

Industrial Automation Guide 2016



Industrial Products & Systems

Targeted Technologies

Creating maximum output with minimum input

By identifying the many ways of innovation in specific industries we developed the 'targeted technologies' concept. It's a way of thinking about technology in a prioritized format. Prioritized according to our customers' most pressing needs. The result? A set of solutions that make immediate impact on the core of our customers' businesses. A set of solutions that hit the target every time. Take a look at the examples on our website.

industrial.omron.eu/technologies



Welcome to our world

Our best-in-class devices for your automation system

Welcome to Omron's world of advanced industrial automation. The INDUSTRIAL AUTOMATION GUIDE is your essential tool to select best-in-class devices for your automation system. It highlights our core competences in sensing, control, visualisation, motion and panel components.

Of course, Omron offers a much larger range of products than you can find on the attached DVD. For more information on services and company competence visit our website.

Here you will find:

- Latest product news
- Technical product specifications
- 2D / 3D CAD Library
- Customer references
- Technology concepts
- Supporting product documentation
- Knowledge Base - "myOmron"
- Events Calendar
- Contact information

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Quick Links shortens your search. Quick Links are unique codes assigned to Omron products listed in this guide. Enter Quick Link codes in the search box on industrial.omron.eu to access detailed information on products in this guide.



Industrial Automation Guide 2016

	Omron at a glance	3
	The 361° Approach	4
	Sysmac: A fully integrated platform	6
	Product selection table	8
Automation systems	Machine automation controller	12
	Programmable logic controllers (PLC)	26
	Remote I/O	54
	Human machine interfaces (HMI)	68
	I/O cables and terminal blocks	82
	Ethernet cables and accessories	91
Motion & Drives	Motion controllers	96
	Servo systems	112
	Robots	170
	Frequency inverters	202
Sensing	Photoelectric sensors	236
	Mark and Color sensors	278
	Lightcurtains and area sensors	284
	Fiber optic sensors and amplifiers	292
	Inductive sensors	324
	Mechanical sensors/Limit switches	344
	Rotary encoders	358
	Cable connectors	366
Quality control & Inspection	Inspection & Ident systems	370
	Measurement sensors	426
Safety	Emergency stop and control devices	462
	Safety limit switches	472
	Safety door switches	480
	Safety sensors	506
	Safety logic control systems	544
	Safety outputs	566
Control components	Temperature controllers	574
	Power supplies	596
	Uninterruptible power supplies (UPS)	614
	Timers	622
	Counters	632
	Programmable relays	642
	Digital panel indicators	650
	Energy monitoring devices	660
	Photovoltaic	674
Switching components	Electromechanical relays	682
	Solid state relays	696
	Low voltage switchgear	706
	Monitoring products	722
	Pushbutton switches	750
Software	Software	766
	Outline of Major Standards	772
	Index	775

“To the machine the work of the machine,
to man the thrill of further creation.”

Kazuma Tateisi, founder of Omron

Omron at a glance

200.000 products ranging
input, logic and output

Sensing, Control Systems, Visualization, Drives, Robots, Safety,
Quality Control & Inspection, Control and Switching Components

7%

Investment in Research & Development

Innovation track
record of 80 years

Top 150 global patent assignee

1.200 employees dedicated to R&D

11.000 + issued and pending patents

37.000

Employees worldwide

210

Locations worldwide

22

Countries in EMEA

Working for the
benefit of society



Close to your needs

Technical training & seminars, technical support, Automation Technology Centers, online community (MyOmron), online catalogues and technical documentation, customer service & sales support, inter-operability labs (Tsunagi), safety services, repairs.

Your needs, our focus

Solutions perfectly matching your needs

We asked ourselves: 'What do you need in sensors and components?' Well, first you need reliability. Then a variety and choice of performance levels. You may also want advanced functionality, with special features defined by you – or you may want standardized solutions, with highly competitive prices.

Whatever it is, it can all add up to a wish list that is difficult to fulfil. Until now. That's because our new 361° Approach not only provides a complete all-round offer without gaps, it also puts you at the very centre of the product selection process. It's an approach that leads to a Perfect Match – one with the extra degree of confidence that comes from choosing Omron.

361° in one view



Quality



Line-up



Application



Customization



Global availability



Specs

	Quality	Line-up	Application	Customization	Global availability	Specs
PRO^{plus}	Premium	Tailored	Special	Yes	Yes	Application oriented
PRO	Premium	Complete	Advanced	Yes	Yes	Above Standard
LITE	Premium	Standard	Basic	No	No	Basic
	'Quality' refers to the standard of manufacturing and the materials used – this translates into reliability	'Line-up' refers to the number of model types	'Application' indicates the complexity of the automation	'Customization' is the possibility to modify the product		'Specs' refers to the choice of performance levels

The extra degree of advantage

Three distinct lines of sensors and components

Three distinct lines

361° Approach offers three distinct lines within each sensor or component product category. LITE products are cost-effective without any compromise in quality. PRO products represent the “install & forget” option, offering longer lifetime, higher protection, and more features. While PROplus products are designed for specific applications or customer demands.

Optimized reliability

All three lines are backed by the Omron commitment to quality, so even when you need a price-competitive advantage, you can be confident that they will never let you down.

Solutions that perfectly match your needs

The 361° Approach ensures that you can quickly and easily identify the perfect match solution to your needs – nothing more, nothing less.

Optimized costs

Your sensor and component costs are also minimized – because it eliminates over-specification.

Why an extra 1°?

The extra degree is what you get when you do business with Omron, and that means different things to different customers – all depending on their needs. For example, if you need specification advice, the extra degree is ‘service’. But ultimately, to everyone it means “an extra degree of confidence in the perfect match”.



Sysmac: A fully integrated platform

Integration and Functionality

Sysmac is an integrated automation platform dedicated to providing complete control and management of your automation plant. At the core of this platform, the Machine Controller series offers synchronous control of all machine devices and advanced functionality such as motion, robotics and database connectivity. This multidisciplinary concept allows you to simplify solution architecture, reduce programming and optimize productivity.



Machine Automation Controller

FACTORY
AUTOMATION

MACHINE
CONTROL



Motion



Filling line

- Motion Control: Integrated within the IDE, and operating in real-time
- Standard PLCopen Function Blocks plus Omron generated motion FB's
- Direct Synchronous control for Position, Speed and Torque



Safety



Assembly

- All safety related data is synchronized with the whole network
- Safety functions such as muting, guard locking, EDM and valve monitoring are simple to manage

- ✓ **One Integrated Development Environment software** for Configuration, Programming, Simulation and Monitoring



Information



- Sysmac communicates in real-time with Databases such as SQL
- Secure Data: In the event of a server going down or losing communications, data is automatically stored in internal memory
- Sysmac operates with Databases at high speed [1000 table element/ 100 ms] ensuring realistic Big Data Processing to improve productivity and aid predictive maintenance etc.

✓ Integrated Automation Control:

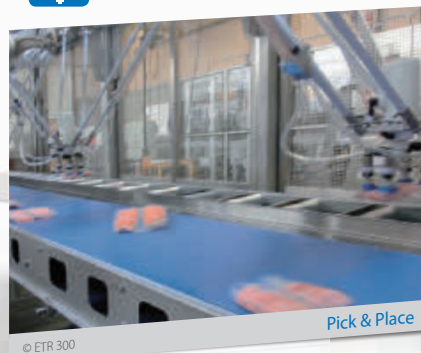
The Sysmac platform is scalable and provides the performance and functionality for a wide range of solutions from simple machines through to manufacturing cells

Vision



- Higher resolution images available without increasing the vision processing time
- Shape search technology: Provides more stable and accurate object detection for Pick & Place projects

Robotics



- Up to 8 Delta robots with one controller
- Time-based Robotic Function Blocks make programming easier

Sensing



- Full control of the process parameter setting and predictive maintenance functions
- High precision detection and positioning data synchronized on the network

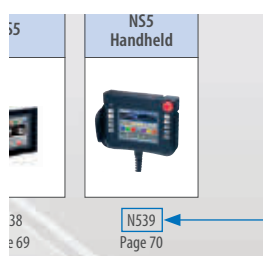
Product selection table

Automation systems				
	12 Machine automation controller	26 Programmable logic controllers (PLC)	54 Remote I/O	68 Human machine interfaces (HMI)
				
	96 Motion controllers	112 Servo systems	170 Robots	202 Frequency inverters
Sensing				
	236 Photoelectric sensors	278 Mark and Color sensors	284 Lightcurtains and area sensors	292 Fiber optic sensors and amplifiers
				
	370 Inspection & Ident systems	426 Measurement sensors		
Safety				
	462 Emergency stop and control devices	472 Safety limit switches	480 Safety door switches	506 Safety sensors
				
	574 Temperature controllers	596 Power supplies	614 Uninterruptible power supplies (UPS)	622 Timers
Switching components				
	682 Electromechanical relays	696 Solid state relays	706 Low voltage switchgear	722 Monitoring products
				
	766 Software			
Software				

Motion & Drives

Find information fast!

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Quick Link

Motion & Drives

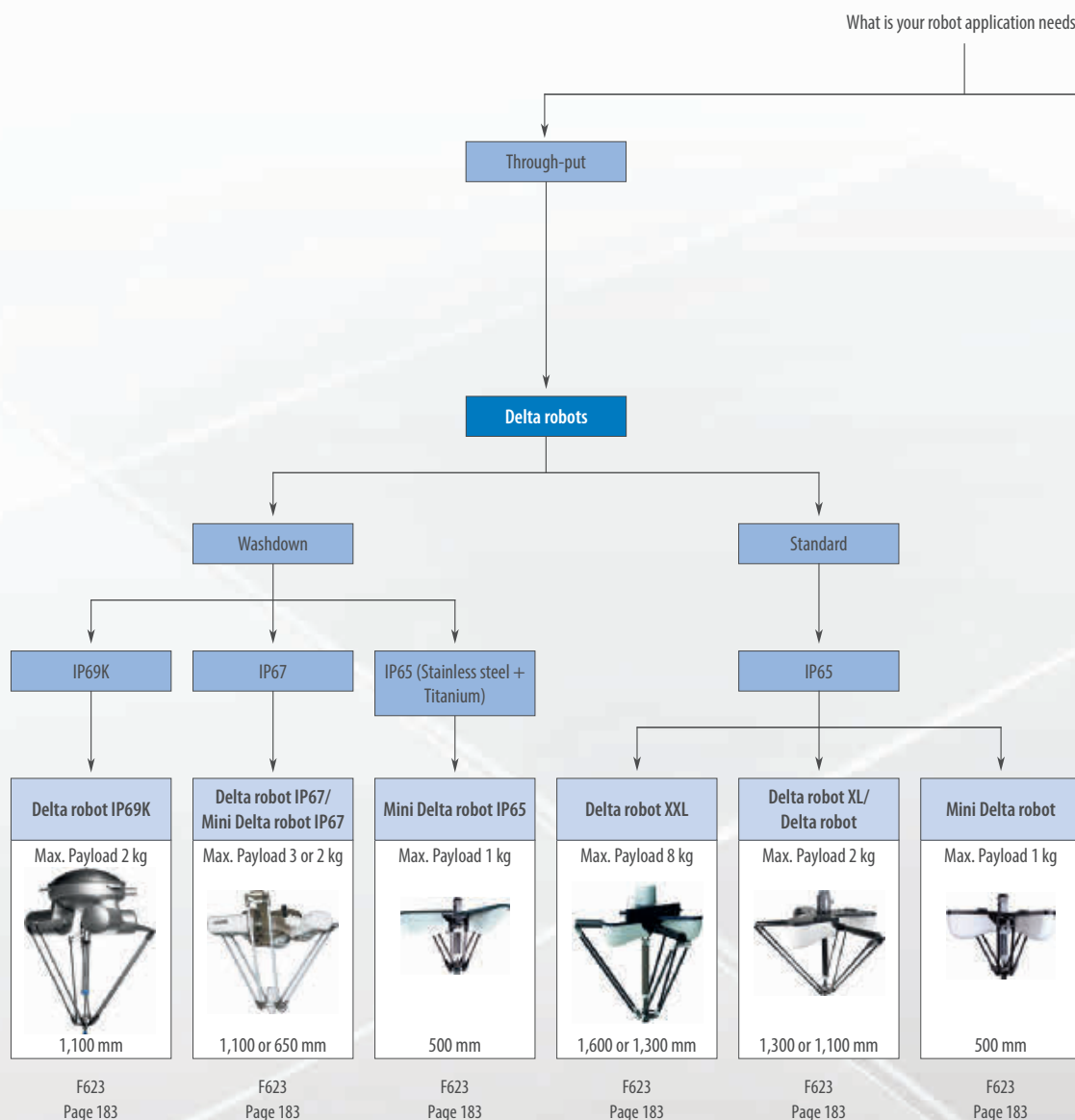
Motion controllers	96
Selection table	99
Machine controller	
NJ series	16
Control via EtherCAT	
Trajexia stand-alone	100
CJ1W-NC_8	103
Control via interface	
Trajexia 2.5 axes motion controller	105
Control via MECHATROLINK-II	
Trajexia stand-alone	100
Trajexia-PLC CJ1W-MC472/MCH72	107
CJ1W-NC_71	109
Control via pulses	
CJ1W-NC_3	110
CJ1W-NC_4	111
Servo systems	112
Selection table	114
Servo drives	
Accurax G5	117
Accurax G5 linear drive	125
G-Series	128
SmartStep 2	132
Rotary servo motors	
Accurax G5	137
G-Series	149
Linear motor	
Accurax linear motor	157
Integrated motor	
Integrated servo motor	166
Robots	170
Selection table	172
Robots	
Accurax linear motor axis	174
Delta robots	183
SCARA robots	196
Frequency inverters	202
Selection table	205
Frequency inverters	
RX	206
MX2	212
MX2 IP54	212
JX	218
SX (400 V)	222
SX (690 V)	226
SX AFE (Active front end)	229
LX	202

PICK & PLACE SOLUTIONS



Delta robots

The new solutions centred on Delta robots allow you to build very high through-put machines that can handle more than one hundred picking operations per minute.



SCARA robots

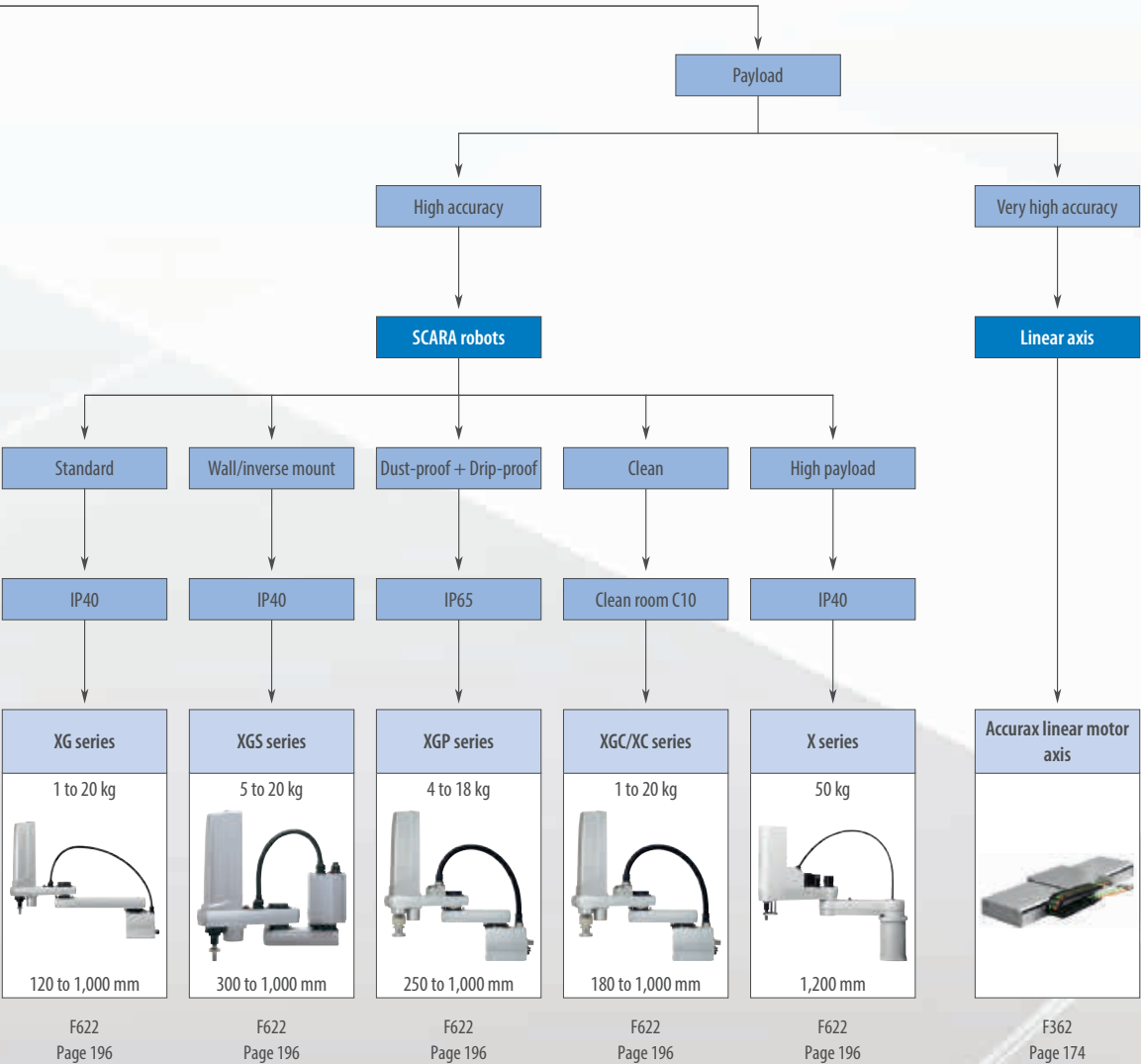
With more than 70 robot models, the SCARA based solutions are excellent when you face heavy part handling in combination with high speed cycles.



Robots

Linear axis

If precise positioning is requested then the Linear motor family provides repeatability down to the micrometer level which is achievable even while the machine performs high dynamic tasks.








Selection table


Delta robots				
				
Model	Delta robot IP69K	Delta robot IP67	Mini Delta robot IP67	Mini Delta robot IP65
Type	Washdown Delta robot series			
Max. Payload	2 kg	3 kg	2 kg	1 kg
Degrees of freedom	3 + 1 (rotation optional)			
Rated working range	Ø 1,100 × 250 mm (Max. 400)	Ø 1,100 × 300 mm (Max. 450)	Ø 650 × 150 mm (Max. 250)	Ø 500 × 155 mm/ Ø 500 × 130 mm (with rotational axis)
Cycle time	25/305/25 mm (0.1 kg): Up to 150 cycle/min		25/305/25 mm (0.1 kg): Up to 200 cycle/min	
Position repeatability	±0.2 mm (X, Y, Z)		±0.1 mm (X, Y, Z)	±0.2 mm (X, Y, Z)
Angular repeatability	±0.3° (q)		±0.1° (q)	
Protection class	IP69K	IP67	IP65 (Stainless steel + Titanium)	
Rotational axis type	Shaft mounting	Tool Center Point mounting - Low or High inertia -		Shaft mounting
Option	–	Anti-collision detection	–	
Machine controller	NJ5 Robotics			
Servo drive	Accurax G5 rotary servo drive - EtherCAT			
Page/Quick Link	183/F623			

Delta robots					
Model	Delta robot XXL (1,600)	Delta robot XXL (1,300)	Delta robot XL	Delta robot	Mini Delta robot
Type	Delta robot series				
Max. Payload	8 kg		2 kg		1 kg
Degrees of freedom	3 + 1 (rotation optional)				
Rated working range	Ø 1,600 × 350 mm (Max. 550)	Ø 1,300 × 300 mm (Max. 450)	Ø 1,300 x 250 mm (Max. 400)	Ø 1,100 x 250 mm (Max. 400)	Ø 500 × 155 mm/ Ø 500 × 130 mm (with rotational axis)
Cycle time	25/300/25 mm (8 kg): Up to 60 cycle/min 200/1000/200 mm (8 kg): Up to 35 cycle/min	25/300/25 mm (8 kg): Up to 65 cycle/min 200/1000/200 mm (8 kg): Up to 40 cycle/min	25/305/25 mm (0.1 kg): Up to 120 cycle/min	25/305/25 mm (0.1 kg): Up to 150 cycle/min	25/305/25 mm (0.1 kg): Up to 200 cycle/min
Position repeatability	±1 mm (X, Y, Z)		±0.2 mm (X, Y, Z)	±0.3 mm (X, Y, Z)	±0.2 mm (X, Y, Z)
Angular repeatability	±0.3° (q)			±0.4° (q)	±0.3° (q)
Protection class	IP65				
Rotational axis type	Shaft mounting				
Machine controller	NJ5 Robotics				
Servo drive	Accurax G5 rotary servo drive - EtherCAT				
Page/Quick Link	183/F623				

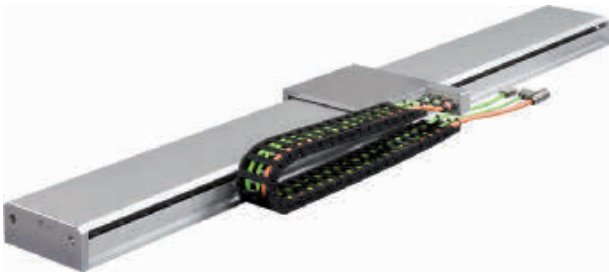
SCARA robots

					
Model	XG series	XGS series	XGP series	XGC/XC series	X series
Type	SCARA robot series				
Typical environment	Normal conditions		Food	Pharmaceutical	Normal conditions
Max. Payload range	1 to 20 kg	5 to 20 kg	4 to 18 kg	4 kg (XGC series) 1 to 20 kg (XC series)	50 kg
Reach range	120 to 1,000 mm	300 to 1,000 mm	250 to 1,000 mm	250 to 600 mm (XGC series) 180 to 1,000 mm (XC series)	1,200 mm
Protection class	IP40		IP65	Clean room C10	IP40
Mounting options	Standard	Wall/inverse mount	Standard		
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Accurax linear motor axis

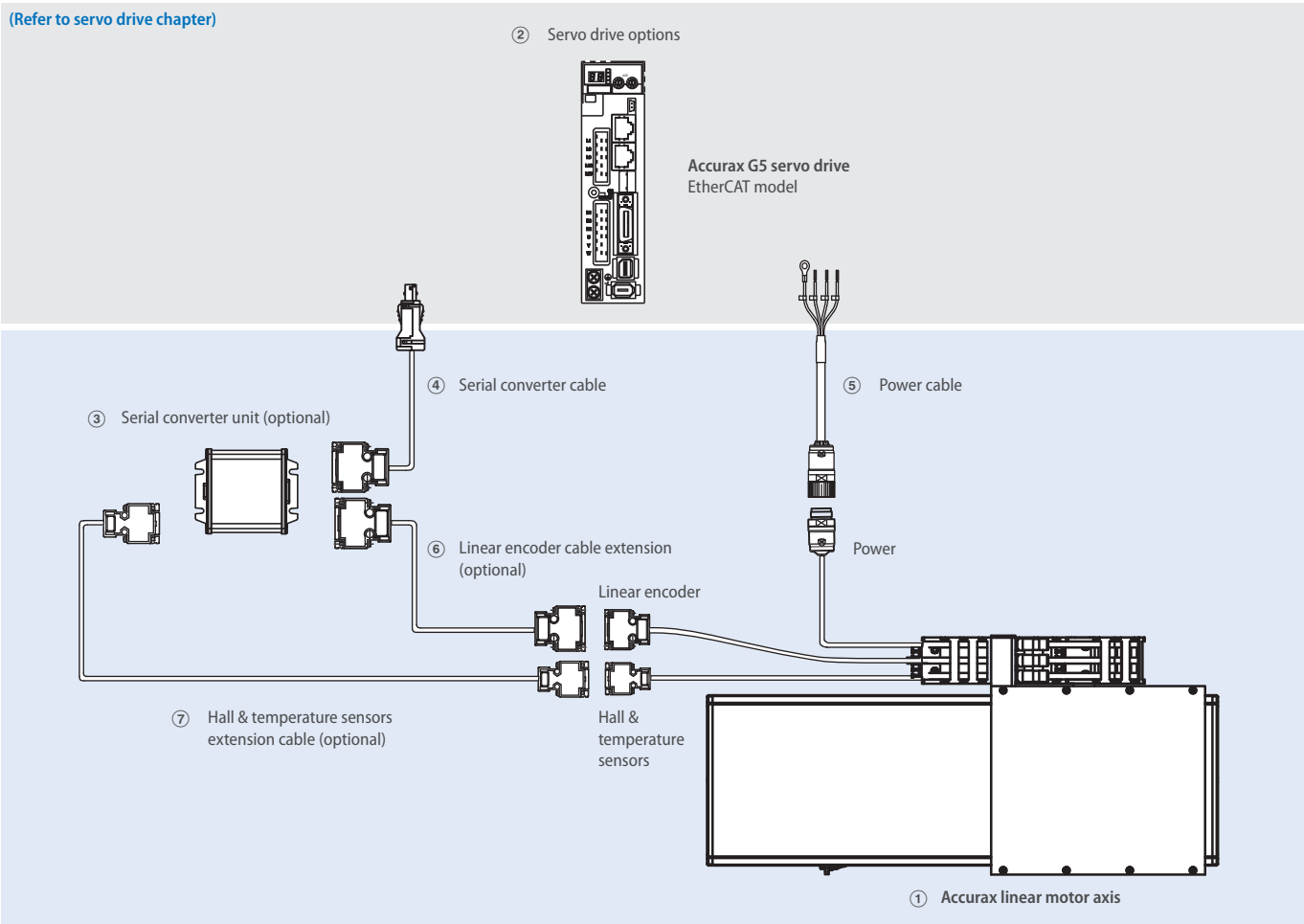
	
Model	Accurax linear motor axis
Type	Linear motor axis
Continuous force range	48 to 760 N
Peak force range	105 to 2,000 N
Maximum speed	5 m/s
Magnetic attraction force	300 to 4,440 N
Applicable servo drive	Accurax G5 linear drive
Page/Quick Link	174/F362

Advanced linear motor axis



- High-efficiency iron-core linear motors and magnet tracks in a wide range of over 100 standard linear motor axis.
- Low moving mass to ensure a high degree of dynamism
 - Optimized stroke/product length ratio
 - Up to 5 m/s maximum speed with 1 µm repeatability
 - Compact and efficiency oriented design
 - Highly versatile and ready-to-use
 - Ratings: 230/400 VAC, 48 to 760 N (2000 N peak force)

Ordering information



Note: The symbols ①②③... show the recommended sequence to select the servomotor, cables and serial converter for a linear motors system.

Linear motor axis

230 VAC single phase/400 VAC three phase


Symbol	Specifications		② Linear servo drive		Order code*1
			Accurax G5 EtherCAT		
	Rated force	Peak force	230 V	400 V	
①	48 N	120 N	R88D-KN02H-ECT-L	R88D-KN10F-ECT-L	R88L-EA-AF-0303-__
	96 N	240 N	R88D-KN04H-ECT-L	R88D-KN10F-ECT-L	R88L-EA-AF-0306-__
	160 N	450 N	R88D-KN08H-ECT-L	R88D-KN15F-ECT-L	R88L-EA-AF-0606-__
	240 N	675 N	R88D-KN10H-ECT-L	R88D-KN20F-ECT-L	R88L-EA-AF-0609-__
	320 N	900 N	R88D-KN15H-ECT-L	R88D-KN30F-ECT-L	R88L-EA-AF-0612-__
	608 N	1800 N	R88D-KN15H-ECT-L	R88D-KN30F-ECT-L	R88L-EA-AF-1112-__
	760 N	2250 N	R88D-KN15H-ECT-L	R88D-KN30F-ECT-L	R88L-EA-AF-1115-__

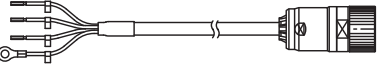
*1 For effective stroke distances available see dimensions section


② Refer to Accurax G5 servo drive chapter for detailed drive specifications and selection of drive accessories.


Symbol	Specifications	Order code
③	Serial converter unit from 1 Vpp to G5 serial data transmission (with KTY sensor detection of iron-core motor coil)	R88A-SC01K-E
	Serial converter unit from 1 Vpp to G5 serial data transmission (with NTC sensor detection of ironless motor coil)	R88A-SC02K-E

Note: If no temperature sensor is needed, then it does not matter which converter you use.

Symbol	Appearance	Specifications	Order code
④		Accurax G5 drive to serial converter cable. (Connectors R88A-CNK41L and DB-15)	1.5 m R88A-CRKN001-5CR-E
			3 m R88A-CRKN003CR-E
			5 m R88A-CRKN005CR-E
			10 m R88A-CRKN010CR-E
			15 m R88A-CRKN015CR-E
			20 m R88A-CRKN020CR-E

Symbol	Appearance	Specifications	Order code
⑤		For linear motor axis R88L-EA-AF-0303-__ R88L-EA-AF-0306-__	1.5 m R88A-CAWK001-5S-DE
			3 m R88A-CAWK003S-DE
			5 m R88A-CAWK005S-DE
			10 m R88A-CAWK010S-DE
			15 m R88A-CAWK015S-DE
			20 m R88A-CAWK020S-DE
		For linear motor axis R88L-EA-AF-0606-__ R88L-EA-AF-0609-__ R88L-EA-AF-0612-__ R88L-EA-AF-1112-__ R88L-EA-AF-1115-__	1.5 m R88A-CAWL001-5S-DE
			3 m R88A-CAWL003S-DE
			5 m R88A-CAWL005S-DE
			10 m R88A-CAWL010S-DE
			15 m R88A-CAWL015S-DE
			20 m R88A-CAWL020S-DE

Symbol	Appearance	Specifications	Order code	
⑥		Extension cable from linear encoder to serial converter. (Connector DB-15) (This extension cable is optional)	1.5 m	R88A-CFKA001-SCR-E
			3 m	R88A-CFKA003CR-E
			5 m	R88A-CFKA005CR-E
			10 m	R88A-CFKA010CR-E
			15 m	R88A-CFKA015CR-E

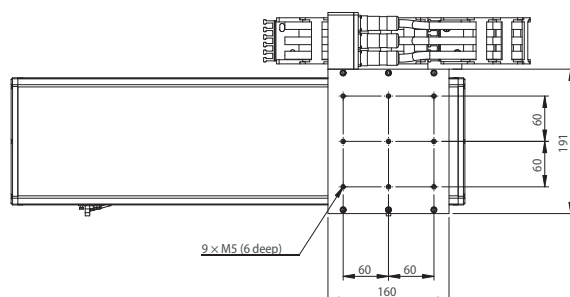
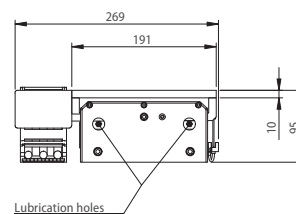
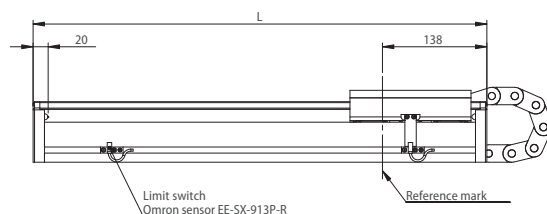
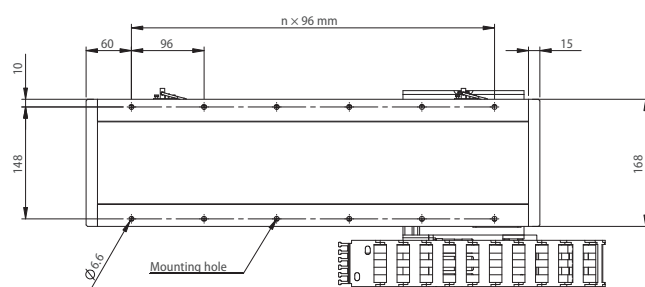
Symbol	Appearance	Specifications	Order code										
⑦		Extension cable from hall and temperature sensors to serial converter. (Connector DB-9) (This extension cable is optional)	<table><tr><td>1.5 m</td><td>R88A-CFKB001-5CR-E</td></tr><tr><td>3 m</td><td>R88A-CFKB003CR-E</td></tr><tr><td>5 m</td><td>R88A-CFKB005CR-E</td></tr><tr><td>10 m</td><td>R88A-CFKB010CR-E</td></tr><tr><td>15 m</td><td>R88A-CFKB015CR-E</td></tr></table>	1.5 m	R88A-CFKB001-5CR-E	3 m	R88A-CFKB003CR-E	5 m	R88A-CFKB005CR-E	10 m	R88A-CFKB010CR-E	15 m	R88A-CFKB015CR-E
1.5 m	R88A-CFKB001-5CR-E												
3 m	R88A-CFKB003CR-E												
5 m	R88A-CFKB005CR-E												
10 m	R88A-CFKB010CR-E												
15 m	R88A-CFKB015CR-E												

Specification	Order code
Accurax G5 servo drive encoder connector (for CN4)	R88A-CN41L
Hypertac power cable connector IP67	LPRA-06B-FRBN170

Dimensions

R88L-EA-AF-0303-_ (230/400 VAC)

Linear axis model	Effective stroke in mm	L in mm	n	N° of mounting holes	Weight of moving table including motor coil (kg)	Weight of the complete axis (kg)
R88L-EA-AF-0303-0110	110	312	2	6	3.1	9.5
R88L-EA-AF-0303-0206	206	408	3	8	3.1	10.9
R88L-EA-AF-0303-0302	302	504	4	10	3.1	12.4
R88L-EA-AF-0303-0398	398	600	5	12	3.1	13.8
R88L-EA-AF-0303-0494	494	696	6	14	3.1	15.2
R88L-EA-AF-0303-0590	590	792	7	16	3.1	16.7
R88L-EA-AF-0303-0686	686	888	8	18	3.1	18.1
R88L-EA-AF-0303-0782	782	984	9	20	3.1	19.6
R88L-EA-AF-0303-0878	878	1080	10	22	3.1	21.0
R88L-EA-AF-0303-0974	974	1176	11	24	3.1	22.5
R88L-EA-AF-0303-1070	1070	1272	12	26	3.1	23.9
R88L-EA-AF-0303-1166	1166	1368	13	28	3.1	25.4
R88L-EA-AF-0303-1262	1262	1464	14	30	3.1	26.8
R88L-EA-AF-0303-1358	1358	1560	15	32	3.1	28.2
R88L-EA-AF-0303-1454	1454	1656	16	34	3.1	29.7
R88L-EA-AF-0303-1550	1550	1752	17	36	3.1	31.1
R88L-EA-AF-0303-1646	1646	1848	18	38	3.1	32.6
R88L-EA-AF-0303-1742	1742	1944	19	40	3.1	34.0
R88L-EA-AF-0303-1838	1838	2040	20	42	3.1	35.5
R88L-EA-AF-0303-1934	1934	2136	21	44	3.1	36.9
R88L-EA-AF-0303-2030	2030	2232	22	46	3.1	38.3
R88L-EA-AF-0303-2126	2126	2328	23	48	3.1	39.8



Units: mm

Hall sensor & temperature cable

Cable length 500 mm approx.
Connector D-Sub 9 pins (male)



Pin No.	Name
1	SV
2	Hall U
3	Hall V
4	Hall W
5	GND
6	PTC
7	PTC
8	KTY
9	KTY
Case	Shield

Encoder cable

Cable length 500 mm approx.
Connector D-Sub 15 pins (male)



Pin No.	Signal
1	SDA*
2	SCL*
3	Not used
4	/Ref signal (U _z -)
5	/Cos signal (U _z -)
6	/Sin signal (U _z -)
7	Not used
8	5 V
9	0 V
10	Not used
11	Not used
12	Ref signal (U _o)
13	Cos signal (U _z)
14	Sin signal (U _z)
15	Inner shield (IS)
Case	Shield

*Reserved. Please do not use

Power cable

Cable length 500 mm approx.
Connector Hypertac
LRA06AMRPN182 (male)
Pin article code: 021.279.1020

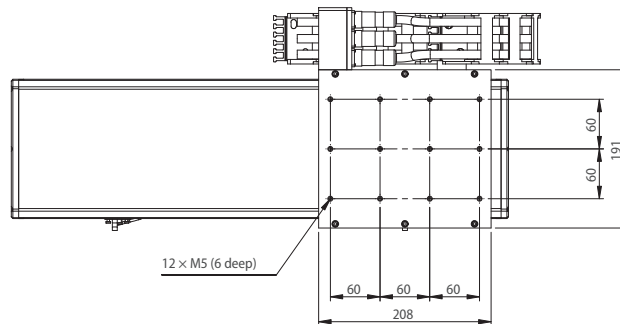
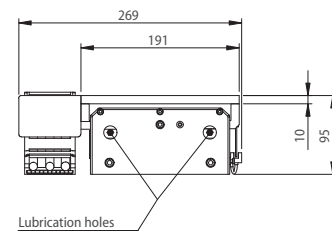
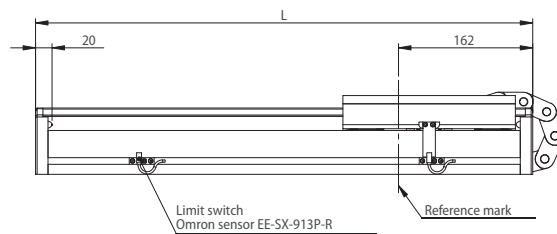
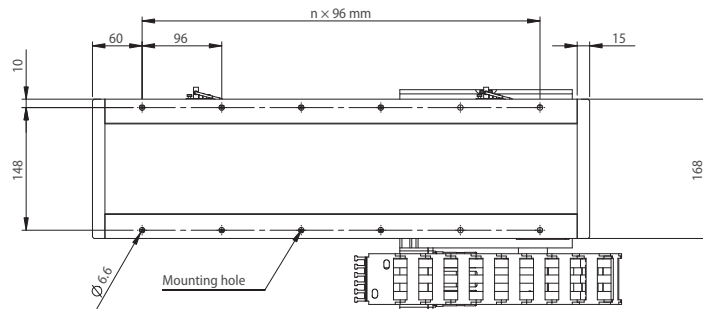


Mating connector:
Plug type: LFR06BFRBN170

Pin No.	Name
1	Phase U
2	Phase V
3	Ground
4	Phase W
5	Not used
6	Not used

R88L-EA-AF-0306_ (230/400 VAC)

Linear axis model	Effective stroke in mm	L in mm	n	Nº of mounting holes	Weight of moving table including motor coil (kg)	Weight of the complete axis (kg)
R88L-EA-AF-0306-0158	158	408	3	8	3.9	11.6
R88L-EA-AF-0306-0254	254	504	4	10	3.9	13.1
R88L-EA-AF-0306-0350	350	600	5	12	3.9	14.5
R88L-EA-AF-0306-0446	446	696	6	14	3.9	15.9
R88L-EA-AF-0306-0542	542	792	7	16	3.9	17.4
R88L-EA-AF-0306-0638	638	888	8	18	3.9	18.8
R88L-EA-AF-0306-0734	734	984	9	20	3.9	20.3
R88L-EA-AF-0306-0830	830	1080	10	22	3.9	21.7
R88L-EA-AF-0306-0926	926	1176	11	24	3.9	23.2
R88L-EA-AF-0306-1022	1022	1272	12	26	3.9	24.6
R88L-EA-AF-0306-1118	1118	1368	13	28	3.9	26.1
R88L-EA-AF-0306-1214	1214	1464	14	30	3.9	27.5
R88L-EA-AF-0306-1310	1310	1560	15	32	3.9	28.9
R88L-EA-AF-0306-1406	1406	1656	16	34	3.9	30.4
R88L-EA-AF-0306-1502	1502	1752	17	36	3.9	31.8
R88L-EA-AF-0306-1598	1598	1848	18	38	3.9	33.3
R88L-EA-AF-0306-1694	1694	1944	19	40	3.9	34.7
R88L-EA-AF-0306-1790	1790	2040	20	42	3.9	36.2
R88L-EA-AF-0306-1886	1886	2136	21	44	3.9	37.6
R88L-EA-AF-0306-1982	1982	2232	22	46	3.9	39.0
R88L-EA-AF-0306-2078	2078	2328	23	48	3.9	40.5



Hall sensor & temperature cable

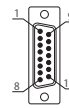
Cable length 500 mm approx.
Connector D-Sub 9 pins (male)



Pin No.	Name
1	5 V
2	Hall U
3	Hall V
4	Hall W
5	GND
6	PTC
7	PTC
8	KTY
9	KTY
Case	Shield

Encoder cable

Cable length 500 mm approx.
Connector D-Sub 15 pins (male)



Pin No.	Signal
1	SDA*
2	SCL*
3	Not used
4	/Ref signal (Uo-)
5	/Cos signal (Uz-)
6	/Sin signal (Ui-)
7	Not used
8	5 V
9	0 V
10	Not used
11	Not used
12	Ref signal (Uo)
13	Cos signal (Uz)
14	Sin signal (Ui)
15	Inner shield (IS)
Case	Shield

*Reserved. Please do not use

Power cable

Cable length 500 mm approx.
Connector Hypertac
LRRA06AMRPN182 (male)
Pin article code: 021.279.1020



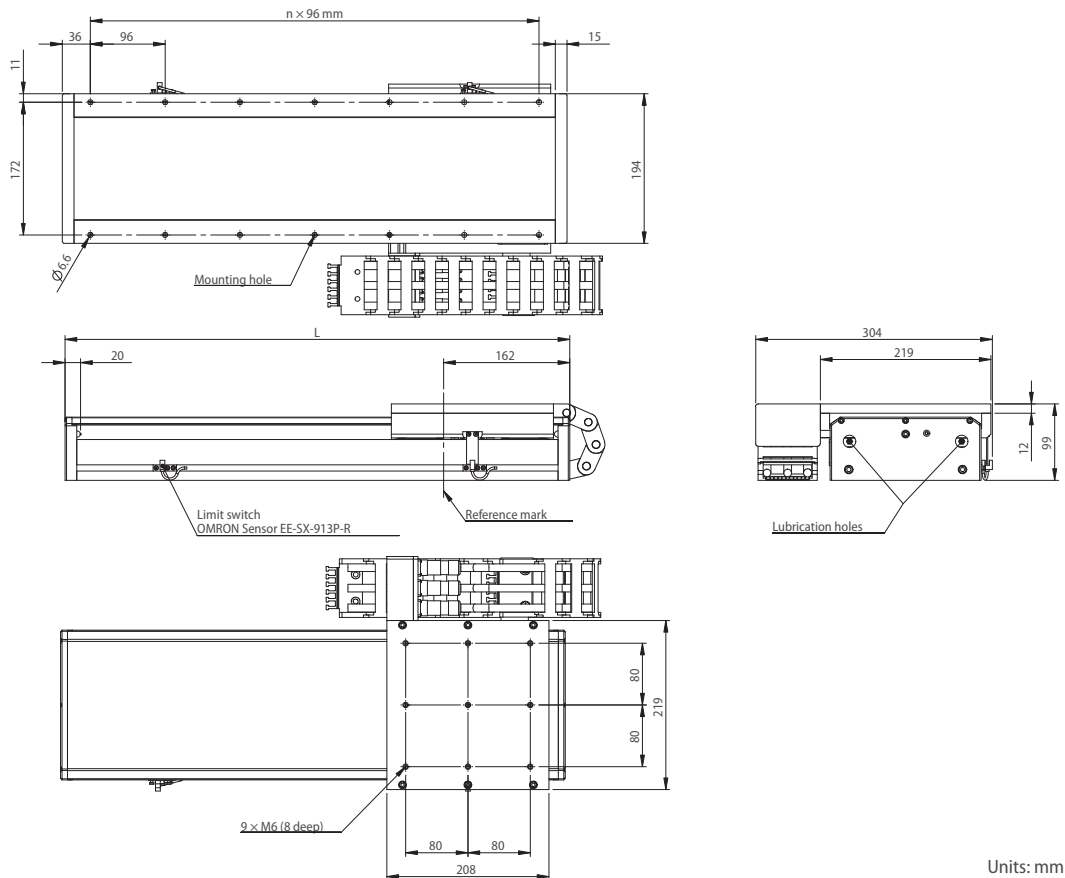
Mating connector:
Plug type: LPRA06BFRBN170

Pin No.	Name
1	Phase U
2	Phase V
3	Ground
4	Phase W
5	Not used
6	Not used

Units: mm

R88L-EA-AF-0606-_ (230/400 VAC)

Linear axis model	Effective stroke in mm	L in mm	n	Nº of mounting holes	Weight of moving table including motor coil (kg)	Weight of the complete axis (kg)
R88L-EA-AF-0606-0110	110	360	3	8	5.4	14.1
R88L-EA-AF-0606-0206	206	456	4	10	5.4	15.9
R88L-EA-AF-0606-0302	302	552	5	12	5.4	17.6
R88L-EA-AF-0606-0398	398	648	6	14	5.4	19.3
R88L-EA-AF-0606-0494	494	744	7	16	5.4	21.0
R88L-EA-AF-0606-0590	590	840	8	18	5.4	22.8
R88L-EA-AF-0606-0686	686	936	9	20	5.4	24.5
R88L-EA-AF-0606-0782	782	1032	10	22	5.4	26.2
R88L-EA-AF-0606-0878	878	1128	11	24	5.4	28.0
R88L-EA-AF-0606-0974	974	1224	12	26	5.4	29.7
R88L-EA-AF-0606-1070	1070	1320	13	28	5.4	31.4
R88L-EA-AF-0606-1166	1166	1416	14	30	5.4	33.2
R88L-EA-AF-0606-1262	1262	1512	15	32	5.4	34.9
R88L-EA-AF-0606-1358	1358	1608	16	34	5.4	36.6
R88L-EA-AF-0606-1454	1454	1704	17	36	5.4	38.4
R88L-EA-AF-0606-1550	1550	1800	18	38	5.4	40.1
R88L-EA-AF-0606-1646	1646	1896	19	40	5.4	41.8
R88L-EA-AF-0606-1742	1742	1992	20	42	5.4	43.6
R88L-EA-AF-0606-1838	1838	2088	21	44	5.4	45.3
R88L-EA-AF-0606-1934	1934	2184	22	46	5.4	47.0
R88L-EA-AF-0606-2030	2030	2280	23	48	5.4	48.8
R88L-EA-AF-0606-2126	2126	2376	24	50	5.4	50.5



Units: mm

Hall sensor & temperature cable

Cable length 500 mm approx.
Connector D-Sub 9 pins (male)



Pin No.	Name
1	SV
2	Hall U
3	Hall V
4	Hall W
5	GND
6	PTC
7	PTC
8	KTY
9	KTY
Case	Shield

Encoder cable

Cable length 500 mm approx.
Connector D-Sub 15 pins (male)



Pin No.	Signal
1	SDA*
2	SCL*
3	Not used
4	/Ref signal (Us-)
5	/Cos signal (Us-)
6	/Sin signal (Ui-)
7	Not used
8	SV
9	0V
10	Not used
11	Not used
12	Ref signal (Us)
13	Cos signal (Us)
14	Sin signal (Ui)
15	Inner shield (IS)
Case	Shield

*Reserved. Please do not use

Power cable

Cable length 500 mm approx.
Connector Hypertac
LRRA06AMRPN182 (male)
Pin article code: 021.279.1020

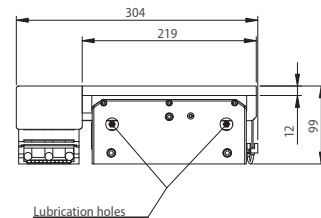
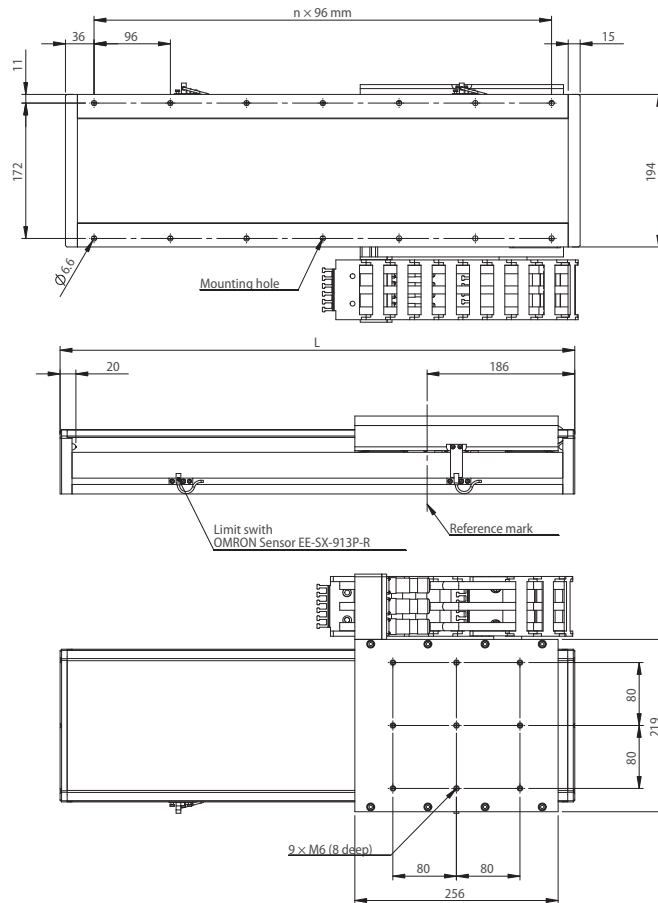


Mating connector:
Plug type: LPRA06BFRBN170

Pin No.	Name
1	Phase U
2	Phase V
3	Ground
4	Phase W
5	Not used
6	Not used

R88L-EA-AF-0609- (230/400 VAC)

Linear axis model	Effective stroke in mm	L in mm	n	N° of mounting holes	Weight of moving table including motor coil (kg)	Weight of the complete axis (kg)
R88L-EA-AF-0609-0158	158	456	4	10	6.7	17.2
R88L-EA-AF-0609-0254	254	552	5	12	6.7	18.9
R88L-EA-AF-0609-0350	350	648	6	14	6.7	20.6
R88L-EA-AF-0609-0446	446	744	7	16	6.7	22.3
R88L-EA-AF-0609-0542	542	840	8	18	6.7	24.1
R88L-EA-AF-0609-0638	638	936	9	20	6.7	25.8
R88L-EA-AF-0609-0734	734	1032	10	22	6.7	27.5
R88L-EA-AF-0609-0830	830	1128	11	24	6.7	29.3
R88L-EA-AF-0609-0926	926	1224	12	26	6.7	31.0
R88L-EA-AF-0609-1022	1022	1320	13	28	6.7	32.7
R88L-EA-AF-0609-1118	1118	1416	14	30	6.7	34.5
R88L-EA-AF-0609-1214	1214	1512	15	32	6.7	36.2
R88L-EA-AF-0609-1310	1310	1608	16	34	6.7	37.9
R88L-EA-AF-0609-1406	1406	1704	17	36	6.7	39.7
R88L-EA-AF-0609-1502	1502	1800	18	38	6.7	41.4
R88L-EA-AF-0609-1598	1598	1896	19	40	6.7	43.1
R88L-EA-AF-0609-1694	1694	1992	20	42	6.7	44.9
R88L-EA-AF-0609-1790	1790	2088	21	44	6.7	46.6
R88L-EA-AF-0609-1886	1886	2184	22	46	6.7	48.3
R88L-EA-AF-0609-1982	1982	2280	23	48	6.7	50.1
R88L-EA-AF-0609-2078	2078	2376	24	50	6.7	51.8



Units: mm

Hall sensor & temperature cable

Cable length 500 mm approx.
Connector D-Sub 9 pins (male)



Pin No.	Name
1	5V
2	Hall U
3	Hall V
4	Hall W
5	GND
6	PTC
7	PTC
8	KTY
9	KTY
Case	Shield

Encoder cable

Cable length 500 mm approx.
Connector D-Sub 15 pins (male)



Pin No.	Signal
1	SDA*
2	SCL*
3	Not used
4	/Ref signal (U ₀ -)
5	/Cos signal (U ₁ -)
6	/Sin signal (U ₁ -)
7	Not used
8	5V
9	0V
10	Not used
11	Not used
12	Ref signal (U ₀)
13	Cos signal (U ₂)
14	Sin signal (U ₁)
15	Inner shield (IS)
Case	Shield

*Reserved. Please do not use

Power cable

Cable length 500 mm approx.
Connector Hypertac
LRRA06AMRPW182 (male)
Pin article code: 021.279.1020

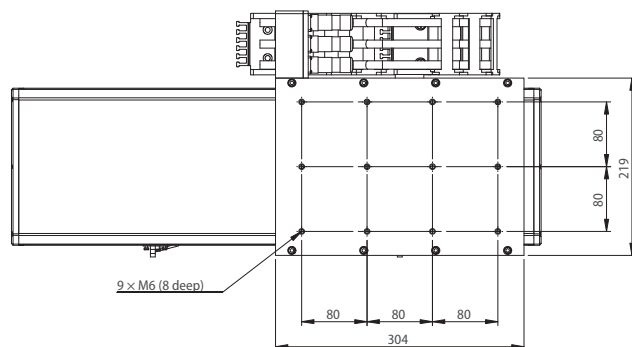
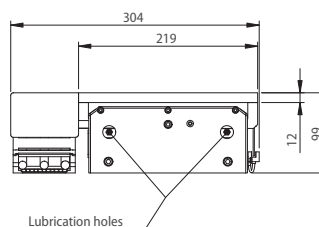
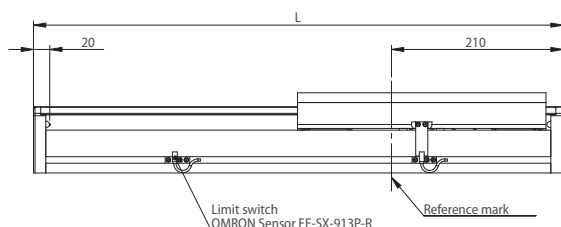
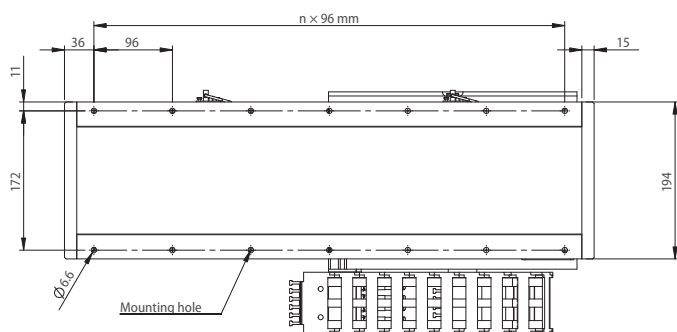


Mating connector:
Plug type: LPRA06BFRBN170

Pin No.	Name
1	Phase U
2	Phase V
3	Ground
4	Phase W
5	Not used
6	Not used

R88L-EA-AF-06012-_ (230/400 VAC)

Linear axis model	Effective stroke in mm	L in mm	n	N° of mounting holes	Weight of moving table including motor coil (kg)	Weight of the complete axis (kg)
R88L-EA-AF-0612-0110	110	456	4	10	7.9	18.3
R88L-EA-AF-0612-0206	206	552	5	12	7.9	20.0
R88L-EA-AF-0612-0302	302	648	6	14	7.9	21.7
R88L-EA-AF-0612-0398	398	744	7	16	7.9	23.4
R88L-EA-AF-0612-0494	494	840	8	18	7.9	25.2
R88L-EA-AF-0612-0590	590	936	9	20	7.9	26.9
R88L-EA-AF-0612-0686	686	1032	10	22	7.9	28.6
R88L-EA-AF-0612-0782	782	1128	11	24	7.9	30.4
R88L-EA-AF-0612-0878	878	1224	12	26	7.9	32.1
R88L-EA-AF-0612-0974	974	1320	13	28	7.9	33.8
R88L-EA-AF-0612-1070	1070	1416	14	30	7.9	35.6
R88L-EA-AF-0612-1166	1166	1512	15	32	7.9	37.3
R88L-EA-AF-0612-1262	1262	1608	16	34	7.9	39.0
R88L-EA-AF-0612-1358	1358	1704	17	36	7.9	40.8
R88L-EA-AF-0612-1454	1454	1800	18	38	7.9	42.5
R88L-EA-AF-0612-1550	1550	1896	19	40	7.9	44.2
R88L-EA-AF-0612-1646	1646	1992	20	42	7.9	46.0
R88L-EA-AF-0612-1742	1742	2088	21	44	7.9	47.7
R88L-EA-AF-0612-1838	1838	2184	22	46	7.9	49.4
R88L-EA-AF-0612-1934	1934	2280	23	48	7.9	50.2
R88L-EA-AF-0612-2030	2030	2376	24	50	7.9	52.9



Units: mm

Hall sensor & temperature cable

Cable length 500 mm approx.
Connector D-Sub 9 pins (male)



Pin No.	Name
1	5 V
2	Hall U
3	Hall V
4	Hall W
5	GND
6	PTC
7	PTC
8	KTY
9	KTY
Case	Shield

Encoder cable

Cable length 500 mm approx.
Connector D-Sub 15 pins (male)



Pin No.	Signal
1	SDA*
2	SCL*
3	Not used
4	/Ref signal (Uo-)
5	/Cos signal (Uz-)
6	/Sin signal (Ui-)
7	Not used
8	5 V
9	0 V
10	Not used
11	Not used
12	Ref signal (Uo)
13	Cos signal (Uz)
14	Sin signal (Ui)
15	Inner shield (IS)
Case	Shield

*Reserved. Please do not use

Power cable

Cable length 500 mm approx.
Connector HyperTac:
LRRA06GAMPN182 (male)
Pin article code: 021.279.1020

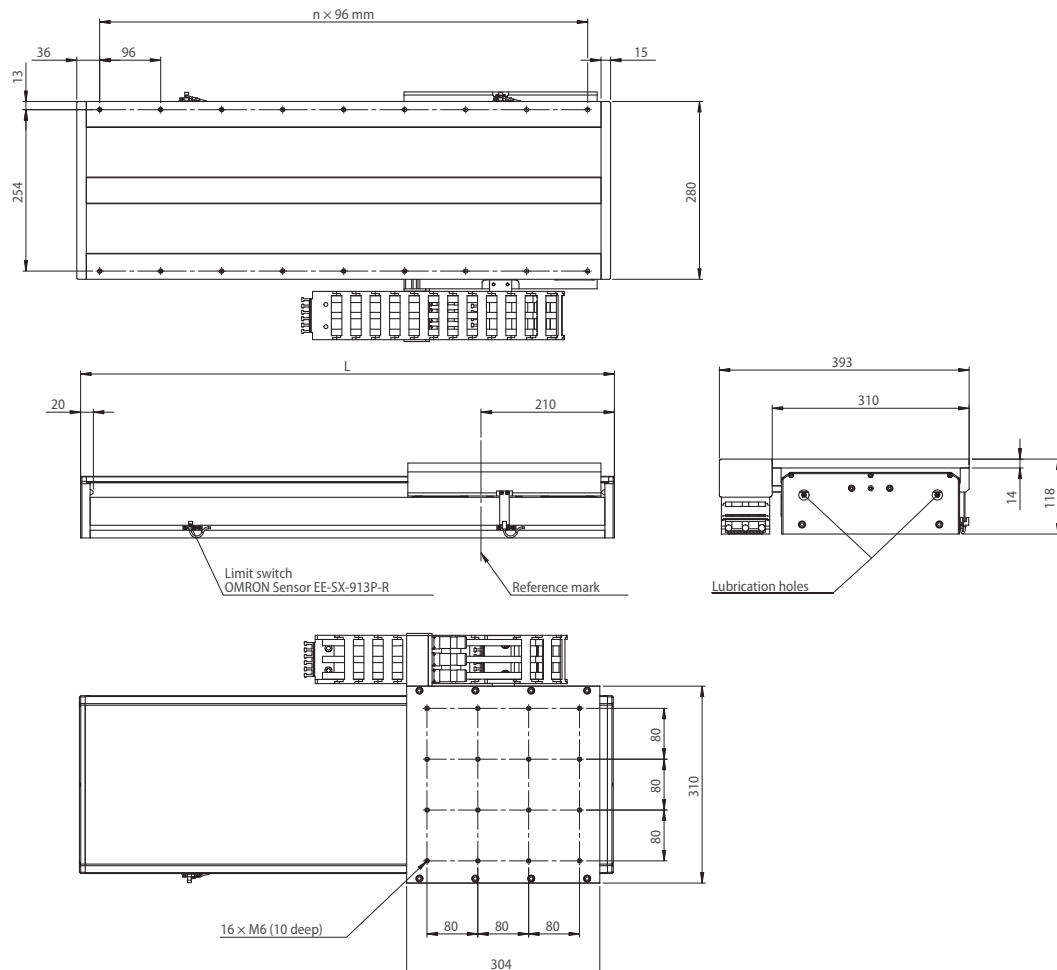


Mating connector:
Plug type: LPRAD06BFRBN170

Pin No.	Name
1	Phase U
2	Phase V
3	Ground
4	Phase W
5	Not used
6	Not used

R88L-EA-AF-1112- (230/400 VAC)

Linear axis model	Effective stroke in mm	L in mm	n	N° of mounting holes	Weight of moving table including motor coil (kg)	Weight of the complete axis (kg)
R88L-EA-AF-1112-0110	110	456	4	10	13.7	31.9
R88L-EA-AF-1112-0206	206	552	5	12	13.7	35.2
R88L-EA-AF-1112-0302	302	648	6	14	13.7	38.5
R88L-EA-AF-1112-0398	398	744	7	16	13.7	41.7
R88L-EA-AF-1112-0494	494	840	8	18	13.7	45.0
R88L-EA-AF-1112-0590	590	936	9	20	13.7	48.3
R88L-EA-AF-1112-0686	686	1032	10	22	13.7	51.5
R88L-EA-AF-1112-0782	782	1128	11	24	13.7	54.8
R88L-EA-AF-1112-0878	878	1224	12	26	13.7	58.1
R88L-EA-AF-1112-0974	974	1320	13	28	13.7	61.3
R88L-EA-AF-1112-1070	1070	1416	14	30	13.7	64.6
R88L-EA-AF-1112-1166	1166	1512	15	32	13.7	67.9
R88L-EA-AF-1112-1262	1262	1608	16	34	13.7	71.1
R88L-EA-AF-1112-1358	1358	1704	17	36	13.7	74.4
R88L-EA-AF-1112-1454	1454	1800	18	38	13.7	77.7
R88L-EA-AF-1112-1550	1550	1896	19	40	13.7	80.9
R88L-EA-AF-1112-1646	1646	1992	20	42	13.7	84.2
R88L-EA-AF-1112-1742	1742	2088	21	44	13.7	87.5
R88L-EA-AF-1112-1838	1838	2184	22	46	13.7	90.8
R88L-EA-AF-1112-1934	1934	2280	23	48	13.7	94.0
R88L-EA-AF-1112-2030	2030	2376	24	50	13.7	97.3
R88L-EA-AF-1112-2126	2126	2472	25	52	13.7	100.6



Units: mm

Hall sensor & temperature cable

Cable length 500 mm approx.
Connector D-Sub 9 pins (male)



Pin No.	Name
1	5V
2	Hall U
3	Hall V
4	Hall W
5	GND
6	PTC
7	PTC
8	KTY
9	KTY
Case	Shield

Encoder cable

Cable length 500 mm approx.
Connector D-Sub 15 pins (male)



Pin No.	Signal
1	5V
2	5V
3	Not used
4	/Ref signal (U ₊)
5	/Cos signal (U ₊)
6	/Sin signal (U ₊)
7	Not used
8	5V
9	5V
10	Not used
11	Not used
12	Ref signal (U ₋)
13	Cos signal (U ₋)
14	Sin signal (U ₋)
15	Inner shield (IS)
Case	Shield

*Reserved. Please do not use

Power cable

Cable length 500 mm approx.
Connector Hipermax
LPR060AMPFN182 (male)
Pin article code: 021.279.1020

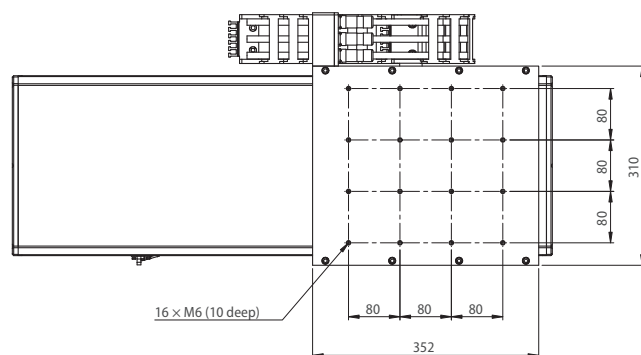
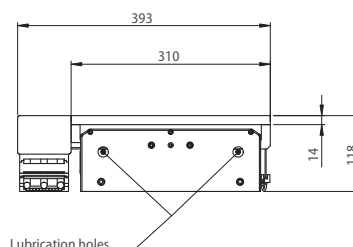
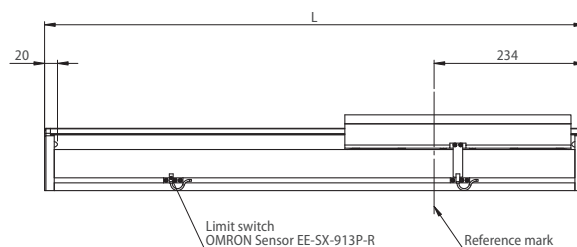
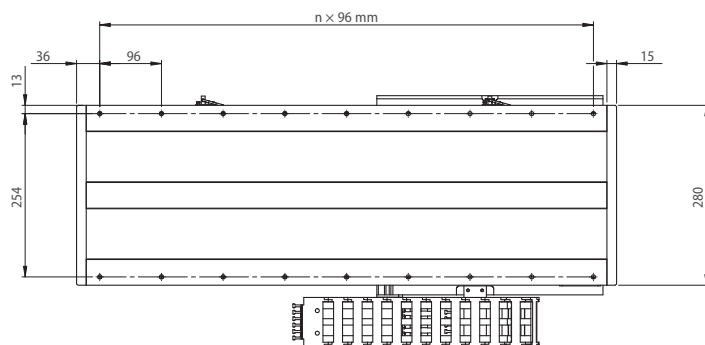


Mating connector:
Plug type: LPR060BFBN170

Pin No.	Name
1	Phase U
2	Phase V
3	Ground
4	Phase W
5	Not used
6	Not used

R88L-EA-AF-1115-_ (230/400 VAC)

Linear axis model	Effective stroke in mm	L in mm	n	N° of mounting holes	Weight of moving table including motor coil (kg)	Weight of the complete axis (kg)
R88L-EA-AF-1115-0158	158	552	5	12	15.9	37.4
R88L-EA-AF-1115-0254	254	648	6	14	15.9	40.6
R88L-EA-AF-1115-0350	350	744	7	16	15.9	43.9
R88L-EA-AF-1115-0446	446	840	8	18	15.9	47.2
R88L-EA-AF-1115-0542	542	936	9	20	15.9	50.4
R88L-EA-AF-1115-0638	638	1032	10	22	15.9	53.7
R88L-EA-AF-1115-0734	734	1128	11	24	15.9	57.0
R88L-EA-AF-1115-0830	830	1224	12	26	15.9	60.2
R88L-EA-AF-1115-0926	926	1320	13	28	15.9	63.5
R88L-EA-AF-1115-1022	1022	1416	14	30	15.9	66.8
R88L-EA-AF-1115-1118	1118	1512	15	32	15.9	70.0
R88L-EA-AF-1115-1214	1214	1608	16	34	15.9	73.3
R88L-EA-AF-1115-1310	1310	1704	17	36	15.9	76.6
R88L-EA-AF-1115-1406	1406	1800	18	38	15.9	79.8
R88L-EA-AF-1115-1502	1502	1896	19	40	15.9	83.1
R88L-EA-AF-1115-1598	1598	1992	20	42	15.9	86.4
R88L-EA-AF-1115-1694	1694	2088	21	44	15.9	89.6
R88L-EA-AF-1115-1790	1790	2184	22	46	15.9	92.9
R88L-EA-AF-1115-1886	1886	2280	23	48	15.9	96.2
R88L-EA-AF-1115-1982	1982	2376	24	50	15.9	99.4
R88L-EA-AF-1115-2078	2078	2472	25	52	15.9	102.7
R88L-EA-AF-1115-2174	2174	2568	26	54	15.9	106.0



Hall sensor & temperature cable

Cable length 500 mm approx.
Connector D-Sub 9 pins (male)



Pin No.	Name
1	5V
2	Hall U
3	Hall V
4	Hall W
5	GND
6	PTC
7	PTC
8	KTY
9	KTY
Case	Shield

Encoder cable

Cable length 500 mm approx.
Connector D-Sub 15 pins (male)



Pin No.	Signal
1	SDA*
2	SCL*
3	Not used
4	/Ref signal (U ₊)
5	/Cos signal (U ₊)
6	/Sin signal (U ₊)
7	Not used
8	5V
9	0V
10	Not used
11	Not used
12	Ref signal (U ₊)
13	Cos signal (U ₊)
14	Sin signal (U ₊)
15	Inner shield (IS)
Case	Shield

*Reserved. Please do not use

Power cable

Cable length 500 mm approx.
Connector Hyperlink
LRA06AMPN182 (male)
Pin article code: 021.275.1020



Mating connector:
Plug type: LPA06BFRN170

Pin No.	Name
1	Phase U
2	Phase V
3	Ground
4	Phase W
5	Not used
6	Not used

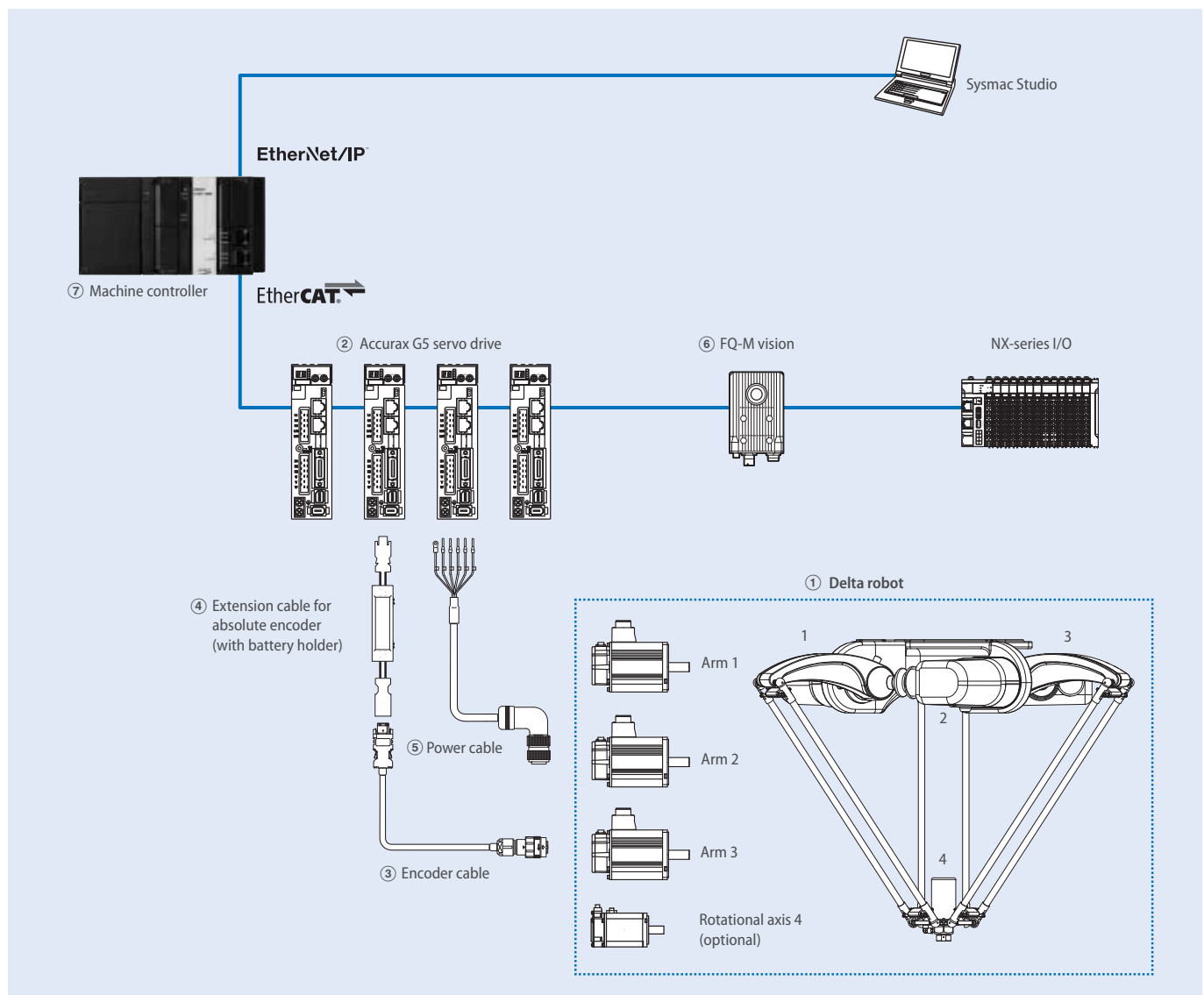
Units: mm



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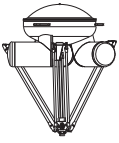
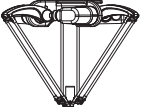
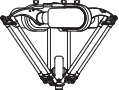
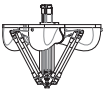
- Robot control integrated in the NJ robotics controller
- Control of up to 8 robots by one controller
- Degrees of freedom: 3 + 1 (rotational axis optional)
- Up to 200 cycle per minute
- Models from 500 to 1,600 working range
- Payload range: 1 to 8 kg
- Different types of Delta robot arms
- IP class range: IP65, IP67, IP69K
- Anti-collision detection option

Ordering information

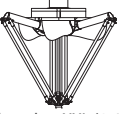





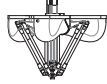
Note: Servo motors included in the Delta robot.

Washdown Delta robot series




Symbol	Max. payload	Working range	Description	Axis	② Applicable servo drive	Cable length	Order code
①  Delta robot IP69K	2 kg	Ø 1,100 x 250 mm (Max. 400)	3 + 1 axes Hygienic Design (only this robot includes the cables)	Arm 1	R88D-KN15H-ECT	3 m	CR_UGD4_R_HD3 CR_UGD4_R_HD5 CR_UGD4_R_HD10 CR_UGD4_R_HD15 CR_UGD4_R_HD20
				Arm 2	R88D-KN15H-ECT	5 m	
				Arm 3	R88D-KN15H-ECT	10 m	
				Rotational 4	R88D-KN08H-ECT	15 m	
			3 axes Hygienic Design (only this robot includes the cables)	Arm 1	R88D-KN15H-ECT	3 m	CR_UGD4_NR_HD3 CR_UGD4_NR_HD5 CR_UGD4_NR_HD10 CR_UGD4_NR_HD15 CR_UGD4_NR_HD20
				Arm 2	R88D-KN15H-ECT	5 m	
				Arm 3	R88D-KN15H-ECT	10 m	
				Rotational 4	R88D-KN08H-ECT	15 m	
①  Delta robot IP67	3 kg	Ø 1,100 x 300 mm (Max. 450)	3 + 1 axes (high inertia rotational axis)	Arm 1	R88D-KN15H-ECT	-	R6Y31110H03067NJ5
				Arm 2	R88D-KN15H-ECT		
				Arm 3	R88D-KN15H-ECT		
				Rotational 4	R88D-KN01H-ECT		
			3 + 1 axes (low inertia rotational axis)	Arm 1	R88D-KN15H-ECT	-	R6Y31110L03067NJ5
				Arm 2	R88D-KN15H-ECT		
				Arm 3	R88D-KN15H-ECT		
				Rotational 4	R88D-KN01H-ECT		
			3 axes	Arm 1	R88D-KN15H-ECT	-	R6Y30110S03067NJ5
				Arm 2	R88D-KN15H-ECT		
				Arm 3	R88D-KN15H-ECT		
				Rotational 4	R88D-KN01H-ECT		
①  Mini Delta robot IP67	2 kg	Ø 650 x 150 mm (Max. 250)	3 + 1 axes (high inertia rotational axis)	Arm 1	R88D-KN04H-ECT	-	R6Y31065H02067NJ5
				Arm 2	R88D-KN04H-ECT		
				Arm 3	R88D-KN04H-ECT		
				Rotational 4	R88D-KN01H-ECT		
			3 + 1 axes (low inertia rotational axis)	Arm 1	R88D-KN04H-ECT	-	R6Y31065L02067NJ5
				Arm 2	R88D-KN04H-ECT		
				Arm 3	R88D-KN04H-ECT		
				Rotational 4	R88D-KN01H-ECT		
			3 axes	Arm 1	R88D-KN04H-ECT	-	R6Y30065S02067NJ5
				Arm 2	R88D-KN04H-ECT		
				Arm 3	R88D-KN04H-ECT		
				Rotational 4	R88D-KN01H-ECT		
①  Mini Delta robot IP65	1 kg	Ø 500 x 130 mm (Max. 175)	3 + 1 axes	Arm 1	R88D-KN04H-ECT	-	CR_UGD4MINI_R_TS
				Arm 2	R88D-KN04H-ECT		
				Arm 3	R88D-KN04H-ECT		
				Rotational 4	R88D-KN04H-ECT		
		Ø 500 x 155 mm (Max. 200)	3 axes	Arm 1	R88D-KN04H-ECT	-	CR_UGD4MINI_NR_TS
				Arm 2	R88D-KN04H-ECT		
				Arm 3	R88D-KN04H-ECT		
				Rotational 4	R88D-KN04H-ECT		

Delta robot series

Symbol	Max. payload	Working range	Description	Axis	② Applicable servo drive	Order code
①  Delta robot XXL (1,600)	8 kg	Ø 1,600 x 350 mm (Max. 550)	3 + 1 axes	Arm 1	R88D-KN30F-ECT	CR_UGD4_XXLH_R
				Arm 2	R88D-KN30F-ECT	
				Arm 3	R88D-KN30F-ECT	
				Rotational 4	R88D-KN15F-ECT	
			3 axes	Arm 1	R88D-KN30F-ECT	CR_UGD4_XXLH_NR
				Arm 2	R88D-KN30F-ECT	
①  Delta robot XXL (1,300)	8 kg	Ø 1,300 x 300 mm (Max. 450)	3 + 1 axes	Arm 1	R88D-KN30F-ECT	CR_UGD4_XXL1300H_R
				Arm 2	R88D-KN30F-ECT	
				Arm 3	R88D-KN30F-ECT	
				Rotational 4	R88D-KN15F-ECT	
			3 axes	Arm 1	R88D-KN30F-ECT	CR_UGD4_XXL1300H_NR
				Arm 2	R88D-KN30F-ECT	
①  Delta robot XL	2 kg	Ø 1,300 x 250 mm (Max. 400)	3 + 1 axes	Arm 1	R88D-KN15H-ECT	CR_UGD4_XL_R
				Arm 2	R88D-KN15H-ECT	
				Arm 3	R88D-KN15H-ECT	
				Rotational 4	R88D-KN15H-ECT	
			3 axes	Arm 1	R88D-KN15H-ECT	CR_UGD4_XL_NR
				Arm 2	R88D-KN15H-ECT	
				Arm 3	R88D-KN15H-ECT	



Symbol	Max. payload	Working range	Description	Axis	② Applicable servo drive	Order code
①  Delta robot	2 kg	Ø 1,100 x 250 mm (Max. 400)	3 + 1 axes	Arm 1	R88D-KN15H-ECT	CR_UGD4_R
				Arm 2	R88D-KN15H-ECT	
				Arm 3	R88D-KN15H-ECT	
				Rotational 4	R88D-KN15H-ECT	
①  Mini Delta robot	1 kg	Ø 500 x 130 mm (Max. 175)	3 + 1 axes	Arm 1	R88D-KN04H-ECT	CR_UGD4MINI_R
				Arm 2	R88D-KN04H-ECT	
				Arm 3	R88D-KN04H-ECT	
				Rotational 4	R88D-KN04H-ECT	
		Ø 500 x 155 mm (Max. 200)	3 axes	Arm 1	R88D-KN04H-ECT	CR_UGD4MINI_NR
				Arm 2	R88D-KN04H-ECT	
				Arm 3	R88D-KN04H-ECT	

Encoder cables

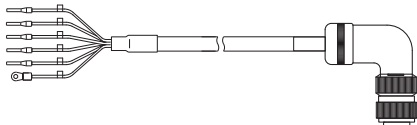
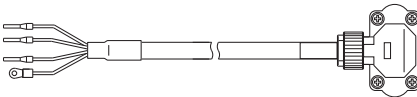

Symbol	Appearance	Applicable Delta robots	Cable length	Order code
③ 		CR_UGD4_□_HD□ (Arm 1, 2, 3)* ¹ R6Y3□110□03067NJ5 CR_UGD4_XXLH CR_UGD4_XXL1300H CR_UGD4_XL CR_UGD4	1.5 m	R88A-CRKC001-5NR-E
			3 m	R88A-CRKC003NR-E
			5 m	R88A-CRKC005NR-E
			10 m	R88A-CRKC010NR-E
			15 m	R88A-CRKC015NR-E
			20 m	R88A-CRKC020NR-E
		CR_UGD4_□_HD□ (Rotational axis 4)* ¹ R6Y3□065□02067NJ5 CR_UGD4MINI_□_TS CR_UGD4MINI	1.5 m	R88A-CRKA001-5CR-E
			3 m	R88A-CRKA003CR-E
			5 m	R88A-CRKA005CR-E
			10 m	R88A-CRKA010CR-E
			15 m	R88A-CRKA015CR-E
			20 m	R88A-CRKA020CR-E

*¹ The CR_UGD4_□_HD□ models include the encoder cables.

Absolute encoder battery cable (encoder extension cable only)

Symbol	Appearance	Specifications		Cable length	Order code
④	 Battery holder	Absolute encoder battery cable	Battery not included	0.3 m	R88A-CRGD0R3C-E
			Battery included	0.3 m	R88A-CRGD0R3C-BS-E
		Absolute encoder backup battery	2,000 mA, 3.6 V	—	R88A-BAT01G

Power and brake cables

Symbol	Appearance	Applicable Delta robots			Cable length	Order code
⑤		CR_UGD4_□_HD□* ¹	Arm 1, 2, 3	Power cable with brake	1.5 m	R88A-CAGB001-5BR-E
	3 m				R88A-CAGB003BR-E	
	5 m				R88A-CAGB005BR-E	
	10 m				R88A-CAGB010BR-E	
	15 m				R88A-CAGB015BR-E	
	20 m				R88A-CAGB020BR-E	
			Rotational axis 4	Power cable without brake	1.5 m	R88A-CAKA001-5SR-E
					3 m	R88A-CAKA003SR-E
					5 m	R88A-CAKA005SR-E
					10 m	R88A-CAKA010SR-E
					15 m	R88A-CAKA015SR-E
					20 m	R88A-CAKA020SR-E
				Brake cable	1.5 m	R88A-CAKA001-5BR-E
					3 m	R88A-CAKA003BR-E
					5 m	R88A-CAKA005BR-E
					10 m	R88A-CAKA010BR-E
					15 m	R88A-CAKA015BR-E
					20 m	R88A-CAKA020BR-E

Symbol	Appearance	Applicable Delta robots			Cable length	Order code
⑤		R6Y3□110□03067NJ5	Arm 1, 2, 3	Power cable with brake	1.5 m	R88A-CAGB001-5BR-E
					3 m	R88A-CAGB003BR-E
					5 m	R88A-CAGB005BR-E
					10 m	R88A-CAGB010BR-E
					15 m	R88A-CAGB015BR-E
					20 m	R88A-CAGB020BR-E
			Rotational axis 4	Power cable without brake	1.5 m	R88A-CAGB001-5SR-E
					3 m	R88A-CAGB003SR-E
					5 m	R88A-CAGB005SR-E
					10 m	R88A-CAGB010SR-E
					15 m	R88A-CAGB015SR-E
					20 m	R88A-CAGB020SR-E
		CR_UGD4_XXLH CR_UGD4_XXL1300H	Arm 1, 2, 3	Power cable with brake	1.5 m	R88A-CAGD001-5BR-E
					3 m	R88A-CAGD003BR-E
					5 m	R88A-CAGD005BR-E
					10 m	R88A-CAGD010BR-E
					15 m	R88A-CAGD015BR-E
					20 m	R88A-CAGD020BR-E
			Rotational axis 4	Power cable with brake	1.5 m	R88A-CAKF001-5BR-E
					3 m	R88A-CAKF003BR-E
					5 m	R88A-CAKF005BR-E
					10 m	R88A-CAKF010BR-E
					15 m	R88A-CAKF015BR-E
					20 m	R88A-CAKF020BR-E
		CR_UGD4_XL CR_UGD4	Arm 1, 2, 3 and rotational axis 4	Power cable with brake	1.5 m	R88A-CAGB001-5BR-E
					3 m	R88A-CAGB003BR-E
					5 m	R88A-CAGB005BR-E
					10 m	R88A-CAGB010BR-E
					15 m	R88A-CAGB015BR-E
					20 m	R88A-CAGB020BR-E
		R6Y3□065□02067NJ5	Arm 1, 2, 3	Power cable without brake	1.5 m	R88A-CAKA001-5SR-E
					3 m	R88A-CAKA003SR-E
					5 m	R88A-CAKA005SR-E
					10 m	R88A-CAKA010SR-E
					15 m	R88A-CAKA015SR-E
					20 m	R88A-CAKA020SR-E
			Arm 1, 2, 3	Brake cable	1.5 m	R88A-CAKA001-5BR-E
					3 m	R88A-CAKA003BR-E
					5 m	R88A-CAKA005BR-E
					10 m	R88A-CAKA010BR-E
					15 m	R88A-CAKA015BR-E
					20 m	R88A-CAKA020BR-E
			Rotational axis 4	Power cable without brake	1.5 m	R88A-CAGB001-5SR-E
					3 m	R88A-CAGB003SR-E
					5 m	R88A-CAGB005SR-E
					10 m	R88A-CAGB010SR-E
					15 m	R88A-CAGB015SR-E
					20 m	R88A-CAGB020SR-E
		CR_UGD4MINI□_TS CR_UGD4MINI	Arm 1, 2, 3 and rotational axis 4	Power cable without brake	1.5 m	R88A-CAKA001-5SR-E
					3 m	R88A-CAKA003SR-E
					5 m	R88A-CAKA005SR-E
					10 m	R88A-CAKA010SR-E
					15 m	R88A-CAKA015SR-E
					20 m	R88A-CAKA020SR-E
			Arm 1, 2, 3 and rotational axis 4	Brake cable	1.5 m	R88A-CAKA001-5BR-E
					3 m	R88A-CAKA003BR-E
					5 m	R88A-CAKA005BR-E
					10 m	R88A-CAKA010BR-E
					15 m	R88A-CAKA015BR-E
					20 m	R88A-CAKA020BR-E

*1 The CR_UGD4_□_HD□ models include the power and brake cables.

Vision

Name	Type		Order code
⑥ FQ-M series	Color	NPN	FQ-MS120-ECT
		PNP	FQ-MS125-ECT
	Monochrome	NPN	FQ-MS120-M-ECT
		PNP	FQ-MS125-M-ECT

Machine controller

Name		Functions	Delta robot control	Axes	Order code
⑦ NJ Robotics	CPU unit	Logic sequence, motion, robotics and database connection	Control of up to 8 Delta robot depending on the number of axes supported by the CPU	16	NJ501-4320
		Logic sequence, motion and robotics		64	NJ501-4500
				32	NJ501-4400
				16	NJ501-4300
			Control of one Delta robot	16	NJ501-4310
	Power supply unit				NJ-PA3001 (220 VAC)
					NJ-PD3001 (24 VDC)

Accessories

Name	Applicable Delta robots	Specifications	Order code
Anti-collision detection option	R6Y3□110□03067NJ5	Connectors mounted between the TCP flange and the arms	R6YACAD01

Computer software

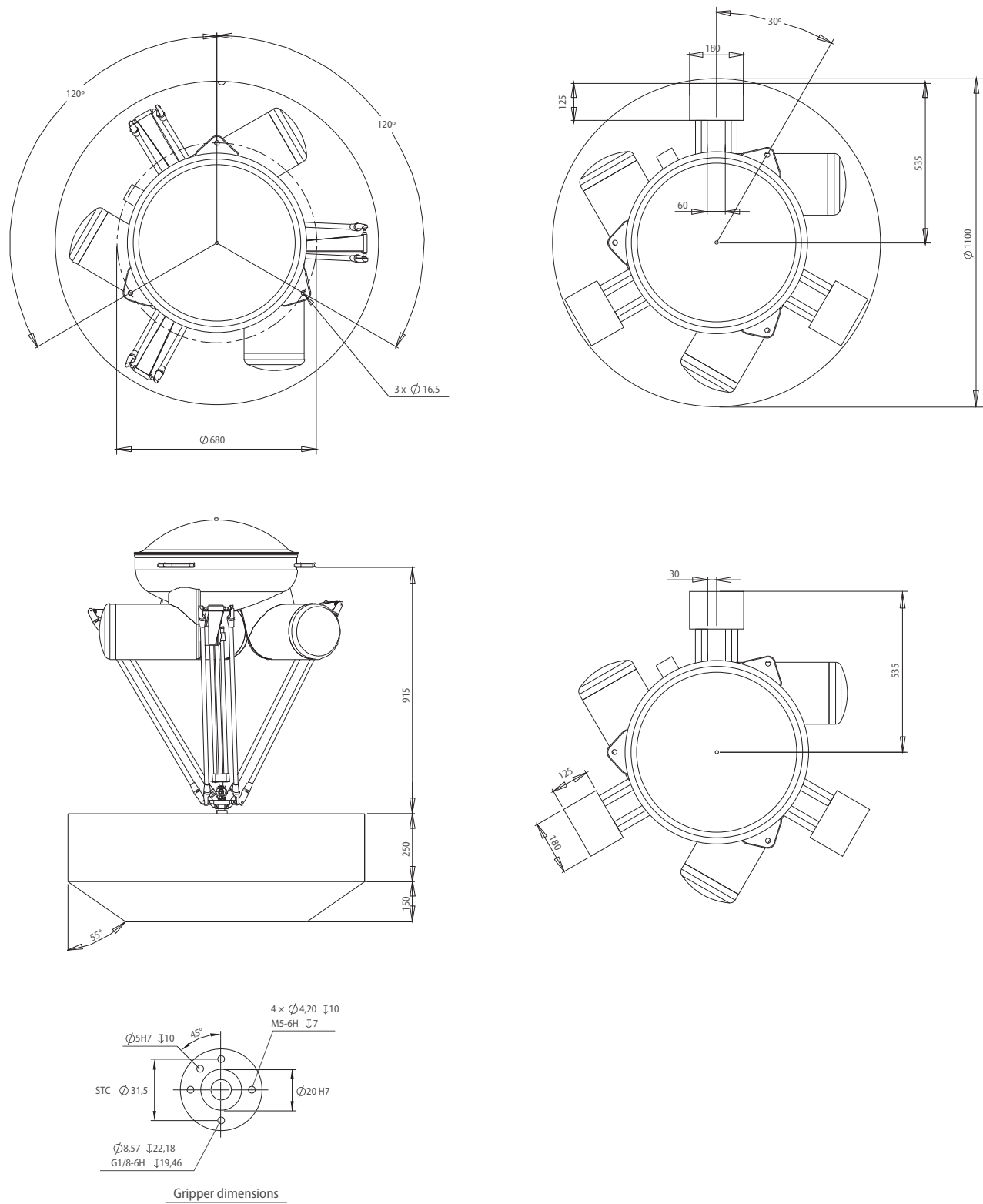
Specifications	Order code
Sysmac Studio version 1.03 or higher	SYSMAC-SE2□□□ ^{*1}

^{*1} Refer to the Sysmac Studio datasheet (Cat. No. SysCat_I181E) for detailed information or contact your OMRON representative

Dimensions

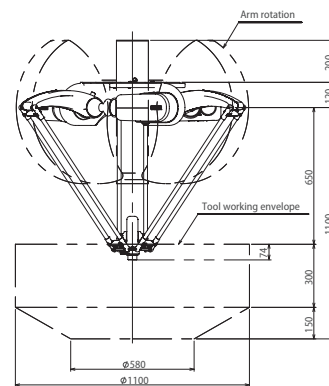
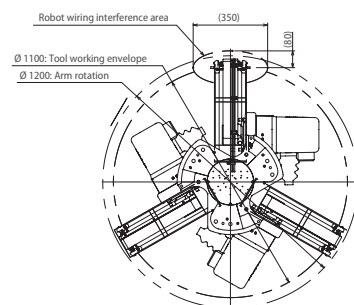
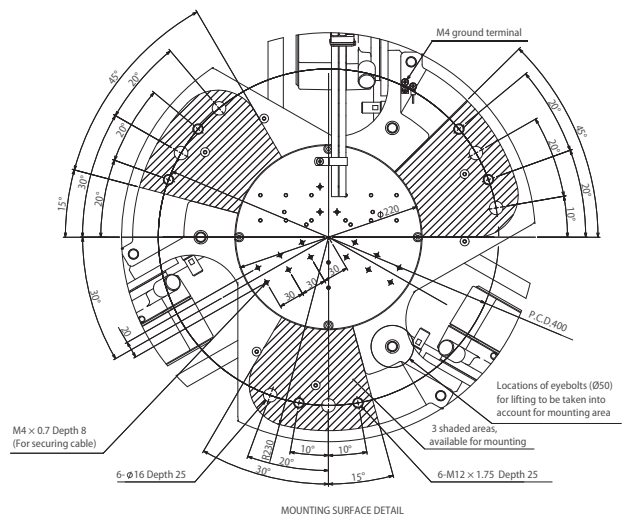
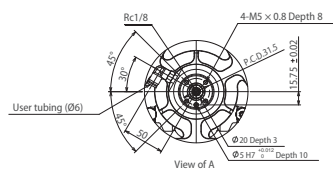
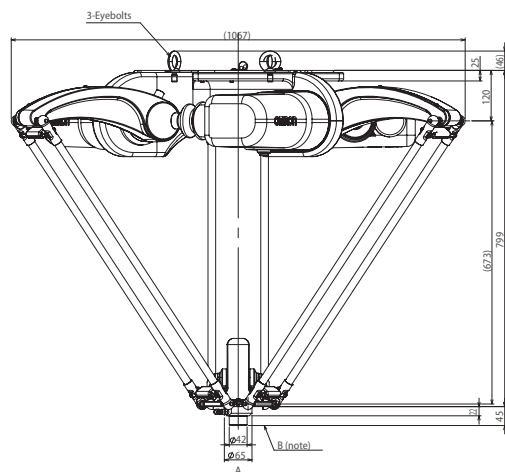
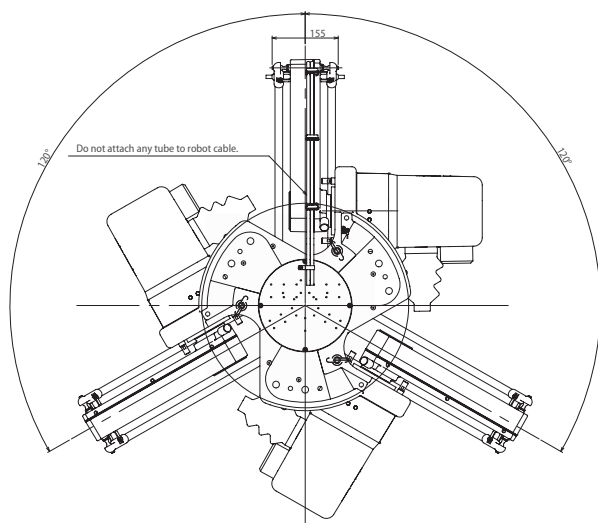
Washdown Delta robot IP69K

CR_UGD4_□R_HD□



Washdown Delta robot IP67

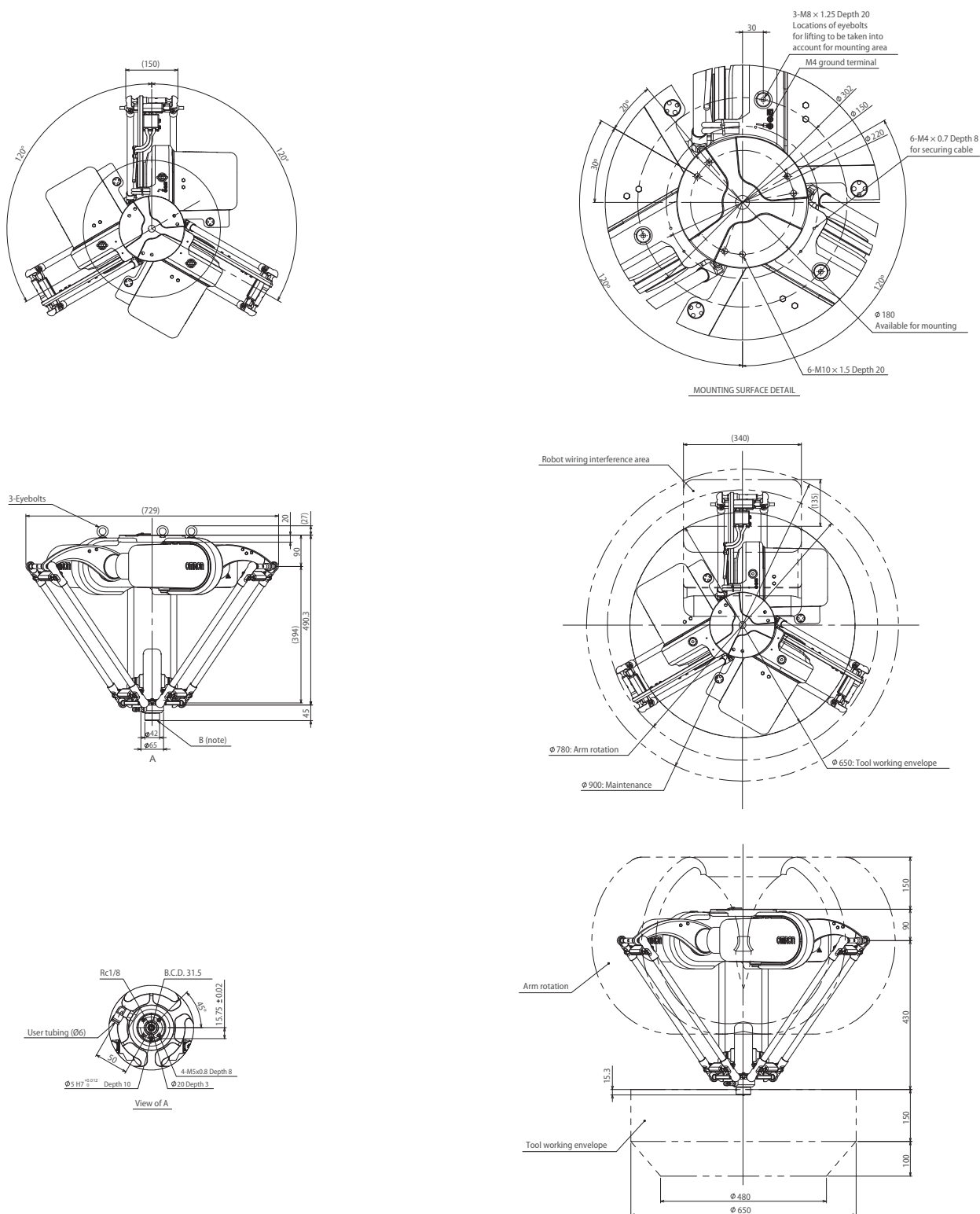
R6Y3□110□03067NJ5



Note: The three areas of the robot base are available for mounting. Leave other area unoccupied for other needs (e.g. wiring). Also note the locations of the eyebolts when designing a mounting frame. Any part of end-effector should not stick out above the surface of B.

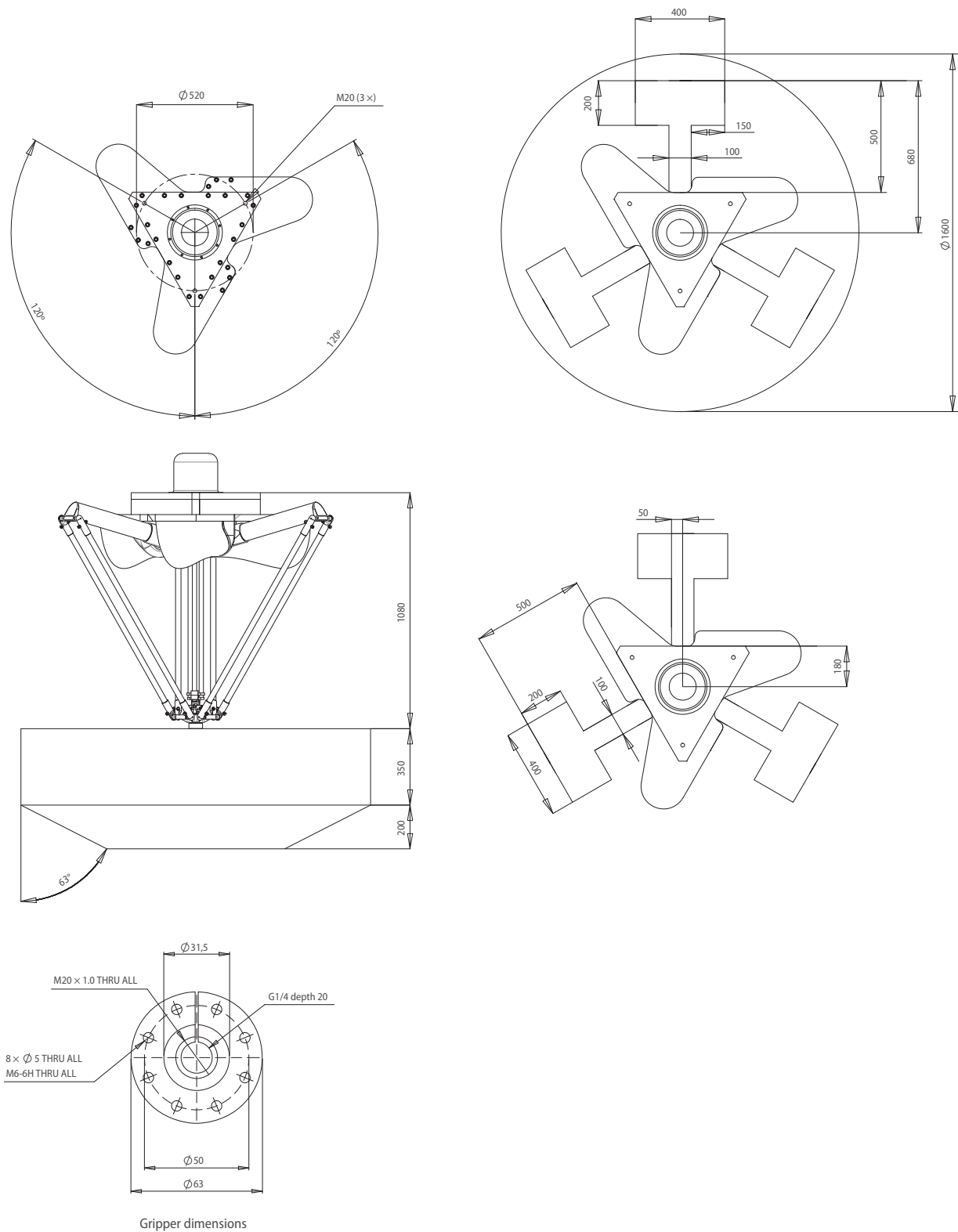
Washdown Mini Delta robot IP67

R6Y3□065□02067NJ5



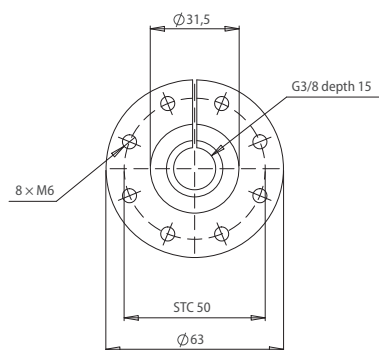
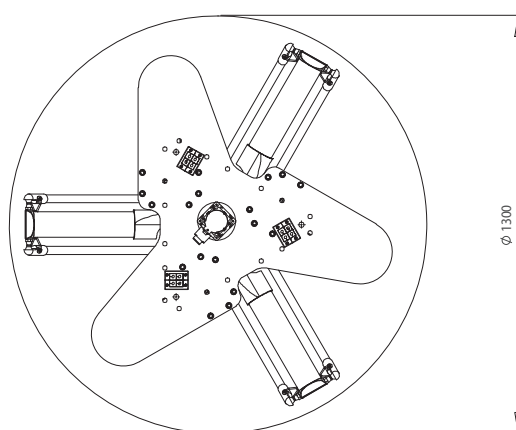
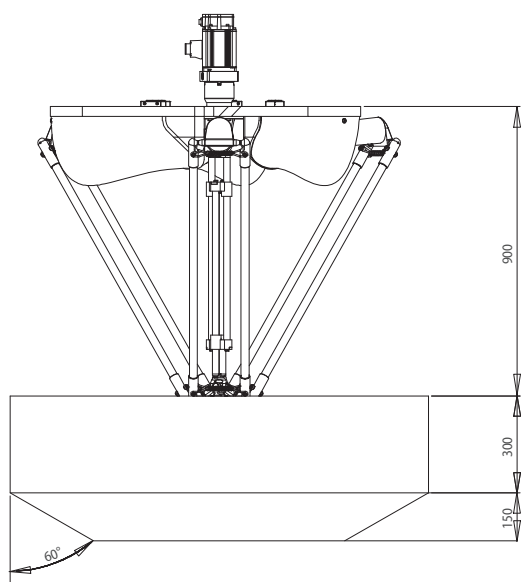
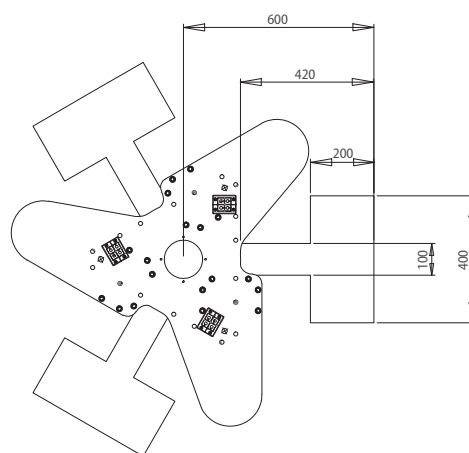
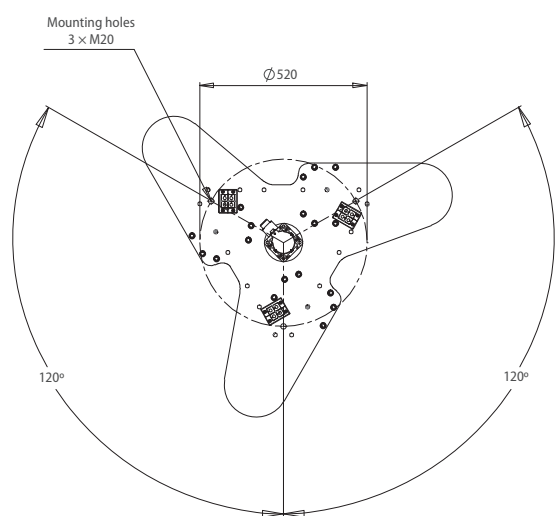
Note: Mounting area should be smaller than 180 mm diameter to avoid collision with robot cable. Frame of base should not be in the arm moving area. Any part of end-effector should not stick out above the surface of B.

Delta robot XXL (1,600)
CR_UGD4_XXLH_□R



Delta robot XXL (1,300)

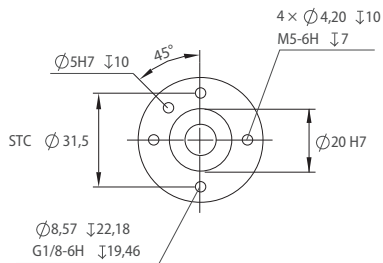
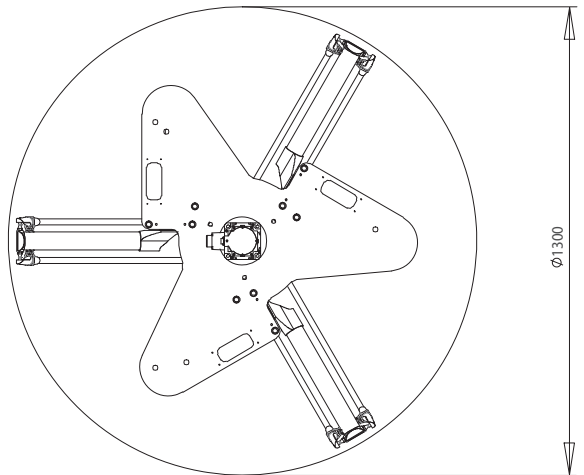
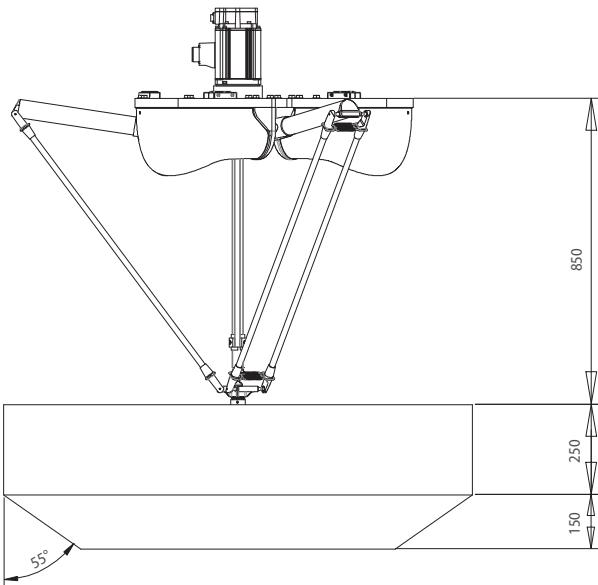
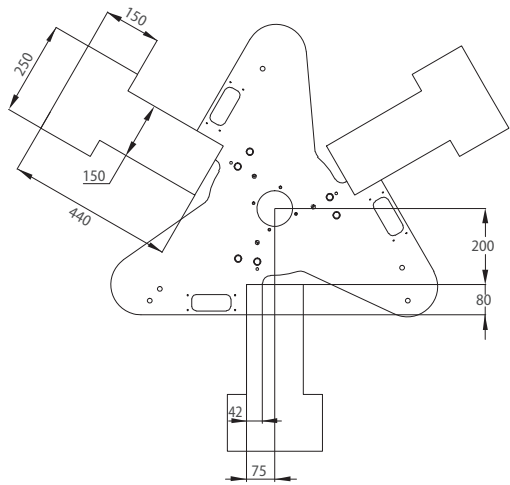
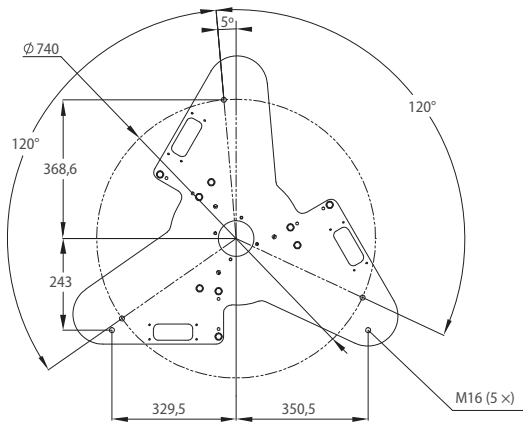
CR_UGD4_XXL1300H_□R



Gripper dimensions

Delta robot XL

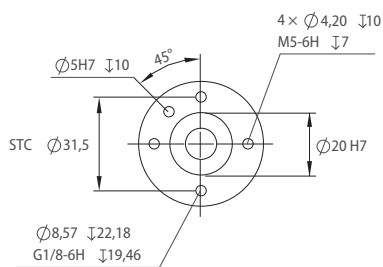
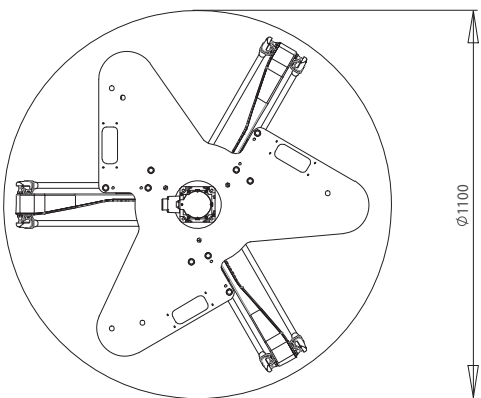
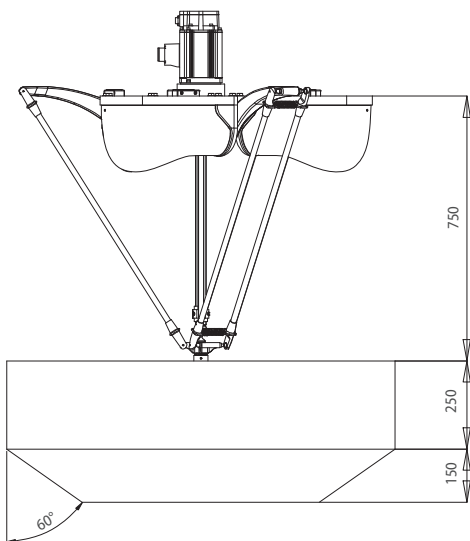
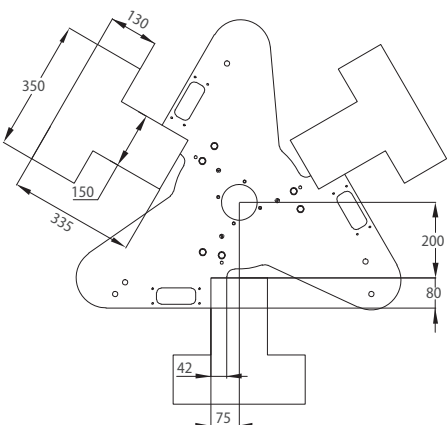
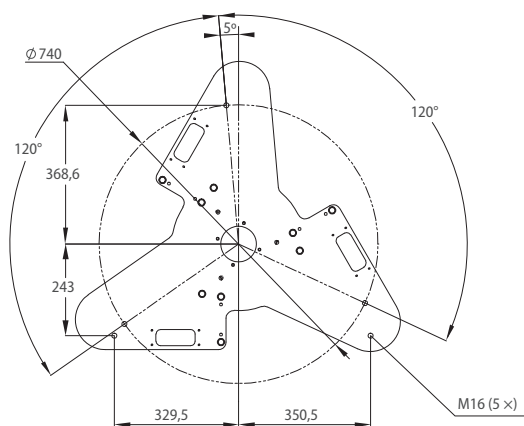
CR_UGD4_XL_□R



Gripper dimensions

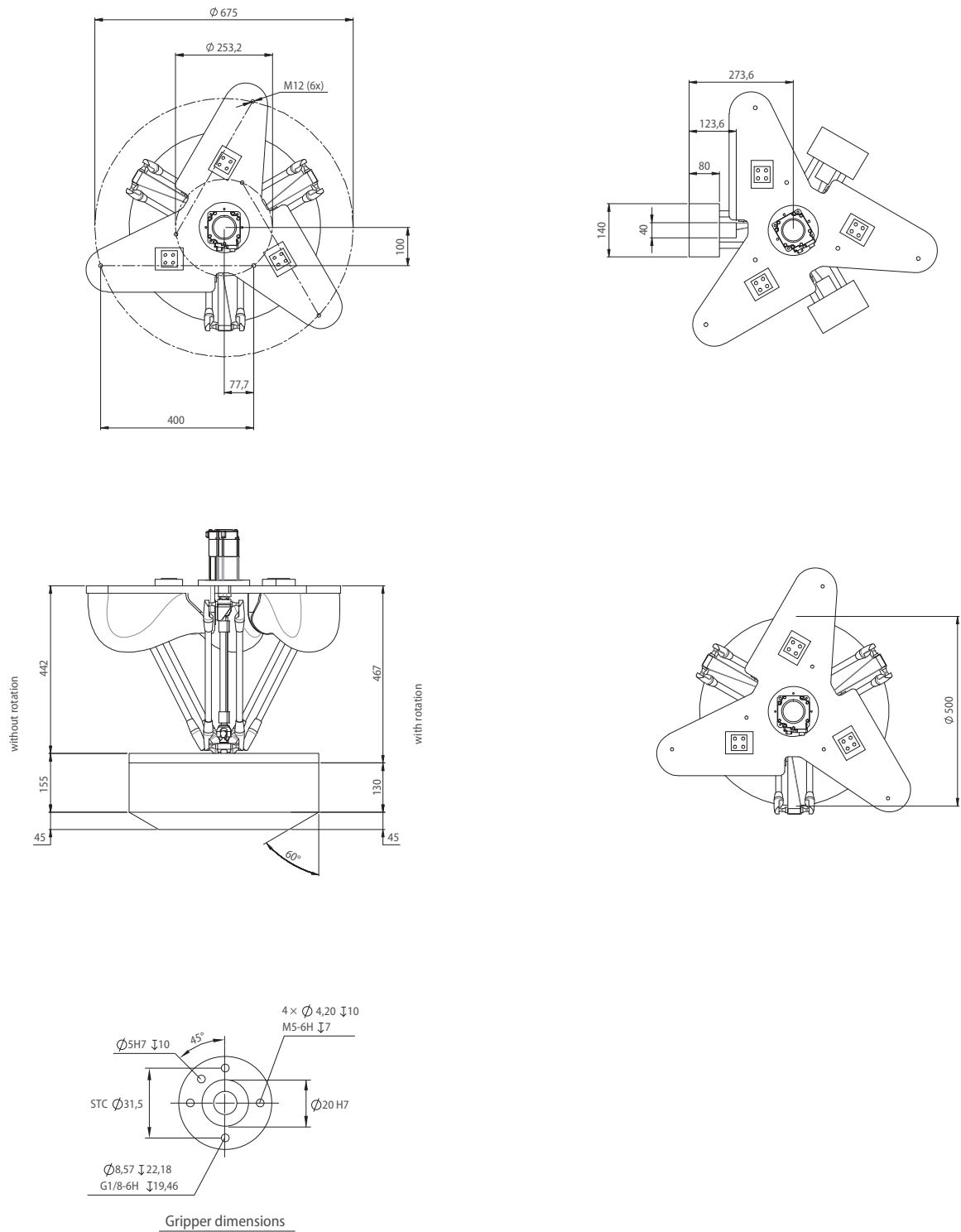
Delta robot

CR_UGD4_□R



Gripper dimensions

Washdown Mini Delta robot IP65 / Mini Delta robot
CR_UGD4MINI_□R□

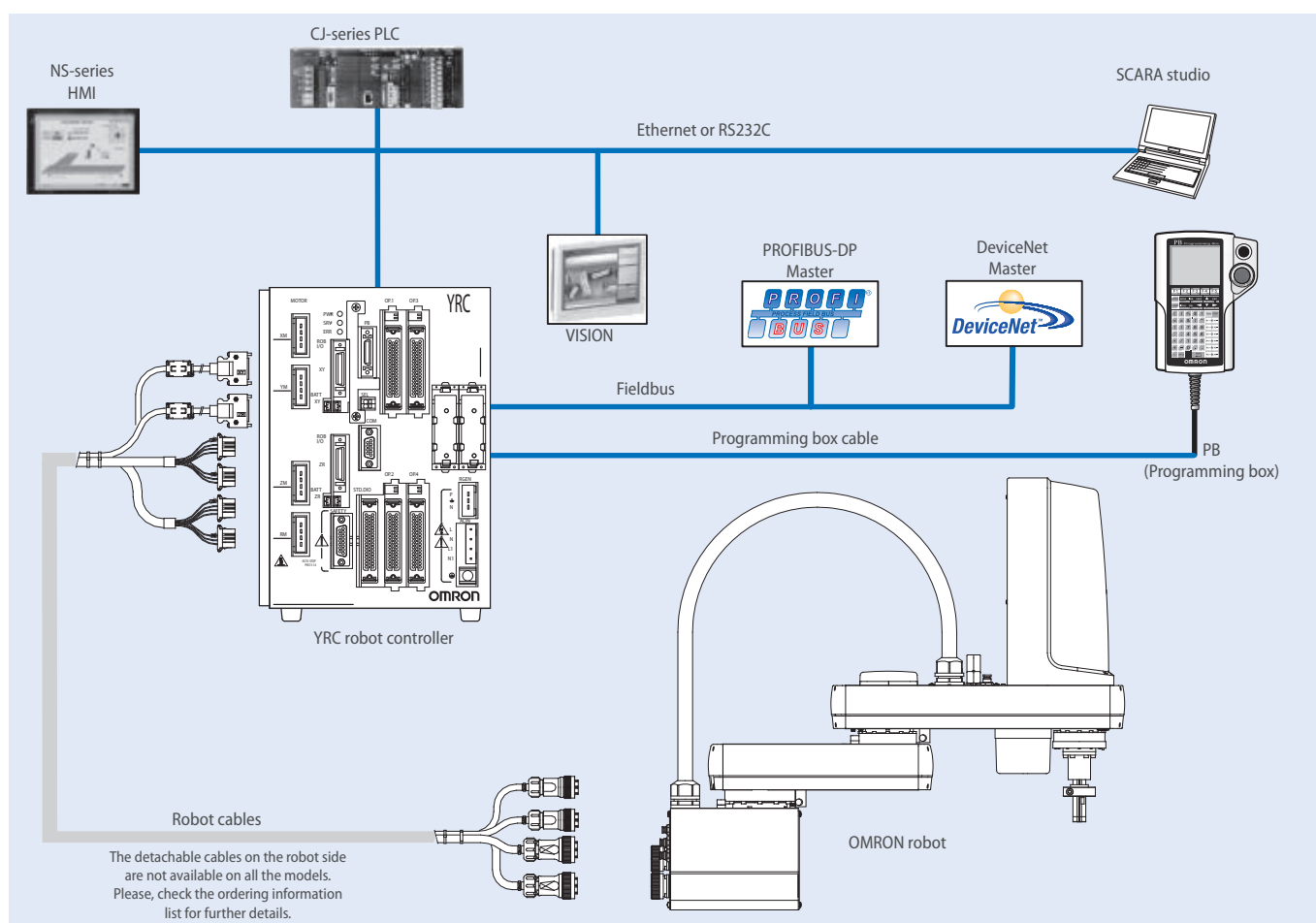




The flexible picking system

- Higher reliability (no belts in XG series, no electronic parts in movement)
- Higher precision and speed
- Minimum maintenance
- Easier to use
- Higher rigidity
- Very compact design

Ordering information



XG series - Standard type

	Series	Reach (mm)	Z-axis stroke (mm)	Payload (kg)	Accessories		RGU	Robot cable			Order code
					Tool flange	Open shaft		Length (m)	Item code	Detachable	
R6Y	XG	120	50	1	N/A	N/A	N/A	2.0	R6YACCX002T1	N/A	R6YXG12050YRCR0
								3.5	R6YACCX003T1	N/A	
								5.0	R6YACCX005T1	N/A	
								10.0	R6YACCX010T1	N/A	
		150	50	1	N/A	N/A	N/A	2.0	R6YACCX002T1	N/A	R6YXG15050YRCR0
								3.5	R6YACCX003T1	N/A	
								5.0	R6YACCX005T1	N/A	
								10.0	R6YACCX010T1	N/A	
		180	50	1	N/A	N/A	N/A	2.0	R6YACCX002T1	N/A	R6YXG18050YRCR0
								3.5	R6YACCX003T1	N/A	
								5.0	R6YACCX005T1	N/A	
								10.0	R6YACCX010T1	N/A	
		220	100	1	N/A	N/A	N/A	3.5	R6YACCX003T2	N/A	R6YXG220100YRCR0
								5.0	R6YACCX005T2	N/A	
								10.0	R6YACCX010T2	N/A	
	XGL	250	150	5	R6YACXGLF	R6YACXGLS	N/A	3.5	R6YACCX003XGX	Yes	R6YXGL250150YRCR0
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
		350	150	5	R6YACXGLF	R6YACXGLS	N/A	3.5	R6YACCX003XGX	Yes	R6YXGL350150YRCR0
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
		400	150	5	R6YACXGLF	R6YACXGLS	N/A	3.5	R6YACCX003XGX	Yes	R6YXGL400150YRCR0
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
		500	150	5	R6YACXGLF	R6YACXGLS	N/A	3.5	R6YACCX003XGX	Yes	R6YXGL500150YRCR0
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
		600	150	5	R6YACXGLF	R6YACXGLS	N/A	3.5	R6YACCX003XGX	Yes	R6YXGL600150YRCR0
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
	XG	500	200	10	N/A	N/A	RGU3	3.5	R6YACCX003XGX	Yes	R6YXG500200YRCR3
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
			300	10	N/A	N/A	RGU3	3.5	R6YACCX003XGX	Yes	R6YXG500300YRCR3
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
		600	200	10	N/A	N/A	RGU3	3.5	R6YACCX003XGX	Yes	R6YXG600200YRCR3
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
			300	10	N/A	N/A	RGU3	3.5	R6YACCX003XGX	Yes	R6YXG600300YRCR3
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
	XGH	600	200	20	N/A	N/A	RGU3	3.5	R6YACCX003XGX	Yes	R6YXGH600200YRCR3
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
		400	20	N/A	N/A	N/A	RGU3	3.5	R6YACCX003XGX	Yes	R6YXGH600400YRCR3
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
	XG	700	200	20	N/A	N/A	RGU3	3.5	R6YACCX003XGX	Yes	R6YXG700200YRCR3
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
			400	20	N/A	N/A	RGU3	3.5	R6YACCX003XGX	Yes	R6YXG700400YRCR3
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
		800	200	20	N/A	N/A	RGU3	3.5	R6YACCX003XGX	Yes	R6YXG800200YRCR3
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
			400	20	N/A	N/A	RGU3	3.5	R6YACCX003XGX	Yes	R6YXG800400YRCR3
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	

	Series	Reach (mm)	Z-axis stroke (mm)	Payload (kg)	Accessories		RGU	Robot cable			Order code
					Tool flange	Open shaft		Length (m)	Item code	Detachable	
R6Y	XG	900	200	20	N/A	N/A	RGU3	3.5	R6YACCX003XGX	Yes	R6YXG900200YRCR3
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
			400	20	N/A	N/A	RGU3	3.5	R6YACCX003XGX	Yes	R6YXG900400YRCR3
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
		1000	200	20	N/A	N/A	RGU3	3.5	R6YACCX003XGX	Yes	R6YXG1000200YRCR3
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	
			400	20	N/A	N/A	RGU3	3.5	R6YACCX003XGX	Yes	R6YXG1000400YRCR3
								5.0	R6YACCX005XGX	Yes	
								10.0	R6YACCX010XGX	Yes	

XG series - Wall-mount type

	Series	Reach (mm)	Z-axis stroke (mm)	Payload (kg)	Accessories		RGU	Robot cable			Order code
					Tool flange	Open shaft		Length (m)	Item code	Detachable	
R6Y	XGSW	300	150	5	R6YACXGLF	R6YACXGLS	N/A	3.5	R6YACCX003XGS	N/A	R6YXGSW300150YRCR0
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
		400	150	5	R6YACXGLF	R6YACXGLS	N/A	3.5	R6YACCX003XGS	N/A	R6YXGSW400150YRCR0
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
		500	200	10	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSW500200YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
			300	10	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSW500300YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
		600	200	10	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSW600200YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
			300	10	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSW600300YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
		700	200	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSW700200YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
			400	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSW700400YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
		800	200	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSW800200YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
			400	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSW800400YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
		900	200	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSW900200YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
			400	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSW900400YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
		1000	200	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSW1000200YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
			400	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSW1000400YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	

XG series - Wall-mount inverse type

	Series	Reach (mm)	Z-axis stroke (mm)	Payload (kg)	Accessories		RGU	Robot cable			Order code
					Tool flange	Open shaft		Length (m)	Item code	Detachable	
R6Y	XGSU	300	150	5	R6YACXGLF	R6YACXGLS	N/A	3.5	R6YACCX003XGS	N/A	R6YXGSU300150YRCR0
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
		400	150	5	R6YACXGLF	R6YACXGLS	N/A	3.5	R6YACCX003XGS	N/A	R6YXGSU400150YRCR0
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
		500	200	10	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSU500200YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
			300	10	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSU500300YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
		600	200	10	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSU600200YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
			300	10	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSU600300YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
		700	200	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSU700200YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
			400	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSU700400YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
		800	200	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSU800200YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
			400	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSU800400YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
		900	200	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSU900200YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
			400	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSU900400YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
		1000	200	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSU1000200YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	
			400	20	N/A	N/A	RGU3	3.5	R6YACCX003XGS	N/A	R6YXGSU1000400YRCR3
								5.0	R6YACCX005XGS	N/A	
								10.0	R6YACCX010XGS	N/A	

XG series - Clean type

	Series	Reach (mm)	Z-axis stroke (mm)	Payload (kg)	Accessories		RGU	Robot cable			Order code
					Tool flange	Open shaft		Length (m)	Item code	Detachable	
R6Y	XGLC	250	150	4	R6YACXGLF	N/A	N/A	3.5	R6YACCX003XGCXGP	N/A	R6YXGLC250150YRCR0
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
		350	150	4	R6YACXGLF	N/A	N/A	3.5	R6YACCX003XGCXGP	N/A	R6YXGLC350150YRCR0
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
		400	150	4	R6YACXGLF	N/A	N/A	3.5	R6YACCX003XGCXGP	N/A	R6YXGLC400150YRCR0
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
		500	150	4	R6YACXGLF	N/A	N/A	3.5	R6YACCX003XGCXGP	N/A	R6YXGLC500150YRCR0
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
		600	150	4	R6YACXGLF	N/A	N/A	3.5	R6YACCX003XGCXGP	N/A	R6YXGLC600150YRCR0
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	

XG series - Dust-proof & drip-proof type

	Series	Reach (mm)	Z-axis stroke (mm)	Payload (kg)	Accessories		RGU	Robot cable			Order code
					Tool flange	Open shaft		Length (m)	Item code	Detachable	
R6Y	XGLP	250	150	4	R6YACXGLF	N/A	N/A	3.5	R6YACCX003XGCXGP	N/A	R6YXGLP250150YRCR0
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
		350	150	4	R6YACXGLF	N/A	N/A	3.5	R6YACCX003XGCXGP	N/A	R6YXGLP350150YRCR0
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
		400	150	4	R6YACXGLF	N/A	N/A	3.5	R6YACCX003XGCXGP	N/A	R6YXGLP400150YRCR0
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
		500	150	4	R6YACXGLF	N/A	N/A	3.5	R6YACCX003XGCXGP	N/A	R6YXGLP500150YRCR0
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
		600	150	4	R6YACXGLF	N/A	N/A	3.5	R6YACCX003XGCXGP	N/A	R6YXGLP600150YRCR0
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
	XGP	500	200	8	N/A	N/A	RGU3	3.5	R6YACCX003XGCXGP	N/A	R6YXGP500200YRCR3
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
			300	8	N/A	N/A	RGU3	3.5	R6YACCX003XGCXGP	N/A	R6YXGP500300YRCR3
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
		600	200	8	N/A	N/A	RGU3	3.5	R6YACCX003XGCXGP	N/A	R6YXGP600200YRCR3
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
			300	8	N/A	N/A	RGU3	3.5	R6YACCX003XGCXGP	N/A	R6YXGP600300YRCR3
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
	XGHP	600	200	18	N/A	N/A	RGU3	3.5	R6YACCX003XGCXGP	N/A	R6YXGHP600200YRCR3
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
		400	18	N/A	N/A	N/A	RGU3	3.5	R6YACCX003XGCXGP	N/A	R6YXGHP600400YRCR3
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
	XGP	700	200	18	N/A	N/A	RGU3	3.5	R6YACCX003XGCXGP	N/A	R6YXGP700200YRCR3
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
			400	18	N/A	N/A	RGU3	3.5	R6YACCX003XGCXGP	N/A	R6YXGP700400YRCR3
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
		800	200	18	N/A	N/A	RGU3	3.5	R6YACCX003XGCXGP	N/A	R6YXGP800200YRCR3
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
			400	18	N/A	N/A	RGU3	3.5	R6YACCX003XGCXGP	N/A	R6YXGP800400YRCR3
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
		900	200	18	N/A	N/A	RGU3	3.5	R6YACCX003XGCXGP	N/A	R6YXGP900200YRCR3
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
			400	18	N/A	N/A	RGU3	3.5	R6YACCX003XGCXGP	N/A	R6YXGP900400YRCR3
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
		1000	200	18	N/A	N/A	RGU3	3.5	R6YACCX003XGCXGP	N/A	R6YXGP1000200YRCR3
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	
			400	18	N/A	N/A	RGU3	3.5	R6YACCX003XGCXGP	N/A	R6YXGP1000400YRCR3
								5.0	R6YACCX005XGCXGP	N/A	
								10.0	R6YACCX010XGCXGP	N/A	

X series - High payload

	Series	Reach (mm)	Z-axis stroke (mm)	Payload (kg)	RGU	Robot cable			Order code
						Length (m)	Item code	Detachable	
R6Y	XX	1200	400	50	RGU2	3.5	R6YACCX003XGX	Yes	R6YXX1200400YRCR2
						5.0	R6YACCX005XGX	Yes	
						10.0	R6YACCX010XGX	Yes	

XC series - Clean type

	Series	Reach (mm)	Z-axis stroke (mm)	Payload (kg)	RGU	Robot cable			Order code
						Length (m)	Item code	Detachable	
R6Y	XC	180	100	1	N/A	3.5	R6YACCX003XSXC	N/A	R6YXC180100YRCR0
						5.0	R6YACCX005XSXC	N/A	
						10.0	R6YACCX010XSXC	N/A	
		220	100	1	N/A	3.5	R6YACCX003XSXC	N/A	R6YXC220100YRCR0
						5.0	R6YACCX005XSXC	N/A	
						10.0	R6YACCX010XSXC	N/A	
		500	200	10	RGU2	3.5	R6YACCX003XSXC	N/A	R6YXC500200YRCR2
						5.0	R6YACCX005XSXC	N/A	
						10.0	R6YACCX010XSXC	N/A	
			300	10	RGU2	3.5	R6YACCX003XSXC	N/A	R6YXC500300YRCR2
						5.0	R6YACCX005XSXC	N/A	
						10.0	R6YACCX010XSXC	N/A	
		600	200	10	RGU2	3.5	R6YACCX003XSXC	N/A	R6YXC600200YRCR2
						5.0	R6YACCX005XSXC	N/A	
						10.0	R6YACCX010XSXC	N/A	
			300	10	RGU2	3.5	R6YACCX003XSXC	N/A	R6YXC600300YRCR2
						5.0	R6YACCX005XSXC	N/A	
						10.0	R6YACCX010XSXC	N/A	
		700	200	20	RGU2	3.5	R6YACCX003XSXC	N/A	R6YXC700200YRCR2
						5.0	R6YACCX005XSXC	N/A	
						10.0	R6YACCX010XSXC	N/A	
			400	20	RGU2	3.5	R6YACCX003XSXC	N/A	R6YXC700400YRCR2
						5.0	R6YACCX005XSXC	N/A	
						10.0	R6YACCX010XSXC	N/A	
		800	200	20	RGU2	3.5	R6YACCX003XSXC	N/A	R6YXC800200YRCR2
						5.0	R6YACCX005XSXC	N/A	
						10.0	R6YACCX010XSXC	N/A	
			400	20	RGU2	3.5	R6YACCX003XSXC	N/A	R6YXC800400YRCR2
						5.0	R6YACCX005XSXC	N/A	
						10.0	R6YACCX010XSXC	N/A	
		1000	200	20	RGU2	3.5	R6YACCX003XSXC	N/A	R6YXC1000200YRCR2
						5.0	R6YACCX005XSXC	N/A	
						10.0	R6YACCX010XSXC	N/A	
			400	20	RGU2	3.5	R6YACCX003XSXC	N/A	R6YXC1000400YRCR2
						5.0	R6YACCX005XSXC	N/A	
						10.0	R6YACCX010XSXC	N/A	