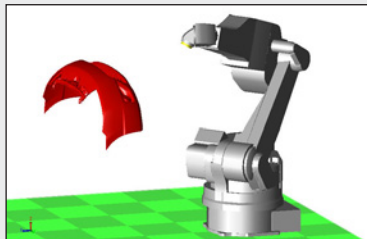




HOLLOW WRIST WITH BELL APPLICATOR (EXAMPLE)



EXPLOSION PROOF TEACH PENDANT (OPTIONAL)



MOTOSIM® EG OFF-LINE PROGRAMMING



# EPX2700

COATING • DISPENSING

**Payload: 15 kg**

## TOP REASONS TO BUY

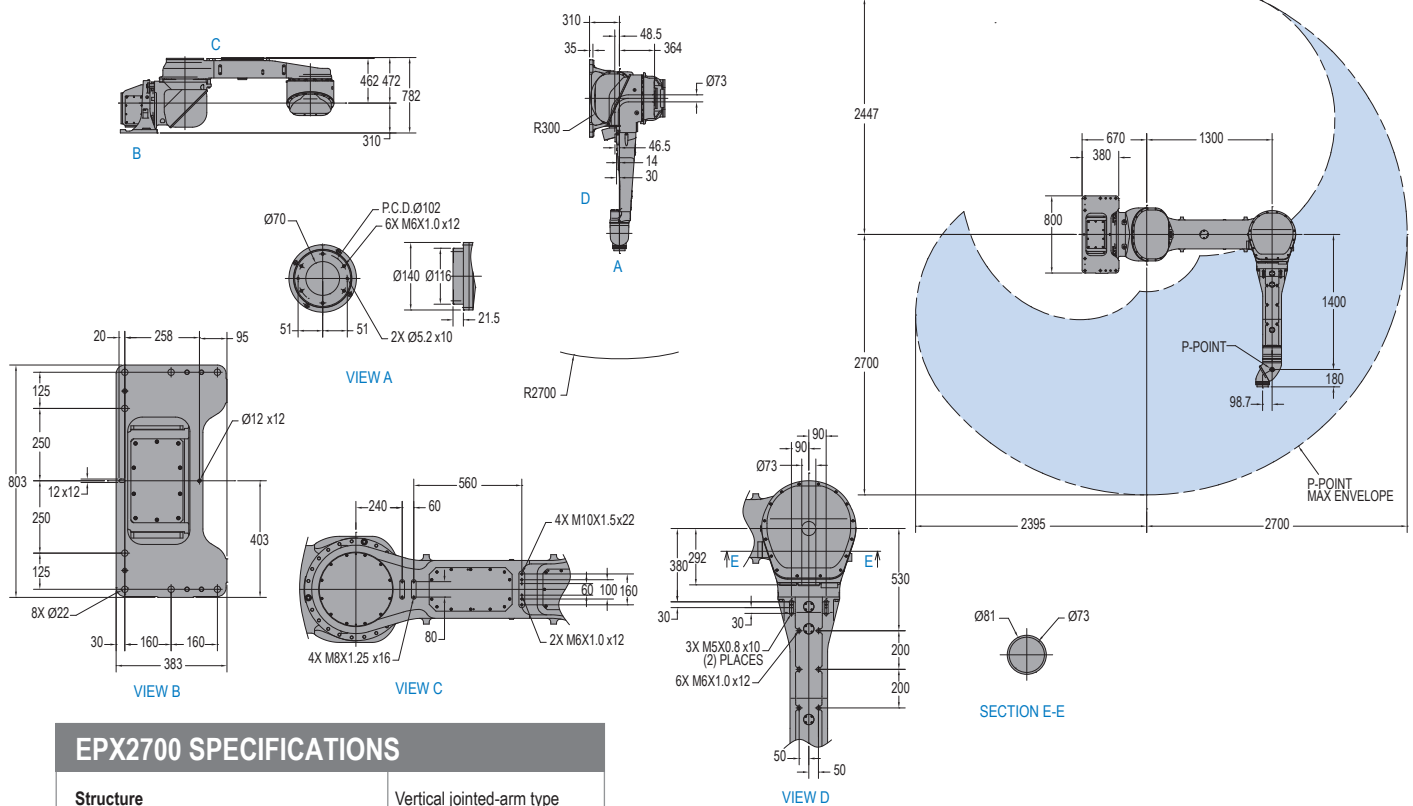
- Motoman Robotics is a global leader with a large install base
- High wrist/upper arm payload capacity for mounting paint application equipment
- Easy to use touch screen teach pendant
- Reduces spray booth size
- RU and LU mounting configuration
- Lightweight design
- Built-in space for 16 solenoid valves; 3 regulators
- Teflon coated wrist

## Versatile Coating Robot

- High-speed, versatile six-axis EPX2700 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 (2.76"). 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.
- 15 kg (33.1 lb) payload; 2,700 mm (106.3") horizontal reach; 5,147 mm (202.6") vertical reach; ±0.15 mm (±0.006") 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.



## EPX2700 SPECIFICATIONS

<b>Structure</b>	Vertical jointed-arm type	
<b>Controlled Axes</b>	6	
<b>Payload</b>	15 kg (33.1 lbs.)	
<b>Vertical Reach</b>	5,147 mm (202.6")	
<b>Horizontal Reach</b>	2,700 mm (106.3")	
<b>Repeatability</b>	±0.15 mm (0.006")	
<b>Maximum Motion Range</b>	S-Axis (Turning/Sweep)	+125°/-25°
	L-Axis (Lower Arm)	+140°/-65°
	U-Axis (Upper Arm) <i>(relative angle of lower arm)</i>	+90°/-65°
	R-Axis (Wrist Roll)	±720°
	B-Axis (Bend/Pitch/Yaw)	±720°
	T-Axis (Wrist Twist)	±720°
<b>Maximum Speed</b>	2.0 m/s	
<b>Approximate Mass</b>	590 kg (1,301 lbs.)	
<b>Brakes</b>	All axes	
<b>Power Consumption</b>	5 kVA	
<b>Allowable Moment</b>	R-Axis	45.8 N · m
	B-Axis	33.8 N · m
	T-Axis	10.8 N · m
<b>Allowable Moment of Inertia</b>	R-Axis	1.45 kg · m <sup>2</sup>
	B-Axis	0.79 kg · m <sup>2</sup>
	T-Axis	0.10 kg · m <sup>2</sup>
<b>Mounting</b>	Wall	

## OPTIONAL PENDANT SPECIFICATIONS

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

## NX100-FM CONTROLLER SPECIFICATIONS (WITH STANDARD PENDANT)

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