution (mm)	Supply Voltage	Type of Output	Mechanical Protection
DSL-4	4	18.37	8	147	177	14 30 48	1 : 110 VAC $\pm$ 15%, 50Hz 2 : 230 VAC $\pm$ 15%, 50Hz 3 : 24 VDC $\pm$ 15%	A : NPN NO B : PNP NO	IP65 IP67
			12	220	250				
			16	294	324				
			20	367	397				
			24	441	471				
			32	588	618				
			36	661	691				
			48	882	912				
			56	1029	1059				
			60	1102	1132				
			72	1323	1353				
			84	1543	1573				
			96	1764	1794				

Dimension

DSLCL-2-18.25				Safety Light Curtains are designed for prevention of accidents in hazardous areas.					
Series	Type	Pitch	Length						
DSLCL	- 2	- 18.25	- 145						

Basic specifications									
Model	Type	Pitch (mm)	No. of Channels	Screen Height (mm)	Total Height (mm)	Resolution (mm)	Supply Voltage	Type of Output	Mechanical Protection
DSLCL	2	18.25	8	145	220	14 30 48	1 : 110 VAC ± 15%, 50Hz 2 : 230 VAC ± 15%, 50Hz 3 : 24 VDC ± 15%	A : NPN NO B : PNP NO	IP65 IP67
			12	220	295				
			16	290	365				
			20	365	440				
			24	440	515				
			32	585	660				
			36	660	735				
			48	880	955				
			56	1020	1095				
			60	1095	1170				
			72	1315	1390				
			84	1535	1572				
			96	1750	1825				

Dimension



DSLCL-2-36.75

Safety Light Curtains are designed for prevention of accidents in hazardous areas.



Series

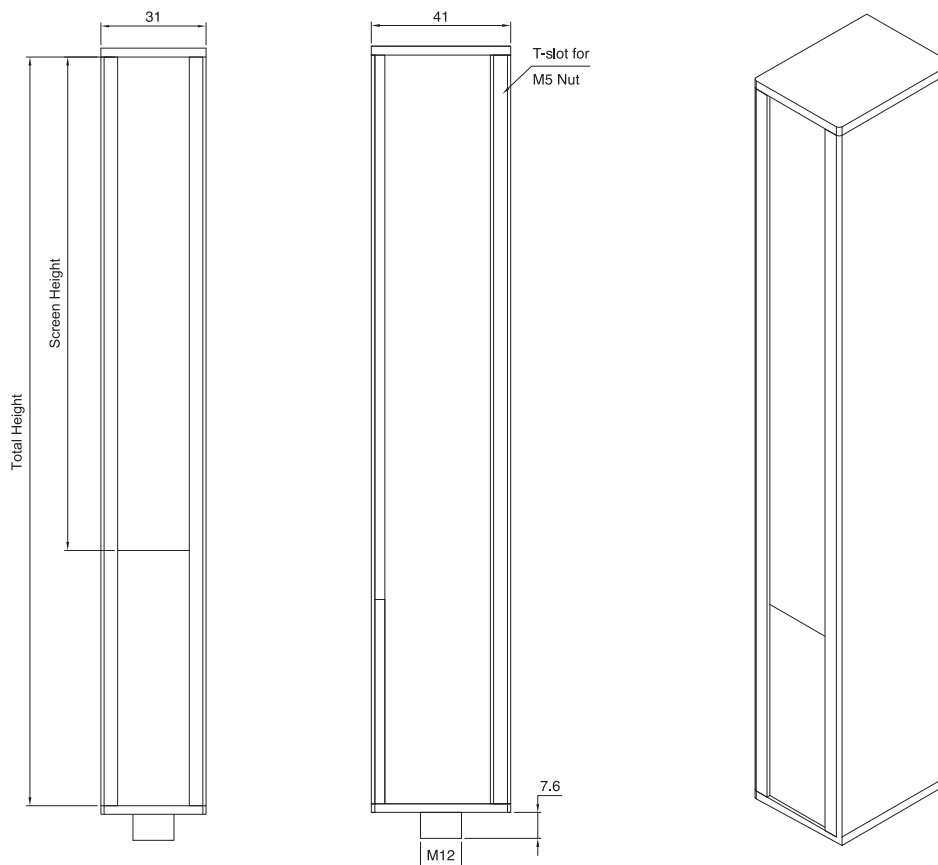
Type

Pitch

Length

DSLCL - 2 - 36.75 - 294**Basic specifications**

Series	Type	Pitch (mm)	No. of Channels	Screen Height (mm)	Total Height (mm)	Resolution (mm)	Supply Voltage	Type of Output	Mechanical Protection
DSLCL	2	36.75	8	294	324	14 30 48	1 : 110 VAC $\pm$ 15%, 50Hz 2 : 230 VAC $\pm$ 15%, 50Hz 3 : 24 VDC $\pm$ 15%	A : NPN NO B : PNP NO	IP65 IP67
			12	441	471				
			16	588	618				
			20	735	765				
			24	882	912				
			32	1176	1206				
			36	1323	1353				
			48	1764	1794				

Dimension

MEMO

DRA series

DRM series

DRMC series

DLM series

DTR series

DSA series

Transfer Robot

iMS-Jp series

iM-U series

ACCESSORIES

MEMO

MEMO

MEMO

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