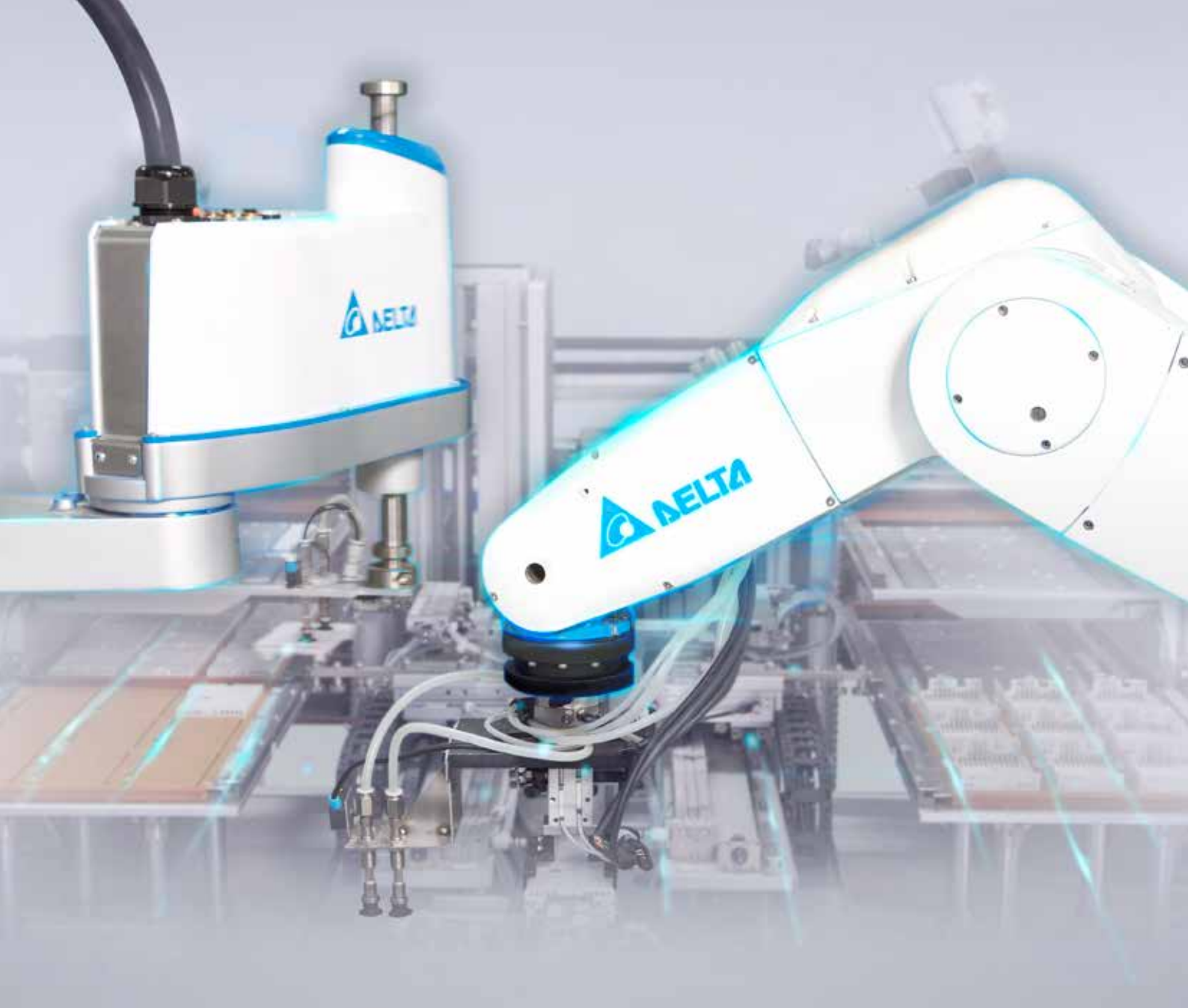




Digitized Automation for a Changing World

Delta Industrial Robots



www.deltaww.com



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

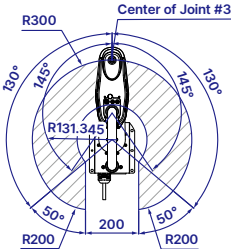
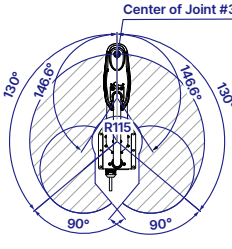
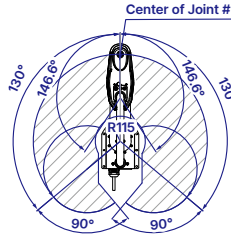
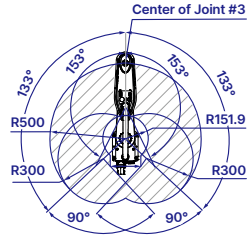


Pick-and-Place



Loading/Unloading

SCARA Robots

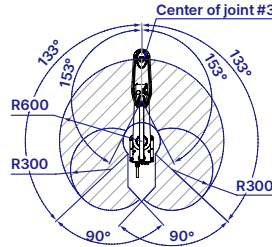
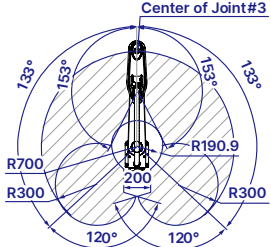
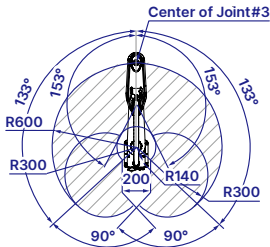
Model Name	DRS30L3SS1BN002	DRS40L3SS2BN005	DRS40C4SS1BN002	DRS50L6SS2BN005
Image				
Range of Motion	 J1 axis mechanical stopper position: $\pm 133^\circ$ J2 axis mechanical stopper position: $\pm 146.5^\circ$	 J1 axis mechanical stopper position: $\pm 133^\circ$ J2 axis mechanical stopper position: $\pm 148.3^\circ$	 J1 axis mechanical stopper position: $\pm 133^\circ$ J2 axis mechanical stopper position: $\pm 148.3^\circ$	 J1 axis mechanical stopper position: $\pm 135^\circ$ J2 axis mechanical stopper position: $\pm 155^\circ$
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/sec	5,650 mm/sec	4,710 mm/sec
	J2	4,058 mm/sec	5,650 mm/sec	5,400 mm/sec
	J3	1,250 mm/sec	1,450 mm/sec	1,250 mm/sec
	J4	1,875°/sec	2,970°/sec	1,875°/sec
	J5	-		
Standard Cycle Time	0.39 sec* ¹	0.37 sec* ¹	0.42 sec* ¹	0.38 sec* ²
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			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

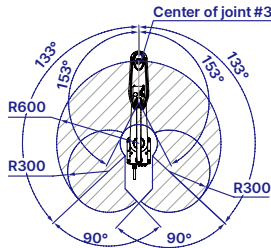
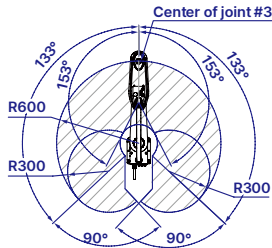
SCARA Robots

Model Name		DRS60L6SS2BN005	DRS70L6SS2BN005	DRS60C6SS1BN002
Image				
Range of Motion		 J1 axis mechanical stopper position:±135° J2 axis mechanical stopper position:±155°	 J1 axis mechanical stopper position:±135° J2 axis mechanical stopper position:±155°	 J1 axis mechanical stopper position:±135° J2 axis mechanical stopper position:±155°
Number of Axis		4		
Max. Working Range		600mm	700mm	600mm
Rated/Max. Payload		2kg/6kg		
Motion Range	J1	± 133°		
	J2	± 153°		
	J3	200mm (300mm)* ³		
	J4	± 360°		
	J5	-		
Max. Speed	J1	6,000mm/sec	6,700mm/sec	5,000mm/sec
	J2			
	J3	1,200mm/sec		1,050mm/sec
	J4	2,400°/sec		2,000°/sec
	J5	-		
Standard Cycle Time		0.38 sec* ²	0.39 sec* ²	0.42 sec* ²
Tolerant Inertia	Rated	0.03kg.m ²		0.01kg.m ²
	Max.	0.3kg.m ²		0.08kg.m ²
Repeatability (J1 + J2)		± 0.015mm		
Rating		IP20		
Weight		21kg	22kg	20kg
Controller		DCS-1D00		

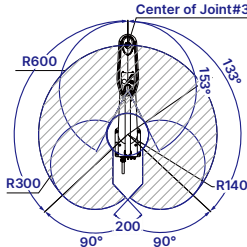
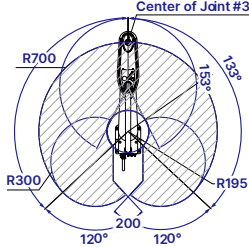
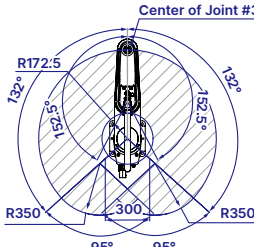
Notes: *1. When carrying a payload of 1 kg and reciprocating 25 mm in vertical and 300 mm in horizontal directions under an operating temperature of 25°C and within a humidity of 45~65% RH (non-condensing).

*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

Model Name		DRS60L6DS2BN005 NEW	DRS60L6SO1BN002
Image			
Range of Motion		 J1 axis mechanical stopper position: $\pm 135^\circ$ J2 axis mechanical stopper position: $\pm 155^\circ$	 J1 axis mechanical stopper position: $\pm 135^\circ$ J2 axis mechanical stopper position: $\pm 155^\circ$
Number of Axis		4	
Max. Working Range		600 mm	
Rated/Max. Payload		2 kg / 6 kg	
Motion Range	J1	$\pm 133^\circ$	
	J2	$\pm 153^\circ$	
	J3	500 mm	200 mm
	J4	$\pm 360^\circ$	
	J5	-	
Max. Speed	J1	6,000 mm/sec	
	J2	5,000 mm/sec	
	J3	1,200 mm/sec	1,100 mm/sec
	J4	2,400 °/sec	600 °/sec
	J5	-	
Standard Cycle Time		0.38 sec*2	0.42 sec*2
Tolerant Intertia	Rated	0.03 kg.m ²	0.07 kg.m ²
	Max.	0.3 kg.m ²	0.5 kg.m ²
Repeatability (J1 + J2)		± 0.015 mm	
Rating		IP20	
Weight		21 kg	20 kg
Controller		DCS-1D00	

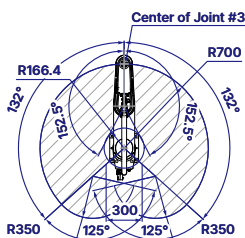
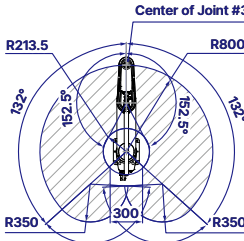
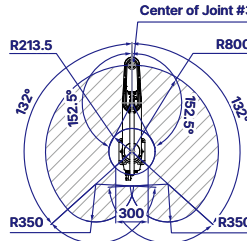
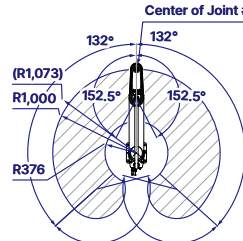
SCARA Robots

Model Name		DRS60LASS2BN005 NEW	DRS70LASS2BN005 NEW	DRS60LCSS1BN002
Image				
Range of Motion		 J1 axis mechanical stopper position: ±133° J2 axis mechanical stopper position: ±153°	 J1 axis mechanical stopper position: ±135° J2 axis mechanical stopper position: ±153°	 J1 axis mechanical stopper position: ±135° J2 axis mechanical stopper position: ±155°
Number of Axis		4		
Max. Working Range		600 mm	700 mm	600 mm
Rated/Max. Payload		2 kg/10 kg	2kg/10kg	5 kg/12 kg
Motion Range	J1	± 133°		± 132°
	J2	± 153°		± 152.5°
	J3	200 mm (300 mm)* ³		200 mm (420 mm)* ³
	J4	± 360°		± 360°
	J5	-		-
Max. Speed	J1	6,000 mm/sec	6,700 mm/sec	7,100 mm/sec
	J2			
	J3	1,200 mm/sec		1,200 mm/sec (1,920 mm/sec)* ³
	J4	2,400°/sec		1,025°/sec
	J5	-		
Standard Cycle Time		0.38 sec* ¹	0.38 sec* ¹	0.43 sec* 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		21 kg		42 kg
Controller		DCS-1D00		DCS-1M00

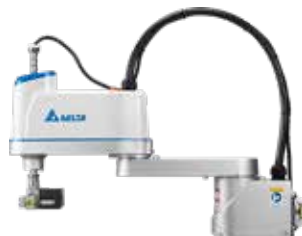
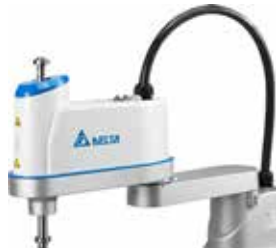
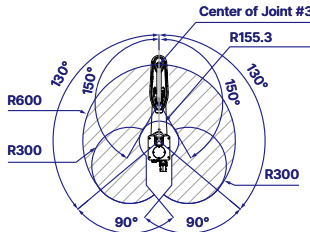
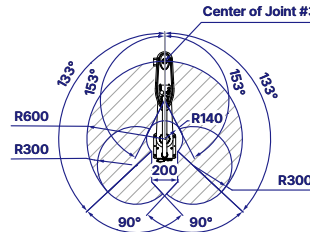
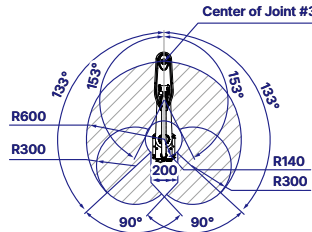
Notes: *1. When carrying a payload of 1 kg and reciprocating 25 mm in vertical and 300 mm in horizontal directions under an operating temperature of 25°C and within a humidity of 45~65% RH (non-condensing).

*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

Model Name		DRS70LCSS1BN002	DRS80LCSS1BN002	DRS80LMSS1BN002	DRSA0LMSS1BN002
Image					
Range of Motion		 J1 axis motion range: $\pm 132^\circ$ mechanical stopper position: $\pm 135^\circ$ J2 axis motion range: $\pm 152.5^\circ$ mechanical stopper position: $\pm 155^\circ$	 J1 axis motion range: $\pm 132^\circ$ mechanical stopper position: $\pm 135^\circ$ J2 axis motion range: $\pm 152.5^\circ$ mechanical stopper position: $\pm 155^\circ$	 J1 axis motion range: $\pm 132^\circ$ mechanical stopper position: $\pm 135^\circ$ J2 axis motion range: $\pm 152.5^\circ$ mechanical stopper position: $\pm 155^\circ$	 J1 axis motion range: $\pm 132^\circ$ mechanical stopper position: $\pm 135^\circ$ J2 axis motion range: $\pm 152.5^\circ$ mechanical stopper position: $\pm 155^\circ$
Number of Axis		4			
Max. Working Range		700 mm	800 mm	800 mm	1,000 mm
Rated/Max. Payload		5 kg/ 12 kg		10 kg/ 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/sec	8,300 mm/sec	8,820 mm/sec	8,730 mm/sec
	J2				
	J3	1,200 mm/sec (1,920 mm/sec)* ³	1,180 mm/sec (1,920 mm/sec)* ³	1,130 mm/sec (1,790 mm/sec)* ³	
	J4	1,025°/sec		1,015°/sec	
	J5	-			
Standard Cycle Time		0.45 sec* ²	0.47 sec* ²	0.42 sec* ²	0.45 sec* 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			

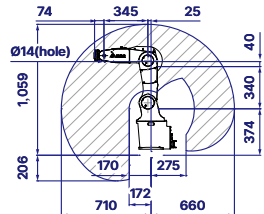
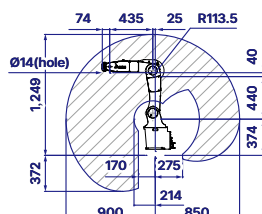
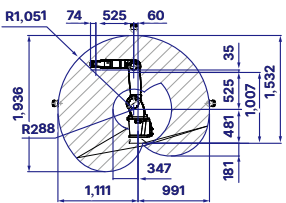
Screw Driving Robots

Model Name	DRS60H6SS1BN002	DRS60L3SS1BN502	DRS60L6SN1BN302	
Image				
Range of Motion	 J1 axis mechanical stopper position: ±135° J2 axis mechanical stopper position: ±153°	 J1 axis mechanical stopper position: ±135° J2 axis mechanical stopper position: ±155°	 J1 axis mechanical stopper position: ±135° J2 axis mechanical stopper position: ±155°	
Number of Axes	4	5	3	
Max. Working Range	600 mm			
Max. Payload	2 kg/6 kg	1kg/3kg	2 kg/6 kg	
Motion Range	J1	± 130°		
	J2	± 150°		
	J3	200 mm		
	J4	± 360°		
	J5	-	± 360°	-
Max. Speed	J1	5,000 mm/sec		
	J2	1,050 mm/sec		
	J3	2,000 °/sec		NA
	J4	600 °/sec		-
	J5	-	600 °/sec	-
Standard Cycle Time	0.39 sec*1	0.45 sec*1	0.39 sec*1	
Tolerant Inertia	Rated	0.01 kg.m ²	0.01 kg.m ²	NA
	Max.	0.08 kg.m ²	0.08 kg.m ²	NA
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			

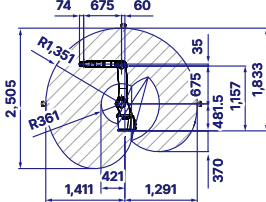
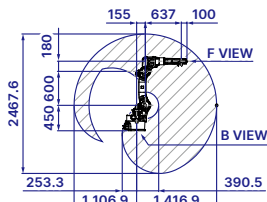
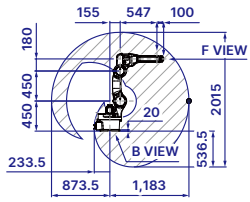
Notes:

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

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	$\pm 170^\circ$		
	J2	$+ 133^\circ / - 105^\circ$	$+ 135^\circ / - 105^\circ$	
	J3	$+ 65^\circ / - 205^\circ$		$+ 62^\circ / - 205^\circ$
	J4	$\pm 190^\circ$		
	J5	$\pm 120^\circ$		
	J6	$\pm 360^\circ$		
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

Articulated Robots

Model Name		DRVA4L7B6113N	DRVA1LCC6123N	DRVA4LCC6123N
Image				
Range of Motion				
Number of Axes		6		
Max. Working Range		1,411mm	1,183mm	1,419mm
Max. Payload		7kg	12kg	
Motion Range	J1	± 170°	±170°	
	J2	+ 135°/- 105°	+155°/- 90°	
	J3	+ 62°/- 205°	+85°/-150°	
	J4	± 190°	±200°	
	J5	± 120°	±150°	
	J6	± 360°	±455°	
Max. Speed	J1	200°/sec	260°/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		9,100mm/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	

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} , 5 A	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	Optional models with 5/10m cable*
DRS40C4SS1BN002	4 - axis, 400 mm arm length, 4 kg	Optional models with 5/10m cable*
DRS50L6SS2BN005	4 - axis, 500 mm arm length, 6 kg	Optional models with 5/10m cable and 200 mm/300 mm Z-axis*
DRS60L6SS2BN005	4 - axis, 600mm arm length, 6 kg	
DRS70L6SS2BN005	4 - axis, 700 mm arm length, 6 kg	Optional models with 5/10m cable*
DRS60H6SS1BN002	4 - axis, 600 mm arm length, 6 kg, ceiling type	
DRS60C6SS1BN002	4 - axis, 600 mm arm length, 6 kg	
DRS60L6SN1BN302	3 - axis, 600 mm arm length, 6 kg	500mm Z-axis length model
DRS60L3SS1BN502	5 - axis, 600 mm arm length, 3 kg	
DRS60L6DS2BN005 NEW	4 - axis, 600 mm arm length, 6 kg	High inertia model, Optional models with 5/10 m cable
DRS60L6SO1BN002	4 - axis, 600 mm arm length, 6 kg	
DRS60LASS2BN005 NEW	4 - axis, 600 mm arm length, 10 kg	Optional models with 5/10m cable and 200 mm/300 mm Z-axisec*
DRS70LASS2BN005 NEW	4 - axis, 700 mm arm length, 10 kg	
DRS60LCSS1BN002	4 - axis, 600 mm arm length, 12 kg	Optional models with 5/10m cable and 200 mm/420 mm Z-axisec*
DRS70LCSS1BN002	4 - axis, 700 mm arm length, 12 kg	
DRS80LCSS1BN002	4 - axis, 800 mm arm length, 12 kg	
DRS80LMSS1BN002	4 - axis, 800mm arm length, 22 kg	
DRSA0LMSS1BN002	4 - axis, 1,000mm arm length, 22 kg	

Note: *Please contact regional distributors for optional models

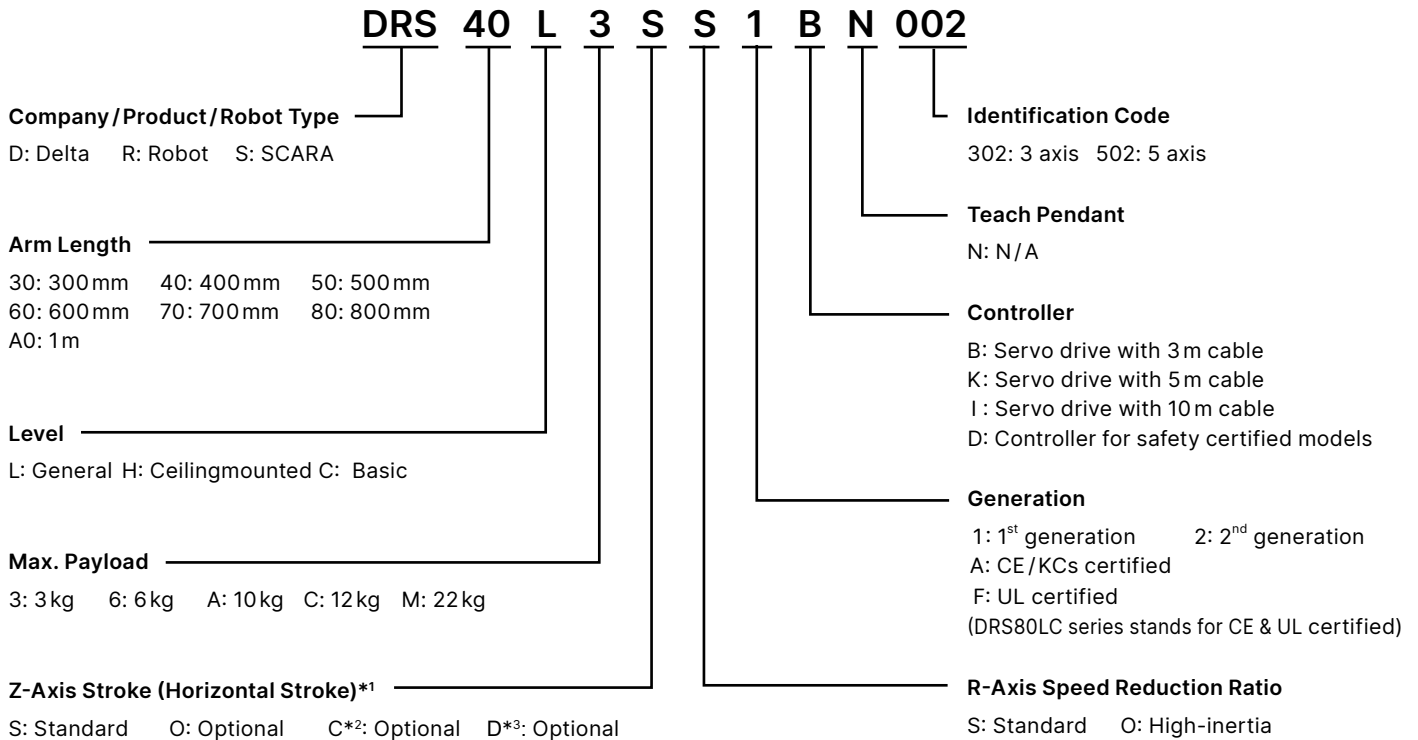
Ordering Information

Model Name	Description	Note
SCARA Robot DRS Series		
DRS40L3SSADN003	4 - axis, 400mm arm length, 3 kg, CE /KCs certified	
DRS50L6SSADN003	4 - axis, 500 mm arm length, 6 kg, CE /KCs certified	
DRS60L6SSADN003	4 - axis, 600mm arm length, 6 kg, CE /KCs certified	
DRS70L6SSADN003	4 - axis, 700mm arm length, 6 kg, CE /KCs certified	
DRS40L3SSFDN003	4 - axis, 400mm arm length, 3 kg, ULcertified	
DRS60L6SSFDN003	4 - axis, 600mm arm length, 6 kg, ULcertified	
DRS80LCSSFDN002	4 - axis, 800mm arm length, 12 kg, CE /ULcertified	Optional models with 5/10m cable and 200mm/420mm Z-axis*
Articulated Robot DRV Series		
DRV70L7A6313N	6 - axis, 710mm arm length, 7 kg, IP40	Optional models with 5 m cable*
DRV70L7B6213N	6 - axis, 710mm arm length, 7 kg, IP65	
DRV90L7A6313N	6 - axis, 900mm arm length, 7 kg, IP40	
DRV90L7B6213N	6 - axis, 900mm 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	
DRVA4LCC6123N	6-axis, 1,419mm 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	
Handheld Teaching Pendantsa		
DTS-3FD	TP for SCARA robots, 5m cable, 21keys	
DTS-3GD	TP for SCARA robots, 10m cable, 21keys	
DTS-2FM	TP for CE /CR certified SCARA robots, 5m cable, 21keys	
DTS-2GM	TP for CE /CR certified SCARA robots, 10m cable, 21keys	
DTV-2FM	TP for articulated robots, 5m cable, 21keys	
DTV-2GM	6-axis specific TP, 10m cable, 21keys	
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

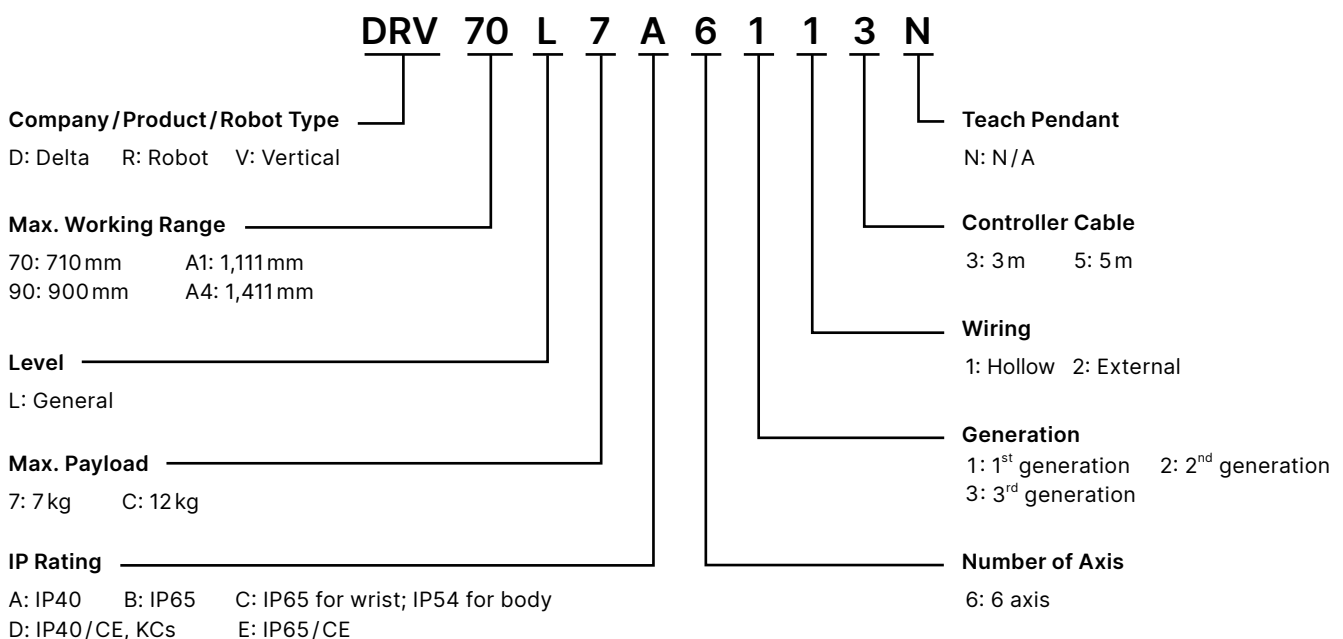
Model Explanation



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

*3. Only for DRS60L6DS2 series





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