

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




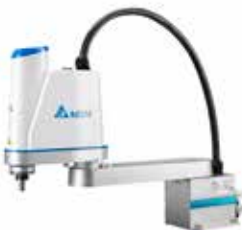
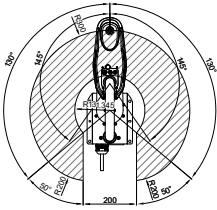
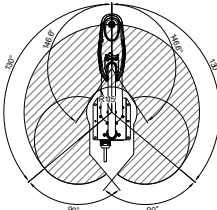
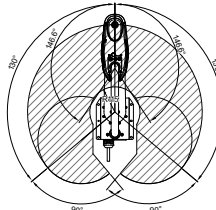
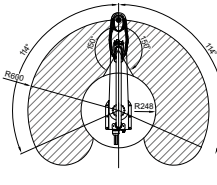


Pick-and-Place





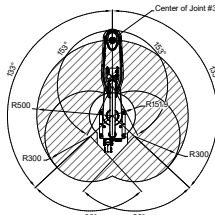
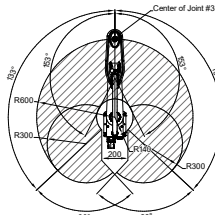
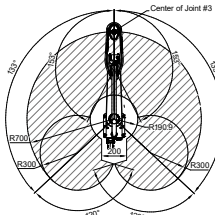
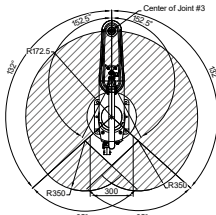


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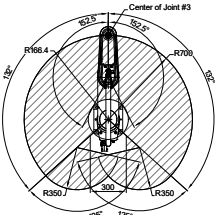
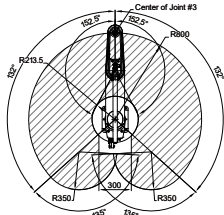
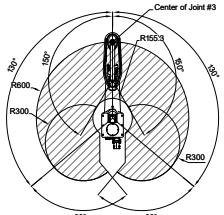
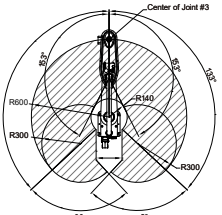
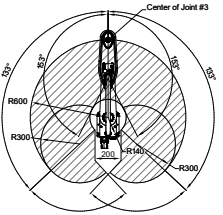
# SCARA Robots

| Model Name              | DRS30L3SS1BN002  | DRS40L3SS1BN002  | DRS40C4SS1BN002   | DRS60L3SS1BN002  |
|-------------------------|--|--|---|--|
| Image                   |   |   |   |   |
| Range of Motion         | <br>J1 axis mechanical stopper position: $\pm 133^\circ$<br>J2 axis mechanical stopper position: $\pm 146.5^\circ$ | <br>J1 axis mechanical stopper position: $\pm 133^\circ$<br>J2 axis mechanical stopper position: $\pm 148.3^\circ$ | <br>J1 axis mechanical stopper position: $\pm 133^\circ$<br>J2 axis mechanical stopper position: $\pm 148.3^\circ$ | <br>J1 axis mechanical stopper position: $\pm 114^\circ$<br>J2 axis mechanical stopper position: $\pm 150^\circ$ |
| Number of Axis          | 4  |  |   |  |
| Max. Working Range      | 300 mm   | 400 mm   |   | 600 mm   |
| Rated/Max. Payload      | 1 kg / 3 kg  |  | 1 kg / 4 kg   | 1 kg / 3 kg  |
| Motion Range            | J1   | $\pm 130^\circ$  |   | $\pm 114^\circ$  |
|                         | J2   | $\pm 145^\circ$  | $\pm 146.6^\circ$   | $\pm 148^\circ$  |
|                         | J3   | 150 mm   |   |  |
|                         | J4   | $\pm 360^\circ$  |   |  |
|                         | J5   | -  |   |  |
| Max. Speed              | J1   | 4,058 mm/s   | 4,710 mm/s  | 4,050 mm/s   |
|                         | J2   | 1,250 mm/s   |   | 1,250 mm/s   |
|                         | J3   | 1,250 mm/s   |   | 1,110 mm/s   |
|                         | J4   | 1,875°/s   |   |  |
|                         | J5   | -  |   |  |
| Standard Cycle Time     | 0.39s*1  | 0.42s*1  | 0.5s*1  | 0.72s*1  |
| Tolerant Inertia        | Rated  | 0.0091 kg-m <sup>2</sup>   |   | 0.0091 kg-m <sup>2</sup>   |
|                         | Max.   | 0.075 kg-m <sup>2</sup>  |   | 0.075 kg-m <sup>2</sup>  |
| Repeatability (J1 + J2) | $\pm 0.010$ mm   |  | $\pm 0.015$ mm  |  |
| Rating                  | IP20   |  |   |  |
| Weight                  | 16 kg  |  |   | 22 kg  |
| Controller              | DCS-1D00   |  |   |  |

# SCARA Robots


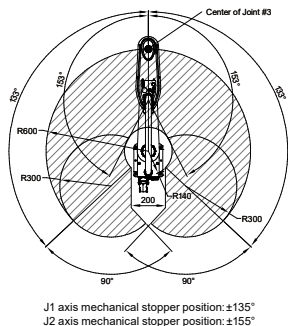
| Model Name              | DRS50L6SS1BN002  | DRS60L6SS1BN002  | DRS70L6SS1BN002   | DRS60LCSS1BN002  |
|-------------------------|--|--|---|--|
| Image                   |   |   |   |   |
| Range of Motion         | <br>J1 axis mechanical stopper position: $\pm 135^\circ$<br>J2 axis mechanical stopper position: $\pm 155^\circ$ | <br>J1 axis mechanical stopper position: $\pm 135^\circ$<br>J2 axis mechanical stopper position: $\pm 155^\circ$ | <br>J1 axis mechanical stopper position: $\pm 135^\circ$<br>J2 axis mechanical stopper position: $\pm 155^\circ$ | <br>J1 axis motion range: $\pm 132^\circ$<br>mechanical stopper position: $\pm 135^\circ$<br>J2 axis motion range: $\pm 152.5^\circ$<br>mechanical stopper position: $\pm 155^\circ$ |
| Number of Axes          | 4  |  |   |  |
| Max. Working Range      | 500 mm   | 600 mm   | 700 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)* <sup>3</sup>  |   | 200 mm (420 mm)* <sup>3</sup>  |
|                         | J4   | $\pm 360^\circ$  |   |  |
|                         | J5   | -  |   |  |
| Max. Speed              | J1   | 4,400 mm/s   | 5,000 mm/s  | 5,500 mm/s   |
|                         | J2   |  |   | 7,100 mm/s   |
|                         | J3   | 1,100 mm/s   |   | 1,180 mm/s   |
|                         | J4   | 2,000°/s (600°/s)* <sup>4</sup>  |   | 1,025°/s   |
|                         | J5   | -  |   |  |
| Standard Cycle Time     | 0.39 s* <sup>1</sup>   |  | 0.40 s* <sup>1</sup>  | 0.43 s* <sup>2</sup>   |
| Tolerant Inertia        | Rated  | 0.01 kg-m <sup>2</sup> (0.07 kg-m <sup>2</sup> )* <sup>4</sup>   |   | 0.02 kg-m <sup>2</sup>   |
|                         | Max.   | 0.023 kg-m <sup>2</sup> (0.5 kg-m <sup>2</sup> )* <sup>4</sup>   |   | 0.25 kg-m <sup>2</sup>   |
| Repeatability (J1 + J2) | $\pm 0.015$ mm   |  | $\pm 0.025$ mm  |  |
| Rating                  | IP20   |  |   |  |
| Weight                  | 18.5 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  
\*4. High inertia models

| DRS70LCSS1BN002  | DRS80LCSS1BN002  | DRS60H6SS1BN002  | DRS60L3SS1BN502   | DRS60L6SN1BN302  |
|--|--|--|---|--|
|   |   |   |   |   |
| <br>J1 axis motion range: $\pm 132^\circ$<br>mechanical stopper position: $\pm 135^\circ$<br>J2 axis motion range: $\pm 152.5^\circ$<br>mechanical stopper position: $\pm 155^\circ$ | <br>J1 axis motion range: $\pm 132^\circ$<br>mechanical stopper position: $\pm 135^\circ$<br>J2 axis motion range: $\pm 152.5^\circ$<br>mechanical stopper position: $\pm 155^\circ$ | <br>J1 axis mechanical stopper position: $\pm 135^\circ$<br>J2 axis mechanical stopper position: $\pm 153^\circ$ | <br>J1 axis mechanical stopper position: $\pm 135^\circ$<br>J2 axis mechanical stopper position: $\pm 155^\circ$ | <br>J1 axis mechanical stopper position: $\pm 135^\circ$<br>J2 axis mechanical stopper position: $\pm 155^\circ$ |
| 4  |  |  | 5   | 3  |
| 700 mm   | 800 mm   |  | 600 mm  |  |
| 5 kg/12 kg   |  | 2 kg/6 kg  | 1 kg/3 kg   | 2 kg/6 kg  |
| $\pm 132^\circ$  |  | $\pm 130^\circ$  | $\pm 133^\circ$   |  |
| $\pm 152.5^\circ$  |  | $\pm 150^\circ$  | $\pm 153^\circ$   |  |
| 200 mm (420 mm)*3  |  |  | 200 mm  |  |
| $\pm 360^\circ$  |  |  |   |  |
| -  |  |  | $\pm 360^\circ$   | -  |
| 7,700 mm/s   | 8,300 mm/s   |  | 5,000 mm/s  |  |
| 1,180 mm/s   |  |  | 1,100 mm/s  |  |
| 1,025°/s   |  |  | 2,000°/s  |  |
| -  |  |  | 600°/s  | -  |
| 0.45 s*2   | 0.47 s*2   | 0.39 s*1   | 0.45 s*1  | 0.39 s*1   |
| 0.02 kg-m <sup>2</sup>   |  | 0.01 kg-m <sup>2</sup>   |   | NA   |
| 0.25 kg-m <sup>2</sup>   |  | 0.023 kg-m <sup>2</sup>  |   | NA   |
| $\pm 0.025$ mm   |  | $\pm 0.015$ mm   |   |  |
|  |  | IP20   |   |  |
| 42 kg  | 43 kg  | 23 kg  | 21 kg   | 20 kg  |
| DCS-1M00   |  |  | DCS-1D00  |  |





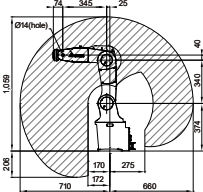
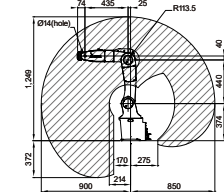
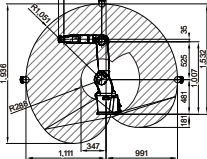
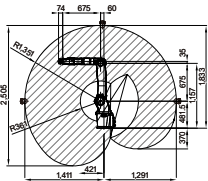
humidity of 45~65% RH (non-condensing).  
humidity of 45~65% RH (non-condensing).

# Screw Driving Robots

| Model Name                 |                        | RS-AFS60L<br>_01  | RS-AFS60L<br>_02            | RS-AFS60L<br>_04 | RS-AFS60L<br>_05 | RS-AFS60L<br>_06 |       |
|----------------------------|------------------------|---|-----------------------------|------------------|------------------|------------------|-------|
|                            |                        | _ = Number of axis, A=3 axis, B=4 axis,   |                             |                  |                  |                  |       |
| Image                      |                        |   |                             |                  |                  |                  |       |
| Range of Motion            |                        |  |                             |                  |                  |                  |       |
| 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                     | 1.50~9           | 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)  |                             |                  |                  |                  |       |



# Articulated Robots

| Model Name            | DRV70L7A6313N  | DRV90L7A6313N  | DRVA1L7B6113N   | DRVA4L7B6113N  |          |
|-----------------------|--|--|---|--|----------|
| Image                 |   |   |   |   |          |
| Range of Motion       |  |  |  |  |          |
| Number of Axes        | 6  |  |   |  |          |
| Max. Working Range    | 710 mm   | 900 mm   | 1,111 mm  | 1,411 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   | 200°/sec |
|                       | J2   | 340°/sec   | 260°/sec  | 220°/sec   | 165°/sec |
|                       | J3   | 510°/sec   | 410°/sec  | 295°/sec   | 220°/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  | 9,100 mm/sec   |          |
| Standard Cycle Time   | 0.32 sec   | 0.35 sec   | 0.48 sec  | 0.54 sec   |          |
| Max. Tolerant Inertia | J4   | 0.47 kg·m <sup>2</sup>   |   |  |          |
|                       | J5   | 0.47 kg·m <sup>2</sup>   |   |  |          |
|                       | J6   | 0.15 kg·m <sup>2</sup>   |   |  |          |
| 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   | ± 0.05 mm  |          |
| IP Rating             | IP40 (IP65 Optional)   |  | IP65 (Standard)   |  |          |
| Weight                | 37 kg  | 39 kg  | 76 kg   | 82 kg  |          |
| Controller            | DCV-2J00-AA  |  | DCV-2J01-AA   |  |          |

# Robot Controllers

## DCS-1D00



- For Delta SCARA robots-general models
- IP20
- Single-phase : 200 - 230V<sub>AC</sub> + PE, 5A
- 22 - 26V<sub>DC</sub>, 5A
- Ethernet, DMCNET, RS-232, RS-485, I/O, Encoder, USB, Ext. Encoder
- W175 × H300 × D159 mm/5.6 kg

## DCS-1M00



- For Delta SCARA robots-high payload models
- IP20
- Single-phase : 200 - 230V<sub>AC</sub> + PE, 10A
- 22 - 26V<sub>DC</sub>, 5A
- Ethernet, DMCNET, RS-232, RS-485, I/O, Encoder, USB, Ext. Encoder
- W175 × H300 × D159 mm/5.6 kg

## DCS-1B00-CA



- For Delta SCARA robots-CE / CR / KCs certified models
- IP20
- Single-phase : 200 - 230V<sub>AC</sub> + PE, 10A
- Ethernet, DMCNET, RS - 232, RS - 485, I/O, Ext. Encoder
- W381 × H453 × D268 mm/20 kg

## DCV-2J00-AA DCV-2J01-AA



- For Delta articulated robots
- IP20
- Single-phase : 200 - 230V<sub>AC</sub> + PE, 15A
- Ethernet, DMCNET, RS - 232, RS - 485, I/O, Ext. Encoder
- W383 × H223 × D406 mm/22 kg

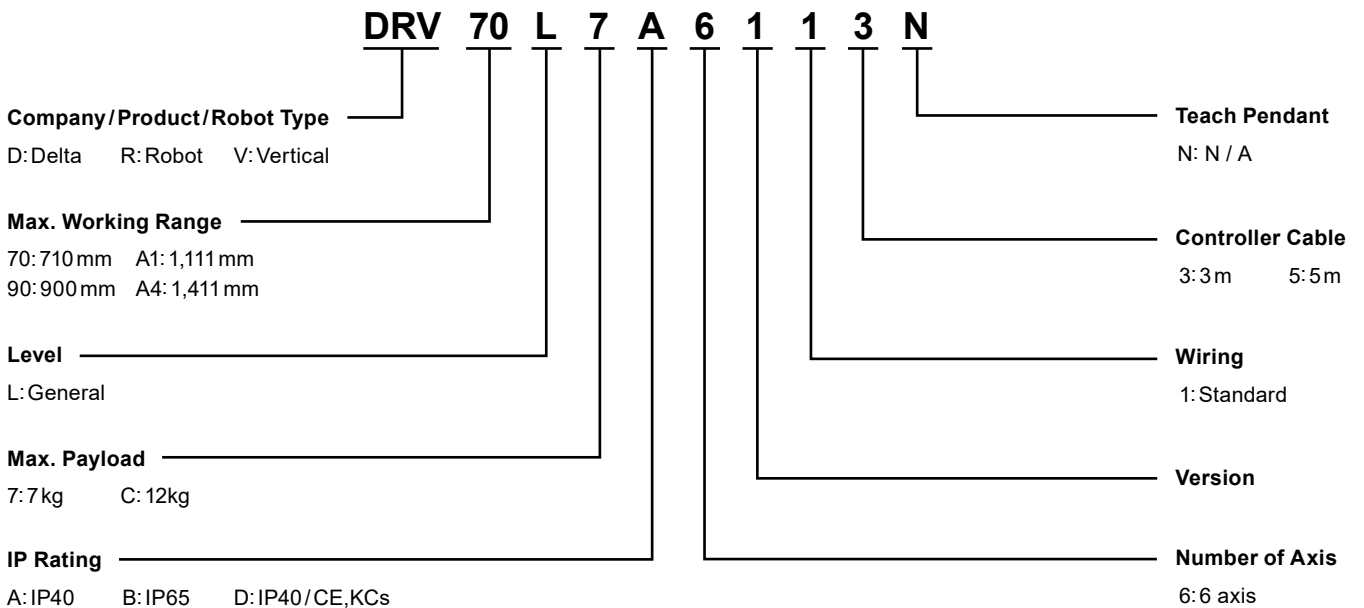
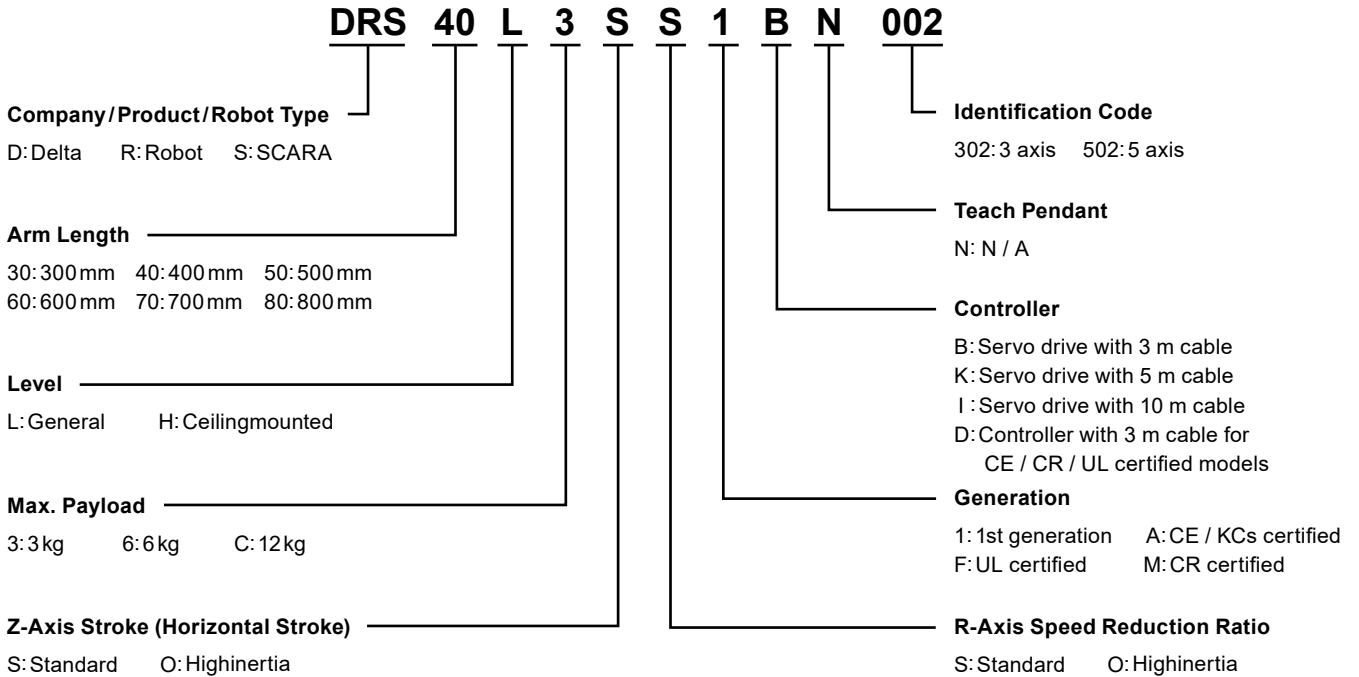


# Ordering Information

| Model Name  | Description  | Note   |
|---|--|--|
| <b>SCARA Robot DRS Series</b>   |  |  |
| <b>DRS40L3SS1BN002</b>  | 4-axis, 400 mm arm length, 3 kg                        | Optional models with 5/10m cable, CE/UL/CR/KCs certifications*1                                  |
| <b>DRS40L3SO1BN002</b>  | 4-axis, 400 mm arm length, 3 kg, high inertia          | Optional models with 5/10m cable   |
| <b>DRS60L3SS1BN002</b>  | 4-axis, 600 mm arm length, 3 kg                        |  |
| <b>DRS50L6SS1BN002</b>  | 4-axis, 500 mm arm length, 6 kg                        | Optional models with 5/10m cable, 200/300 mm Z-axis, high inertia, CE/UL/CR/KCs certifications*1 |
| <b>DRS60L6SS1BN002</b>  | 4-axis, 600 mm arm length, 6 kg                        |  |
| <b>DRS70L6SS1BN002</b>  | 4-axis, 700 mm arm length, 6 kg                        |  |
| <b>DRS60H6SS1BN002</b>  | 4-axis, 600 mm arm length, 6 kg, ceiling type          | Optional models with 5/10m cable   |
| <b>DRS60L6SN1BN302</b>  | 3-axis, 600 mm arm length, 6 kg                        |  |
| <b>DRS60L3SS1BN502</b>  | 5-axis, 600 mm arm length, 3 kg                        |  |
| <b>DRS60LCSS1BN002</b>  | 4-axis, 600 mm arm length, 12 kg                       | Optional models with 5/10m cable, 200/420 mm z-axis  |
| <b>DRS70LCSS1BN002</b>  | 4-axis, 700 mm arm length, 12 kg                       |  |
| <b>DRS80LCSS1BN002</b>  | 4-axis, 800 mm arm length, 12 kg                       |  |
| <b>Articulated Robot DRV Series</b>   |  |  |
| <b>DRV70L7A6313N</b>  | 6-axis, 710 mm arm length, 7 kg, IP40                  | Optional models with 5 m cable, CE/KCs certifications*1  |
| <b>DRV70L7B6213N</b>  | 6-axis, 710 mm arm length, 7 kg, IP65                  |  |
| <b>DRV90L7A6313N</b>  | 6-axis, 900 mm arm length, 7 kg, IP40                  |  |
| <b>DRV90L7B6213N</b>  | 6-axis, 900 mm arm length, 7 kg, IP65                  |  |
| <b>DRVA1L7B6113N</b>  | 6-axis, 1,100 mm arm length, 7 kg, IP65                | Optional models with 5 m cable   |
| <b>DRVA4L7B6113N</b>  | 6-axis, 1,400 mm arm length, 7 kg, IP65                |  |
| <b>Screw Driving Robot RS Series</b>  |  |  |
| <b>RS-AFS60LA01</b>   | 3-axis SCARA, 600 mm arm length, torque 0.5~1.8 kgf.cm | Screwdriver Bit: Wing Ø4   |
| <b>RS-AFS60LA02</b>   | 3-axis SCARA, 600 mm arm length, torque 1.5~9 kgf.cm   | Screwdriver Bit: Wing Ø5   |
| <b>RS-AFS60LA04</b>   | 3-axis SCARA, 600 mm arm length, torque 1.5~9 kgf.cm   | Screwdriver Bit: Hex 1/4"  |
| <b>RS-AFS60LA05</b>   | 3-axis SCARA, 600 mm arm length, torque 6~25 kgf.cm    | Screwdriver Bit: Hex 1/4"  |
| <b>RS-AFS60LA06</b>   | 3-axis SCARA, 600 mm arm length, torque 10~43 kgf.cm   | Screwdriver Bit: Hex 1/4"  |
| <b>RS-AFS60LB01</b>   | 4-axis SCARA, 600 mm arm length, torque 0.5~1.8 kgf.cm | Screwdriver Bit: Wing Ø4   |
| <b>RS-AFS60LB02</b>   | 4-axis SCARA, 600 mm arm length, torque 1.5~9 kgf.cm   | Screwdriver Bit: Wing Ø5   |
| <b>RS-AFS60LB04</b>   | 4-axis SCARA, 600 mm arm length, torque 1.5~9 kgf.cm   | Screwdriver Bit: Hex 1/4"  |
| <b>RS-AFS60LB05</b>   | 4-axis SCARA, 600 mm arm length, torque 6~25 kgf.cm    | Screwdriver Bit: Hex 1/4"  |
| <b>RS-AFS60LB06</b>   | 4-axis SCARA, 600 mm arm length, torque 10~43 kgf.cm   | Screwdriver Bit: Hex 1/4"  |
| <b>Handheld Teaching Pendants</b>   |  |  |
| <b>DTS-3FD</b>  | TP for SCARA robots, 5m cable, 21 keys                 |  |
| <b>DTS-2FM</b>  | TP for CE/CR certified SCARA robots, 5m cable, 21 keys |  |
| <b>DTV-2FM</b>  | TP for articulated robots, 5m cable, 21 keys           |  |
| <b>Robot Applications</b>   |  |  |
| <b>DRSW-CVS1D01</b>   | Conveyor tracking software package for robots          |  |
| <b>DRSW-OFS1D01</b>   | On-the-fly software package for robots                 |  |
| <b>DRSW-SCS1D01</b>   | Delta Robotic Simulation Platform DRASimuCAD           |  |
| <b>Optional Accessories</b>   |  |  |
| 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. |  |  |

\*Please contact regional distributors for optional models  
\*1: For the certification type model, only support 3M cable

# Model Explanation





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Smarter. Greener. Together.

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