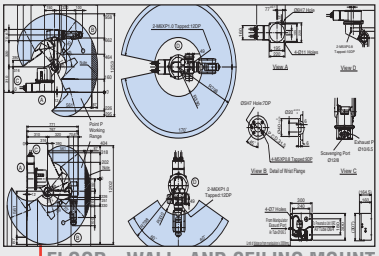
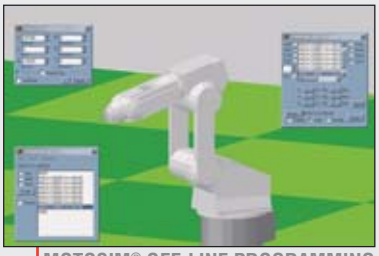
MOTOMAN
a YASKAWA company

APPLIANCE PARTS



FLOOR-, WALL- AND CEILING MOUNT



MOTOSIM® OFF-LINE PROGRAMMING

FEATURES & OPTIONS

- 798 mm reach
- ±0.03 mm (±0.001") repeatability
- Floor-, wall- or ceiling-mount options
- FM rating: Class 1, Div. 1 (explosion-proof)
- Advanced application-specific coating software
- MotoSim® simulation software (optional)
- MotoMax® III warranty (standard)

Motoman's compact PX800 robot is the world's most space-efficient coating robot

• COATING • DISPENSING

PX800

Payload: 3 kg

Compact Coating Robot

The high-speed PX800 robot offers minimal footprint and superior performance in coating applications.

The compact, space-saving design of the PX800 robot makes it easy to mount on the floor, wall or ceiling. Its full six-axis capability ensures proper gun angles for painting small parts.

The PX800 robot is Factory Mutual (FM) approved for Class 1, Div. 1 use in hazardous environments. It features a 3 kg (6.6 lb) payload capacity, a 798 mm (31.4") reach, and a ±0.03 mm (±0.001") repeatability.

The PX800 robot delivers superior performance while minimizing cycle time and optimizing material usage. It is ideal for coating small electronic or appliance parts, as well as automotive components.

Advanced XRC 2001-FM Controller

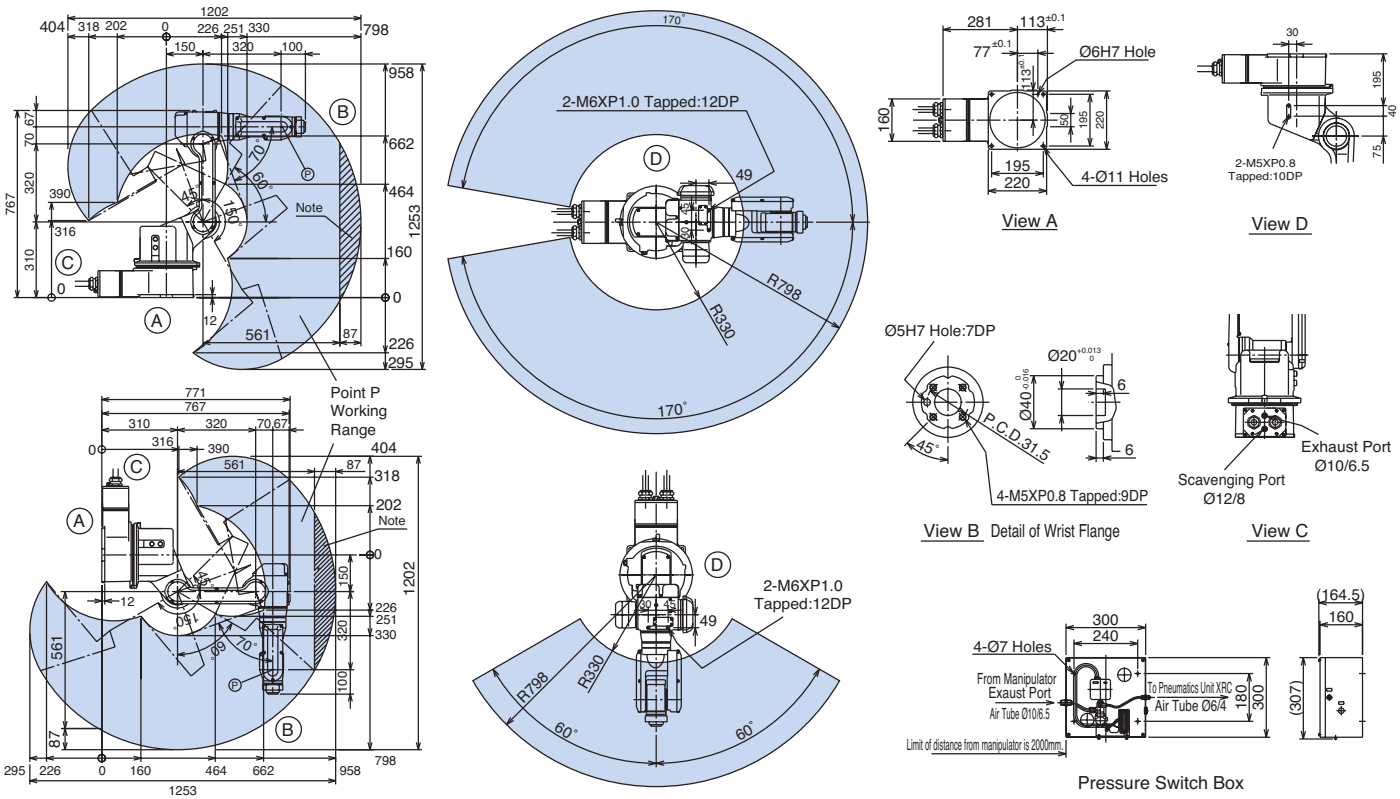
The advanced XRC 2001-FM controller features fast processing, easy-to-use INFORM II programming language, and includes application-specific software for coating.

Two types of programming pendants are available — the standard model for use in non-explosive painting environments and as an option, an intrinsically-safe version for use in hazardous conditions.

The XRC 2001-FM coordinates operation of robot and coating devices, including the gun, to increase productivity by reducing over-spraying and the number of times the spray starts and stops. It supports gun control instructions such as spray start/stop and coating conditions.

The XRC 2001 supports standard networks (such as DeviceNet, ControlNet, Profibus-DP, and Interbus-S), enabling connection to paint machine controllers and line controllers.

PX800 Robot



Note: A "servo alarm" error occurs if the manipulator is held in this position for a long period of time when the robot is wall-mounted.

All dimensions are metric (mm) and for reference only.
Please request detail drawings for all design/engineering requirements.

PX800 SPECIFICATIONS

Structure		Vertical jointed-arm type
Controlled Axes		6
Payload		3 kg (6.6 lbs.)
Vertical Reach		1,253 mm (49.3")
Horizontal Reach		798 mm (31.4")
Repeatability		±0.03 mm (0.001")
Maximum Motion Range	S-Axis (Turning/sweep)	Wall mount: ±60° Floor/ceiling mount: ±170°
	L-Axis (Lower Arm)	+150°/-45°
	U-Axis (Upper Arm)	+190°/-70°
	R-Axis (Wrist Roll)	±165°
	B-Axis (Bend/Pitch/Yaw)	±135°
	T-Axis (Wrist Twist)	±350°
Maximum Speed	S-Axis	2.62 rad/s, 150°/s
	L-Axis	2.09 rad/s, 120°/s
	U-Axis	3.40 rad/s, 195°/s
	R-Axis	5.23 rad/s, 300°/s
	B-Axis	5.23 rad/s, 300°/s
	T-Axis	7.33 rad/s, 420°/s
Approximate Mass		42 kg (92.6 lbs.)
Brakes		All Axes
Power Consumption		1.5 kVA
Allowable Moment	R-Axis	5.39 N • m
	B-Axis	5.39 N • m
	T-Axis	2.94 N • m
Allowable Moment of Inertia	R-Axis	0.1 kg • m^2
	B-Axis	0.1 kg • m^2
	T-Axis	0.03 kg • m^2
Mounting		Floor, wall, ceiling

XRC 2001-FM CONTROLLER SPECIFICATIONS

Structure	Free-standing, enclosed type
Dimensions (mm)	750 (w) x 1,100 (h) x 550 (d) (29.5" x 43.3" x 21.7")
Approximate Mass	70 kg (154.4 lbs)
Cooling System	Indirect cooling
Ambient Temperature	During operation: 0° C (32° F) to 45° C (113° F) During transmit and storage: -10° C (14° F) to +60° C (140° F)
Relative Humidity	20 to 80% RH non-condensing (85% or less for pendant)
Primary Power Requirements	3-phase, 200/220 VAC (+10% to -15%) at 50/60 Hz
Grounding	Grounding resistance: ≤100 ohms Separate ground required ≤10 ohms required for intrinsically-safe pendant
Digital I/O	Specialized signals (hardware): 12 inputs/2 outputs General signals (standard max): 40 inputs/40 outputs Expandable to 256 inputs/256 outputs
Position Feedback	By absolute encoder
Drive Units	Servo packs for AC servomotors
Accel/Decel	Software servo control
Program Memory	5,000 steps and 3,000 instructions
Pendant Dim. (mm)	200 (w) x 325 (h) x 77 (d) (7.9" x 12.8" x 3.0")
Pendant Buttons Provided	Teach Play, Remote, Servo On, Start, Hold, Emergency Stop, Edit Lock
Safety	Emergency Stop Pushbuttons, 3-position Deadman, Brake Release Switches Meets ANSI/RIA R15.06-1999 standard Factory Mutual approved, Class 1, Div. 1

MOTOMAN
a YASKAWA company

MOTOMAN CORPORATE HEADQUARTERS
805 LIBERTY LANE, WEST CARROLLTON, OHIO 45449
TEL: 937.847.6200 • FAX: 937.847.6277
WEB SITE: www.motoman.com