

SERIES 781 – STANDARD 3 AXIS



The 3-axis benchtop robots in the 781 series are engineered to provide accurate arrangement and positioning to dispense many types of fluids. When set up with a syringe, cartridge, or valve system, they achieve a high degree of precision and repeatability.

Specially designed for fluid dispensing processes, the user-friendly programming software allows the creation of complex dispensing routines (dots, lines, circles, arcs, and fill patterns) specifically developed for fluid dosing. They can be configured and operational within minutes (for basic routines) using the supplied programming teach pendant.

The 781 series robots from Poly Dispensing Systems can be provided individually or as a complete system integrated into a safety enclosure (featuring light barriers or a safety door).

MODELS	781-200	781-300	781-400	781-500	781-500DP
Work area X/Y/Z(mm)	200 / 200 / 50	300 / 300 / 100	400 / 400 / 100	500 / 500 / 100	500 / 500 / 500 /100
Load Surface Axis Y / Axis Z	5 kg / 3 kg	10 kg / 5 kg			5 kg / 3 kg
Max. speed XY / Z (mm/sec)	0.1 ~ 500 / 300	0.1 ~ 600 / 300			
Resolution	0.001 mm / Axis				
Repeatability	+/- 0.01 mm / Axis				
Program capacity	100 programs - 4000 points / program				
Display	TFT				
Display Drive system / Stepper motor	Micro stepping motor				
Motion Control	PTP & CP				
Linear/ circular Interpolation	3 axis				3 axis / 2Y
Teaching method	Teach pendant				
I/O Signals	8 Inputs / 8 Outputs				
Power Supply	100 ~ 230 VAC, 200 W	100 ~ 230 VAC, 320 W			
Operating temperature	0 - 40°C				
Relative Humidity of Operation	20 - 90% No condensation				
Dimensions (WxDxH in mm)	382 x 374 x 485	482 x 499 x 593	585 x 599 x 597	685 x 698 x 593	685 x 715 x 670
Robot weight (kg)	23 kg	30 kg	40 kg	45 kg	70 kg