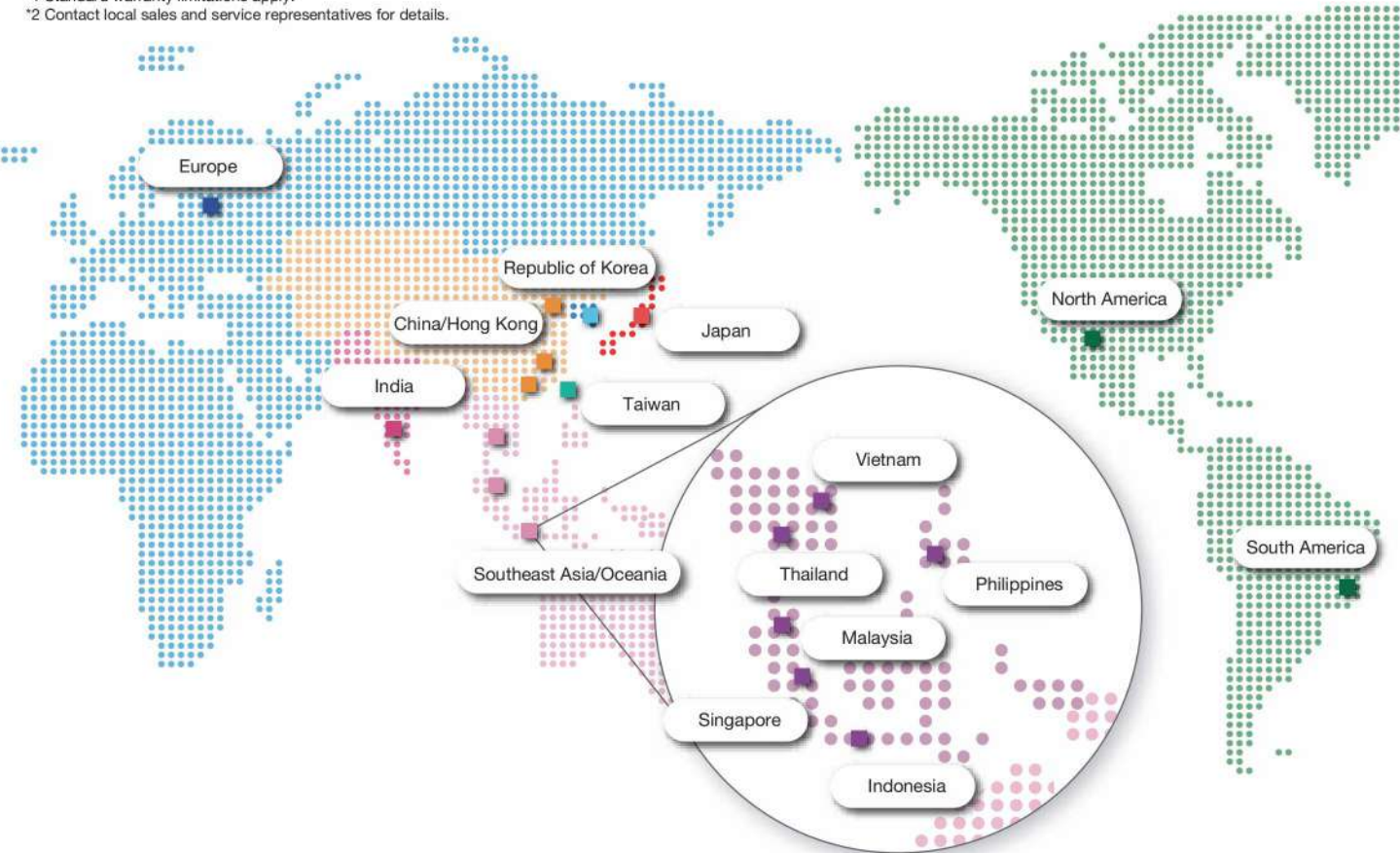


With Epson industrial robots, you get the highest standards of safety and reliability and the support of a global sales and service network

■ Top-quality service and support worldwide

Our global network of sales and service centers is firmly dedicated to maintaining a consistently high level of product and service quality in every region. For products under warranty, we offer on-site assistance to deal with any malfunctions or problems*1, and through our authorized sales and service representatives we offer warranty coverage for machines that are later moved to other locations*2, assuring top-quality support wherever you are.

*1 Standard warranty limitations apply.
*2 Contact local sales and service representatives for details.



■ EPSON INDIA PVT. LTD.

11th Floor, Godrej Centre, Sy No-26, Bellary Road,
Hebbal, Sahakar Nagar, Byatarayanapura,
Bengaluru - 560092
Tel: 080-4566 5000 Fax: 080-4566 5005

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- Microsoft, Windows, Visual Basic, Visual C, and the Windows logo are registered trademarks of Microsoft Corporation.
- DeviceNet and Ethernet/IP are registered trademarks of the Open DeviceNet Vendor Association, Inc.

 Safety Precautions	Please read associated manuals carefully before installing or using our robot products. Always use products properly per guidelines in the manuals.
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EPSON ROBOTS
RANGE CATALOGUE 2023

EPSON



BRINGING
AUTOMATION
TO THE
NEXT LEVEL.

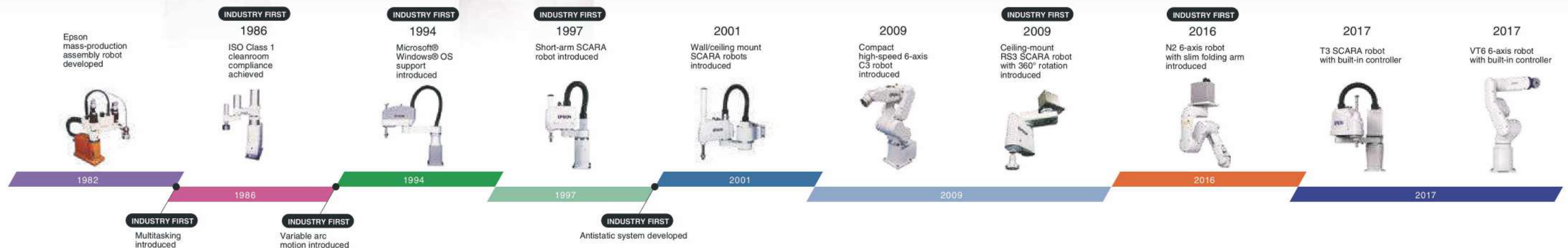
Epson Robots are built for greater efficiency and precision while fusing form and function. Equipped with an optional complementary force sensor that is both sensitive and versatile, the robots are capable of executing a wide range of high precision tasks. Details make all the difference in the world of automation. Experience lower production costs, enhanced quality and increased productivity with Epson's highly reliable robots, while increasing businesses' bottom line.



Epson Robot

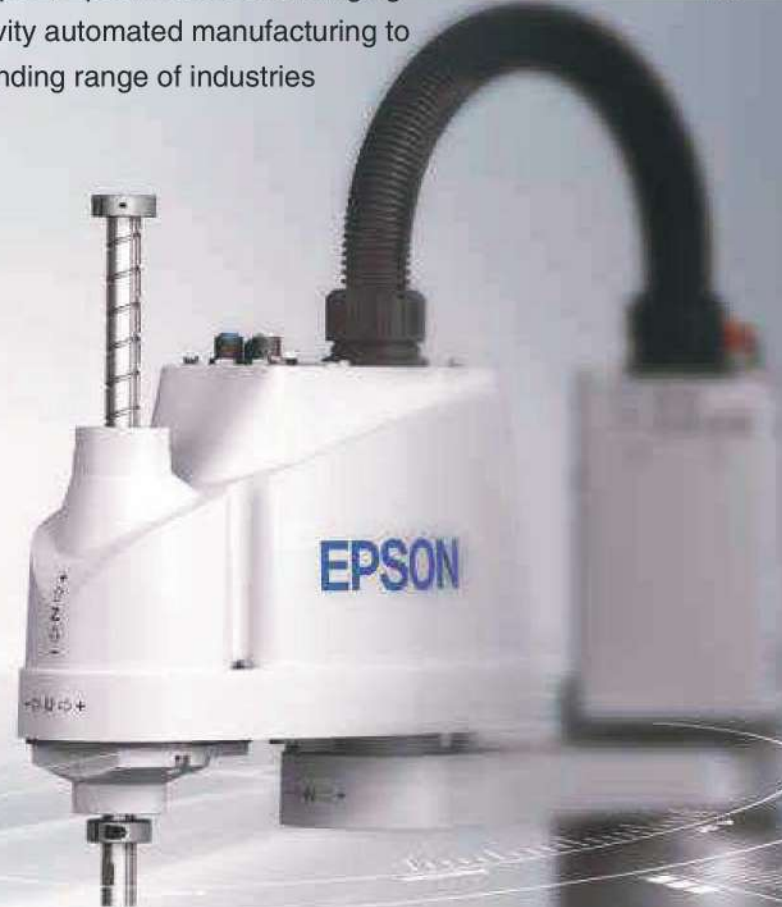
A proven reputation for precision and reliability at the leading edge of industrial robot design

Ever since we developed our first SCARA robots for wristwatch assembly over 40 years ago, Epson has been a leader in advanced robotics technology. Today, our long experience in energy-efficient, compact, high-precision technologies enables us to offer a wide range of slim, compact, and lightweight robots. And with the addition of original Epson force sensing and image processing technologies, we are achieving even higher levels of reliability, speed, precision, and productivity in process automation. Whatever challenges you face, Epson industrial robots are continuously evolving to meet the diversifying needs of manufacturers worldwide.



Why Epson Robots?

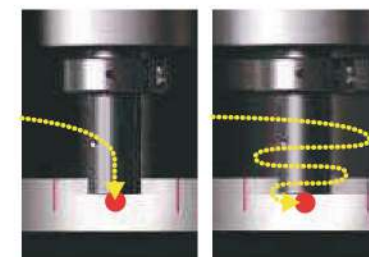
Epson, the global leader in robotics technology, offers you an impressive combination of high performance and operating ease. Backed by a worldwide reputation for reliability and outstanding customer support, Epson robots are bringing high-productivity automated manufacturing to an ever-expanding range of industries worldwide.



Low TCO and high reliability for the ultimate in automated productivity

High productivity

- Proprietary Epson technology reduces residual vibration to ensure high speed and precision for reduced takt time.
- Slim, lightweight body design reduces work cell space requirements while enabling higher productivity.

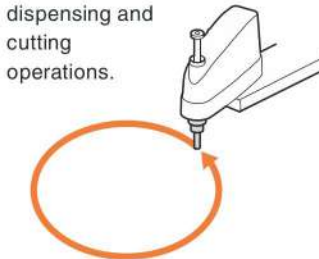


Epson robot

Conventional robot

High quality

- Extremely accurate toolhead positioning enables high-precision dispensing and cutting operations.



- Integrated machine vision systems boost setup ease and workpiece handling accuracy.



Easy operation

- Intuitive graphical interface makes programming easy even for first-time users.
- From program testing to full production, improved operating ease helps reduce cost and manpower requirements.



3D simulator for work cell layout and toolpath program testing

Software Integration



Global support

Epson supports robotics customers worldwide through an international network of sales and service offices, providing information about equipment configuration options and performing simulations of the tasks that customers want robots to perform. We are also partnered with systems integrators around the world, and can provide end-to-end turnkey solutions to meet virtually any process automation need.

	SCARA robots						
Epson Robot	G Series						
	Top-class speed, repeatability, and low residual vibration						
Publication page	► P.9	► P.11	► P.15	► P.17	► P.21	► P.23	► P.23
Model name	G1	G3	GX4	G6	GX8	NEW GX10	NEW GX20
Payload (kg)	4-axis 3-axis 1 1.5	Max 3	Max 4	Max 6	Max 8	Max 10	Max 20
Arm length (mm)	175 225	250 300 350	250 300 350	450 550 650	450 550 650	650 850	850 1000
Environmental specifications	STD Class 3	STD Class 3	STD Class 3	STD Class 3 IP54*1 IP65	STD Class 3 IP65	STD Class 3 IP54*1 IP65	STD Class 3 IP54*1 IP65
Installation specifications		 	 	 	 	 	
Compatible controller	RC700-A	RC700-A	RC700-D	RC700-A	RC700-D	RC700-A	RC700-A

SCARA robots							
LS Series				T Series	RS Series		
Proven reliability and functionality				Built-in controller for cost-efficient automation	Original space-saving design for high productivity		
► P.27	► P.29	► P.31	► P.33	► P.35	► P.37	► P.39	► P.41
LS3-B	LS6-B	LS10-B	LS20-B	NEW T3-B	NEW T6-B	RS3	RS4
Max 3	Max 6	Max 10	Max 20	Max 3	Max 6	Max 3	Max 4
400	500 600 700	600 700 800	800 1000	400	600	350	550
STD Class 4	STD Class 4	STD Class 4	STD Class 4	STD*2	STD*2	STD Class 3	STD Class 3
RC90-B	RC90-B	RC90-B	RC90-B	Built-in controller	Built-in controller	RC700-A	RC700-A

STD

Standard

Class 3

Cleanroom model ISO 03 (Class 10 equiv.) ESD suppression

Class 4

Cleanroom model ISO 04 (Class 100 equiv.)

Class 5

Cleanroom model ISO 05 (Class 100 equiv.)

IP54

Protection model IP54

IP65

Protection model IP65

IP67

Protection model IP67

Table Top mount

Wall mount

Ceiling mount

Wall/ceiling multi-layout mount

*1: See product page for details

*2: IP20 *3: Standard model only

Controllers

Controllers ► P.59

Software

Software ► P.62

Vision systems

Vision systems ► P.67

Force-sensing systems

Force-sensing systems ► P.70

Options

Software options ► P.74

Robot controller options ► P.76

Manipulator options ► P.79

Option quick-reference table ► P.80

Option setup example ► P.81

Epson Robot	6-axis robots		
	C Series		
	Slim, lightweight body for greater installation flexibility		
Publication page	► P.43	► P.45	► P.49
Model name	C4	C8	C12
Payload (kg)	Max 4	Max 8	Max 12
Arm length (mm)	600 900	700 900 1400	1400
Environmental specifications	STD + Class 3	STD + Class 3 + Class 4 + IP67	STD + Class 5
Installation specifications		  	
Compatible controller	RC700-A	RC700-A	RC700-A

6-axis robots			
N Series			VT
Original compact design for greater freedom of movement in tight quarters			Compact, easy setup, low TCO
► P.51	► P.53	► P.55	► P.57
N2	N6-A850	N6-A1000	VT6L
			
Max 2.5	Max 6	Max 6	Max 6
450	850	1000	900
STD	STD + Class 5	STD + Class 5	STD + Class 4 + IP67
 		 	   
RC700-A	RC700-A	RC700-A	Built-in controller

STD

Standard

 Class 3

Cleanroom model ISO 03 (Class 10 equiv.) ESD suppression

 Class 4

Cleanroom model ISO 04 (Class 100 equiv.)

 Class 5

Cleanroom model ISO 05 (Class 100 equiv.)

 IP54

Protection model IP54

 IP65

Protection model IP65

 IP67

Protection model IP67



Table Top mount



Wall mount



Ceiling mount



Wall/ceiling multi-layout mount

*1: See product page for details

*2: IP20 *3: Standard model only

Controllers

Controllers ► P.59

Software

Software ► P.62

Vision systems

Vision systems ► P.67

Force-sensing systems

Force-sensing systems ► P.70

Options

Software options ► P.74

Robot controller options ► P.76

Manipulator options ► P.79

Option quick-reference table ► P.80

Option setup example ► P.81

G1

Compact, high-rigidity body for precision assembly and press-fit applications

- Our lightest G series robot (8kg)
- Available with 175mm or 225mm arm
- 3-axis model available for screw-in, press-fit with hand offset, and dispensing tasks

Model Number

G1 - 17 1 S □ -UL

Payload

1 : 1kg

Arm length

17 : 175mm
22 : 225mm

Joint #3 stroke

1 : 80mm: Cleanroom-model

UL specification

□ : Non UL compliant
-UL : UL compliant

Axis

□ : 4-axis spec
Z : 3-axis spec

Environment

S : Standard
C : Cleanroom & ESD



Specifications

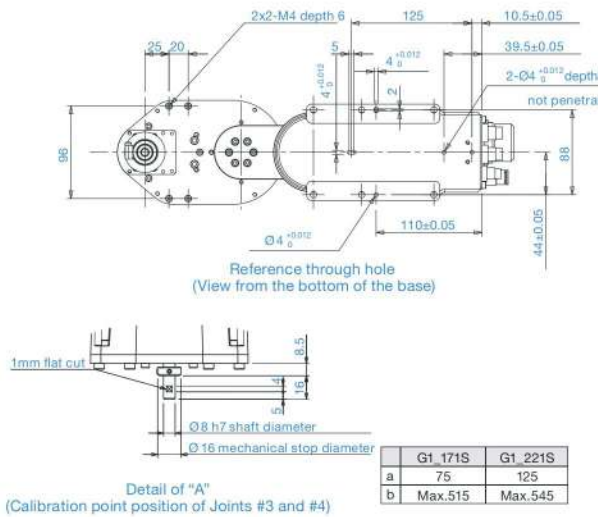
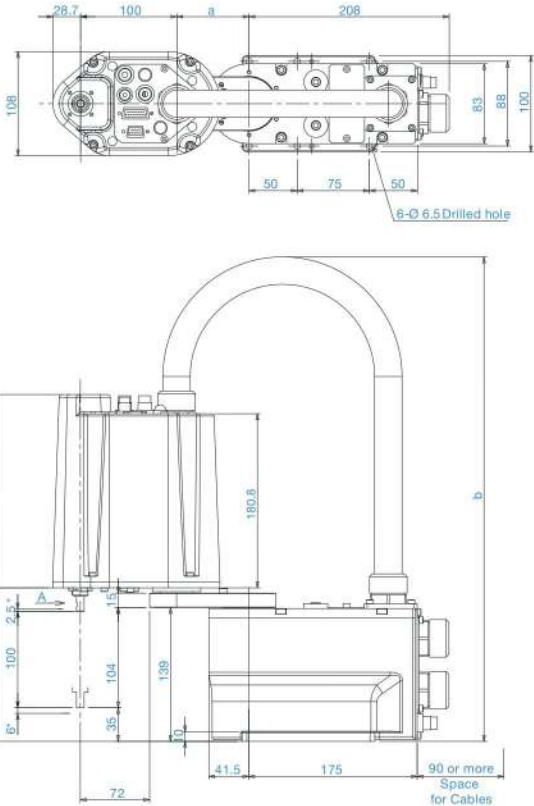
Model name		G1			
		4-axis		3-axis	
Model number		G1-171□	G1-221□	G1-171□Z	G1-221□Z
Arm length	Arm #1, #2	175 mm	225 mm	175 mm	225 mm
Payload	Rated	0.5 kg		0.5 kg	
	Maximum	1 kg		1.5 kg	
Repeatability	Joints #1, #2	±0.005 mm	±0.008 mm	±0.005 mm	±0.008 mm
	Joint #3	±0.01 mm		±0.01 mm	
	Joint #4	±0.01 deg		—	
Standard cycle time*1		0.29 sec	0.30 sec	0.29 sec	0.30 sec
Max. operating speed	Joints #1, #2	2630 mm/sec	3000 mm/sec	2630 mm/sec	3000 mm/sec
	Joint #3	1200 mm/sec		1200 mm/sec	
	Joint #4	3000 deg/sec		—	
Joint #4 allowable moment of inertia*2	Rated	0.0003 kg·m²		—	
	Maximum	0.004 kg·m²		—	
Joint #3 down force		50 N			
Installation environment		Standard/Cleanroom*3 &ESD			
Mounting type		Table Top		Table Top	
Weight (cables not included)		8 kg		8 kg	
Applicable Controller		RC700-A			
Installed wire for customer use		15 Pin D-Sub, 9 Pin D-Sub			
Installed pneumatic tube for customer use		Φ6 mm x 2, Φ4 mm x 1 : 0.59 MPa (6 kgf/cm²)			
Power		AC200-240 V Single phase			
Power Consumption*4		0.5 kVA			
Cable length		3 m/5 m/10 m/15 m/20 m			
Safety standard		CE, KC, UL			

¹:Cycle time based on round-trip arch motion (100mm horizontal, 25mm vertical) with 0.5kg payload (path coordinates optimized for maximum speed) .
²:When payload center of gravity is aligned with Joint #4 ; if not aligned with Joint #4, set parameters using INERTIA command.
³:Complies with ISO Class 3 (ISO14644-1) and older Class 1 cleanroom standards.
⁴:Varies according to operating environment and program.

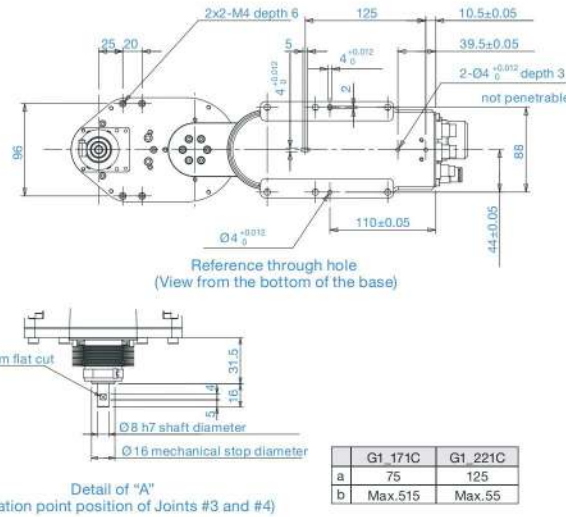
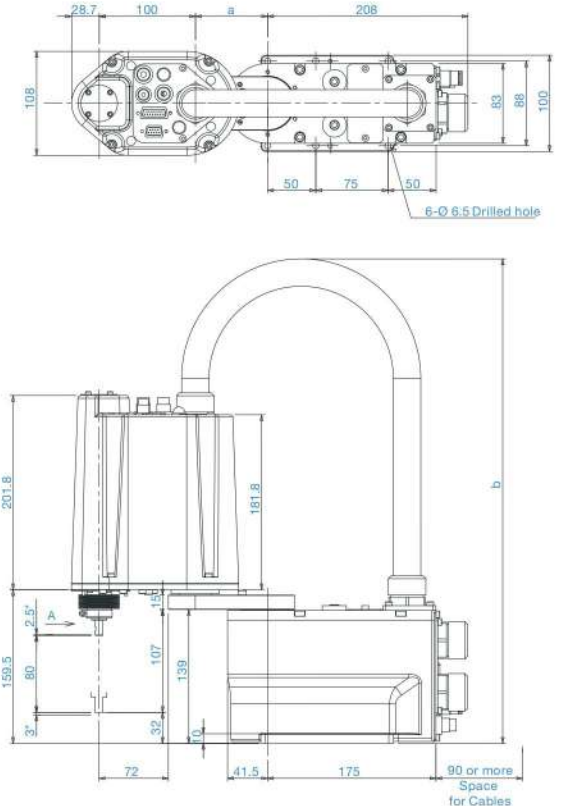
Outer Dimensions (Table Top Mounting)

[Unit: mm]

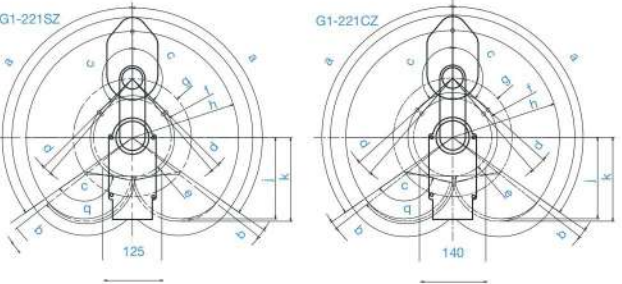
Standard-model



Cleanroom-model



Motion Range (Table Top Mounting)



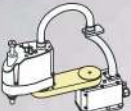
Model	4-axis				3-axis			
	G1-171S	G1-171C	G1-221S	G1-221C	G1-171SZ	G1-171CZ	G1-221SZ	G1-221CZ
g Length of Arm #1 (mm)	75	125	75	125				
h-g Length of Arm #2 (mm)	100	100	100	100				
f Motion range	64.3	59.6	64.8	70.9	86.4	89.2	94.4	
a Motion range of Joint #1 (°)	125	125			125			
c Motion range of Joint #2 (°)	140	152	149	135	123	135	132	
e Mechanical stop area	60.4	62.6	52.8	56.2	69.2	82.5	82.2	
b Joint #1 angle to hit mechanical stop (°)	3	3			3			
d Joint #2 angle to hit mechanical stop (°)	3	4	5	1.3	3	4	7	

G3

Compact body with rank-above technology for high speed and low vibration

- Handles small, heavy components and payloads up to 3kg
- Available with left- or right-curved arm for greater operating versatility
- A small robot with a long reach

Arm type



Straight arm



Curved arm

Model Number

G3 - 25 1 S -R -UL

Payload

3

: 3kg

Arm length

25

: 250mm

30

: 300mm

35

: 350mm

Joint #3 stroke

1

: 150mm

1

: 120mm: Cleanroom-model

Environment

S

: Standard

C

: Cleanroom & ESD

UL specification

□

: Non UL compliant

-UL

: UL compliant

Type

□

: Standard

R

: Right-Curved

L

: Left-Curved

Mounting type

□

: Table Top Mounting

M

: Multiple Mounting



Specifications

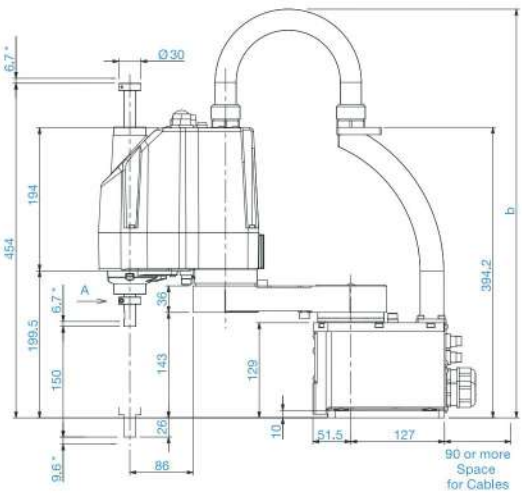
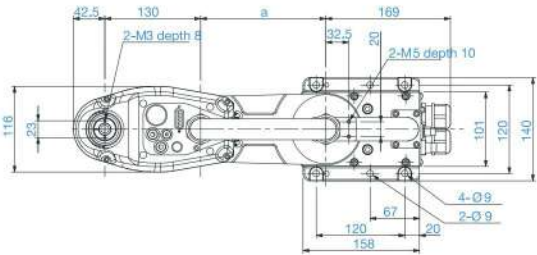
Model name		G3			
Model number		G3-251□	G3-301□□-□		G3-351□□-□
Arm length	Arm #1, #2	250 mm	300 mm		350 mm
Payload	Rated	1 kg			
	Maximum	3 kg			
Repeatability	Joints #1, #2	±0.008 mm	±0.01 mm		±0.01 mm
	Joint #3	±0.01 mm			
	Joint #4	±0.005 deg			
Standard cycle time ^{*1}		0.41 sec	0.43 sec		0.41 sec
Max. operating speed	Joints #1, #2	3550 mm/sec	3950 mm/sec		4350 mm/sec
	Joint #3	1100 mm/sec			
	Joint #4	3000 deg/sec			
Joint #4 allowable moment of inertia ^{*2}	Rated	0.005 kg·m ²			
	Maximum	0.05 kg·m ²			
Joint #3 down force		150 N			
Installation environment		Standard /Cleanroom ^{*3} & ESD			
Mounting type		Table top	Table top	Multiple	Table top Multiple
Weight (cables not included)		14 kg			
Applicable Controller		RC700-A			
Installed wire for customer use		15 Pin D-Sub			
Installed pneumatic tube for customer use		Φ6 mm x 2, Φ4 mm x 1 : 0.59 MPa (6 kgf/cm ²)			
Power		AC200-240 V Single phase			
Power Consumption ^{*4}		1.1 kVA			
Cable length		3 m/5 m/10 m/15 m/20 m			
Safety standard		CE, KC, UL			

*1: Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2kg payload (path coordinates optimized for maximum speed) .
*2: When payload center of gravity is aligned with Joint #4 ; if not aligned with Joint #4, set parameters using INERTIA command.
*3: Complies with ISO Class 3 (ISO14644-1) and older Class 1 (less than 10 0.1 μm particles per 28,317cm3:1cft) cleanroom standards.
*4: Varies according to operating environment and program.

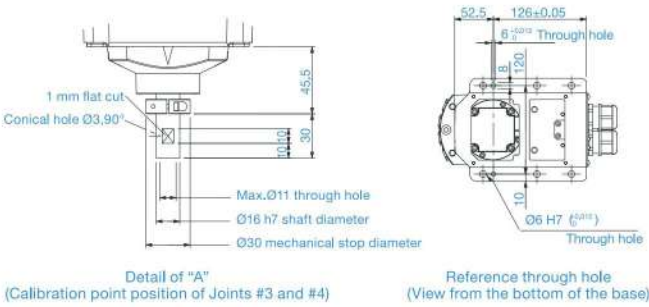
Outer Dimensions (Table Top Mounting)

[Unit: mm]

Standard-model

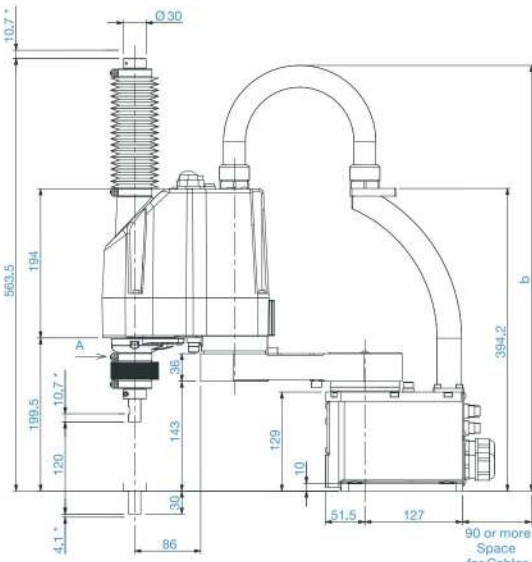
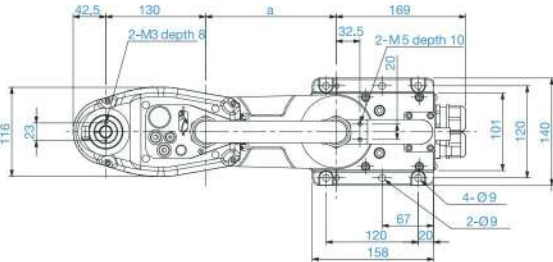


*indicates the stroke margin by mechanical stop.

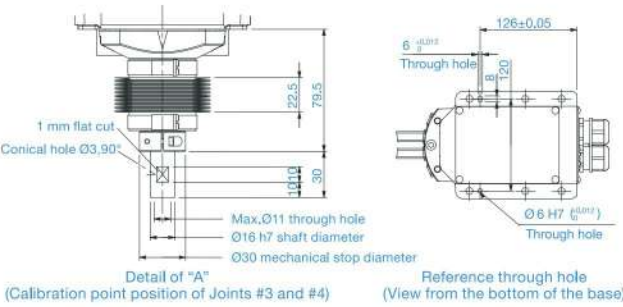


	G3_251S	G3_301S	G3_351S
a	120	170	220
b	Max.545	Max.575	Max.595

Cleanroom-model



*indicates the stroke margin by mechanical stop.

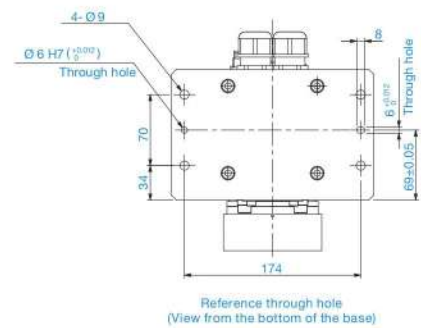
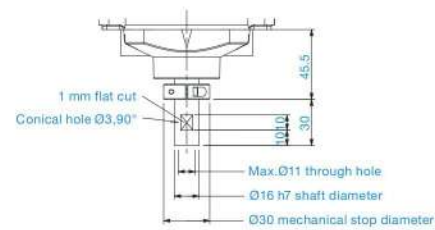
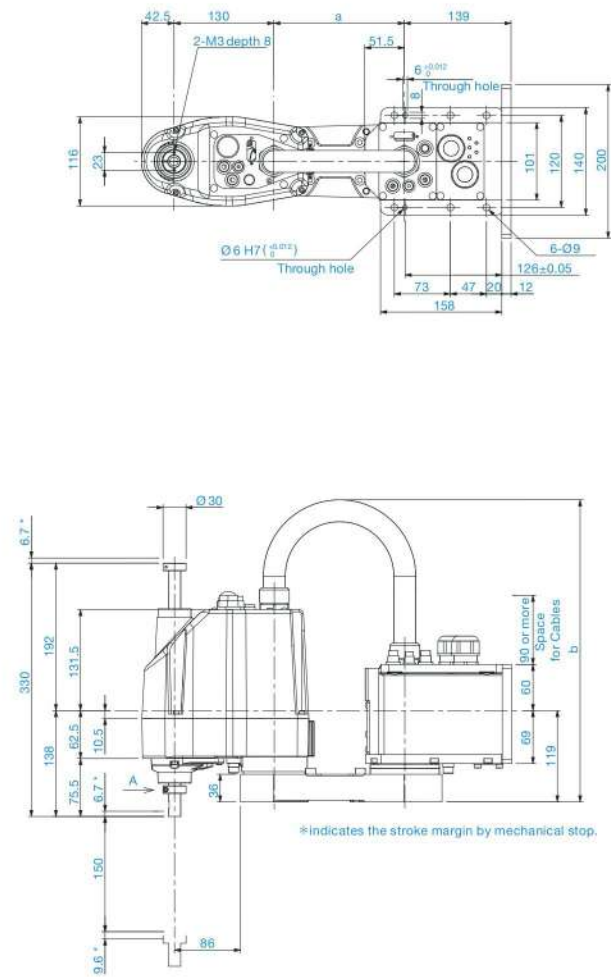


	G3_251C	G3_301C	G3_351C
a	120	170	220
b	Max.545	Max.575	Max.595

Outer Dimensions (Multiple Mounting)

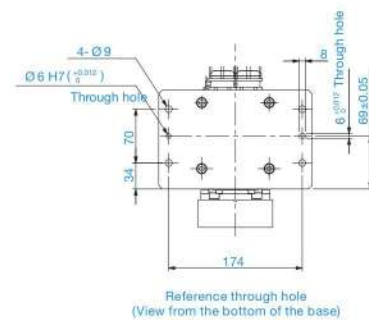
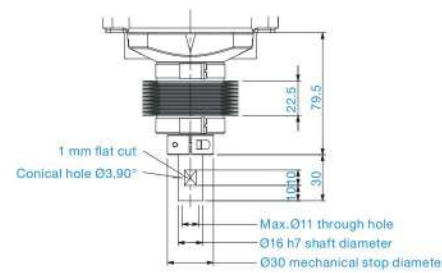
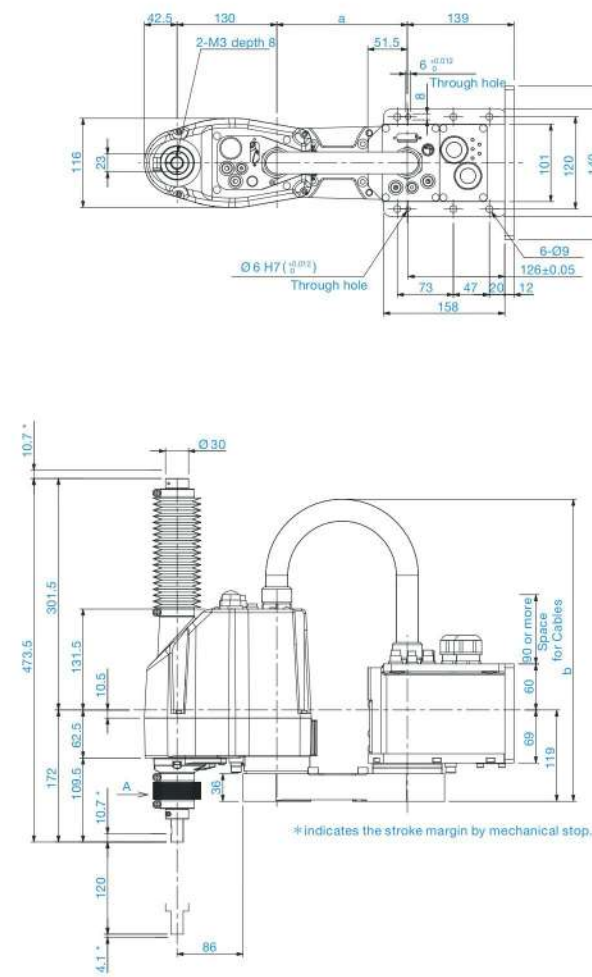
[Unit: mm]

Standard-model



	G3_301SM	G3_351SM
a	170	220
b	Max.410	Max.450

Cleanroom-model



	G3_301CM	G3_351CM
a	170	220
b	Max.410	Max.450

Motion Range (Table Top Mounting)

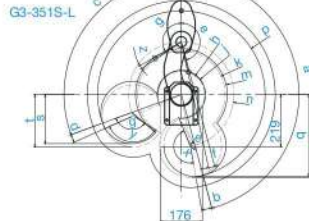
[Unit: mm]

Straight Arm



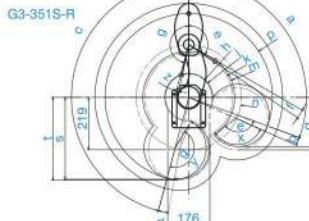
Model	Straight Arm				
	G3-251S	G3-251C	G3-301S	G3-301C	G3-351C
g Length of Arm #1 (mm)	120		170		220
h-g Length of Arm #2 (mm)	130		130		130
f Motion range	84	92	104.8	107.1	142.3
a Motion range of Joint #1 (°)			140		
c Motion range of Joint #2 (°)	141	137	142	141	142
e Mechanical stop area	79.3		96.2		134.2
b Joint #1 angle to hit mechanical stop (°)			2		
d Joint #2 angle to hit mechanical stop (°)	2.3	6.3	3.8	4.8	3.8

Left-Curved Arm



Model	Left-Curved Arm			
	G3-301S-L	G3-301C-L	G3-351S-L	G3-351C-L
n Length of Arm #1 (mm)	170		220	
p-n Length of Arm #2 (mm)	130		130	
m,j Motion range	120.7, 86.8		191.6, 100.3	191.6, 107.5
a,c Motion range of Joint #1 (°)	150, 125		165, 110	
e,g Motion range of Joint #2 (°)	150, 135	145, 135	165, 120	160, 120
h,k Mechanical stop area	79.5, 113.2		97.0, 183.0	97.0, 184.2
b,d Joint #1 angle to hit mechanical stop (°)	3, 6		5, 4	
f,z Joint #2 angle to hit mechanical stop (°)	3.3, 3.3	8.3, 3.8	2.8, 3.8	7.8, 3.8

Right-Curved Arm



Model	Right-Curved Arm			
	G3-301S-R	G3-301C-R	G3-351S-R	G3-351C-R
n Length of Arm #1 (mm)	170		220	
p-n Length of Arm #2 (mm)	130		130	
m,j Motion range	120.7, 86.8		191.6, 100.3	191.6, 107.5
a,c Motion range of Joint #1 (°)	125, 150		110, 165	
e,g Motion range of Joint #2 (°)	135, 150	135, 145	120, 165	120, 160
h,k Mechanical stop area	79.5, 113.2		97.0, 183.0	97.0, 184.2
b,d Joint #1 angle to hit mechanical stop (°)	6, 3		4, 5	
f,z Joint #2 angle to hit mechanical stop (°)	3.3, 3.3	3.3, 8.3	3.8, 2.8	3.8, 7.8

Motion Range (Multiple Mounting)

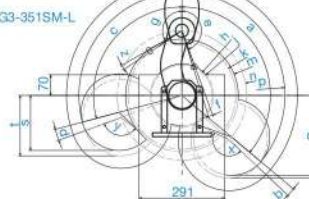
[Unit: mm]

Straight Arm



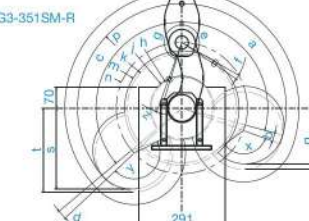
Model	Straight Arm	
	G3-301SM/CM	G3-351SM/CM
g Length of Arm #1 (mm)	170	220
h-g Length of Arm #2 (mm)	130	130
f Motion range	120.7	142.3
a Motion range of Joint #1 (°)	115	120
c Motion range of Joint #2 (°)	135	142
e Mechanical stop area	112	134.2
b Joint #1 angle to hit mechanical stop (°)		4
d Joint #2 angle to hit mechanical stop (°)		3.8

Left-Curved Arm



Model	Left-Curved Arm	
	G3-351SM-L	G3-351CM-L
n Length of Arm #1 (mm)	220	
p-n Length of Arm #2 (mm)	130	
m,j Motion range	191.9, 107.5	191.9, 125.6
a,c Motion range of Joint #1 (°)	130, 105	
e,g Motion range of Joint #2 (°)	160, 120	150, 120
h,k Mechanical stop area	103.3, 183.0	
b,d Joint #1 angle to hit mechanical stop (°)	3.3, 5	2, 5
f,z Joint #2 angle to hit mechanical stop (°)	2.8, 3.8	12.8, 3.8

Right-Curved Arm



Model	Right-Curved Arm	
	G3-351SM-R	G3-351CM-R
n Length of Arm #1 (mm)	220	
p-n Length of Arm #2 (mm)	130	
m,j Motion range	191.9, 107.5	191.9, 125.6
a,c Motion range of Joint #1 (°)	105, 130	
e,g Motion range of Joint #2 (°)	120, 160	120, 150
h,k Mechanical stop area	103.3, 183.0	
b,d Joint #1 angle to hit mechanical stop (°)	5, 3.3	5, 2
f,z Joint #2 angle to hit mechanical stop (°)	3.8, 2.8	3.8, 12.8

GX4

Upgraded performance and functionality for high speed and precision applications at a lower total operating cost

- Battery-less manipulator for reduced maintenance time and equipment downtime
- GYROPLUS Technology for improved vibration control
- Built-in camera cable & user screw holes for cable fixing convenience
- MC cable bottom out specification to reduce installation space and lower factory space costs



Model Number

GX 4 - A 35 1 S ☐ ☐ - **R - UL**

SKU first name

GX

Payload

4 : 4kg

Versions

A version

Arm length

25 : 250mm
30 : 300mm
35 : 350mm

Joint #3 stroke

1 : 150mm
: 120mm: Cleanroom-model

Environment

S : Standard
C : Clean + ESD
E : ESD

UL specification

☐ : Non UL applicable
UL : UL applicable

Arm type

☐ : Straight
R : Carving Arm R
L : Carving Arm L

Mounting type

☐ : Table Top Mounting
M : Multiple Mounting

Cable direction

☐ : Backward
B : Bottom

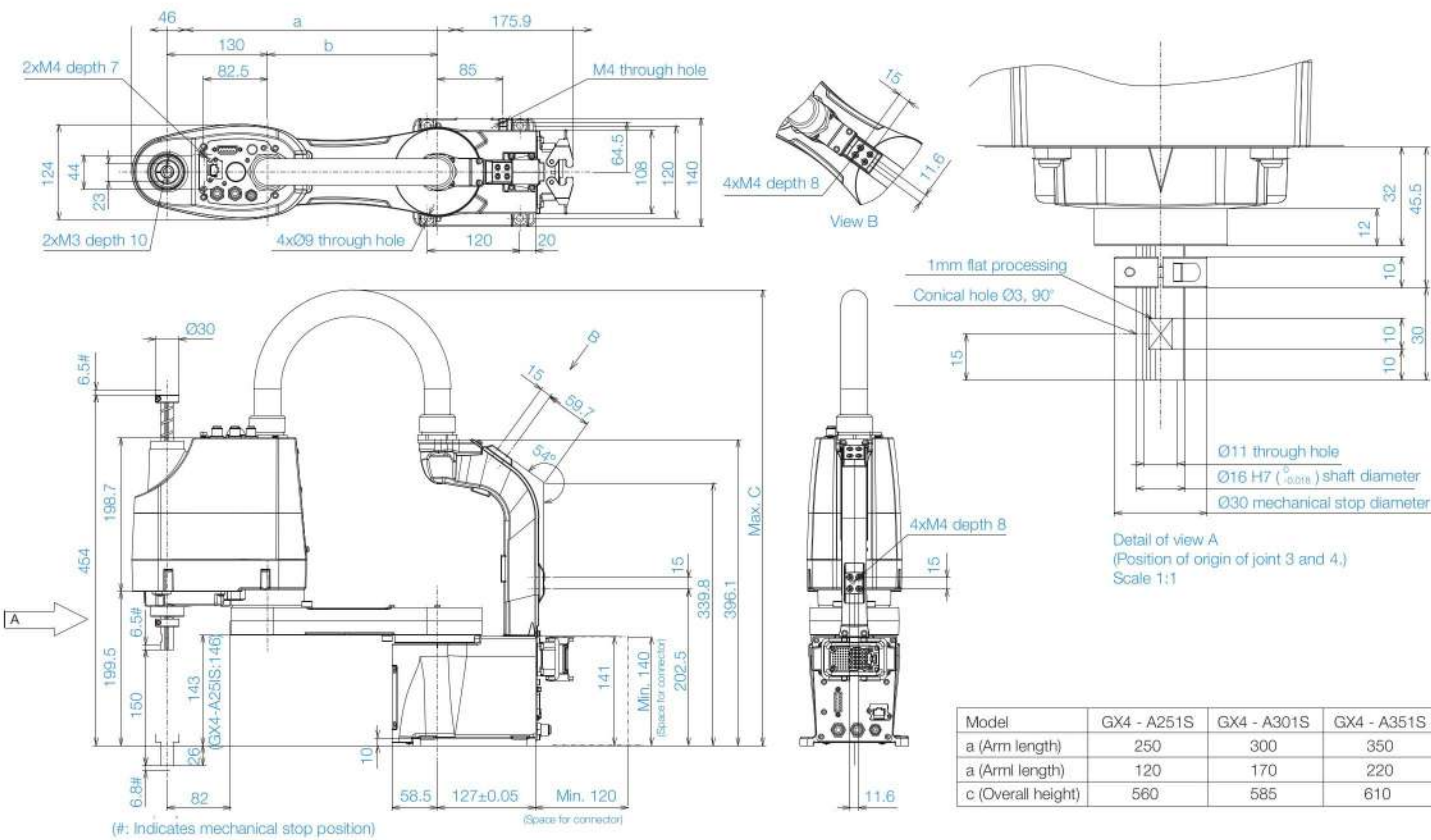
Specifications

Model Name		GX4-A		
Model Number		GX4-A251□□-□	GX4-A301□□-□	GX4-A351□□-□-□
Arm length	Joints #1 + #2 (mm)	250	300	350
Arm shape		Standard		Standard / R, L-Curved*1
Payload*2	Rated (kg)	2		
	Maximum (kg)	4		
Repeatability	Joints #1 + #2 (mm)	+/- 0.008	+/- 0.01	
	Joint #3 (mm)	+/- 0.01		
	Joint #4 (deg)	+/- 0.005		
Standard cycle time*3	(sec)	0.33	0.34	0.35
Max. operating speed	Joints #1 + #2 (mm/s)	3550	3950	4350
	Joint #3 (mm/s)	1100		
	Joint #4 (deg/s)	3100		
Joint #4 allowable moment of inertia*4	Rated (kg·m ²)	0.005		
	Maximum (kg·m ²)	0.05		
Joint #3 down force	(N)	150		
Installation environment		S: Standard, C: Cleanroom*5 & ESD*6, E: ESD*6		
Mounting type		□: Table Top, M: Multiple		
Cable exit direction		□: Rearward (Table Top) / Upward (Multiple), B: Downward (Table Top only)		
Weight (cables not included)	(kg) or less	Table top : 15	Table top : 15 / Multiple : 17	Table top : 16 / Multiple : 17
Applicable controller		RC700-D		
Installed wire for customer use		15 pin (D-Sub) x1, 8 pin (RJ45) x1		
Installed pneumatic tube for customer use		ø4mm x2 , ø6mm x1 : Allowable pressure 0.59 MPa (6 kgf/cm ²)		
Power	(V)	AC200-240 Single phase		
Power consumption*7	(kVA)	1.2		
Cable length*8	(m)	3 / 5 / 10 / 15 / 20		
Safety standard		CE , UKCA		

*1: The curved arm is only supported in 350mm arm table top model.
*2: Do not apply the load exceeding the maximum payload.
*3: Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) at rated payload setting of table top model boost mode (path coordinates optimized for maximum speed)
*4: Set the parameters by the inertia command according to the load and end effector status (refer to the instruction manual for the parameter calculation method).
*5: Complies with ISO Class 3 (ISO14644-1) and Fed-std209D Class 1 (less than 10 0.1 μm particles per 28,317cm³(1cft) cleanroom standards.
*6: Resin covers are plated with electrolytic nickel to prevent static electricity, and the potential difference is ± 5V or less.
*7: Varies according to operating environment and program.
*8: Standard cable (not flexible cable)

Outer Dimensions (Table Top Mounting)

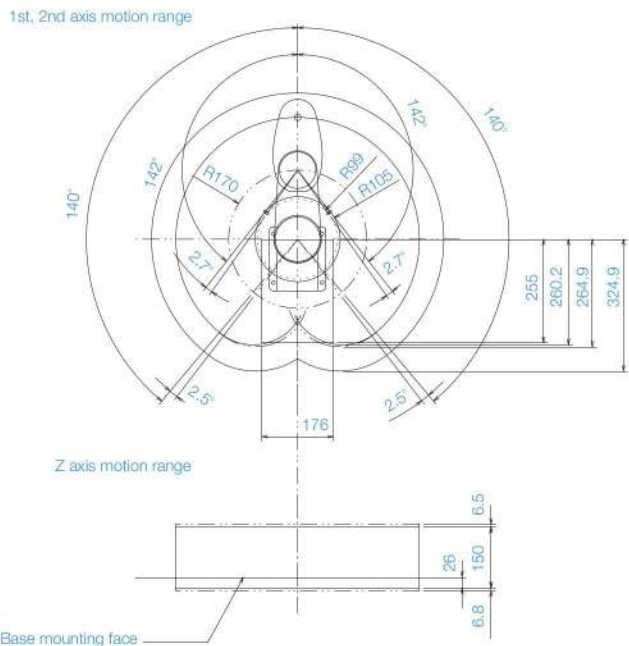
[Unit: mm]



Model	GX4 - A251S	GX4 - A301S	GX4 - A351S
a (Arm length)	250	300	350
a (Arm length)	120	170	220
c (Overall height)	560	585	610

Motion Range (Table Top Mounting)

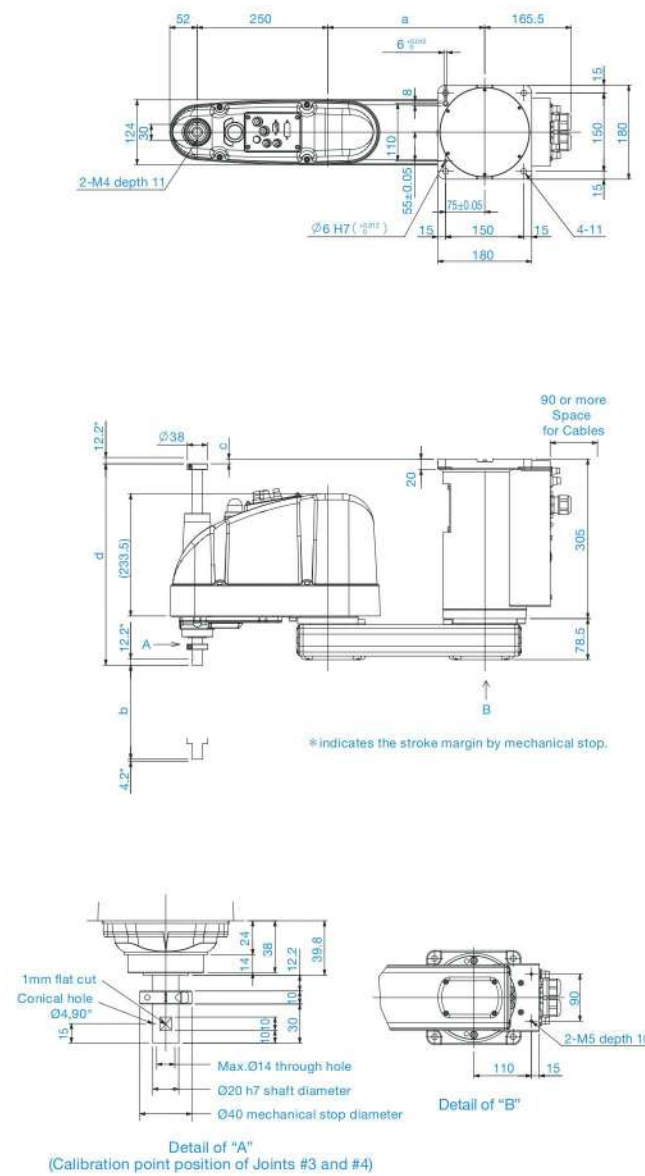
[Unit: mm]



■ Outer Dimensions (Ceiling Mounting)

[Unit: mm]

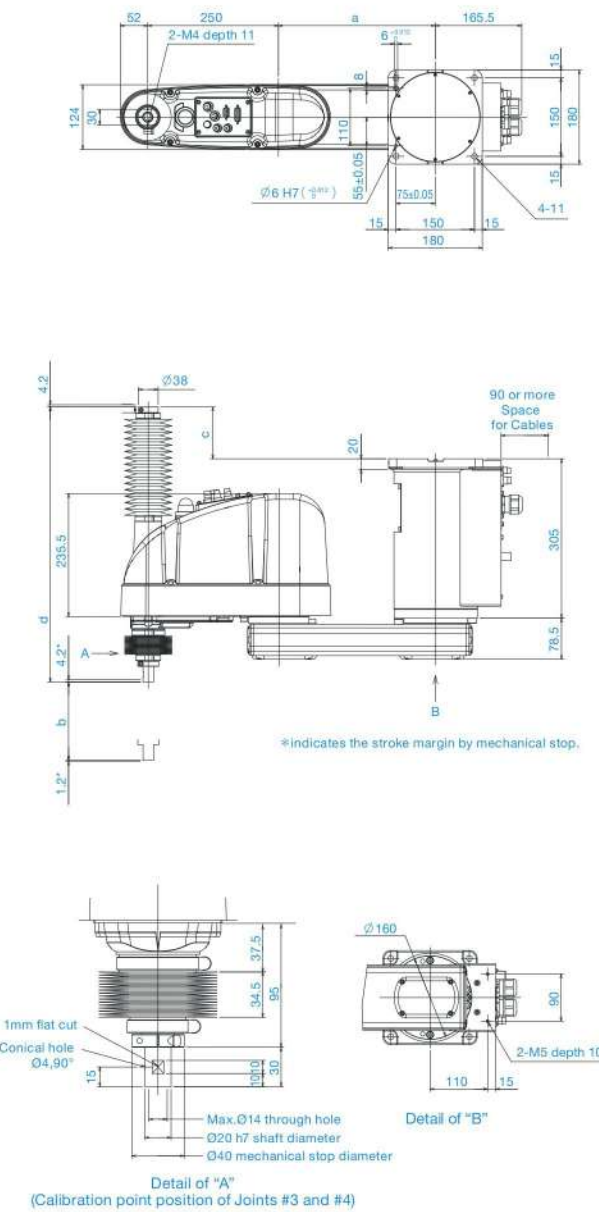
Standard-model



	G6-45 SR	G6-55 SR	G6-65 SR
a	200	300	400

	G6- SR	G6- SR
b	180	330
c	-9	141
d	385	535

Cleanroom-model



	G6-45 ☐ CR	G6-55 ☐ CR	G6-65 ☐ CR
a	200	300	400

	G6- ☐ ☐ 1CR	G6- ☐ ☐ 3CR
b	150	300
c	99	249
d	526	676

■ Motion Range (Ceiling Mounting)

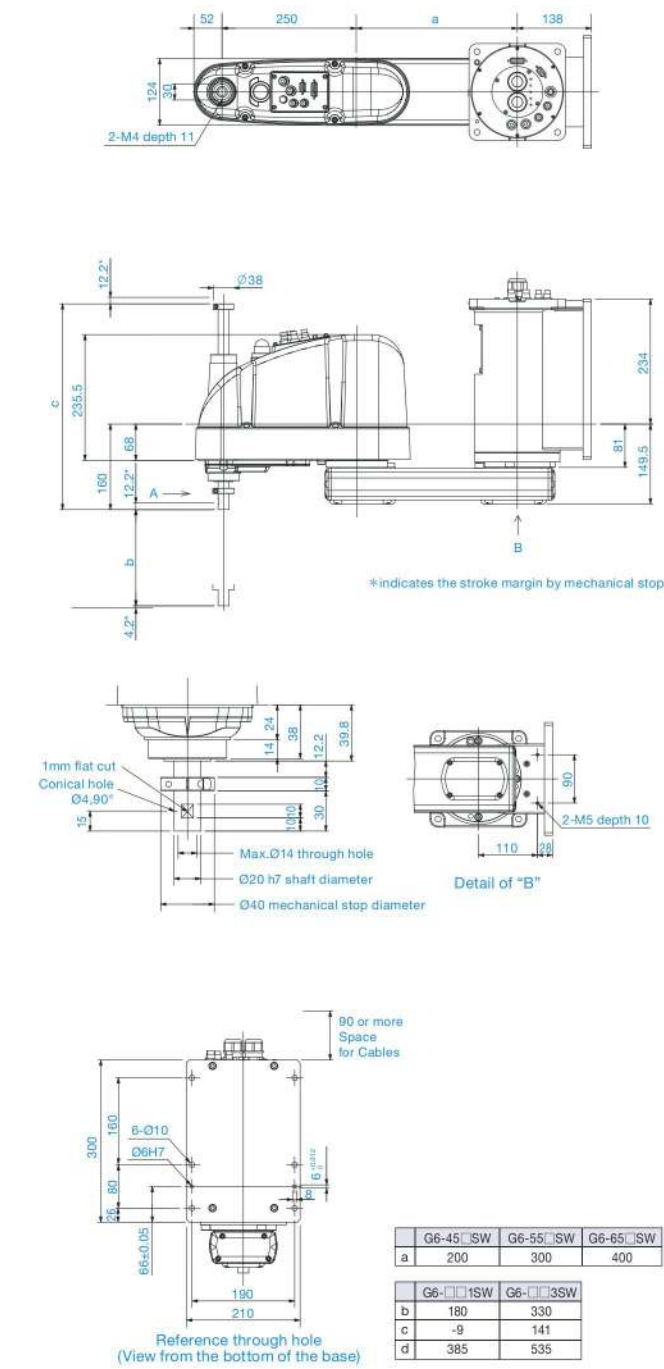


Model	Ceiling Mounting			
	G6-45□□R	G6-55□SR/DR	G6-55□CR/PR/DR belows	G6-65□□R
a Length of Arm #1 (mm)	200		300	400
b Length of Arm #2 (mm)		250		
c Motion range	195.5	161.2	172.1	232
d Motion range of Joint #1 (°)	120		152	
e Motion range of Joint #2 (°)	130	147.5	145	147.5
f Mechanical stop area	182.4		146.8	207.5
g Joint #1 angle to hit mechanical stop (°)	5.5		3.5	
h Joint #2 angle to hit mechanical stop (°)	3.8	3.3	5.8	6.3

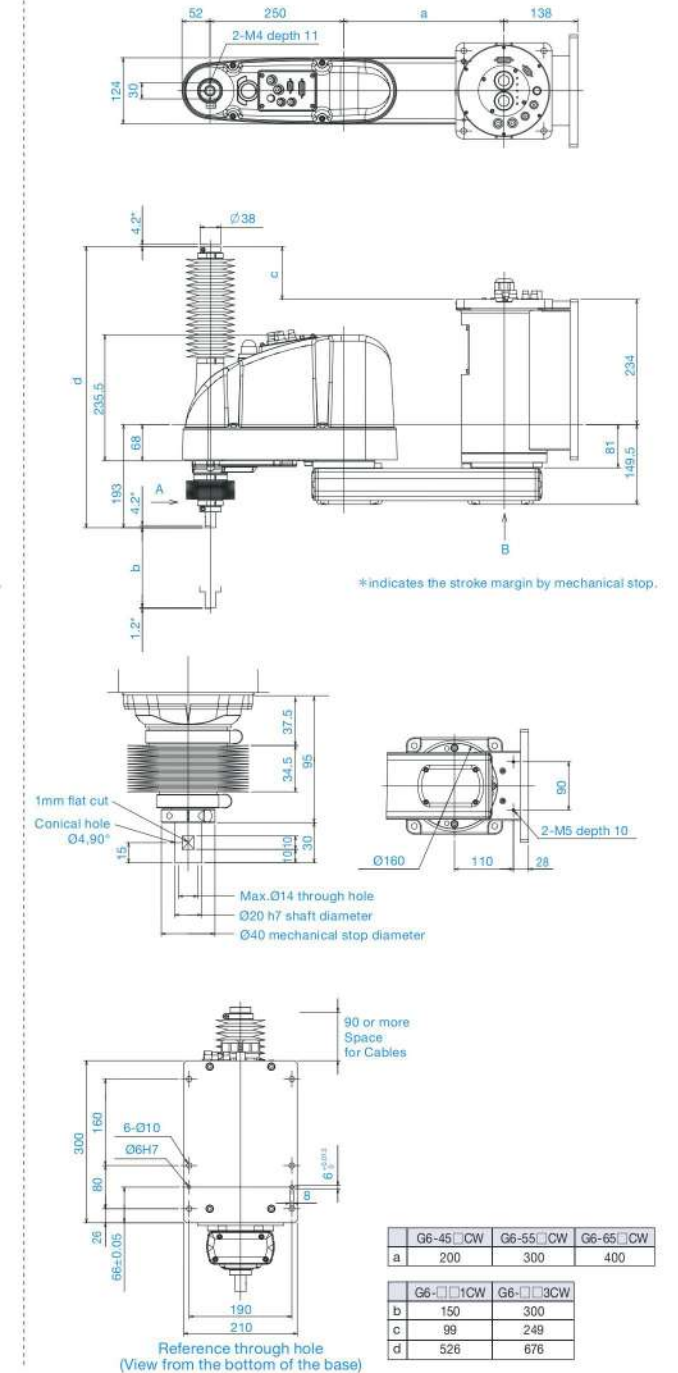
■ Outer Dimensions (Wall Mounting)

[Unit: mm]

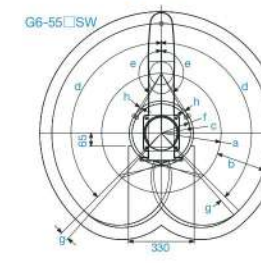
Standard-model



Cleanroom-model



■ Motion Range (Wall Mounting)



Model	Wall Mounting			
	G6-45□□W	G6-55□□SW/DW	G6-55□□CW/PW/DW below	G6-65□□□W
a Length of Arm #1 (mm)	200	300		400
b Length of Arm #2 (mm)		250		
c Motion range	195.5	161.2	172.1	232
d Motion range of Joint #1 (°)	105		135	148
e Motion range of Joint #2 (°)	130	147.5	145	147.5
f Mechanical stop area	182.4		146.8	207.5
g Joint #1 angle to hit mechanical stop (°)		3.5		7.5
h Joint #2 angle to hit mechanical stop (°)	3.8	3.3	5.8	6.3

GX8

Elevated industrial-class performance for applications requiring immense precision and accuracy at a competitive price

- Battery-less manipulator for reduced maintenance time and equipment downtime
- Improved cable fixing convenience on arm 2 with user screw holes
- Simplified MC cable attach/detachment for easy installation of robot
- Extended length of Z stroke from 180mm to 200mm



Model Number

GX 8 - A 45 2 S □ - R - UL

SKU first name

GX

Payload

8 : 8kg

Versions

A version

Arm length

45 : 450mm
55 : 550mm
65 : 650mm

Joint #3 stroke

2 : 200mm
3 : 330mm

UL specification

□ : Non UL applicable
UL : UL applicable

Mounting type

□ : Table Top Mounting
W : Wall Mounting
R : Ceiling Mounting

Cable direction

□ : Backward
B : Bottom

Environment

S : Standard
C : Clean + ESD
P : IP65
E : ESD

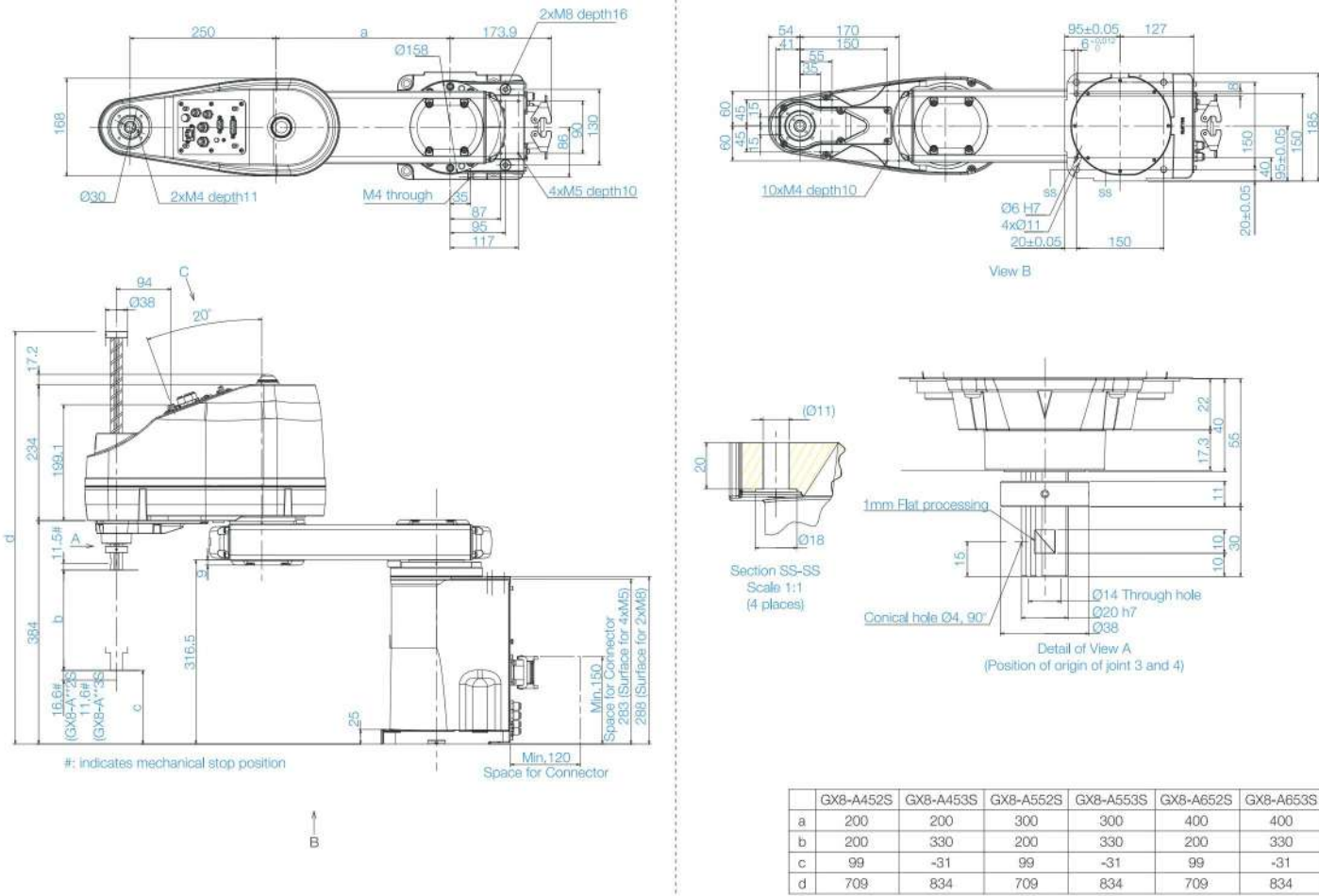
Specifications

Model Name		GX8-A		
Model Number		GX8-A45□□□□□	GX8-A55□□□□□	GX8-A65□□□□□
Arm length	Joints #1 + #2 (mm)	450	550	650
	Rated (kg)	4		
Payload*1	Maximum (kg)	8		
	Joints #1 + #2 (mm)	+/- 0.015		
Repeatability	Joint #3 (mm)	+/- 0.010		
	Joint #4 (deg)	+/- 0.005		
Standard cycle time*2	(sec)	0.28	0.30	0.33
	Joints #1 + #2 (mm/s)	7450	8450	9460
Max. operating speed	Joint #3 (mm/s)	2350		
	Joint #4 (deg/s)	2800		
Joint #4 allowable moment of inertia*4	Rated (kg·m²)	0.01		
	Maximum (kg·m²)	0.16		
Joint #3 down force	(N)	150		
Installation environment		S: Standard, C: Cleanroom*4 & ESD*5, P: IP65, E: ESD*5		
Mounting type		□: Table Top, W: Wall, R: Ceiling		
Cable exit direction		□: Rearward (Table Top, Ceiling) / Upward (Wall), B: Downward (Table Top only)		
Weight (cables not included)	(kg) or less	Table top, Ceiling : 33 / Wall : 35	Table top, Ceiling : 34 / Wall : 36	Table top, Ceiling : 35 / Wall : 37
Applicable controller		RC700-D		
Installed wire for customer use		D-sub 15 pin x1, 9 pin x1, 8 pin (RJ45) x1		
Installed pneumatic tube for customer use		ø4mm x2, ø6mm x2 : Allowable pressure 0.59 MPa (6 kgf/cm2)		
Power	(V)	AC200-240 Single phase		
Power consumption*7	(kVA)	2.2		
Cable length*8	(m)	3 / 5 / 10 / 15 / 20		
Safety standard		CE, UKCA		

*1: Do not apply the load exceeding the maximum payload.
*2: Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) at rated payload setting of table top model boost mode (path coordinates optimized for maximum speed)
*3: Set the parameters by the Inertia command according to the load and end effector status (refer to the instruction manual for the parameter calculation method).
*4: Complies with ISO Class 3 (ISO14644-1) and Fed-std209D Class 1 (less than 10 0.1 μm particles per 28.317cm³) cleanroom standards.
*5: Resin covers are plated with electrolytic nickel to prevent static electricity, and the potential difference is ± 5V or less.
*6: Varies according to operating environment and program.*7: Varies according to operating environment and program.
*8: Standard cable (not flexible cable)

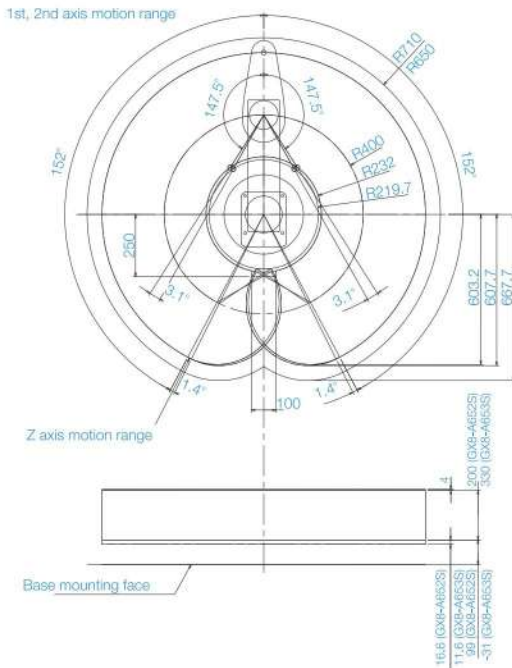
Outer Dimensions (Table Top Mounting)

[Unit: mm]



Motion Range (Table Top Mounting)

[Unit: mm]



- Handles payloads of up to 10/20kg
- Choice of 650mm, 850mm, and 1000mm arm
- Internal cabling and ducting minimizes interference worries
- IP54/65 dust and water-resistant cleanroom models available
- Tabletop, ceiling, and wall mounting models available



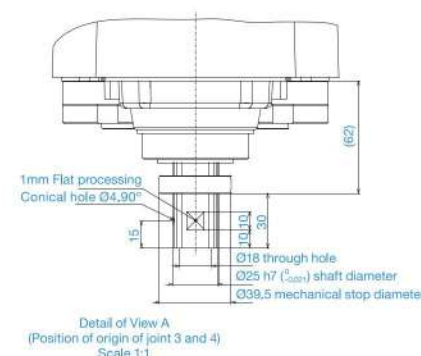
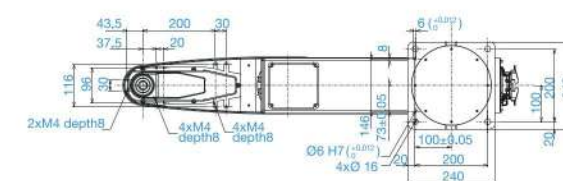
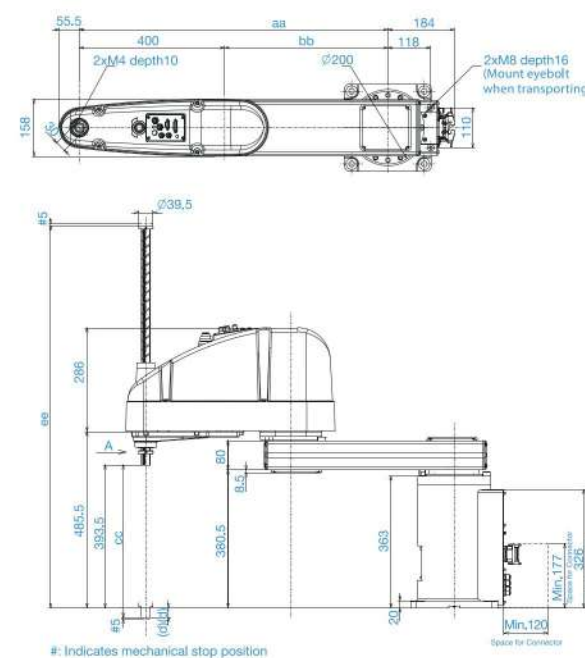
Model Number	GX10	85	4	S		- UL
Payload						
10 : 10kg						
20 : 20kg						
Arm length						
65 : 650mm (GX10 series only)						
85 : 850mm						
A0 : 1000mm (GX20 series only)						
Joint #3 stroke						
1 : 180mm						
: 150mm: (C, D w/ bellows, P)						
4 : 420mm						
: 390mm: (C, D w/ bellows, P)						
Environment						
S : Standard						
C : Cleanroom & ESD						
D : Protected: IP54 (with bellows option)						
P : Protected: IP65						
	UL specification ☐ : Non UL compliant ☒ : UL compliant					
	Mounting type ☐ : Table Top Mounting W : Wall Mounting R : Ceiling Mounting					

Model name		GX10/20-B							
Model number		GX10-B65□□		G10/20-B85□□□			GX20-BA0□□□		
Arm length	Arm #1, #2	650 mm		850 mm			1000 mm		
Payload ^{*1}	Rated	5 kg		GX10-B=5 kg /GX20-B=10kg			10 kg		
	Maximum	10 kg		GX10-B=10 kg /GX20-B=20kg			20 kg		
Repeatability	Joints #1, #2	±0.025 mm							
	Joint #3	±0.01 mm							
	Joint #4	±0.005 deg							
Standard cycle time ^{*2}		0.338 sec		GX10-B=0.377 sec / GX20-B=0.365 sec			0.422 sec		
Max. operating speed	Joints #1, #2	8800 mm/sec		11000 mm/sec			11500 mm/sec		
	Joint #3	2350 mm/sec							
	Joint #4	2400		GX10-B=2400 deg/sec / GX20-B=2350 deg/sec			2350		
Joint #4 allowable moment of inertia ^{*3}	Rated	0.02 kg·m ²		GX10-B=0.02 kg·m ² /GX20-B=0.05 kg·m ²			0.05 kg·m ²		
	Maximum	0.25 kg·m ²		GX10-B=0.25 kg·m ² /GX20-B=0.45 kg·m ²			0.45 kg·m ²		
Joint #3 down force		250 N							
Installation environment		S: Standard (equivalent to IP20), C: Cleanroom ^{*4} , ESD ^{*5} , P: IP65							
Cable exit direction		☐ Standard (table top mounting-cable routing from rear side, wall mounting-cable routing from top side, ceiling mounting-cable routing from rear side)							
Mounting type	Table top	Ceiling	Wall	Table top	Ceiling	Wall	Table top	Ceiling	Wall
Weight (cables not included)	46 kg		51 kg	49 kg		53 kg	50 kg		55 kg
Applicable Controller		RC700-E							
Installed wire for customer use		D-sub 15 pin x1, 9 pin x1							
Installed pneumatic tube for customer use		Φ4 mm x 2, Φ6 mm x 2 : Allowable pressure 0.59 MPa (6 kgf/cm ²)							
Power		AC200~240 V Single phase							
Power Consumption ^{*6}		2.4 kVA							
Cable length		Standard: 3 m/5 m/10 m/15 m/20 m, Flexible: 5 m/10 m/15 m/20 m							
Safety standard		CE, UKCA, KC, NRTL							

*1: Do not apply the load exceeding the maximum payload.
 *2: Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) at rated payload setting of table top model (path coordinates optimized for maximum speed).
 *3: Set the parameters by the Inertia command according to the load and end effector status (refer to the instruction manual for the parameter calculation method).
 *4: Complies with ISO Class 3 (ISO14644-1) and Fed-std209D Class 1 (less than 10 0.1 μm particles per 28,317cm³:1cft) cleanroom standards.
 *5: Main resin parts of the ESD model use conductive materials or apply plate processing. For the tip of the Manipulator (tool mounting part), we have confirmed that it is +/- 5 V or less even in cft after operating the measurement under our standard.
 *6: Varies according to operating environment and program.

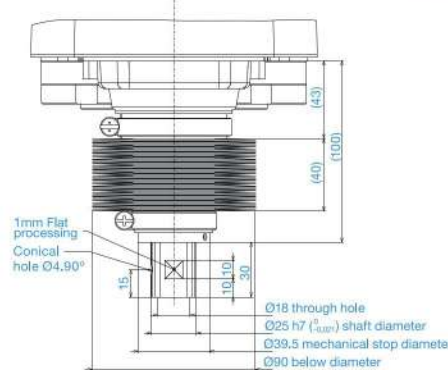
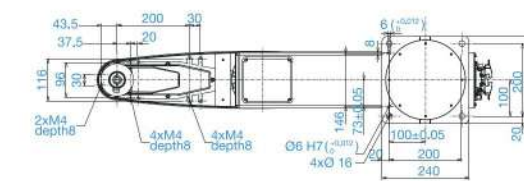
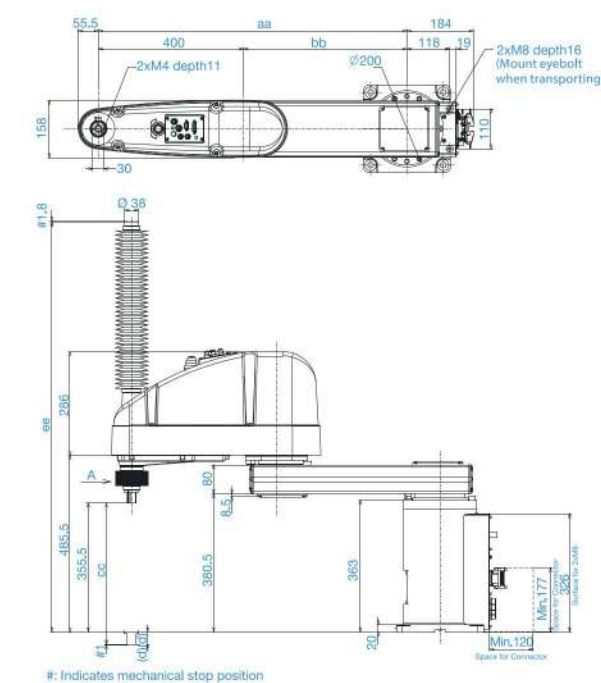
[Unit: mm]

Cleanroom-model



	GX10-B65□S	GX10-B85□S	GX20-B85□S	GX20-BA0□S
a	650	850	850	1000
b	250	450	450	600

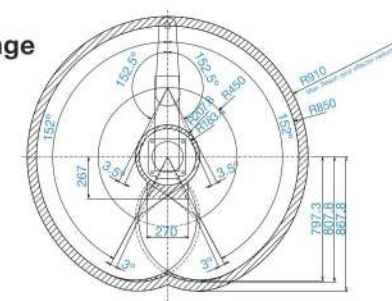
	GX10/G20-B□□1S	GX10/G20-B□□4S
c	180	420
d	-213.5	26.5
e	813.5	1053.5



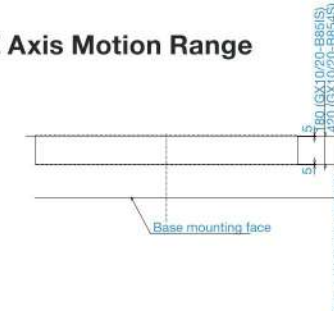
	GX10-B85□C	GX10-B85□C	GX20-B85□C	GX20-B85□C
a	850	850	850	1000
b	250	450	450	600

	GX10/G20-B□□1C	GX10/G20-B□□4C
c	150	390
d	-205.5	34.5
e	870.5	1129.5

1st, 2nd Axis Motion Range



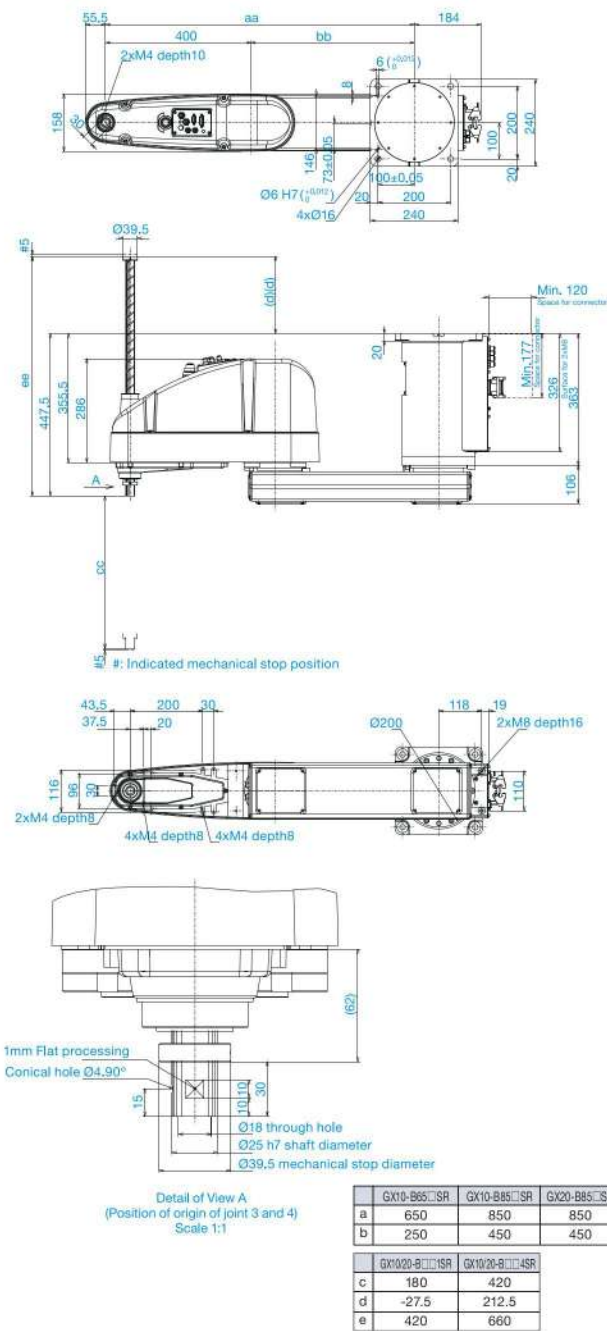
Z Axis Motion Range



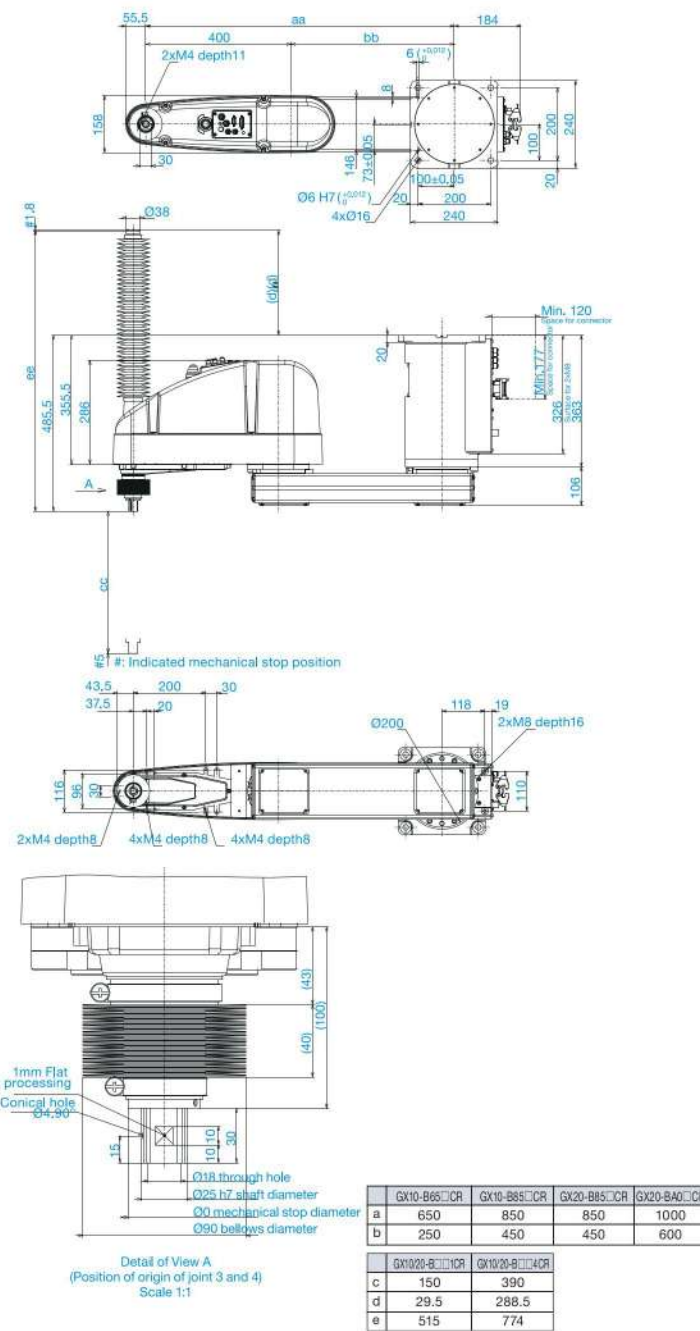
■ Outer Dimensions (Ceiling Mounting)

[Unit: mm]

Standard-model

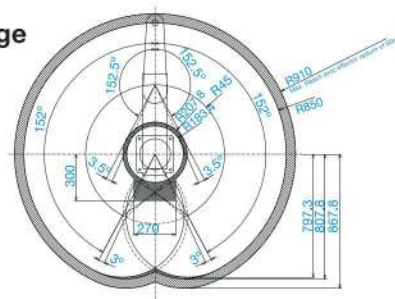


Cleanroom-model

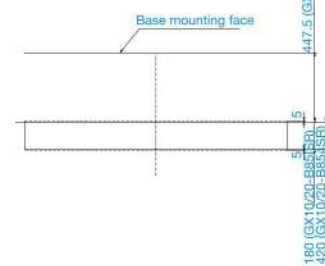


■ Motion Range (Ceiling Mounting)

1st, 2nd Axis Motion Range



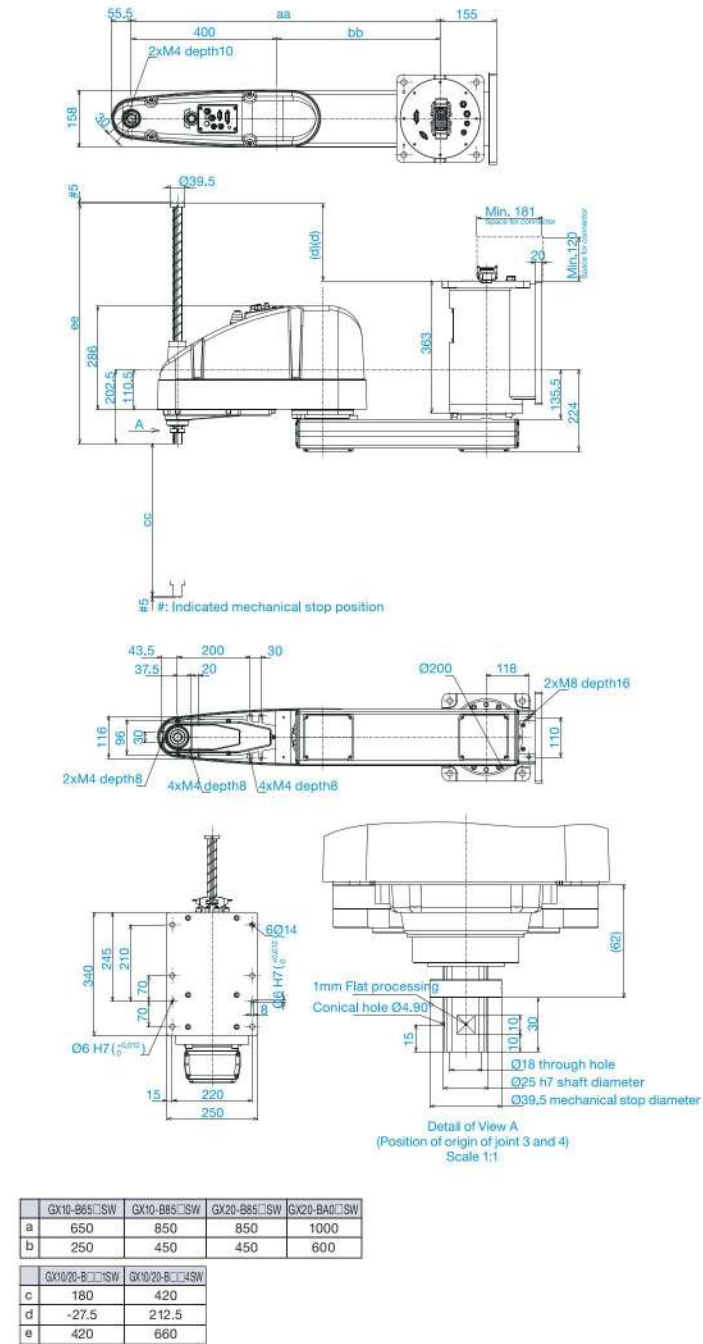
Z Axis Motion Range



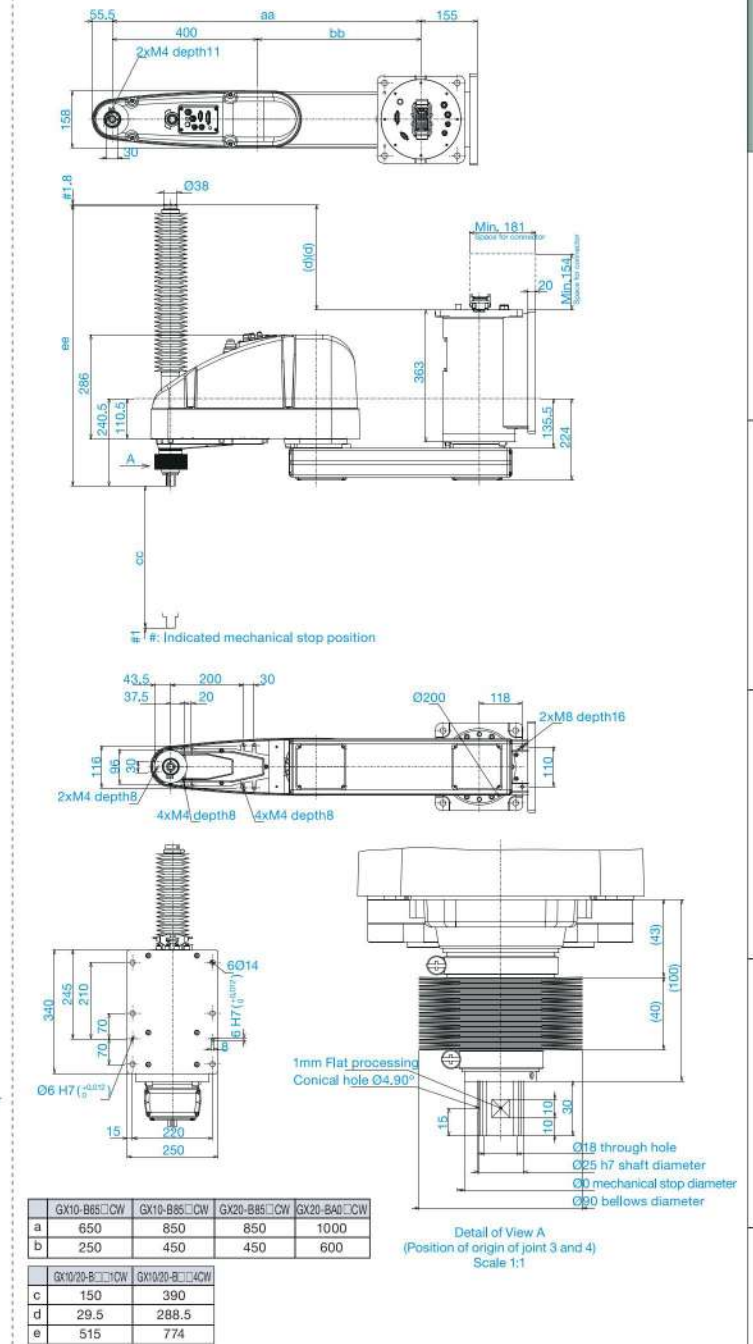
■ Outer Dimensions (Wall Mounting)

[Unit: mm]

Standard-model

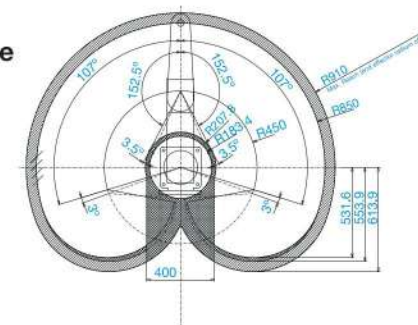


Cleanroom-model

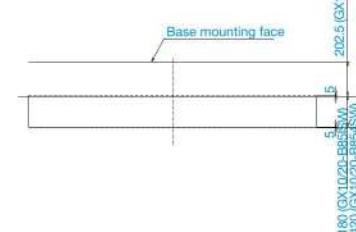


■ Motion Range (Wall Mounting)

1st, 2nd Axis Motion Range



Z Axis Motion Range



LS3-B

LS series reliability and performance with improved operating ease

- Built-in Ethernet port on arm for easier camera connectivity
- Batteryless motor unit for reduced maintenance
- Diagonally oriented rear ducting for a lower profile that helps reduce installation space requirements

Model Number

LS3 - B 40 1 S

Payload

3 : 3kg

Environment

S : Standard
C : Cleanroom

Arm length

40 : 400mm

Joint #3 stroke

1 : 150mm: Standard-model
1 : 120mm: Cleanroom-model (with bellows)



Specifications

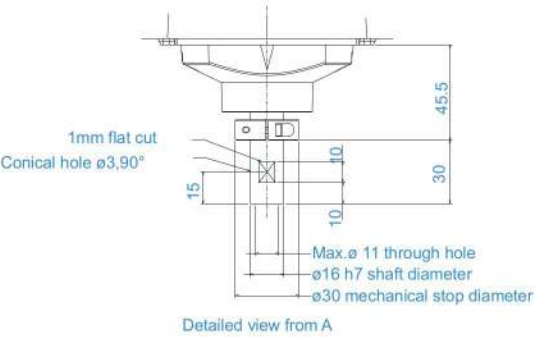
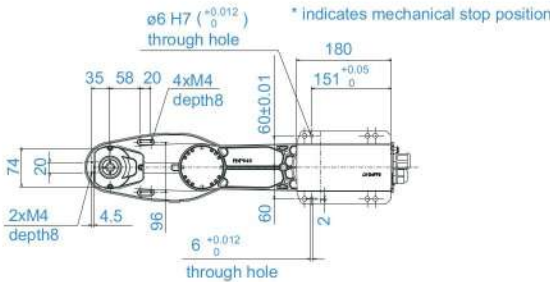
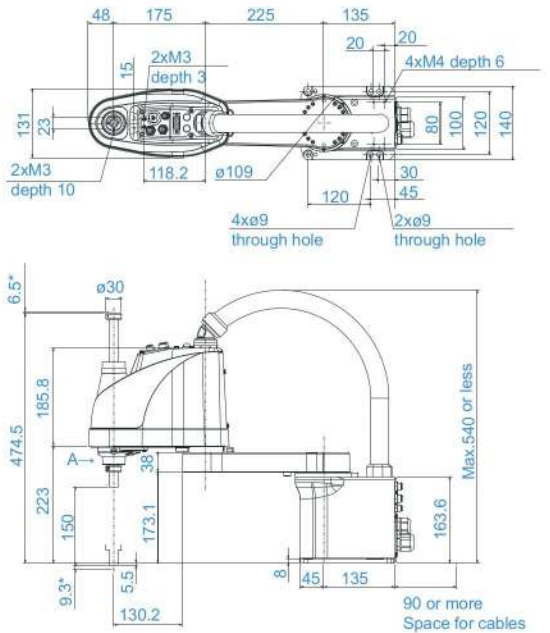
Model name		LS3-B
Model number		LS3-B401S/C
Arm length	Arm #1, #2	400 mm
Payload ^{*1}	Rated	1 kg
	Maximum	3 kg
Repeatability	Joints #1, #2	±0.01 mm
	Joint #3	±0.01 mm
	Joint #4	±0.01 deg
Standard cycle time ^{*2}		0.42 sec
Max. operating speed	Joints #1, #2	7200 mm/sec
	Joint #3	1100 mm/sec
	Joint #4	2600 deg/sec
Joint #4 allowable moment of inertia ^{*3}	Rated	0.005 kg·m²
	Maximum	0.05 kg·m²
Joint #3 down force		100 N
Installation environment		Standard or Clean ^{*4}
Mounting type		Table Top Mounting
Weight(cables not included)		14 kg
Applicable Controller		RC90-B
Installed wire for customer use		D-sub 15 pin x1 , RJ45 8 pin (CAT 5e) x1
Installed pneumatic tube for customer use		Φ6 mm × 2 , Φ4 mm × 1 : 0.59 MPa (6 kgf / cm²)
Power		AC200-240 V Single phase
Power Consumption ^{*5}		1.0 kVA
Cable length		3 m/ 5 m/ 10 m
Safety standard		CE, KC

^{*1}: Do not apply the load exceeding the maximum payload.
^{*2}: Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with Accel 120% and 2 kg payload (path coordinates optimized for maximum speed).
^{*3}: If the center of gravity is at the center of each arm. If the center of gravity is not at the center of each arm, set the eccentric quantity using INERTIA command.
^{*4}: Complies with ISO Class 4 cleanroom standards.
^{*5}: It depends on environment and motion program.

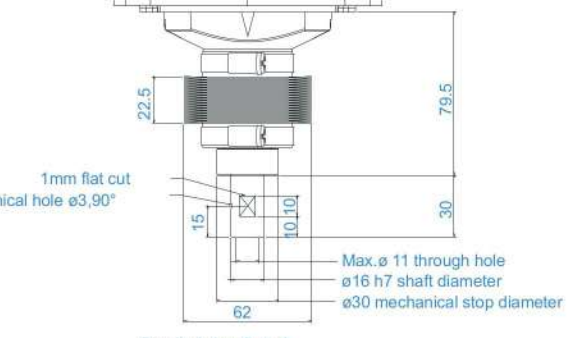
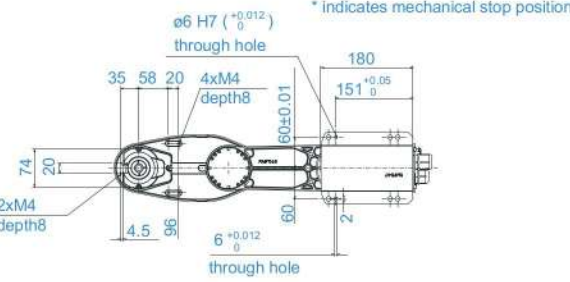
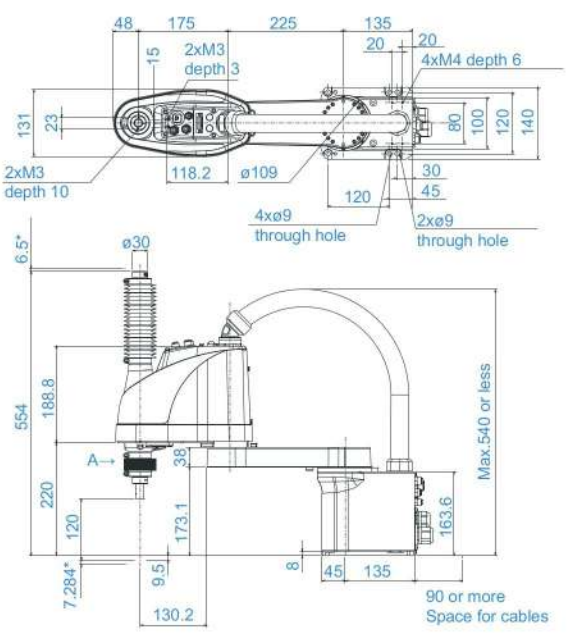
Outer Dimensions (Table Top Mounting)

[Unit: mm]

Standard-model



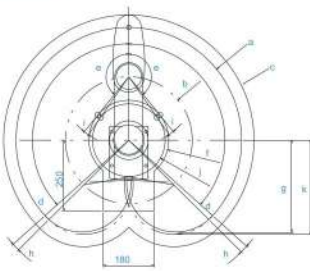
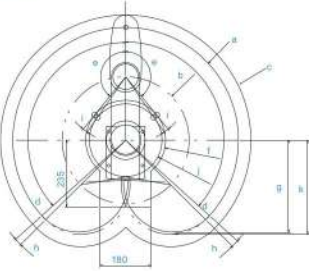
Cleanroom-model



Motion Range (Table Top Mounting)

LS3-B401S

LS3-B401C



Model	LS3-B401	
	Standard-model	Cleanroom-model
a	Arm #1 + Arm #2 length (mm)	
b	Arm #1 length (mm)	
c	Max. motion range (mm)	
d	Joint #1 motion angle (°)	
e	Joint #2 motion angle (°)	
f	Motion range (mm)	
g	Motion range at the rear (mm)	
h	Angle of the Joint #1 mechanical stop (°)	
i	Angle of the Joint #2 mechanical stop (°)	
j	Mechanical stop area (mm)	
k	Mechanical stop area at the rear (mm)	

LS6-B

LS series reliability and performance with improved operating ease

- Built-in Ethernet port on arm for easier camera connectivity
- Batteryless motor unit for reduced maintenance
- Diagonally oriented rear ducting for a lower profile that helps reduce installation space requirements



Model Number	LS6 - B60 2 S		
Payload	6	Environment	S
	6kg		Standard
			C
			Cleanroom
Arm length	50	Joint #3 stroke	2
	500mm		170mm: Cleanroom-model (with bellows)
	60		
	600mm		
	70		
	700mm		

Specifications

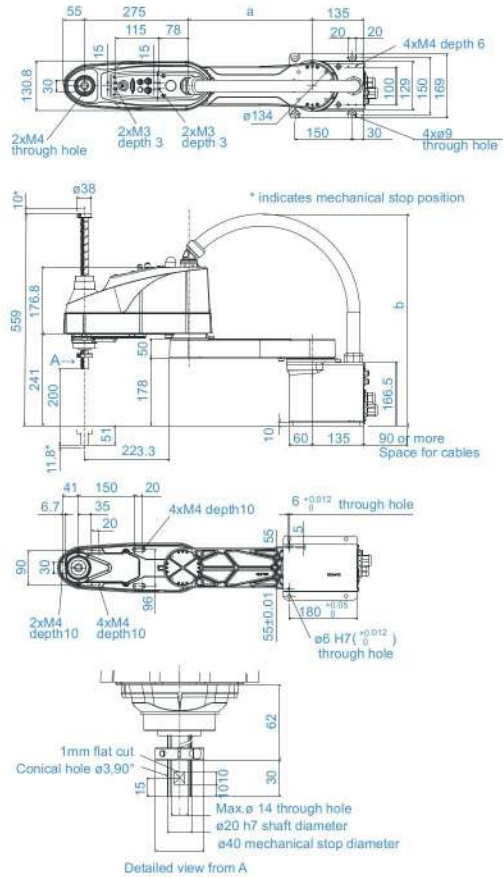
Model name		LS6-B		
Model number		LS6-B502S/C	LS6-B602S/C	LS6-B702S/C
Arm length	Arm #1, #2	500 mm	600 mm	700 mm
Payload ^{*1}	Rated	2 kg		
	Maximum	6 kg		
Repeatability	Joints #1, #2	±0.02 mm		
	Joint #3	±0.01 mm		
	Joint #4	±0.01 deg		
Standard cycle time ^{*2}		0.39 sec	0.40 sec	0.42 sec
Max. operating speed	Joints #1, #2	7120 mm/sec	7850 mm/sec	8590 mm/sec
	Joint #3	1100 mm/sec		
	Joint #4	2000 deg/sec		
Joint #4 allowable moment of inertia ^{*3}	Rated	0.01 kg·m2		
	Maximum	0.12 kg·m2		
Joint #3 down force		100 N		
Installation environment		Standerd or Clean ^{*4}		
Mounting type		Table Top Mounting		
Weight(cables not included)		17 kg	18 kg	
Applicable Controller		RC90-B		
Installed wire for customer use		D-sub 15 pin x1 , RJ45 8 pin (Cat 5e Class) x1		
Installed pneumatic tube for customer use		Φ4 mm x 1, Φ6 mm x 2		
Power		AC200-240 V Single phase		
Power Consumption ^{*5}		1.1 kVA		
Cable length		3 m/5 m/10 m		
Safety standard		CE, KC		

^{*1} : Do not apply the load exceeding the maximum payload.
^{*2} : Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with Accel 120% and 2 kg payload (path coordinates optimized for maximum speed). Rounded down to the third decimal place.
^{*3} : If the center of gravity is at the center of each arm. If the center of gravity is not at the center of each arm, set the eccentric quantity using INERTIA command.
^{*4} : Complies with ISO Class 4 cleanroom standards.
^{*5} : It depends on environment and motion program.

Outer Dimensions (Table Top Mounting)

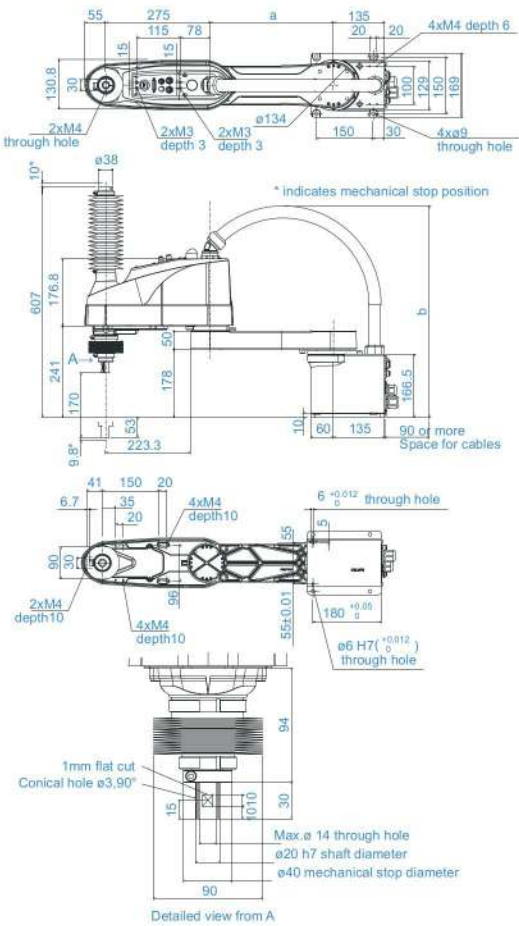
[Unit: mm]

Standard-model



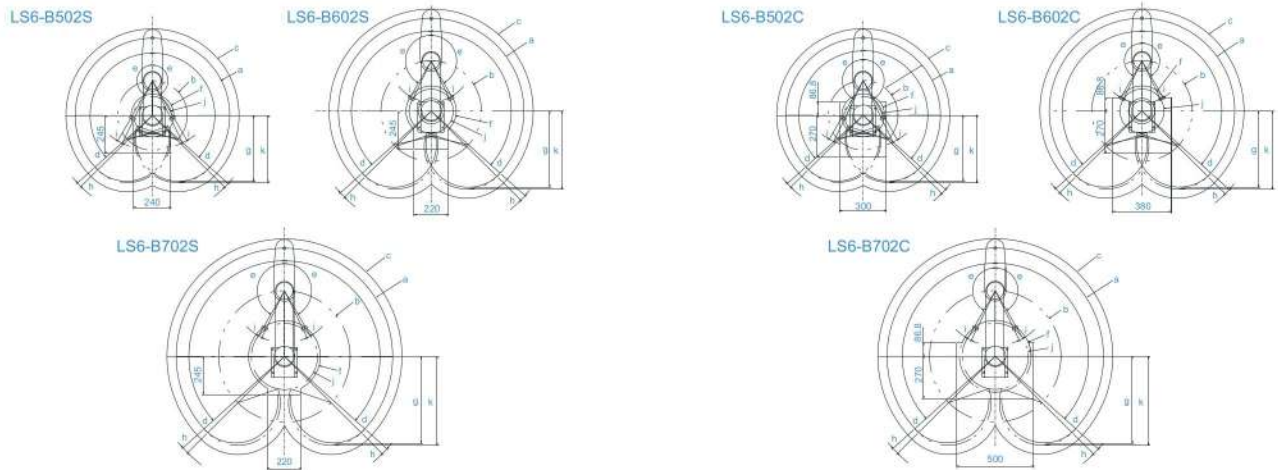
	LS6-B502S	LS6-B602S	LS6-B702S
a	225	325	425
b	529	559	589

Cleanroom-model



	LS6-B502C	LS6-B602C	LS6-B702C
a	225	325	425
b	529	559	589

Motion Range (Table Top Mounting)



Model	LS6-B502	LS6-B602	LS6-B702
a Arm #1 + Arm #2 length (mm)	500	600	700
b Arm #1 length (mm)	225	325	425
c Max. motion range (mm)	556	656	756
d Joint #1 motion angle (°)	132		
e Joint #2 motion angle (°)	150		
f Motion range (mm)	138.1	162.6	232
g Motion range at the rear (mm)	425.6	492.5	559.4
h Angle of the Joint #1 mechanical stop (°)	2.8		
i Angle of the Joint #2 mechanical stop (°)	4.2		
j Mechanical stop area (mm)	121.8	142.5	214
k Mechanical stop area at the rear (mm)	433.5	504	574.5

- 10kg payload for applications requiring high inertia or the use of complex effectors
- A choice of three arm lengths and two ball screw lengths for high configurability to suit a variety of application requirements
- Built-in Ethernet port for easy camera connectivity
- Batteryless motor unit for reduced maintenance



Model Number **LS10 - B**

Payload : 10kg

Environment
 : Standard
 : Cleanroom

Joint #3 stroke
 : 200mm: Standard-model
 : 170 mm: Cleanroom-model (with bellows)
 : 300 mm: Standard-model
 : 270mm: Cleanroom-model (with bellows)

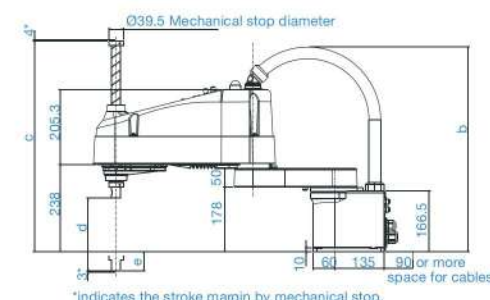
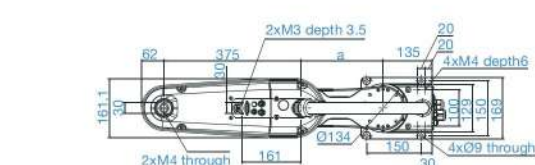
Arm length
 : 600mm
 : 700mm
 : 800mm

Model name		LS10-B		
Model number		LS10-B60□S/C	LS10-B70□S/C	LS10-B80□S/C
Arm length	Arm #1, #2	600 mm	700 mm	800 mm
Payload ^{*1}	Rated	5 kg		
	Maximum	10 kg		
Repeatability	Joints #1, #2	±0.02 mm		±0.025 mm
	Joint #3	±0.01 mm		
	Joint #4	±0.01 deg		
Standard cycle time ^{*2}		0.39 sec	0.41 sec	0.44sec
Max. operating speed	Joints #1, #2	9100 mm/sec	9800 mm/sec	10500 mm/sec
	Joint #3	1100 mm/sec		
	Joint #4	2700 deg/sec		
Joint #4 allowable moment of inertia ^{*3}	Rated	0.02 kg·m ²		
	Maximum	0.3 kg·m ²		
Joint #3 down force		200 N		
Installation environment		Standard or Clean ^{*4}		
Mounting type		Table Top		
Weight(cables not included)		22 kg		23 kg
Applicable Controller		RC90-B		
Installed wire for customer use		D-sub 15 pin x1 , RJ45 8 pin (Cat 5e equivalent) x1		
Installed pneumatic tube for customer use		Φ6 mm × 2, Φ4 mm × 1		
Power		AC200-240 V Single phase		
Power Consumption ^{*5}		1.8 kVA		
Cable length		3 m/5 m/10 m		
Safety standard		CE, KC		

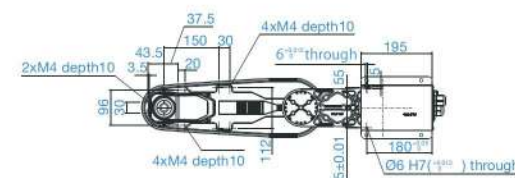
*1 : Do not apply the load exceeding the maximum payload.
 *2 : Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with Accel 120% and 2 kg payload (path coordinates optimized for maximum speed).
 *3 : If the center of gravity is at the center of each arm. If the center of gravity is not at the center of each arm, set the eccentric quantity using INERTIA command.
 *4 : Complies with ISO Class 4 cleanroom standards.
 *5 : It depends on operating environment and operation program.

[单位:mm]

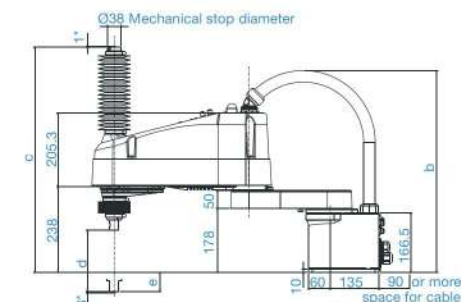
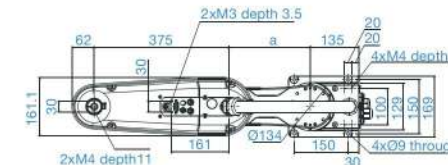
Cleanroom-model



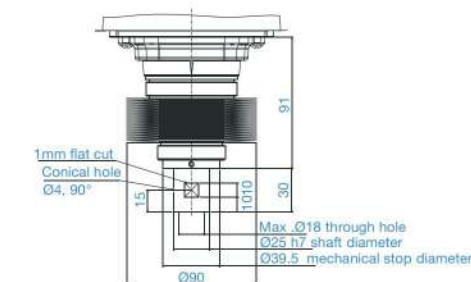
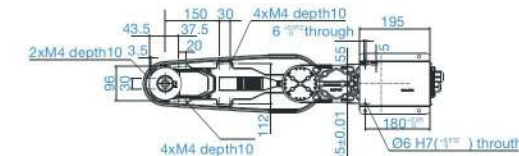
*indicates the stroke margin by mechanical stop



	LS10-B602S	LS10-B603S	LS10-B702S	LS10-B703S	LS10-B802S	LS10-B803S
a	225	225	325	325	425	425
b	Max.565	Max.565	Max.580	Max.580	Max.580	Max.580
c	577	677	577	677	577	677
d	200	300	200	300	200	300
e	53	153	53	153	53	153

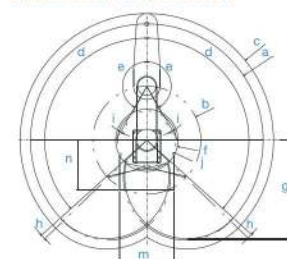


*indicates the stroke margin by mechanical stop.



	LS10-B602C	LS10-B603C	LS10-B702C	LS10-B703C	LS10-B802C	LS10-B803
a	225	225	325	325	425	425
b	Max.565	Max.565	Max.580	Max.580	Max.580	Max.580
c	627	727	627	727	627	727
d	170	270	170	270	170	270
e	53	153	53	153	53	153

Standard-model / Cleanroom-model



Model	Standard			Cleanroom		
	L50-B602S-B603S	L50-B702S-B703S	L50-B802S-B803S	L50-B602C-B603C	L50-B702C-B703C	L50-B802C-B803C
a Length of Arm #1 + Arm #2 (mm)	600	700	800	600	700	800
b Length of Arm #1 (mm)	225	325	425	225	325	425
c Max. motion range (mm)	663	763	863	663	763	863
d Motion range of Joint #1 (°)		132			132	
e Motion range of Joint #2 (°)		150			150	
f Motion range (mm)	212	188	213	212	188	213
g Motion range at the rear (mm)	526	592	659	526	592	659
h Joint #1 angle to hit mechanical stop (°)		2			2	
i Joint #2 angle to hit mechanical stop (°)		2			2	
j Mechanical stop area (mm)	206	176	200	206	176	200
k Mechanical stop area at the rear (mm)	531	601	670	531	601	670
m Motion range (mm)	420	330	320	420	400	480
n Motion range (mm)		300			320	

LS20-B

LS series reliability and performance with improved operating ease

- Higher allowable moment of inertia for improved performance when using large end effectors to perform multi-item pick-and-place operations
- Built-in Ethernet port on arm for easy camera connectivity
- Batteryless motor unit for reduced maintenance
- Improved duct design for low vibration during operation and easy cable installation

Model Number

LS20 - B80 4 S

Payload

20

: 20kg

Environment

S

: Standard

C

: Cleanroom

Arm length

80

: 800mm

A0

: 1000mm

Joint #3 stroke

4

: 420mm: Standard-model

4

: 390mm: Cleanroom-model (with bellows)



Specifications

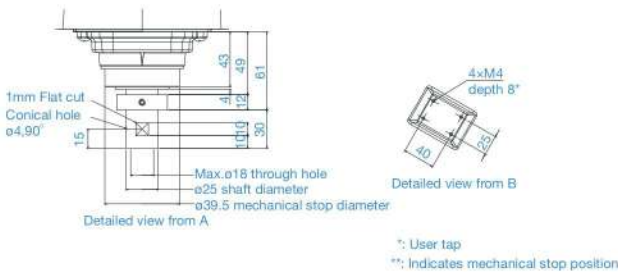
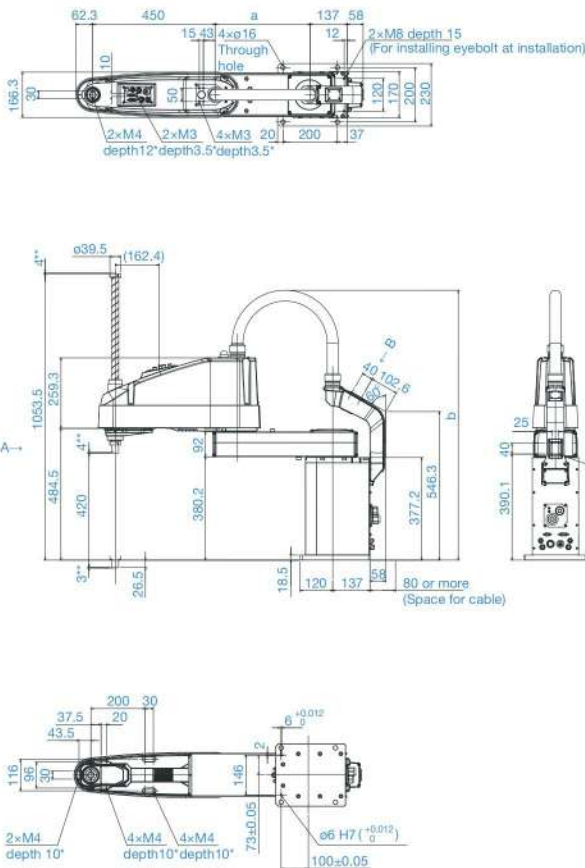
Model name		LS20-B	
Model number		LS20-B804S/C	LS20-BA04S/C
Arm length	Arm #1, #2	800 mm	1000 mm
	Rated	10 kg	
Payload ^{*1}	Maximum	20 kg	
	Joints #1, #2	±0.025 mm	
Repeatability	Joint #3	±0.01 mm	
	Joint #4	±0.01 deg	
Standard cycle time ^{*2}		0.39 sec	0.43 sec
Max. operating speed	Joints #1, #2	9940 mm/sec	11250 mm/sec
	Joint #3	2300 mm/sec	
	Joint #4	1400 deg/sec	
Joint #4 allowable moment of inertia ^{*3}	Rated	0.05 kg·m ²	
	Maximum	1.00 kg·m ²	
Joint #3 down force		250 N	
Installation environment		Standard or Clean ^{*4}	
Mounting type		Table Top Mounting	
Weight(cables not included)		48 kg	51 kg
Applicable Controller		RC90-B	
Installed wire for customer use		D-sub 15 pin x1 , D-sub 9 pin x1 , RJ45 8 pin (CAT 5e) x1	
Installed pneumatic tube for customer use		Φ8 mm x 2 , Φ6 mm x 2 : 0.59 MPa (6 kgf / cm ²)	
Power		AC200-240 V Single phase	
Power Consumption ^{*5}		2.4 kVA	
Cable length		3 m/ 5 m/ 10 m	
Safety standard		CE, KC	

^{*1} : Do not apply the load exceeding the maximum payload.
^{*2} : Cycle time based on round-trip arch motion (300 mm horizontal, 25 mm vertical) with Accel 120% and 2 kg payload (path coordinates optimized for maximum speed).
^{*3} : If the center of gravity is at the center of each arm. If the center of gravity is not at the center of each arm, set the eccentric quantity using INERTIA command.
^{*4} : Complies with ISO Class 4 cleanroom standards.
^{*5} : It depends on operating environment and operation program.

Outer Dimensions (Table Top Mounting)

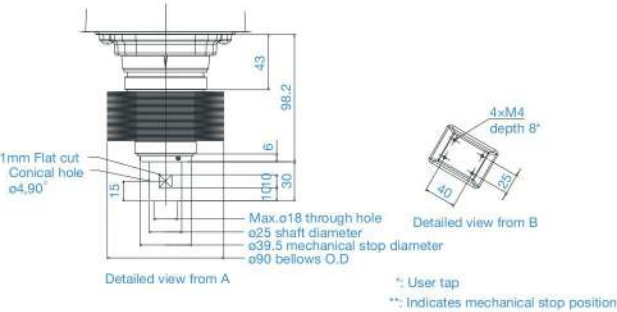
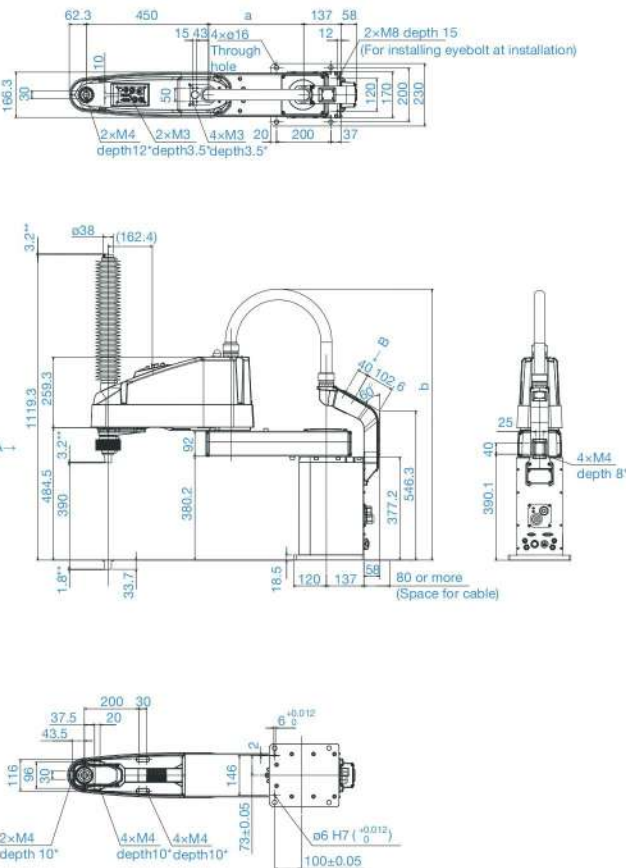
[Unit: mm]

Standard-model



	LS20-B804S	LS20-BA04S
a	350	550
b	Max.1000	Max.1100

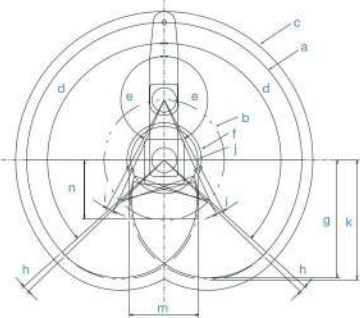
Cleanroom-model



	LS20-B804C	LS20-BA04C
a	350	550
b	Max.1000	Max.1100

Motion Range (Table Top Mounting)

Standard-model / Cleanroom-model



Model	Standard		Cleanroom	
	LS20-B804S	LS20-A04S	LS20-B804C	LS20-A04C
a Length of Arm #1 +Arm #2 (mm)	800	1000	800	1000
b Length of Arm #1 (mm)	350	550	350	550
c Length of Arm #2 (mm)	864	1064	864	1064
d Motion range of Joint #1 (°)	132			
e Motion range of Joint #2 (°)	152			
f Motion range (mm)	216.5	260.7	216.5	260.7
g Motion range at the rear (mm)	684.2	818	684.2	818
h Joint #1 angle to hit mechanical stop (°)	2			
i Joint #2 angle to hit mechanical stop (°)	3.6			
j Mechanical stop area (mm)	195.3	232.8	195.3	232.8
k Mechanical stop area at the rear (mm)	693.1	832.1	693.1	832.1
m Motion range (mm)	400	290	400	330
n Motion range (mm)	340	265	340	265

- All-in-one solution ideal for virtually any application
- Energy efficient (cuts energy consumption by over 50%)*
- Simple I/O and short cable conduit for easy cabling, and offers payload of up to 3kg
- Batteryless motor unit to reduce running costs and factory downtime

Model Number **T3 - B 40 1 S**

Payload **3**: 3kg Environment **S**: Standard

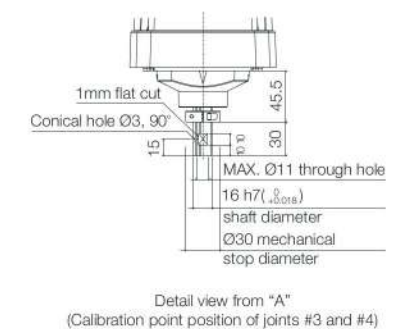
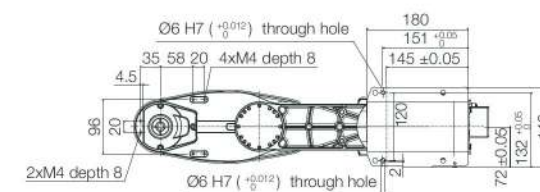
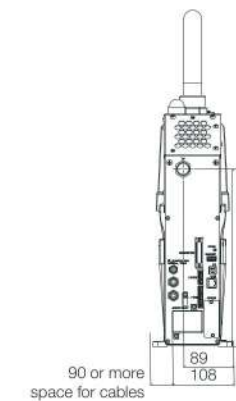
Arm length **40**: 400mm Joint #3 stroke **1**: 150mm



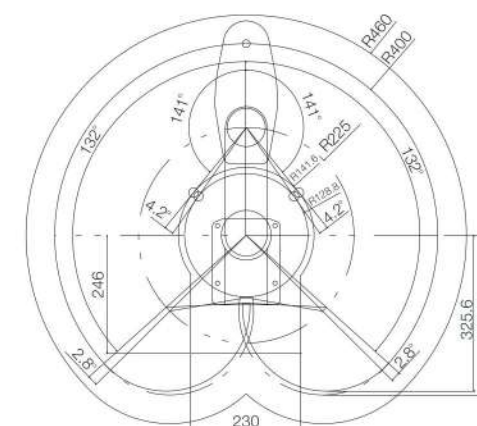
Model Name		T3-B
Model Number		T3-B401S
Arm length	Joints #1+#2 (mm)	400
Payload ^{*1}	Rated (kg)	1
	Maximum (kg)	3
Repeatability	Joints #1+#2 (mm)	± 0.02
	Joint #3 (mm)	± 0.02
	Joint #4 (deg)	± 0.02
Standard cycle time ^{*2}	(sec)	0.52 ^{*2}
Max. motion range	Joint #1 (deg)	± 132
	Joint #2 (deg)	± 141
	Joint #3 (mm)	150
	Joint #3 (deg)	± 360
Max. operating speed	Joints #1-#2 (mm/s)	3700
	Joint #3 (mm/s)	1000
	Joint #4 (deg/s)	2600
Joint #4 allowable moment of inertia ^{*4}	Rated (kg·m ²)	0.003
	Max. (kg·m ²)	0.01
Joint #3 down force	(N)	83
Installation environment		Standard (IP20)
Mounting type		Table Top
Weight (cables not included)	(kg) or less	14 kg : 31 lb
Applicable Controller		Built-in controller
Installed wire for customer use		Hand I/O: IN6/OUT4 (D-sub 15pin), User I/O: IN18/OUT12
Installed pneumatic tube for customer use		ø6 mm x 2, ø4mm x 1 : 0.59 MPa (5kgf/cm ² : 86 psi)
Power / cable length		AC100-240V / 5m
Power Consumption ^{*5}	(kVA)	660VA
Safety standard		CE, KC

*1 : Do not apply the load exceeding the maximum payload
 *2 : Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 1 kg payload (path coordinates optimized for maximum speed).
 *3 : Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2 kg payload (path coordinates optimized for maximum speed).
 *4 : Set the parameters by the Inertia command according to the load and effector status (refer to the instruction manual for the parameter calculation method).
 *5 : It depends on operating environment and operation program.

[Unit: mm]



[Unit: mm]



T6-B

NEW

Cost-efficient automation solution that is versatile for handling multiple workpieces and heavier loads

- Built-in controller for simplified setup and reconfiguration
- High energy efficiency reduces factory operating costs
- Batteryless motor unit reduces running costs and factory downtime
- Ideal for easy automation of manual pick-and-place tasks with a payload of up to 6kg

Model Number

T6 - B 60 2 S

Payload

6

: 6kg

Arm length

60

: 600mm

Environment

S

: Standard

Joint #3 stroke

2

: 200mm



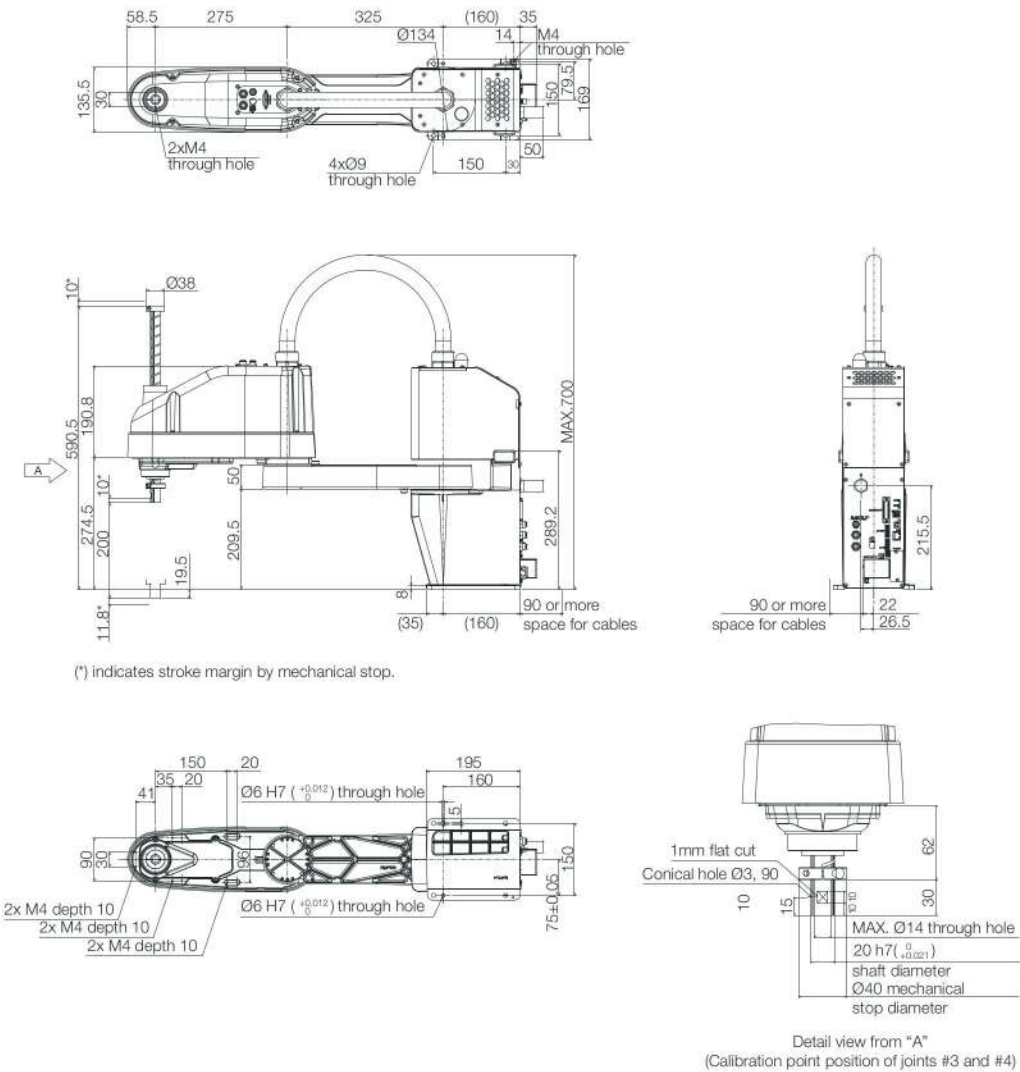
Specifications

Model Name		T6-B
Model Number		T6-B602S
Arm length	Joints #1+#2 (mm)	600
	Rated (kg)	2
Payload ^{*1}	Maximum (kg)	6
	Joints #1+#2 (mm)	± 0.04
Repeatability	Joint #3 (mm)	± 0.02
	Joint #4 (deg)	± 0.02
Standard cycle time ^{*2}	(sec)	0.46 ^{*3}
	Joint #1 (deg)	± 132
Max. motion range	Joint #2 (deg)	± 150
	Joint #3 (mm)	200
	Joint #3 (deg)	± 360
	Joints #1-#2 (mm/s)	4180
Max. operating speed	Joint #3 (mm/s)	1000
	Joint #4 (deg/s)	1800
	Rated (kg·m ²)	0.01
Joint #4 allowable moment of inertia ^{*4}	Max. (kg·m ²)	0.08
	(N)	83
Installation environment		Standard (IP20)
Mounting type		Table Top
Weight (cables not included)	(kg) or less	21 kg : 46 lb
Applicable Controller		Built-in controller
Installed wire for customer use		Hand I/O: IN6/OUT4 (D-sub 15pin), User I/O: IN18/OUT12
Installed pneumatic tube for customer use		ø6 mm x 2, ø4mm x 1 : 0.59 MPa (6kgf/cm 2 : 86 psi)
Power / cable length		AC100-240V / 5m
Power Consumption ^{*5}	(kVA)	1200VA
Safety standard		CE, KC

^{*1} : Do not apply the load exceeding the maximum payload
^{*2} : Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 1 kg payload (path coordinates optimized for maximum speed).
^{*3} : Cycle time based on round-trip arch motion (300mm horizontal, 25mm vertical) with 2 kg payload (path coordinates optimized for maximum speed).
^{*4} : Set the parameters by the Inertia command according to the load and effector status (refer to the instruction manual for the parameter calculation method).
^{*5} : It depends on operating environment and operation program.

Outer Dimensions (Table Top Mounting)

[Unit: mm]



Motion Range (Table Top Mounting)

[Unit: mm]

