

Automation for a Changing World

Delta SCARA Robots





Smart Robot for Upgraded Industries

Current trends affecting manufacturing industries include labor shortage, harsh environment, short commodity cycles, small-volume and large variety orders, and frequent changeovers. In response, production lines need more smart, agile and flexible workstations. For example, electronics manufacturing processes have to be executed fast and precisely to shorten time and enhance efficiency. Delta's Selective Compliance Assembly Robot Arm (SCARA) is your best choice to reduce labor cost and strengthen manufacturing flexibility.

Delta SCARA features sensor-less compliance control functions and offers excellent speed, linearity, verticality and repeatability to rapidly and precisely perform operation tasks such as insertion, assembly, screw locking, loading and unloading, pick-and-place, stacking and packaging. The automatic process path planning function fulfills industry needs for conveyor tracking processes such as glue dispensing, deburring, coating and soldering. With the aid of Delta's machine vision systems, it can perform smart identification, inspection and sorting to effectively reduce defect rates for consistent quality delivery.

When matched with control units and other peripheral devices such as servo systems, machine vision systems and linear modules, Delta SCARA becomes a highly integrated workstation for industries such as consumer electronics, electrical/electronics, rubber and plastics, packaging, metal fabrication and others. It satisfies both standalone and workstation applications, enabling flexible modularized production lines with consistently good quality to achieve smart and efficient production.

A new industrial revolution is moving towards smart manufacturing and factories. To meet customers' needs, Delta continues to provide innovative and efficient robot solutions as part of our "Automation for a Changing World".





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Successful Applications

Delta SCARA has been successfully applied to improve production line efficiency and yield rates for consistent quality delivery

Industries: Electrical/electronics, rubber and plastics, packaging, and metal fabrication **Applications:** Insertion, screw locking, assembly, glue dispensing, coating, soldering, load and unload, pick-and-place, stacking, packaging, and inspection



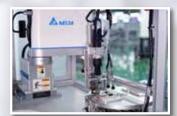
Product Inspection



Soldering



Glue Dispensing



Screw Locking



Touch Screen Inspection



Specifications SCARA Robots

DRS40L Series

Mod	lel	DRS40L3SS1BN002 DRS40L3SSADN003	DRS40L3SO1BN002				
Number	of Axes	4	4				
Installa	ation	Table-top					
Arm Lengtl	h(X+Y)	400	mm				
Rated / Max	. Payload	1 kg /	/ 3 kg				
	J1 + J2	4710 m	m / sec				
Maximum Speed	J3	1250 m	m / sec				
	J4	1875° / sec	625° / sec				
	J1	±13	30°				
Range of	J2	±14	6.6°				
Motion	J3	150	150 mm				
	J4	±36	60°				
Standard Cy	cle Time *	0.42	sec				
	J1 + J2	±0.01	1 mm				
Repeatability	J3	±0.01	1 mm				
	J4	±0.	01°				
Rated / Max. Pu	ısh Force (J3)	100 / 3	250N				
Rated/ Max. Allo Momen		0.0091 kg-m ²	0.055 kg-m ²				
User W	/iring	15 Pin	D-Sub				
User Tu	ubing	ø4 mm x 2, ø6 mm x 1					
Weight (Withou	ut Controller)	16 kg					
	Ambient Temperature	5°C ~	40°C				
Environment	Storage Temperature	-25°C -	~ 55°C				
	Humidity	0 ~ 90% RH (no	on-condensing)				

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

Ordering Information

DRS40L Series

DRS	40	L	3	S	S	1	В	N	002
Company/ Product/ Robot Type	Arm Length	Level	Max. Payload	Z-Axis Stroke (Horizontal Stroke)	R-Axis Speed Reduction Ratio		Controller	Teach Pendant	Identification
D : DELTA R : Robot S : SCARA	40 : 400 mm	L : Lite	3:3 kg	S : 150 mm	(1/16) O : Ontional	A : CE 1: 1st Generation	B : Servo drive (Cable length 3 m) K : Servo drive (Cable length 5 m) D: CE controller(Cable length 3m)	N : Non	002 : Standard 4 Axes 003 : CE model 4 Axes

DRS60L Series

Model		DRS60L6SN1BN302	DRS60L6SO1BN002	DRS60L6OS1BN002	DRS60L6SS1BN002/ DRS60L6SSADN003	DRS60L3SSS1BN502	DRS60L3SS1BN002				
Number of Axes		3	4	4	4	5	4				
Installa	ation	Table-top									
Arm Length	n (X+Y)		600 mm								
Rated / Max	. Payload		2 kg	/ 6 kg		1 kg	/ 3 kg				
	J1 + J2			5000 mm / sec			4050 mm / sec				
Maximum	J3			1100 mm / sec			1250 mm / sec				
Speed	J4	N.A.	600° / sec		2000° / sec		1875° / sec				
	J5		N.	A.		600 ° / sec	N.A.				
	J1			±133°			±114°				
	J2			±153°		±148°					
Range of Motion	J3	200	mm	300 mm	200	mm	150 mm				
	J4	N.A.									
	J5		±360°	N.A.							
Standard Cy	cle Time *		0.72 sec								
	J1 + J2			±0.015 mm			±0.015 mm				
Repeatability	J3			±0.01 mm			±0.01 mm				
Repeatability	J4	N.A.		±0.	01 °		±0.01°				
	J5		N.	A.		±0.01°	N.A.				
Rated / Max. Pu	sh Force (J3)		150 N	/ 350N		N.A	100N / 250N				
Rated/ Max. Allo Momen		N.A.	0.07 kg-m²		0.01 kg-m²		0.009 kg-m ²				
	ser Wiring 15 Pin D-Sub										
User Tu	ø4 mm x 1, ø6 mm x 2				ø4 mm x 2, ø6 mm x 1						
Weight (Withou	ut Controller)	20 kg 21 kg 22 kg									
Ambient Temperature Storage Temperature Humidity			5°C ~ 40°C -25°C ~ 55°C								
				0 ~ 90% RH (n	on-condensing)						

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

Ordering Information

DRS60L Series

DRS	60	L	6	S	S	1	В	N	002
Company/ Product/ Robot Type	Arm Length	Level	Max. Payload	Z-Axis Stroke (Horizontal Stroke)	R-Axis Speed Reduction Ratio	Generation	Controller	Teach Pendant	Identification
D : DELTA R : Robot S : SCARA	60 : 600 mm	L : Lite		S : 200 mm O : 300 mm	N : Non	1: 1st	B : Servo drive (Cable length 3 m) K : Servo drive (Cable length 5 m) D: CE controller(Cable length 3m)	N : Non	002 : Standard 4 Axes 302 : 3 Axes 502 : 5 Axes 003 : CE 4 Axes



Specifications SCARA Robots

DRS50 / 70L Series

Mod	el	DRS50L6SS1BN002	DRS50L6SO1BN002	DRS50L6OS1BN002	DRS70LSS1BN002	DRS70L3SO1BN002	DRS70L3OS1BN002				
Number o	of Axes	4									
Installa	ation	Table-top									
Arm Length	n (X+Y)		500 mm			700 mm					
Rated / Max	. Payload	2 kg / 6 kg									
	J1 + J2		4400 mm / sec			5500 mm / sec					
Maximum Speed	J3			1100 m	m / sec						
	J4	2000° / sec	600° / sec	2000° / sec	2000° / sec	600° / sec	2000° / sec				
	J1			±13	33°						
Range of	J2		±153°								
Motion	J3	200 mm	200 mm	300 mm	200 mm	200 mm	300 mm				
	J4	±360°									
Standard Cy	cle Time *	0.39 sec 0.40 sec									
	J1 + J2	±0.015 mm									
Repeatability	J3	±0.01 mm									
	J4	±0.01°									
Rated / Max. Pu	sh Force (J3)			150 N /	350 N						
Rated/ Max. Allo Momen		0.01 kg-m ²	0.07 kg-m ²	0.01 kg-m ²	0.01 kg-m ²	0.07 kg-m ²	0.01 kg-m ²				
User W	iring	15 Pin D-Sub									
User Tu	ıbing			ø4 mm x 2,	ø6 mm x 2						
Weight (Withou	ıt Controller)	18.5 kg 20 kg									
	Ambient Temperature			5°C ~	40°C						
Environment	Storage Temperature			-25°C	~ 55°C						
Humidity				0 ~ 90% RH (no	on-condensing)						

^{*}When carrying a payload of 1kg and reciprocating 25mm in vertical and 300mm in horizontal directions under an operating temperature of 25°C and within a humidity of $45\% \sim 65\%$ RH (non-condensing).

Ordering Information

DRS50 / 70L Series

DRS	50/70	L	6	S	S	1	В	N	002
Company/ Product/ Robot Type	Arm Length	Leve	Max. Payload	Z-Axis Stroke (Horizontal Stroke)	R-Axis Speed Reduction Ratio	Generation	Controller	Teach Pendant	Identification
D : DELTA R : Robot S : SCARA	50 : 500mm 70 : 700mm	L : Lite	6 : 6 kg	S : 200 mm O : 300 mm	S : Standard (1/15) O : Optional (1/50)	A : CE 1: 1st Generation	B : Servo drive (Cable length 3 m) K : Servo drive (Cable length 5 m)	N : Non	002 : Standard 4 Axes

DRS60H Series (To be launched)

Mode	el	DRS60H6SS1BN002
Number o	of Axes	4
Installa	ition	Ceiling mounted
Arm Length	(X+Y)	600 mm
Rated / Max	. Payload	2 kg / 6 kg
	J1 + J2	5000 mm /s ec
Maximum Speed	J3	1100 mm / sec
	J4	2000° / sec
	J1	±130°
Range of	J2	±150°
Motion	J3	200 mm
	J4	±360°
Standard Cy	cle Time *	0.39 sec
	J1 + J2	±0.015 mm
Repeatability	J3	±0.01 mm
	J4	±0.01°
Rated / Max. Pu	sh Force (J3)	150 N / 350 N
Rated/ Max. Allo Momen		0.01 kg-m ²
User W	iring	15 Pin D-Sub
User Tu	bing	Ø4 mm x 1, Ø6 mm x 2
Weight (Withou	t Controller)	23 kg
	Ambient Temperature	5°C ~ 40°C
Environment	Storage Temperature	-25°C ~ 55°C
	Humidity	0 ~ 90% RH (non-condensing)

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

Ordering Information

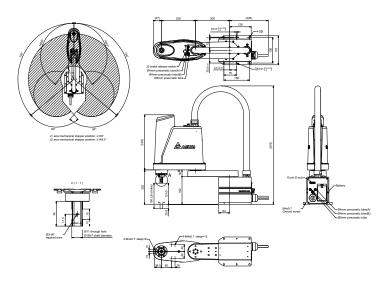
DRS60H Series

DRS	60	Н	6	S	S	1	В	N	002
Company/ Product/ Robot Type	Arm Length	Leve	Max. Payload	Z-Axis Stroke (Horizontal Stroke)		Generation	Controller	Teach Pendant	Identification
D : DELTA R : Robot S : SCARA	60 : 600 mm	H : Hang	6 : 6 kg	S: 200 mm	S : Standard (1/15)	1	B : Servo drive (Cable length 3 m) K : Servo drive (Cable length 5m)	N : Non	002 : Standard 4 Axes

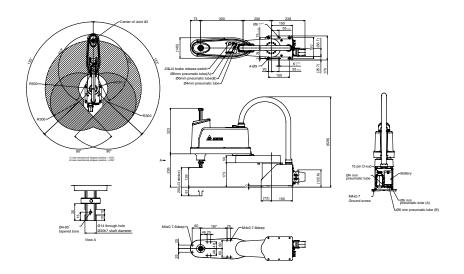


External Dimensions and Workable Space

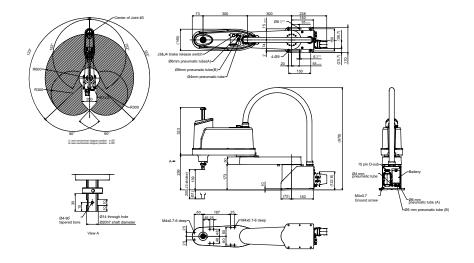
DRS40L Series



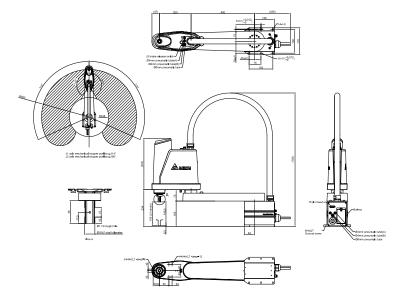
DRS50LSeries



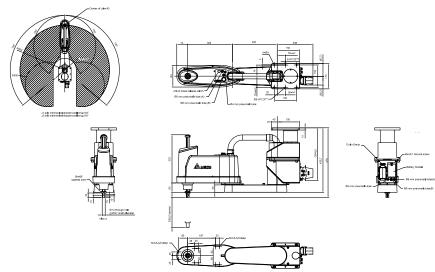
DRS60LSeries



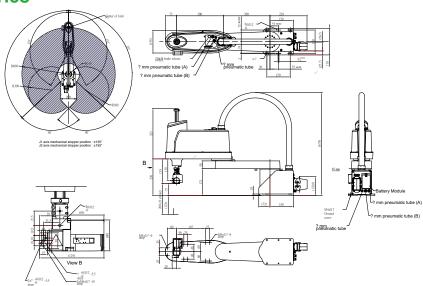
DRS60L3 Series



DRS60H Series

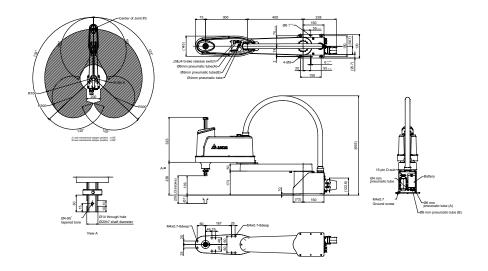


DRS60L3 5-axis series





DRS70L Series



External Dimensions and Workable Space

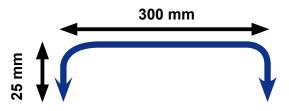
Series	Model Name		
DRS40L Series	DRS40L3SS1BN002 DRS40L3OS1BN002 DRS40L3SSADN003		
DRS60L Series	DRS60L6SS1BN002 DRS60L6SO1BN002 DRS60L6OS1BN002 DRS60L6SSADN003 DRS60L6SN1BN302		
DRS60H Series	DRS60H6SS1BN002		
DRS60L3 Series	DRS60L3SS1BN002		
DRS60L3 5 Axes	DRS60L3SS1BN502		
DRS50L Series	DRS50L6SS1BN002 DRS50L6SO1BN002 DRS50L6OS1BN002		
DRS70L Series	DRS70L6SS1BN002 DRS70L6SO1BN002 DRS70L6OS1BN002		

Product Features

High Repeatability, Excellent Precision, Linearity and Verticality



Product	Payload	Standard cycle time
DRS40L Series	1 kg	0.42 sec
DRS60L Series	1kg	0.39 sec

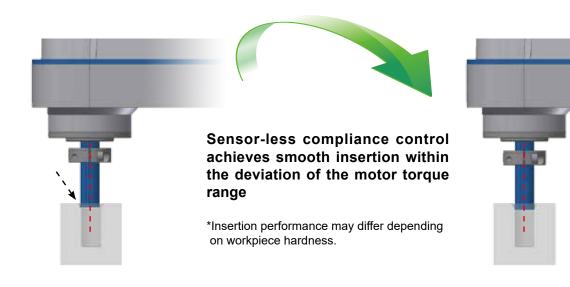


Product	DRS40L	DRS60L
Arm Length	400 mm	600 mm
Max. Payload (Payload)	3 kg	6 kg
Repeatability	±0.01 mm	±0.015 mm

Standard cycle time:

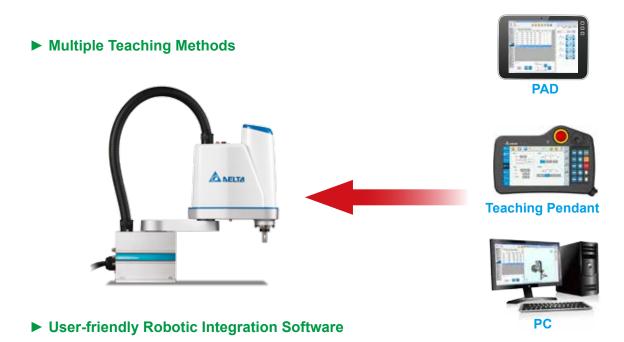
Time required for robot to move back and forth 300mm horizontally and 25mm vertically

Sensor-less Compliance Control Function

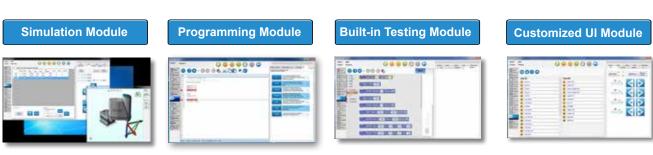




Simple and Easy Operation



- Built-in standard testing modules for quick testing (E.g. I/O points and motors)
- Standard modular program design for easy robot motion programming, high maintainability and low maintenance cost
- Integrates customer's UI tools to ensure the uniqueness and completeness of individual robotics systems



* UI = User Interface



▶ Direct Teaching (Lead by Hand)

Positions are directly taught and controlled by hand, and recorded by SCARA



Adopts Delta Machine Vision Systems DMV2000 / DMV1000

Robotic Integration Software

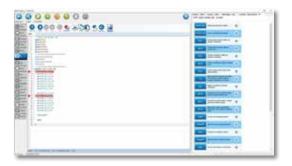
DRAStudio Features

- Easy programming for various applications
- Creates an offline simulation environment for robots
- Supports articulated robots operation



Friendly Programming Environment

- Quick and easy graphical programming
- Simplified programming languages and shorter commands to fulfill quick operation
- Integrates data and signals of peripheral devices to configure user-defined interface



Various Robot Motion Commands and Parameter Setting Environment

- Motion commands : MovJ, MovP, MovL, MovPR, MovLR, MArc, Mcircle, Lift
- Motion parameters : SpdJ, AccJ, DecJ, SpdL, AccL, DecL, Accur





Process Control Environment Setting

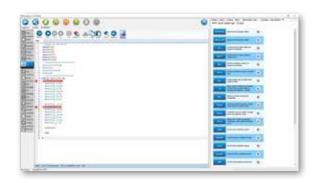
Process control commands: if...then...end, while...do...end, fordo...end, function, repeat





Coordinate System Environment Setting

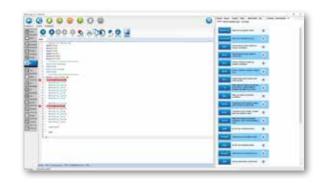
- Coordinate commands : SetUF, ChangeUF, SetTF, ChangeTF
- Positioning commands: SetGlobalPoint, CopyPoint, ReadPoint, WritePoint, RobotX, RobotY, RobotZ, RobotRz, RobotHand



Digital I/O Control Setting

Provides digital I/O control commands and monitoring





Coordinate System and Movement Recording Function

- Provides coordinate system (Joint / Tool / User / World) to teach robots movements
- Records real-time robot teaching movement for positioning verification





Workable Space Setting

- Up to 10 sets of 3D cylinder and rectangle shape workable space
- Limit robotic movement for safety



Robotic Integration Software

Tool Setting and User Interface

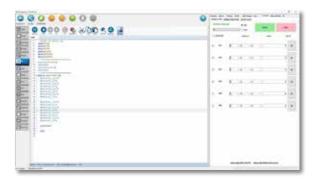
- Simple parameter setting
- Various user inerface settings for easy integration

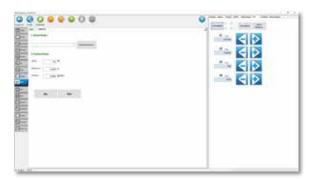




Fast Payload Adjustment and Information Transmission

- Quick payload setting to optimize robot systems
- Real-time monitoring information exchange between robot and peripheral devices for system efficiency





Sample Code and Templates for System Integration

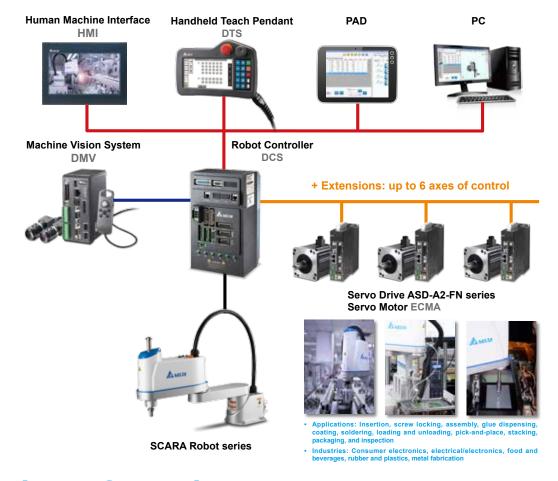
 Adopt templates including vision sample code for customized applications





SCARA Robot Workstation Solution

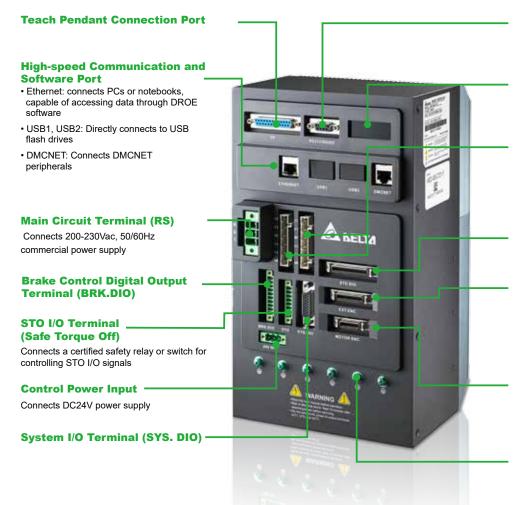
- ▶ The highly flexible robotic workstation integrates control units and other peripheral devices
- ► Easy integration with machine vision systems achieves smart identification, inspection and automatic adjustment for consistent quality delivery



Ordering Information

Туре	Model	Specification	Description	
	DWSEP1003	3m robot control cable		
Robot Control Cable	DWSEP1005	5m robot control cable	Included (Various lengths available for different applications)	
Odbie	DWSEP1010	10m control cable	(various lengths available for unferent applications)	
	3534518800	Optional system digital I/O (SYS.DIO) module, 1m cable included		
	3534518900	Optional standard digital I/O (SYS.DIO) module, 1m cable included		
	3081422700	Optional 1 m connection cable for system digital I/O (SYS.DIO) No soldering required, number mark on the other side		
	3081734900	1m CANopen connection cable		
	3864267000	3m CANopen connection cable	Recommended for extended DI/O module connection	
Peripheral	3864999300	10m CANopen connection cable		
Devices	ASD-DMC-RM32MN	Remote 32 points DI		
	ASD-DMC-RM64MN	Remote 64 points DI		
	ASD-DMC-RM32NT	Remote 32 points DO		
	ASD-DMC-RM64NT	Remote 64 points DO		
	ASD-A2-0121-FN	100W drive		
	ASD-A2-0221-FN	200W drive	Recommended for extended drive connection	
	ASD-A2-0421-FN	400W drive		

Exterior of the Robot Controller



Serial Communication Port

For Modbus communication control, supporting RS-485 / RS-232 serial communication

LED Display

The 5 digit, 7 segment LED displays the controller status or fault codes

Servo Motor Output (U, V, W)

Connects servo motors. Never connect the output terminal to main circuit power as the drive may be damaged beyond repair if incorrect cables are connected to the output terminals

Standard I/O Terminal (STD. DIO)

Full-closed Loop Control Interface (EXT. ENG)

Feeds back the position signals of the full closed linear scale and encoder for controlling A, B, Z phase signals

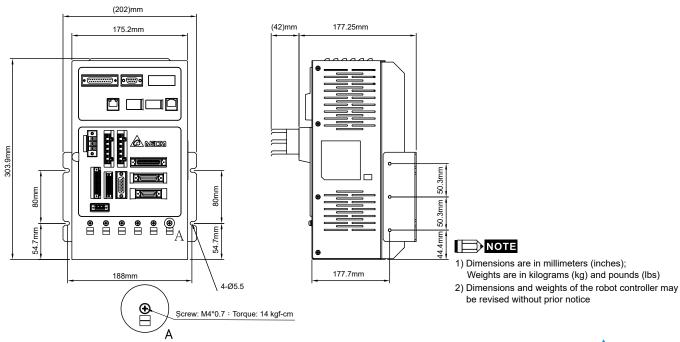
Motor Encoder Interface (MOTOR. ENC.)

The encoder signals of four servo motors

Ground Terminal

Grounding wire of power supply and servo motor

Dimensions of the Robot Controller



Specifications of the Robot Controller

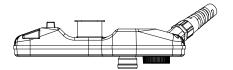
DCS Series					
Power Supply	Phase / Voltage	Single phase: 200-230Vac, 5A			
	Control Power Supply	22-24Vdc, 5A			
Dimensions (W) X (H) X (D) mm / Weight		175 mm x 300 mm x 159 mm / 5.6 kg			
Coo	ling Method	Fan cooling			
External Optical Scale or Encoder		A, B, and Z format			
	Programming Language	Delta robot language			
	Motion Mode	Point-to-point motion, linear interpolation, circular interpolation			
Robot Control	Memory Capacity	20MB: for program editing and data 16KB: for PLC SV/DV variables (without power failure detection) 60KB: for PLC DH variables (with power failure detection) 1K location point for universal variables (shared among different programs) Up to 32K location point for programming			
Input / Output	Standard I/O	User I/O: 24 sets of inputs and 12 sets of outputs System I/O: 8 sets of outputs and 8 sets of inputs			
	Ethernet	One channel			
Communication	RS-232 / RS-485	One connecting port (allows switching between two communication protocols)			
Interface	DMCNET	One channel			
	USB Host	Two connecting ports			
	Installation	Indoor (avoid direct sunlight), no corrosive liquid and gas (avoid oil mist, flammable gas, dust)			
	Altitude	Altitude 1000m or lower above sea level			
	Atmospheric Pressure	86kPa ~ 106kPa			
	Ambient Temperature	0C ~ 55°C (If ambient temperature is above 45°C, cooling is required)			
	Storage Temperature	-20°C ~ 65°C			
Environment	Humidity	0 ~ 90% RH (non-condensing)			
	Vibration	9.80665m/s² (1G) less than 20Hz, 5.88m/s² (0.6G) 20 to 50Hz			
	IP Rating	IP20			
	Power System	TN system ^{*1}			
	Safety Certifications	IEC/EN 61800-5-1, UL 508C, RCM C C C US US			

^{*1} TN system: A power distribution system having one point directly earthed, the exposed conductive parts of the installation being connected to that points by a protective earth conductor.

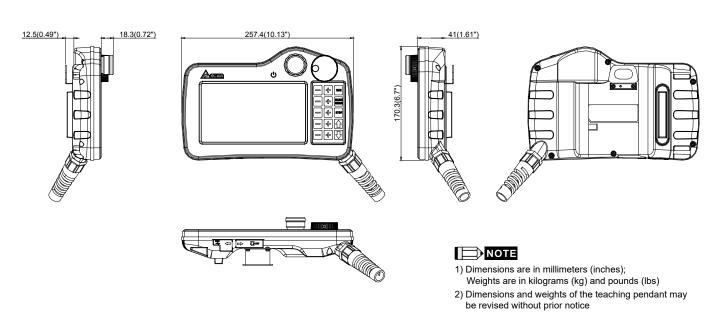
Handheld Teach Pendant DTS



Dimensions



Weight: 720g (without cable)





Specifications of the Handheld Teach Pendant

Model	DTS-1FD	DTS-1GD	DTS-2FM	DTS-2GM		
LCD Module	Display Type: 7" Widescreen TFT LCD Colors: 65536 Resolution (pixels): 800 x 480 Backlight: LED Back Light Backlight Luminance (cd/m2): 450 Backlight Lifetime (Hr) : 20,000					
Arithmetic-Logic Unit (ALU)	CPU : 400 MHz Flash ROM (Bytes) : 128MB RAM (Bytes) : 64MB Backup Memory (Bytes) : 16MB					
Buzzer	Multi-tone Frequency(2K~4K Hz) / 80dB					
Connector	Connector: D-Sub (25 pin)		Military (17 pin)			
Real Keys	15 keys 21 keys			keys		
USB	1 USB Client Ver 2.0					
SD	SD card (support SDHC)					
Ethernet	1 Port ^{'2}					
Function Key			15			
Cable Length	5 m	10 m	5 m	10 m		
Emergency Stop Switch	IEC60947-5-1, EN60947-5-1, IEC60947-5-5, EN60947-5-5, UL 508, CSA C22.2 No.14, GB 14085.5					
3-Position Operation Switch	EN/IEC60947-5-8, IEC60947-5-1, EN60947-5-1, JIS C8201-5-1, UL508, CSA C22.2 NO. 14 ISO12100-1, -2/EN12100-1, -2, IEC60204-1/EN60204-1, ISO11161/prEN11161, ISO10218/EN775, ANSI/RIA R15.06, ANSI B11.19					
Safety Standard	CE					
Protection Rating	IP55					
Voltage Endurance *3	22-28Vdc					
Waterproof Degree	24Vdc terminal and FG terminal: 500Vac, 1min Power Consumption					
Power Consumption *5	5.6W					
Backup Battery	3V lithium CR2450 x 1					
Backup Battery Life	5 years or more at 25°C, may vary due to temperature and usage condition					
Operation Temperature	0°C ~ 40°C					
Storage Temperature	-20°C ~ +60°C, 10% ~ 90% RH					
Operation Environment	10% ~ 90% RH (0 ~ 40°C) , 10% ~ 55% RH (41 ~ 50°C), pollution degree 2					
Vibration Resistance	Conforms to IEC61131-2, 5Hz~8.3Hz 3.5mm, 8.3Hz~150Hz 1G			50Hz 1G		
Shock Resistance	Conforms to IEC60068-2-27, 11ms, 15G Peak , X, Y, Z direction for 6 times					
Dimensions W x H x D (mm)	257.4 x 170.3 x 71.8 (Emergency stop button and hook included)			included)		
Weight	750g (Wire excluded)					

Ordering Information

DTS Series

DT	s	1	F	D
Company/ Product	Category	Generation	Cable Length	Connector specification
D : Delta T : Teach Pendent	S: SCARA	1 : Generation 1 (15 Key)	F : Cable length 5m	D : D-Sub
		2 : Generation 2 (21 Key)	G = Cable length 10m	M : CE military model

Note: 1) The half-life of the backlight is defined as the original luminance being reduced by 50% when the maximum driving current is supplied to the HMI.

2) Built-in isolated power circuit

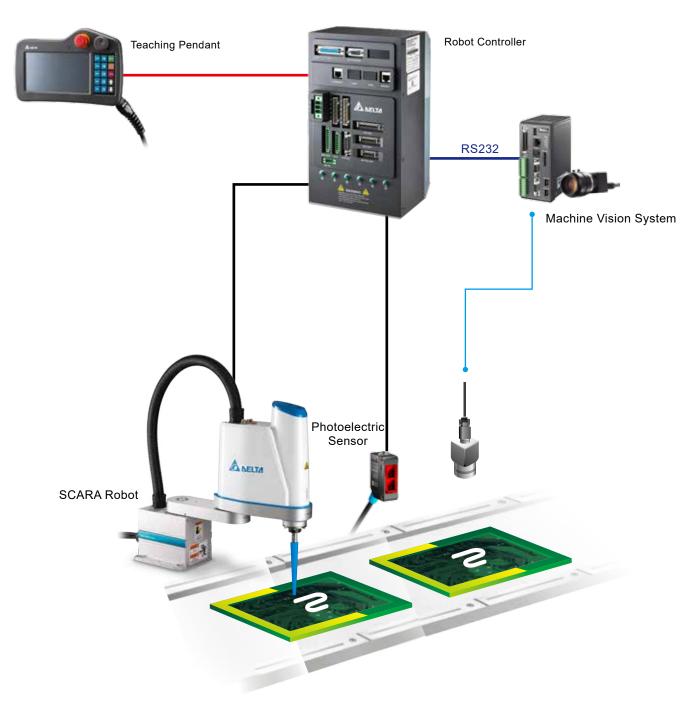
3) Adopting isolated power supplies is suggested

4) The value of the power consumption indicates the electrical power consumed by HMI with no peripheral devices connected. To ensure normal operation, it is recommended using a power supply with a capacity 1.5~2 times the value of the power consumption.

Successful Applications

Conveyor Tracking and Glue Dispensing Solution

- SCARA provides fixture-less conveyor tracking
- Synchronizes the robot and motion of the conveyor without stopping it to enhance production efficiency
- The PC-Software consists of secondary development platform for easy and flexible customization
- General communication interface easily connects different machine vision systems and modules
- Simple system structure for easy configuration
- The solution adopts Delta industrial automation products for easy integration and maintenance

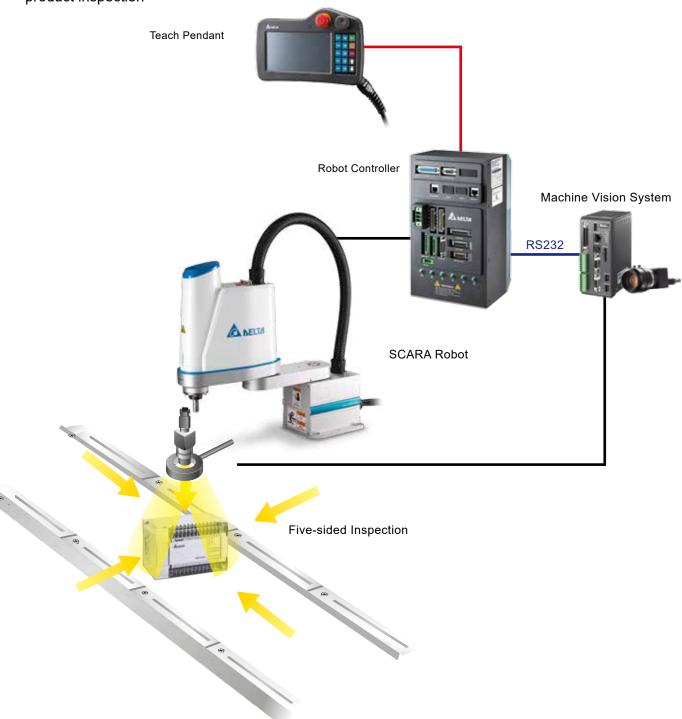




Successful Applications

Five-sided Product Inspection Solution

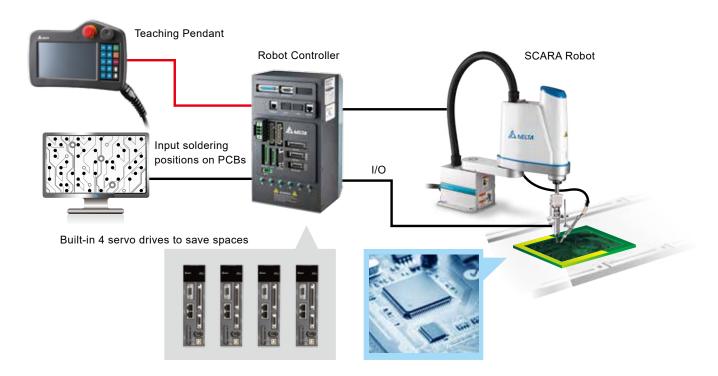
- Robot controller with servo drive integrated saves spaces and wiring
- Matches with machine vision system for flexible robot movement and easy interchangeable product inspection
- Adopts one communication protocol and simple wiring configuration with high reliability
- Links to MES System for optimized manufacturing and interchangeable production
- The solution adopts Delta industrial automation products for easy integration and maintenance



Successful Applications

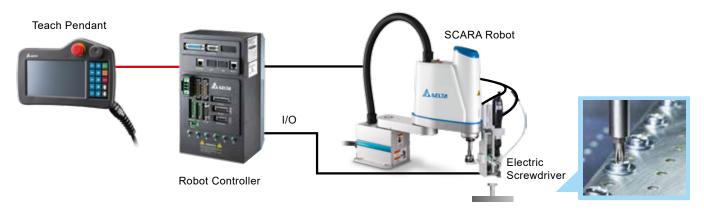
Robotic Soldering Solutions

- Robot controller with servo drive integrated saves spaces and wiring
- Use soldering software to transform positions of solder holes in CAD PCB files for robots to achieve fast interchangeable production
- Auto calibration function compensates deviation caused by tool changes
- The solution adopts Delta industrial automation products for easy integration and maintenance



Automatic Screw-locking Solution

- Robot controller with servo drive integrated saves spaces and wiring
- SCARA delivers consistent quality with high repeatability
- Flexible robot teaching movement and motion control for interchangeable production
- The solution adopts Delta industrial automation products for easy integration and maintenance







Smarter. Greener. Together.

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