



HOLLOW WRIST WITH BELL APPLICATOR (EXAMPLE)



EXPLOSION PROOF
TEACH PENDANT (OPTIONAL)



MOTOSIM® EG OFF-LINE PROGRAMMING

TOP REASONS TO BUY

- Motoman Robotics is a global leader with a large paint robot install base
- High wrist/upper arm payload capacity for mounting paint application equipment
- Easy-to-use touch screen teach pendant
- MotoSim® EG simulation software (optional)



COATING DISPENSING

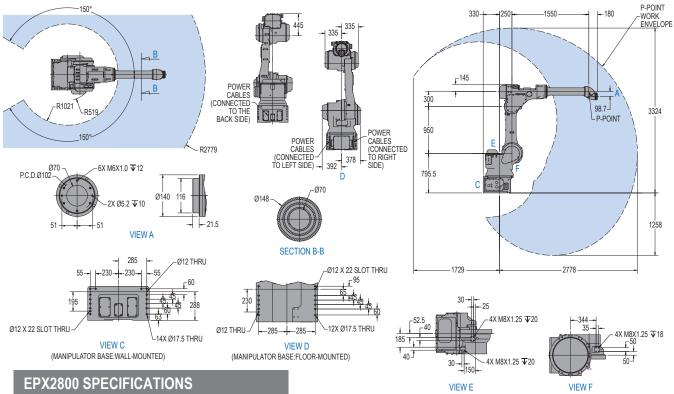
Payload: 20 kg

Versatile Coating Robot

- High-speed, versatile six-axis EPX2800 robot is ideal for automotive and other industrial coating applications.
- Offers superior performance and creates smooth, consistent finish with outstanding efficiency for painting and dispensing applications.
- Hollow wrist design is ideal for painting contoured parts such as interior/exterior surfaces; well-suited for mounting spray equipment applicators. Inside diameter is 70 mm (2.75"). Interference between the hose and parts/fixtures is avoided; ensures optimum cycle time and robot reach/access.
- Factory Mutual (FM) approved for Class 1, Div. 1 use in hazardous environments.
- 20 kg (44.1 lb) payload; 2,779 mm (109.4") horizontal reach; 4,582 mm (180.4") vertical reach; ±0.5 mm (±0.02") repeatability.
- Highly flexible, compact design.

Advanced NX100-FM Controller

- Includes application-specific software for paint applications.
- Coordinates operation of robot and painting devices, including spray gun.
- Supports gun control instructions such as spray start/stop and painting conditions.
- All painting position parameters can be filed and saved.
- Supports standard networks (such as DeviceNet, ControlNet, Profibus-DP and Interbus-S), enabling connection to paint equipment controllers and production line controllers.



EPX2800	SPECIFICATION	NS
Structure		Vertical jointed-arm type
Controlled Axes		6
Payload		20 kg (44.1 lbs.)
Vertical Reach		4,582 mm (180.4")
Horizontal Reach		2,779 mm (109.4")
Repeatability		±0.5 mm (0.02")
Maximum Motion Range	S-Axis (Turning/Sweep) L-Axis (Lower Arm) U-Axis (Upper Arm) (relative angle of lower arm) R-Axis (Wrist Roll) B-Axis (Bend/Pitch/Yaw) T-Axis (Wrist Twist)	±150° +120°/-45° +90°/-85° ±360° ±360° ±360°
Maximum Spe	ed	2.0 m/s
Approximate Mass		650 kg (1,433.3 lbs.)
Brakes		All axes
Power Consumption		5 kVA
Allowable Moment	R-Axis B-Axis T-Axis	77.4 N • m 49.9 N • m 19.6 N • m
Allowable Moment of Inertia	R-Axis B-Axis T-Axis	2.45 kg • m ² 1.20 kg • m ² 0.20 kg • m ²
Mounting		Floor

OPTIONAL PENDANT SPECIFICATIONS		
Dimensions	235 (w) x 203 (h) x 78 (d) (9.25" x 8" x 3.1")	
Mass	1.25 kg (2.8 lb)	
Material	Reinforced plastics	
Operation Device	Select keys, axes keys, numerical/application keys, emergency stop button, enable switch	
Display	5.7-inch monochrome LCD, backlit white LED, touch panel 320 x 240 pixels (Alphanumeric characters, Chinese characters, Japanese letters, Others)	
IEC Protection Class	IP54	
Cable Length	Standard: 8 m, Optional 20 m Max: 50 m (with optional extension cable)	

Structure	Free-standing, enclosed type	
Dimensions (mm)	500 (w) x 1400 (h) x 550 (d) (19.7" x 55.1" x 21.7")	
Approximate Mass	120 kg (264.6 lb)	
Cooling System	Indirect cooling	
Ambient Temperature	During operation: 0° C (32° F) to 40° C (104° F) During transit and storage: -10° C (14° F) to +45° C (113° F)	
Relative Humidity	90% max. non-condensing	
Primary Power Requirements	3-phase, 240/480/575 VAC at 50/60 Hz	
Grounding	Grounding resistance: ≤100 ohms Separate ground required	
Digital I/O NPN-Standard PNP-Optional	Standard I/O: 40 inputs/40 outputs consisting of 16 system inputs/16 system outputs, 24 user inputs/24 user outputs Enabled to 1,024 inputs/1,024 outputs	
Position Feedback	By absolute encoder	
Drive Units	Servo packs for AC servo motors	
Accel/Decel	Software servo control	
Program Memory	60,000 steps 10,000 ladder instructions	
Pendant Dim. (mm)	169 (w) x 314.5 (h) x 50 (d) (6.6" x 12.4" x 2")	
Pendant Playback Buttons	Teach, Play, Remote, Servo On, Start, Hold, Emergency Stop, Edit Lock (Play Mode Enabled on Controller)	
Concurrent I/O Ladder	10,000 Instructions	
Multi Tasking	Up to 8 concurrent jobs	
Fieldbus Options	DeviceNet Master/Slave, AB RIO, Profibus, Interbus-S, M-Net, CC Link, EtherNet IP/Slave	
Ethernet	10 Base T/100 Base TX	
E-Stop	Controlled stop	
Safety	Dual-channel Emergency Stop Pushbuttons, 3-position Enable Switch, Manual Brake Release Meets ANSI/RIA R15.06-1999 and Canadian safety standards	
Scavenging Control	Equipped with scavenging control unit for internal pressure explosion-proof manipulator	

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