



Digitized Automation for a Changing World

Delta Industrial Robots



TAIWAN
EXCELLENCE 2016



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Delta Industrial Robots

Delta's industrial robots can easily combine peripheral devices to build a quick, flexible, and highly precise automated production line. The robots' work significantly lowers labor and time cost, while optimizing production quality and efficiency.

To fulfill the needs of various industry applications and production processes, Delta continues to provide integrated and competitive solutions as part of our "Automation for a Changing World".

SCARA Robot

DRS Series

- Excellent precision, linearity and verticality
- Sensor-less compliance control
- Multiple teaching methods and intuitive guidance

Applications

Consumer Electronics
Electronics/Electric | Food Processing
Rubber & Plastics | Metal Fabrication



Glue Dispensing



Screw Driving



Soldering



Inspection



Assembly/Pick-and-Place

Articulated Robot

DRV Series

- High flexibility
- Hollow wrist
- Multiple installations
- User-friendly interface

Applications

Consumer Electronics
Electronics/Electric | Food Processing
Rubber & Plastics | Metal Fabrication



Insertion



Screw Driving



Soldering



Inspection



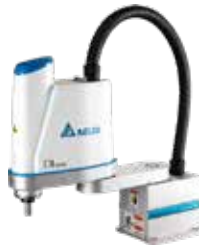

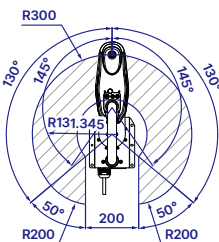
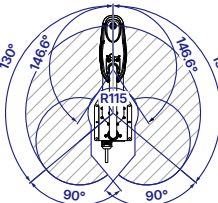
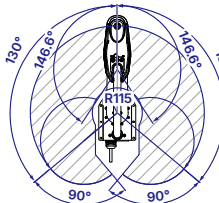
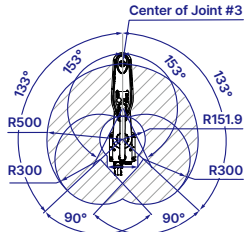


Pick-and-Place



Loading/Unloading

SCARA Robots

Model Name	DRS30L3SS1BN002	DRS40L3SS2BN005 ^{*4}	DRS40C4SS1BN002	DRS50L6SS2BN005
Image				
Range of Motion	 <p>J1 axis mechanical stopper position: $\pm 133^\circ$ J2 axis mechanical stopper position: $\pm 146.5^\circ$</p>	 <p>J1 axis mechanical stopper position: $\pm 133^\circ$ J2 axis mechanical stopper position: $\pm 148.3^\circ$</p>	 <p>J1 axis mechanical stopper position: $\pm 133^\circ$ J2 axis mechanical stopper position: $\pm 148.3^\circ$</p>	 <p>J1 axis mechanical stopper position: $\pm 135^\circ$ J2 axis mechanical stopper position: $\pm 155^\circ$</p>
Number of Axis	4			
Max. Working Range	300 mm	400 mm		500 mm
Rated / Max. Payload	1 kg / 3 kg		1 kg / 4 kg	2 kg / 6 kg
Motion Range	J1	$\pm 130^\circ$		$\pm 133^\circ$
	J2	$\pm 145^\circ$	$\pm 146.6^\circ$	
	J3	150 mm		200 mm (300 mm) ^{*3}
	J4	$\pm 360^\circ$		
	J5	-		
Max. Speed	J1	4,058 mm/s	5,370 mm/s	4,710 mm/s
	J2			
	J3	1,250 mm/s	1,200 mm/s	
	J4	1,875°/s	2,400°/s	
	J5	-		
Standard Cycle Time	0.39 s ^{*1}	0.37 s ^{*1}	0.42 s ^{*1}	0.34 s ^{*1}
Tolerant Inertia	Rated	0.0091 kg-m ²		0.03 kg-m ²
	Max.	0.075 kg-m ²		0.3 kg-m ²
Repeatability (J1 + J2)	± 0.010 mm		± 0.01 mm	± 0.015 mm
Rating	IP20			
Weight	16 kg			19 kg
Controller	DCS-1D00			





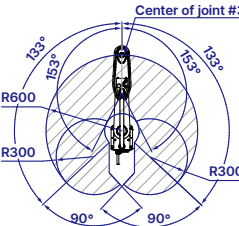
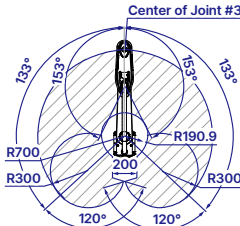
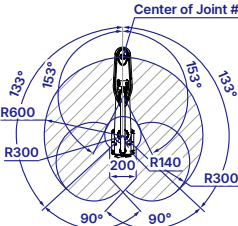
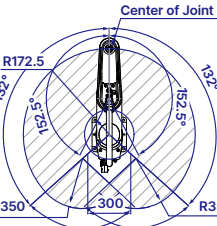
Notes: *1. When carrying a payload of 1 kg and reciprocating 25 mm in vertical and 300 mm in horizontal directions under an operating temperature of 25°C and within a humidity of 45~65% RH (non-condensing).

*2. When carrying a payload of 2 kg and reciprocating 25 mm in vertical and 300 mm in horizontal directions under an operating temperature of 25°C and within a humidity of 45~65% RH (non-condensing).





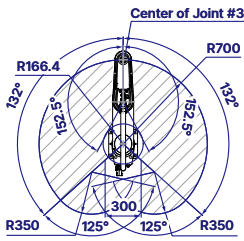
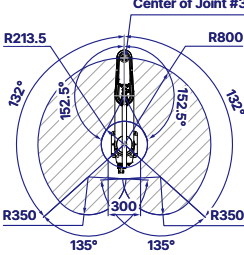
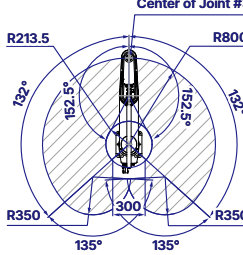
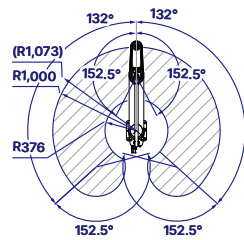
*3. Models with specific z-axis length

*4. Available in 2023 Q2

SCARA Robots




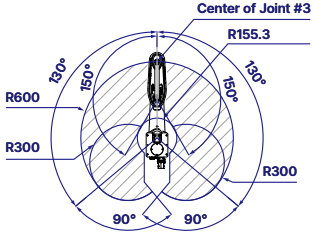
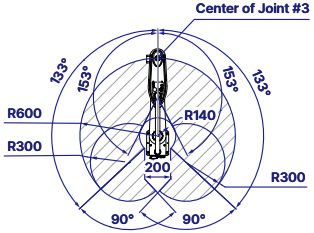
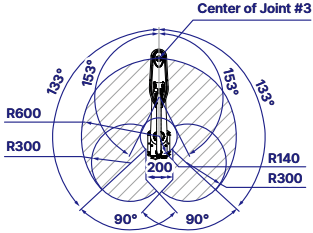
Model Name	DRS60L6SS2BN005	DRS70L6SS2BN005	DRS60C6SS1BN002	DRS60LCSS1BN002
Image				
Range of Motion	 <p>J1 axis mechanical stopper position: $\pm 135^\circ$ J2 axis mechanical stopper position: $\pm 155^\circ$</p>	 <p>J1 axis mechanical stopper position: $\pm 135^\circ$ J2 axis mechanical stopper position: $\pm 155^\circ$</p>	 <p>J1 axis mechanical stopper position: $\pm 135^\circ$ J2 axis mechanical stopper position: $\pm 155^\circ$</p>	 <p>J1 axis motion range: $\pm 132^\circ$ mechanical stopper position: $\pm 135^\circ$ J2 axis motion range: $\pm 152.5^\circ$ mechanical stopper position: $\pm 155^\circ$</p>
Number of Axis	4			
Max. Working Range	600 mm	700 mm	600 mm	600 mm
Rated/Max. Payload	2 kg / 6 kg		5 kg / 12 kg	
Motion Range	J1	$\pm 133^\circ$		$\pm 132^\circ$
	J2	$\pm 153^\circ$		$\pm 152.5^\circ$
	J3	200 mm (300 mm)*3		200 mm (420 mm)*3
	J4	$\pm 360^\circ$		
	J5	-		
Max. Speed	J1	6,000 mm/s	6,700 mm/s	5,000 mm/s
	J2	1,200 mm/s		1,180 mm/s (1,920 mm/s)*3
	J3	2,400°/s		2,000°/s
	J4	-		
	J5	-		
Standard Cycle Time	0.35 s*1	0.36 s*1	0.39 s*1	0.43 s*2
Tolerant Inertia	Rated	0.03 kg·m ²		0.02 kg·m ²
	Max.	0.3 kg·m ²		0.25 kg·m ²
Repeatability (J1 + J2)	± 0.015 mm			± 0.025 mm
Rating	IP20			
Weight	20 kg	21 kg	20 kg	42 kg
Controller	DCS-1D00			DCS-1M00

Notes: *1. When carrying a payload of 1 kg and reciprocating 25 mm in vertical and 300 mm in horizontal directions under an operating temperature of 25°C and within a
*2. When carrying a payload of 2 kg and reciprocating 25 mm in vertical and 300 mm in horizontal directions under an operating temperature of 25°C and within a
*3. Models with specific z-axis length

Model Name	DRS70LCSS1BN002	DRS80LCSS1BN002	DRS80LMSS1BN002	DRSA0LMSS1BN002	
Image					
Range of Motion	 <p>J1 axis motion range: $\pm 132^\circ$ mechanical stopper position: $\pm 135^\circ$ J2 axis motion range: $\pm 152.5^\circ$ mechanical stopper position: $\pm 155^\circ$</p>	 <p>J1 axis motion range: $\pm 132^\circ$ mechanical stopper position: $\pm 135^\circ$ J2 axis motion range: $\pm 152.5^\circ$ mechanical stopper position: $\pm 155^\circ$</p>	 <p>J1 axis motion range: $\pm 132^\circ$ mechanical stopper position: $\pm 135^\circ$ J2 axis motion range: $\pm 152.5^\circ$ mechanical stopper position: $\pm 155^\circ$</p>	 <p>J1 axis motion range: $\pm 132^\circ$ mechanical stopper position: $\pm 135^\circ$ J2 axis motion range: $\pm 152.5^\circ$ mechanical stopper position: $\pm 155^\circ$</p>	
Number of Axis	4				
Max. Working Range	700 mm	800 mm	800 mm	1,000 mm	
Rated /Max. Payload	5 kg /12 kg		10kg /22 kg		
Motion Range	J1	$\pm 132^\circ$			
	J2	$\pm 152.5^\circ$			
	J3	200 mm (420 mm)* ³			
	J4	$\pm 360^\circ$			
	J5	-			
Max. Speed	J1	7,700 mm/s	8,300 mm/s	8,820 mm/s	8,730 mm/s
	J2				
	J3	1,180 mm/s (1,920 mm/s)* ³		1,130 mm/s (1,790 mm/s)* ³	
	J4	1,025°/s		1,015°/s	
	J5	-			
Standard Cycle Time	0.45 s* ²	0.47 s* ²	0.42 s* ²	0.45 s* ²	
Tolerant Inertia	Rated	0.02 kg·m ²		0.05 kg·m ²	
	Max.	0.25 kg·m ²		0.45 kg·m ²	
Repeatability (J1 + J2)	± 0.025 mm				
Rating	IP20				
Weight	42 kg	43 kg		45 kg	
Controller	DCS-1M00				

humidity of 45~65% RH (non-condensing).
humidity of 45~65% RH (non-condensing).

SCARA Robots


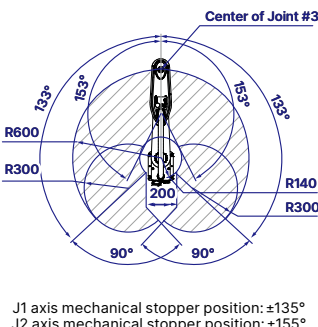
Model Name	DRS60H6SS1BN002	DRS60L3SS1BN502	DRS60L6SN1BN302
Image			
Range of Motion	 <p>J1 axis mechanical stopper position: $\pm 135^\circ$ J2 axis mechanical stopper position: $\pm 153^\circ$</p>	 <p>J1 axis mechanical stopper position: $\pm 135^\circ$ J2 axis mechanical stopper position: $\pm 155^\circ$</p>	 <p>J1 axis mechanical stopper position: $\pm 135^\circ$ J2 axis mechanical stopper position: $\pm 155^\circ$</p>
Number of Axes	4	5	3
Max. Working Range	600 mm		
Max. Payload	2 kg / 6 kg	1 kg / 3 kg	2 kg / 6 kg
Motion Range	J1	$\pm 130^\circ$	$\pm 133^\circ$
	J2	$\pm 150^\circ$	$\pm 153^\circ$
	J3	200 mm	
	J4	$\pm 360^\circ$	
	J5	-	$\pm 360^\circ$
Max. Speed	J1	5,000 mm/s	
	J2	5,000 mm/s	
	J3	1,050 mm/s	
	J4	2,000°/s	NA
	J5	-	600°/s
Standard Cycle Time	0.39 s*1	0.45 s*1	0.39 s*1
Tolerant Inertia	Rated	0.01 kg·m ²	0.01 kg·m ²
	Max.	0.08 kg·m ²	0.08 kg·m ²
Repeatability (J1 + J2)	± 0.015 mm	+/- 0.015 mm (J1+J2) +/- 0.01 mm (J5)	± 0.015 mm
IP Rating	IP20		
Weight	23 kg	21 kg	20 kg
Controller	DCS-1D00		

Notes: *1. When carrying a payload of 1 kg and reciprocating 25 mm in vertical and 300 mm in horizontal directions under an operating temperature of 25°C and within a humidity of 45~65% RH (non-condensing).

*2. When carrying a payload of 2 kg and reciprocating 25 mm in vertical and 300 mm in horizontal directions under an operating temperature of 25°C and within a humidity of 45~65% RH (non-condensing).




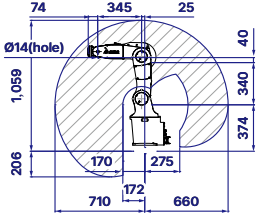
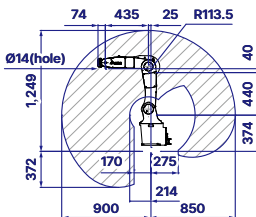
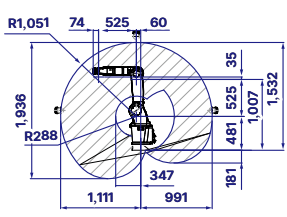
*3. Models with specific z-axis length




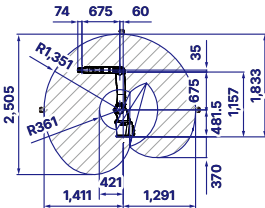
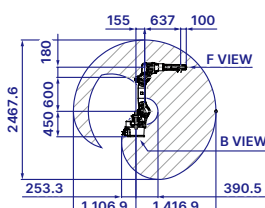
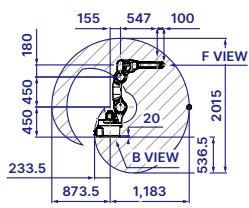
Screw Driving Robots

Model Name		RS-AFS60L _01	RS-AFS60L _02	RS-AFS60L _04	RS-AFS60L _05	RS-AFS60L _06	
		_ = Number of axis, A=3 axis, B=4 axis,					
Image							
Range of Motion		 <p>J1 axis mechanical stopper position: ±135° J2 axis mechanical stopper position: ±155°</p>					
Delta SCARA Robot	Max. Working Range		600 mm				
	Max. Speed	J1 + J2	5,000 mm / sec				
		J3	1,100 mm / sec				
		J4	600° / s (4-axis models only)				
	Range of Motion	J1	± 133°				
		J2	± 153°				
		J3	200 mm				
		J4	± 105° (4-axis models only)				
Repeatability	J1 + J2	± 0.015 mm					
	J3	± 0.01 mm					
	J4	± 0.01 mm (4-axis models only)					
Net Weight		20 kg					
Screw Driving Robot Module	Torque (kgf-cm)		0.5 ~ 1.8	1.5 ~ 9	6 ~ 25	10 ~ 43	
	Torque (N-m)		0.05 ~ 0.17	0.15 ~ 0.88	0.58 ~ 2.45	0.98 ~ 4.2	
	Max. Speed (rpm)	3-axis	2,000			1,200	1,000
		4-axis	1,200			1,000	600
	Dimensions (L×W×H, mm)		250×57×63			318×57×63	
	Weight (kg)		1	1.2		1.7	
Screw Size	Diameter	M1.2 - M2	M2 - M3		M2.5 - M4	M3 - M5	
	Bit	Ø4	Ø5	Hex 1/4"			
Ambient Temperature		5 °C ~ 40 °C					
Storage Temperature		-20 °C ~ 55 °C					
Humidity		0 ~ 90 %RH (non-condensing)					

Note: *Actual rotation speed affected by screw driving conditions







Articulated Robots

Model Name		DRV70L7A6313N	DRV90L7A6313N	DRVA1L7B6113N
Image				
Range of Motion				
Number of Axes		6		
Max. Working Range		710 mm	900 mm	1,111 mm
Max. Payload		7 kg		
Motion Range	J1	± 170°		
	J2	+ 133° / - 105°	+ 135° / - 105°	
	J3	+ 65° / - 205°		+ 62° / - 205°
	J4	± 190°		
	J5	± 120°		
	J6	± 360°		
Max. Speed	J1	450°/sec	370°/sec	240°/sec
	J2	340°/sec	260°/sec	220°/sec
	J3	510°/sec	410°/sec	295°/sec
	J4	550°/sec		465°/sec
	J5	550°/sec		480°/sec
	J6	820°/sec		705°/sec
Max. Resultant Speed		11,000 mm/sec	10,600 mm/sec	9,400 mm/sec
Standard Cycle Time		0.32 sec	0.35 sec	0.48 sec
Max. Tolerant Inertia	J4	0.47 kg-m ²		
	J5	0.47 kg-m ²		
	J6	0.15 kg-m ²		
Tolerant Torque	J4	16.6 N.m		
	J5	16.6 N.m		
	J6	9.4 N.m		
Repeatability		± 0.02 mm	± 0.03 mm	± 0.04 mm
IP Rating		IP40 (IP65 Optional)		IP65 (Standard)
Weight		37 kg	39 kg	76 kg
Controller		DCV - 2J00 - AA		DCV - 2J01 - AA

Model Name	DRVA4L7B6113N	DRVA1LCC6123N*	DRVA4LCC6123N*	
Image				
Range of Motion				
Number of Axes	6			
Max. Working Range	1,411 mm	1,183 mm	1,419 mm	
Max. Payload	7 Kg	12 Kg		
Motion Range	J1	±170°		
	J2	+135° / -105°		
	J3	+62° / -205°		
	J4	±190°		
	J5	±120°		
	J6	±360°		
Max. Speed	J1	200°/sec		
	J2	165°/sec	310°/sec	240°/sec
	J3	220°/sec	320°/sec	260°/sec
	J4	465°/sec	465°/sec	
	J5	480°/sec	470°/sec	
	J6	705°/sec	720°/sec	
Max. Resultant Speed	9,100 mm/sec	-		
Standard Cycle Time	0.54 sec	-		
Max. Tolerant Inertia	J4	0.47 kg·m ²	0.65 kg·m ²	
	J5	0.47 kg·m ²	0.65 kg·m ²	
	J6	0.15 kg·m ²	0.17 kg·m ²	
Tolerant Torque	J4	16.6 N.m	22 N.m	
	J5	16.6 N.m	22 N.m	
	J6	9.4 N.m	9.8 N.m	
Repeatability	±0.05 mm	±0.08 mm		
IP Rating	IP65 (Standard)	IP54 (body) + IP65 (wrist)		
Weight	82 kg	147 kg	153 kg	
Controller	DCV-2J01-AA	DCV-1K02-AA		

Note: *Available in 2023 Q2

Robot Controllers

Model Name	DCS-1D00	DCS-1M00	DCS-1L00-UA	DCS-1B00-CA DCS-1B00-UA	DCV-2J00-AA DCV-2J01-AA	DCV-1K02-AA
Appearance						
Phase / Voltage	Single-phase: 200-230 V _{AC} , 5A	Single-phase: 220 V _{AC} +PE, 10 A	Single-phase: 200-230 V _{AC} , 10 A		Single-phase: 200-230 V _{AC} +PE, 15 A	Single-phase: 200-230 V _{AC} +PE, 30 A
Control of Main Circuit	22-26 V _{DC} , 5 A		-			
Dimension (mm)	175 × 300 × 159		477 × 453 × 233	381 × 453 × 268	383 × 223 × 406	503 × 500 × 278
Weight (kg)	5.6		26	20	22	28
Communication Interfaces	Ethernet, DMCNET, RS-232, RS-485, I/O, Encoder, USB	Ethernet, DMCNET, RS-232, RS-485, I/O, Encoder, USB, Ext. Encoder	Ethernet, DMCNET, RS-232, RS-485, I/O, Encoder			
IP Rating	IP20					

Ordering Information

Model Name	Description	Note
SCARA Robot DRS Series		
DRS30L3SS1BN002	4 - axis, 400 mm arm length, 3 kg	Optional models with 5/10m cable*
DRS40L3SS2BN005	4 - axis, 400 mm arm length, 3 kg	Available in 2023 Q2. Optional models with 5/10 m cable
DRS40C4SS1BN002	4 - axis, 400 mm arm length, 4 kg	Optional models with 5/10m cable*
DRS50L6SS2BN005	4 - axis, 500 mm arm length, 6kg	Optional models with 5/10m cable and 200mm/300 mm Z-axis*
DRS60L6SS2BN005	4 - axis, 600mm arm length, 6kg	
DRS70L6SS2BN005	4 - axis, 700mm arm length, 6kg	
DRS60H6SS1BN002	4 - axis, 600mm arm length, 6 kg, ceiling type	Optional models with 5/10m cable*
DRS60C6SS1BN002	4 - axis, 600 mm arm length, 6kg	
DRS60L6SN1BN302	3 - axis, 600mm arm length, 6 kg	
DRS60L3SS1BN502	5 - axis, 600mm arm length, 3 kg	Optional models with 5/10m cable and 200mm/420 mm Z-axis*
DRS60LCSS1BN002	4 - axis, 600mm arm length, 12 kg	
DRS70LCSS1BN002	4 - axis, 700 mm arm length, 12 kg	
DRS80LCSS1BN002	4 - axis, 800mm arm length, 12 kg	
DRS80LMSS1BN002	4 - axis, 800mm arm length, 22kg	
DRSA0LMSS1BN002	4 - axis, 1,000mm arm length, 22kg	

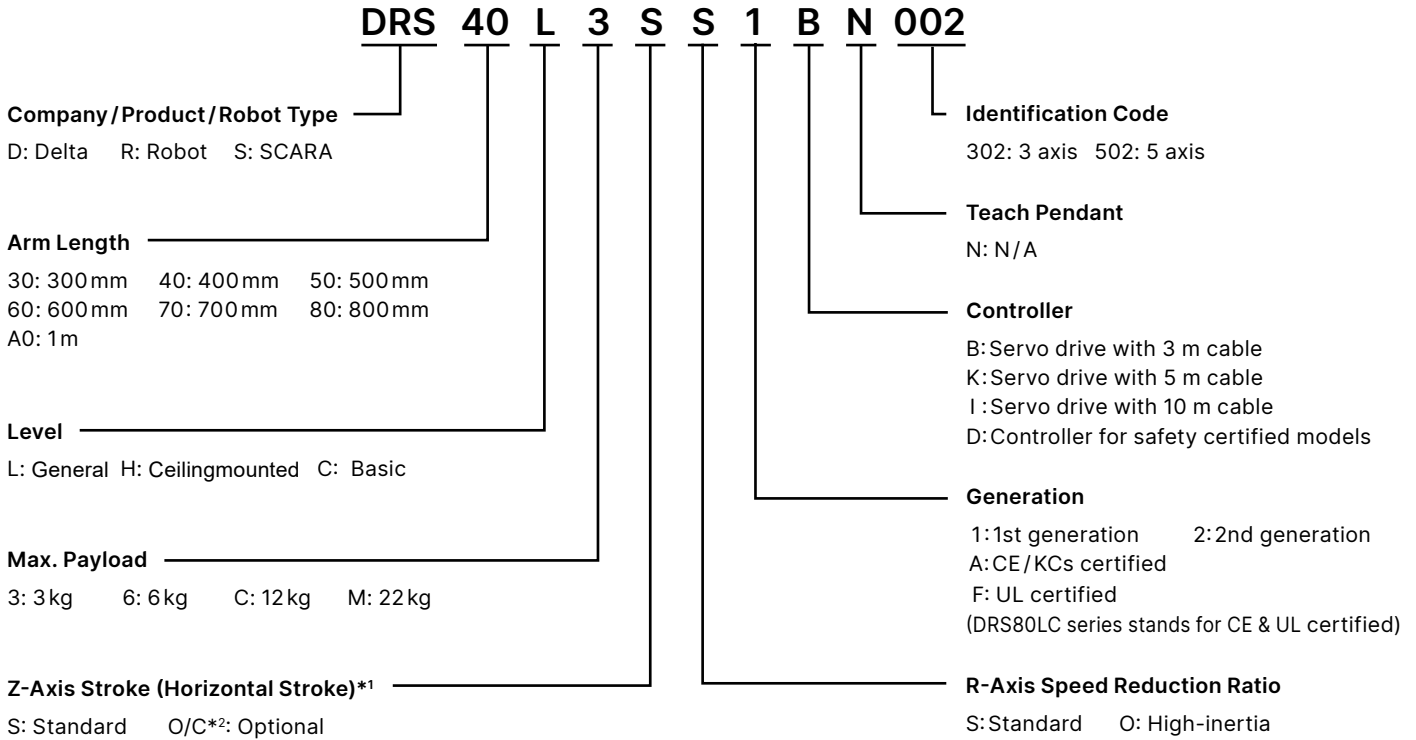
Note: *Please contact regional distributors for optional models

Ordering Information

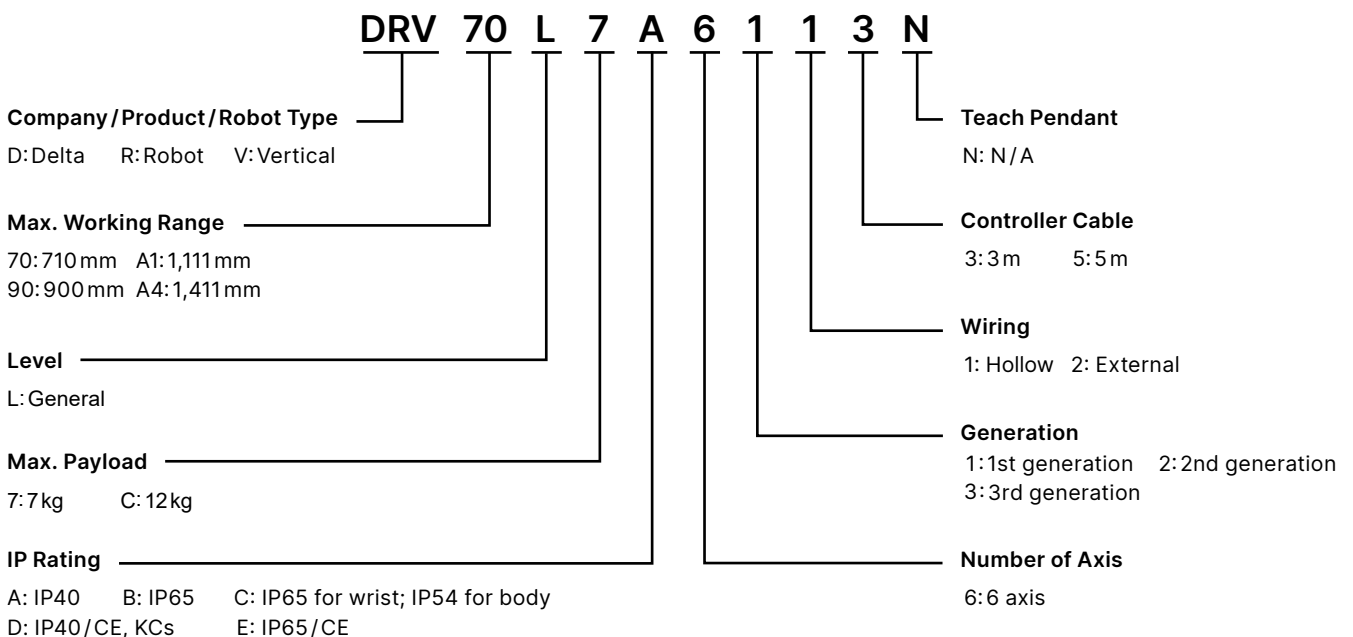
Model Name	Description	Note
SCARA Robot DRS Series		
DRS40L3SSADN003	4 - axis, 400 mm arm length, 3 kg, CE /KCs certified	
DRS50L6SSADN003	4 - axis, 500 mm arm length, 6 kg, CE /KCs certified	
DRS60L6SSADN003	4 - axis, 600 mm arm length, 6 kg, CE /KCs certified	
DRS70L6SSADN003	4 - axis, 700 mm arm length, 6 kg, CE /KCs certified	
DRS40L3SSFDDN003	4 - axis, 400 mm arm length, 3 kg, ULcertified	
DRS60L6SSFDDN003	4 - axis, 600 mm arm length, 6 kg, ULcertified	
DRS80LCSSFDDN002	4 - axis, 800 mm arm length, 12 kg, CE /ULcertified	Optional models with 5 /10m cable and 200 mm /420 mm Z-axis *
Articulated Robot DRV Series		
DRV70L7A6313N	6 - axis, 710 mm arm length, 7 kg, IP40	Optional models with 5 m cable*
DRV70L7B6213N	6 - axis, 710 mm arm length, 7 kg, IP65	
DRV90L7A6313N	6 - axis, 900 mm arm length, 7 kg, IP40	
DRV90L7B6213N	6 - axis, 900 mm arm length, 7 kg, I P65	
DRVA1L7B6113N	6 - axis, 1,111 mm arm length, 7 kg, IP65	Optional models with 5 m cable*
DRVA4L7B6113N	6 - axis, 1,411 mm arm length, 7 kg, IP65	
DRVA1LCC6123N	6-axis, 1,183 mm arm length, 12 kg, IP65 for wrist and IP54 for body	Available in 2023 Q2
DRVA4LCC6123N	6-axis, 1,419 mm arm length, 12 kg, IP65 for wrist and IP54 for body	
DRV70L7D6213N	6 - axis, 710 mm arm length, 7 kg, CE /KCs certified, IP40	
DRV90L7D6213N	6 - axis, 900 mm arm length, 7 kg, CE /KCs certified, IP40	
DRV70L7E6213N	6 - axis, 710 mm arm length, 7 kg, CE certified, IP65	
DRV90L7E6213N	6 - axis, 900 mm arm length, 7 kg, CE certified, IP65	
Screw Driving Robot RS Series		
RS-AFS60LA01	3 - axis SCARA, 600 mm arm length, torque 0.5 ~ 1.8 kgf.cm	Screwdriver Bit: Wing Ø4
RS-AFS60LA02	3 - axis SCARA, 600 mm arm length, torque 1.5 ~ 9 kgf.cm	Screwdriver Bit: Wing Ø5
RS-AFS60LA04	3 - axis SCARA, 600 mm arm length, torque 1.5 ~ 9 kgf.cm	Screwdriver Bit: Hex 1/4"
RS-AFS60LA05	3 - axis SCARA, 600 mm arm length, torque 6 ~ 25 kgf.cm	Screwdriver Bit: Hex 1/4"
RS-AFS60LA06	3 - axis SCARA, 600 mm arm length, torque 10 ~ 43 kgf.cm	Screwdriver Bit: Hex 1/4"
RS-AFS60LB01	4 - axis SCARA, 600 mm arm length, torque 0.5 ~ 1.8 kgf.cm	Screwdriver Bit: Wing Ø4
RS-AFS60LB02	4 - axis SCARA, 600 mm arm length, torque 1.5 ~ 9 kgf.cm	Screwdriver Bit: Wing Ø5
RS-AFS60LB04	4 - axis SCARA, 600 mm arm length, torque 1.5 ~ 9 kgf.cm	Screwdriver Bit: Hex 1/4"
RS-AFS60LB05	4 - axis SCARA, 600 mm arm length, torque 6 ~ 25 kgf.cm	Screwdriver Bit: Hex 1/4"
RS-AFS60LB06	4 - axis SCARA, 600 mm arm length, torque 10 ~ 43 kgf.cm	Screwdriver Bit: Hex 1/4"
Handheld Teaching Pendantsa		
DTS-3FD	TP for SCARA robots, 5 m cable, 21 keys	
DTS-3GD	TP for SCARA robots, 10 m cable, 21 keys	
DTS-2FM	TP for CE /CR certified SCARA robots, 5 m cable, 21 keys	
DTS-2GM	TP for CE /CR certified SCARA robots, 10 m cable, 21 keys	
DTV-2FM	TP for articulated robots, 5 m cable, 21 keys	
DTV-2GM	6-axis specific TP, 10 m cable, 21 keys	
Robot Applications		
DRSW-CVS1D01	Conveyor tracking software package for robots	
DRSW-OFS1D01	On-the-fly software package for robots	
DRSW-SCS1D01	Delta Robotic Simulation Platform DRASimuCAD	
Optional Accessories		
Optional expansion DI/O modules, connection cables, and expansion servo drives are available. Please refer to the catalogues of Delta SCARA Robot and Articulated Robot for detailed information.		

Note: *Please contact regional distributors for optional models

Model Explanation



Notes: *1. The Z-axis stroke length different depends on different models, please contact regional distributors for optional models information.
*2. Only for DRS60LC/DRS70LC/DRS80LC series



Global Operations

ASIA (Taiwan)



Taoyuan Technology Center (Green Building)



Taoyuan Plant 1



Tainan Plant (Diamond-rated Green Building)

ASIA (China)

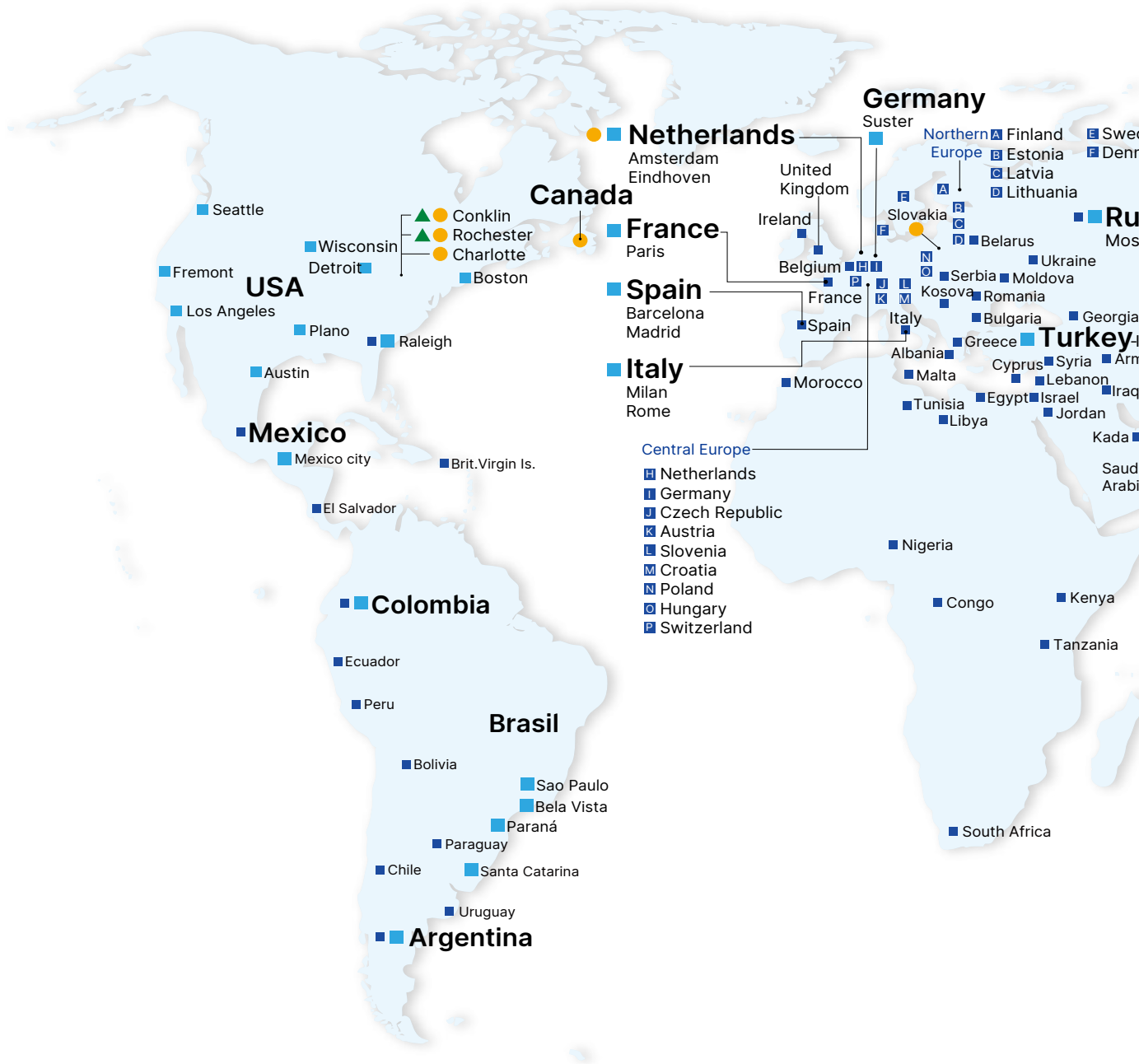


Wujiang Plant 3



Shanghai Office

▲ 10 Factories



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Tokyo Office

ASIA (India)



Rudrapur Plant
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EUROPE



Amsterdam, the Netherlands

AMERICA

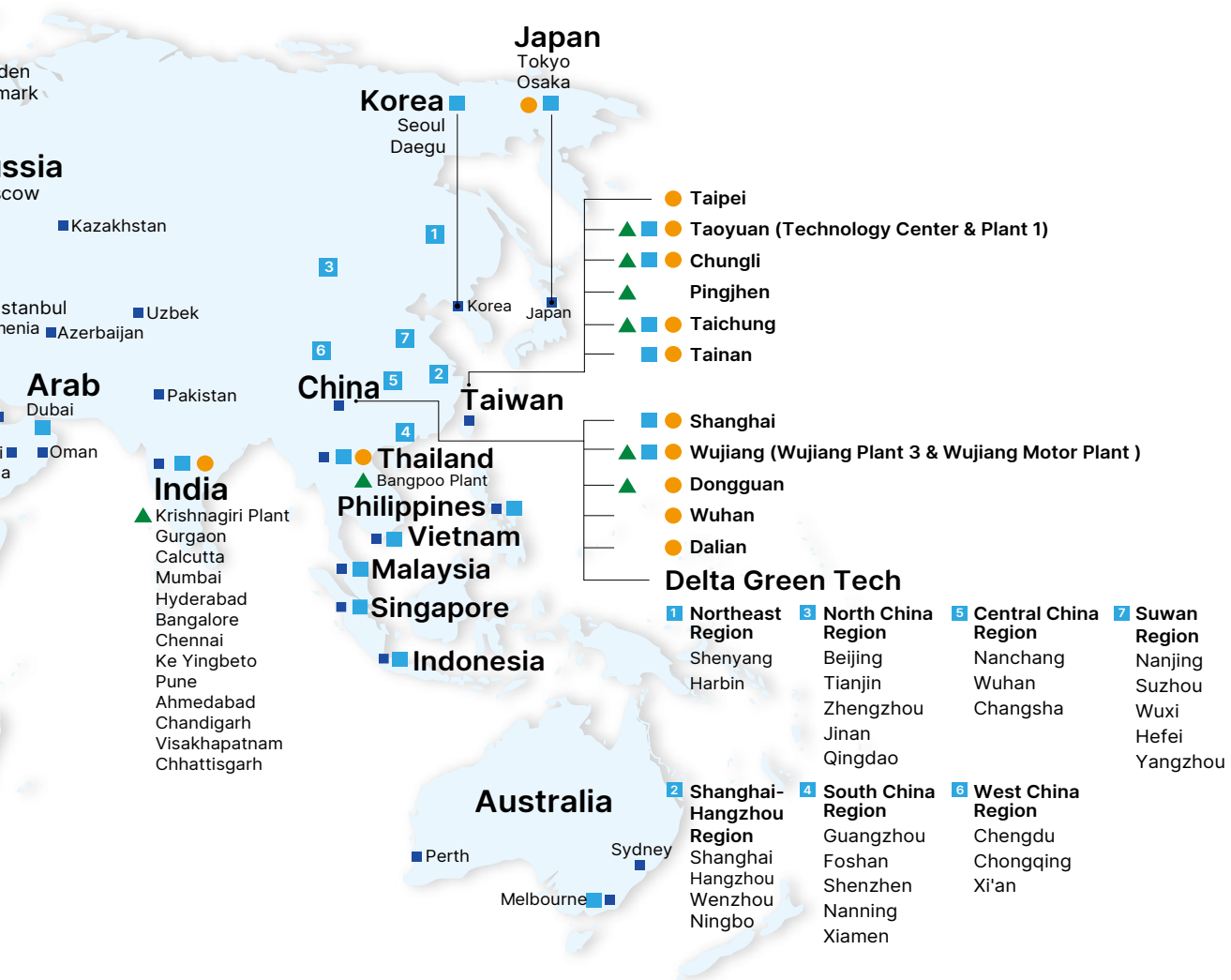


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