

# Robots

■ SCARA

■ ARTICULATED



# SMART ROBOTS

## FOR INDUSTRY

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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.

- Smart manufacturing
- Increase manufacturing yield
- Highly automated
- Reduce manpower
- Automated production tracking
- Smart service & manufacturing
- New technology & materials
- High efficiency & stable

Machine tooling



Footwear



Food & Beverage



Electronics



Packaging



Rubber & Plastics



# SCARA ROBOTS

## INDUSTRIES

- Consumer electronics
- Electrical / Electronics
- Food & Beverage
- Rubber & Plastics
- Metal Fabrication

1

**High precision /  
Excellent linearity**

2

**Sensor-less  
compliance function**

3

**Multiple**



**DRS Series**



Dispensing



Screw driving



Soldering



Inspection



Load / Unload



**DRS40L**

Arm Length : 400 mm  
Max. Payload : 3kg  
Repeatability :  
±0.01 mm (J1+J2)  
±0.01 mm (J3)  
±0.01° (R Axis)



**DRS40L**

Arm Length : 500 mm  
Max. Payload : 6kg  
Repeatability :  
±0.015 mm (J1+J2)  
±0.01 mm (J3)  
±0.01° (R Axis)



**DRS40L**

Arm Length : 600 mm  
Max. Payload : 6kg  
Repeatability :  
±0.015 mm (J1+J2)  
±0.01 mm (J3)  
±0.01° (R Axis)



**DRS40L**

Arm Length : 700 mm  
Max. Payload : 6kg  
Repeatability :  
±0.015 mm (J1+J2)  
±0.01 mm (J3)  
±0.01° (R Axis)

# ARTICULATED ROBOTS

## INDUSTRIES

- Consumer electronics
- Electrical / Electronics
- Food & Beverage
- Rubber & Plastics
- Metal Fabrication

- 1 High degree of freedom
- 2 Hollow wrist
- 3 Various mounting positions



**DRV Series**



Insertion



Screw driving



Machine tending



Inspection



Load / Unload



**DRV70L**

Arm Length : 710 mm  
 Max. Payload : 7kg  
 Repeatability :  $\pm 0.02$ mm



**DRS90L**

Arm Length : 900 mm  
 Max. Payload : 7kg  
 Repeatability :  $\pm 0.03$ mm



**DRVA1L7**

Arm Length : 1,111 mm  
 Max. Payload : 7kg  
 Repeatability :  $\pm 0.04$ mm



**DRVA4L7**

Arm Length : 1,411 mm  
 Max. Payload : 7kg  
 Repeatability :  $\pm 0.05$ mm



# ROBOT CONTROLLER

## ASDA-MS

*AN INNOVATIVE & COMPREHENSIVE DEVELOPMENT PLATFORM FOR ROBOT CONTROL*

### Complete Robot Solution

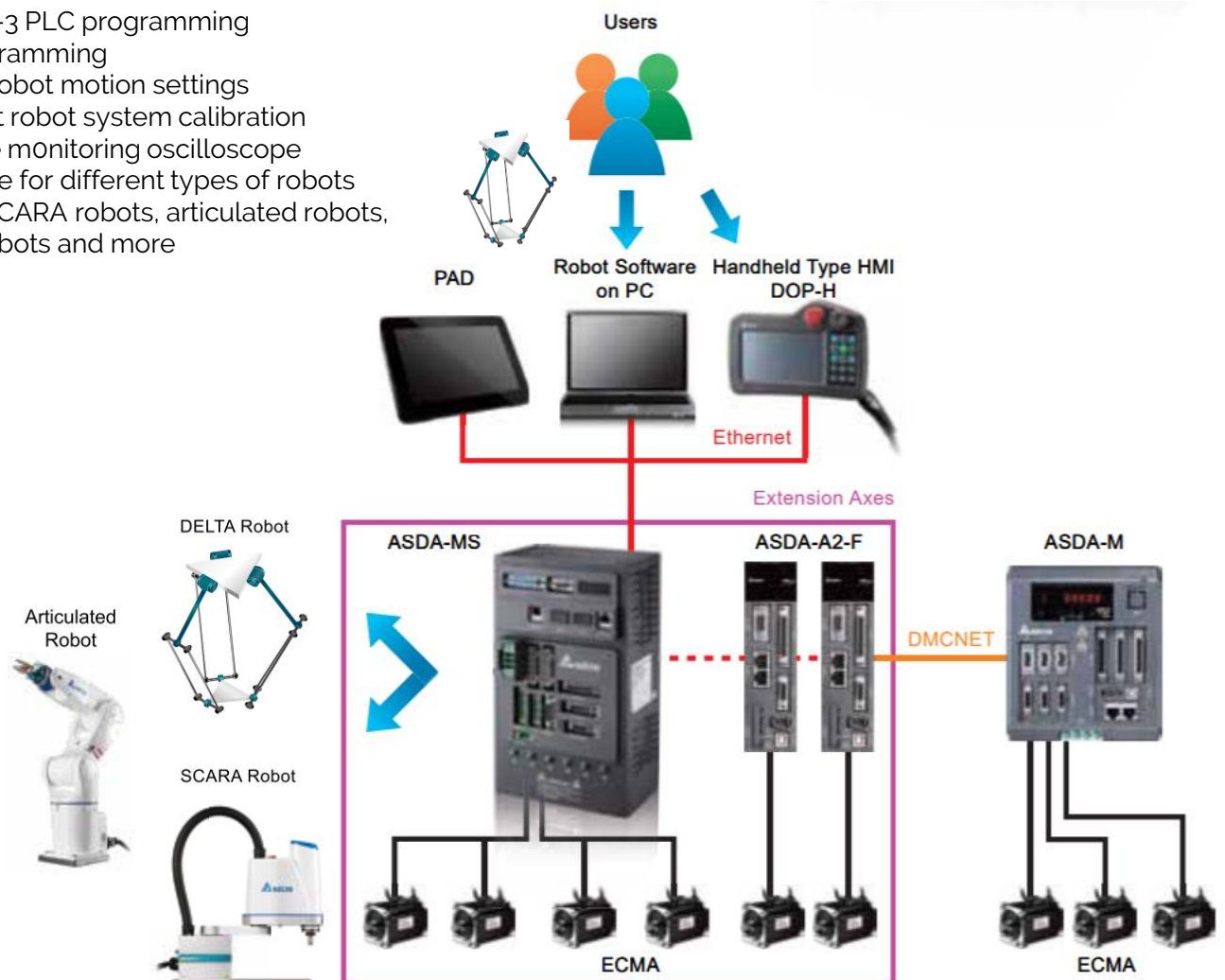
- Integrated servo drive and controller in one single unit for real-time
- Various communication protocols
- Built-in with diverse robot control modules
- Up to 10 axes motion control: 4-axis robot + 6 external axes
- Supports 5 kinds of programming languages with IEC 61131-3 standard and the PLCopen motion function block



**ASDA-MS**

### User Friendly Robot Software

- IEC 61131-3 PLC programming
- DRL programming
- Multiple robot motion settings
- Intelligent robot system calibration
- Real-time monitoring oscilloscope
- Applicable for different types of robots such as SCARA robots, articulated robots, DELTA robots and more

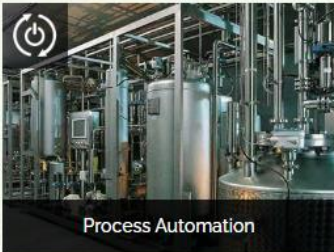


## ABOUT US

**Pinnacle Industrial Controls** is an established industrial automation and control system solutions company. With over 22 years of experience. We partner with clients spread across the world, ranging from mid-sized companies to MNCs from OEMs to end users. Our engineers are well equipped to execute customized integration needs of the pharmaceutical industry world. They are well equipped with knowledge base across various software, hardware, operating systems, network and manufacturing processes.

### What We Do

Pinnacle's commitment and understanding of the automation business over the years has helped us become one of the top system integrators in the country.



## DELTA ELECTRONICS PARTNERSHIP

We are authorized channel partner of Delta Electronics, India. Our partnership from 1999 is one of the oldest for Delta Electronics in India. We understand the products completely and have absolute expertise to install Delta products for your applications.

With this authorization also comes immense expertise in integrating systems with Delta products. Mainly focusing in packaging sector, working along with the biggest OEM's in our region has always kept us ahead in terms of providing the best solutions to our customers.

AUTHORIZED  
CHANNEL PARTNER





## **INNOVATION** DRIVES OUR AUTOMATION

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