

Ordering Information & Specifications

Screw Driving Robot Model		RS-AFS60LA01	RS-AFS60LA02	RS-AFS60LA04	RS-AFS60LA05	RS-AFS60LA06	
Delta SCARA Robot	Number of Axes	3					
	xArm Length (1+2 axis)	600 mm					
	Max. Speed	J1+J2	5,000 mm/sec				
		J3	1,100 mm/sec				
		J4	N/A				
	Range of Motion	J1	±133°				
		J2	±153°				
		J3	200 mm				
		J4	N/A				
	Repeatability	J1+J2	±0.015 mm				
J3		±0.01 mm					
J4		N/A					
Net Weight	20 kg						
Delta Screw Driving Robot Module	Torque (kgf/cm)	0.5~1.8	1.5~9.0	1.50~9.0	6.0~25.0	10.0~43.0	
	Torque (N/m)	0.05~0.17	0.15~0.88		0.58~2.45	0.98~4.20	
	Max. Speed (rpm)	2,000			1,200	1,000	
	Dimensions (L x W x H) mm	250 x 57 x 63			318 x 57 x 63		
	Weight (Kg)	1	1.2		1.7		
	Screw Size	Metric Size*	M1.2-M2	M2-M3		M2.5-M4	M3-M5
Screwdriver Bit		Ø4	Ø5	Hex 1/4"			
Environment Specs	Ambient Temperature	5°C~40°C					
	Storage Temperature	-20°C~55°C					
	Humidity	<0~90%RH (non-condensing)					

Screw Driving Robot Model		RS-AFS60LB01	RS-AFS60LB02	RS-AFS60LB04	RS-AFS60LB05	RS-AFS60LB06	
Delta SCARA Robot	Number of Axes	4					
	xArm Length (1+2 axis)	600 mm					
	Max. Speed	J1+J2	5,000 mm/sec				
		J3	1,100 mm/sec				
		J4	600°/s				
	Range of Motion	J1	±133°				
		J2	±153°				
		J3	200 mm				
		J4	±105°				
	Repeatability	J1+J2	±0.015 mm				
J3		±0.01 mm					
J4		±0.01 mm					
Net Weight	20 kg						
Delta Screw Driving Robot Module	Torque (kgf/cm)	0.5-1.8	1.5~9.0	1.50~9.0	6.0~25.0	10.0~43.0	
	Torque (N/m)	0.05~0.17	0.15~0.88		0.58~2.45	0.98~4.20	
	Max. Speed (rpm)	2,000			1,200	1,000	
	Dimensions (L x W x H) mm	250 x 57 x 63			318 x 57 x 63		
	Weight (Kg)	1	1.2		1.7		
	Screw Size	Metric Size*	M1.2-M2	M2-M3		M2.5-M4	M3-M5
Screwdriver Bit		Ø4	Ø5	Hex 1/4"			
Environment Specs	Ambient Temperature	5°C~40°C					
	Storage Temperature	-20°C~55°C					
	Humidity	<0~90%RH (non-condensing)					

* Drivable screw size depends on the actual materials
 * We reserve the right to change the information in this flyer without prior notice



Delta Electronics, Inc.
 Taoyuan Technology Center
 18 Xinglong Road, Taoyuan District,
 Taoyuan City 33068, Taiwan
 TEL: 886-3-362-6301 / FAX: 886-3-371-6301



Automation for a Changing World

Delta Screw Driving Robot



Easy operation, real-time monitoring, efficient and precise screw driving

■ Totally Integrated Solution

- Easy maintenance with Delta's self-developed key components
- Robot controller integrated with servo drive save on wiring and space

■ Real-time Screw Driving Status Monitoring

- Downward Pressure monitoring and numbers of thread turns inspection

■ Simple and Intuitive Operation Interface

- Guided interface for easy parameter setting, position guidance and programming
- Easy robotic motion teaching for flexible manufacturing



Features

- 1 Machine vision for precise positioning
- 2 Pre-drive function to prevent incomplete processes
- 3 Precise torque and downward pressure control
- 4 Drive tightening function to ensure a precise lock
- 5 Real-time alarm to track driving status



System Functions and Operation Interface

- **Screw locking status monitoring**
 - Loose or stripped screws, inspection error or anomaly
- **Screw locking parameter setting**
 - Screw driving parameters: speed, force, torque, feed rate
 - Multi-section electric driving torque / speed
 - Screw driving sequence
 - Test / driving mode switchable
 - Operation speed, Teach, JOG, RL
- **Error alarm notification**
- **Screw driving data log**
- **Integrates machine vision setting functions**



Main Page



Screw Driving Settings

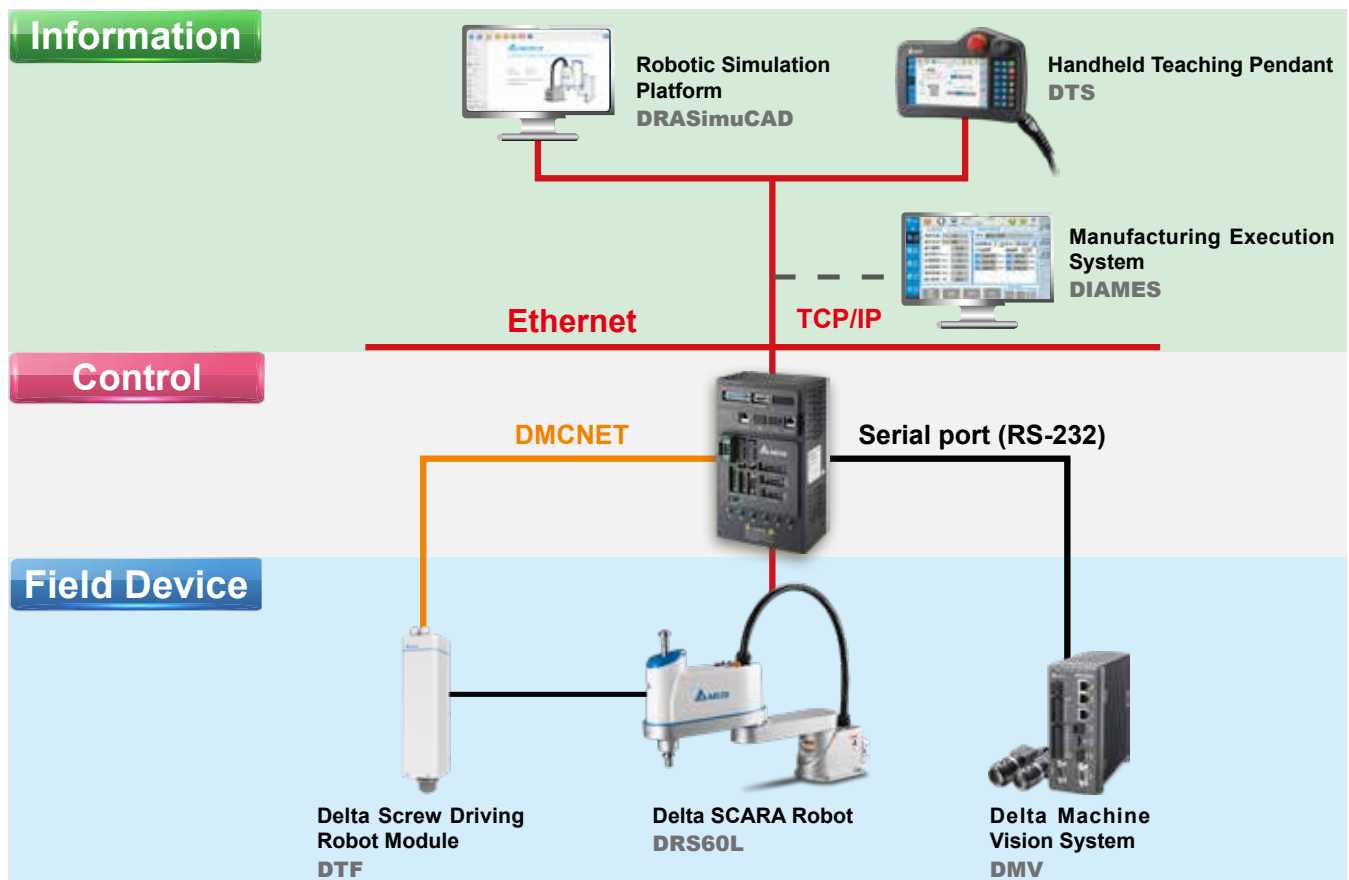


Recipe Settings



Screw Driving Data

System Structure



Model Name

