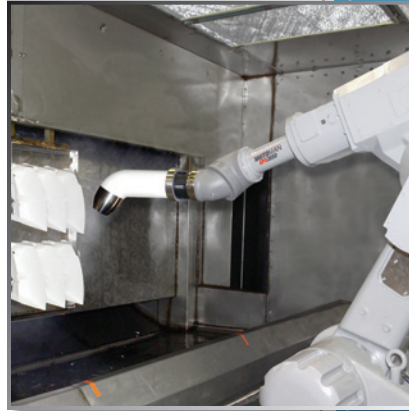


MOTOMAN[®] PAINT ROBOTS



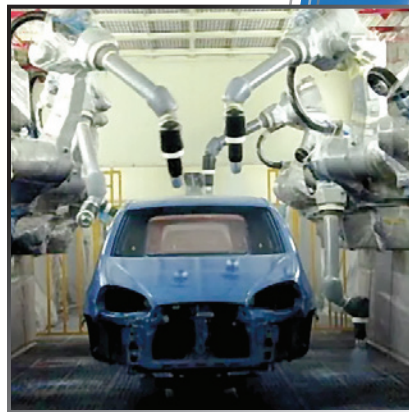
IMPROVE PRODUCTIVITY!

REDUCE WASTE!

ENHANCE QUALITY!

LOWER OPERATION COSTS!

FINISH FIRST WITH
MOTOMAN PAINT ROBOTS!





“Expert Paint” Robots

Flexible, high-performance EPX-series paint robots

- Paint tubing routed through hollow upper arm and wrist provides slim profile for easier access to complex part shapes
- High wrist payload for direct mounting of spray guns, electrostatic bells, powder applicator or other devices
- Direct mounting on upper arm of color change valves, fluid regulators and gear pumps provides faster response time of paint applicator
- Complete paint robot product line-up with floor, wall, shelf and ceiling mount options; reach ranges from 1,250 mm to 2,900 mm
- FM-approved for Class 1, Div 1 hazardous environments



STANDARD PENDANT



OPTIONAL PENDANT

New Programming Pendant

- Intrinsically safe for Class 1, Division 1 locations
- 5.7" LCD touch screen for visibility and ease of use
- 34% smaller and 37% lighter than competitive models
- Standard: 169 (w) x 314.5 (h) x 50 (d) (6.6" x 12.4" x 2")
Optional: 235 (w) x 203 (h) x 78 (d) (9.25" x 8" x 3.1")

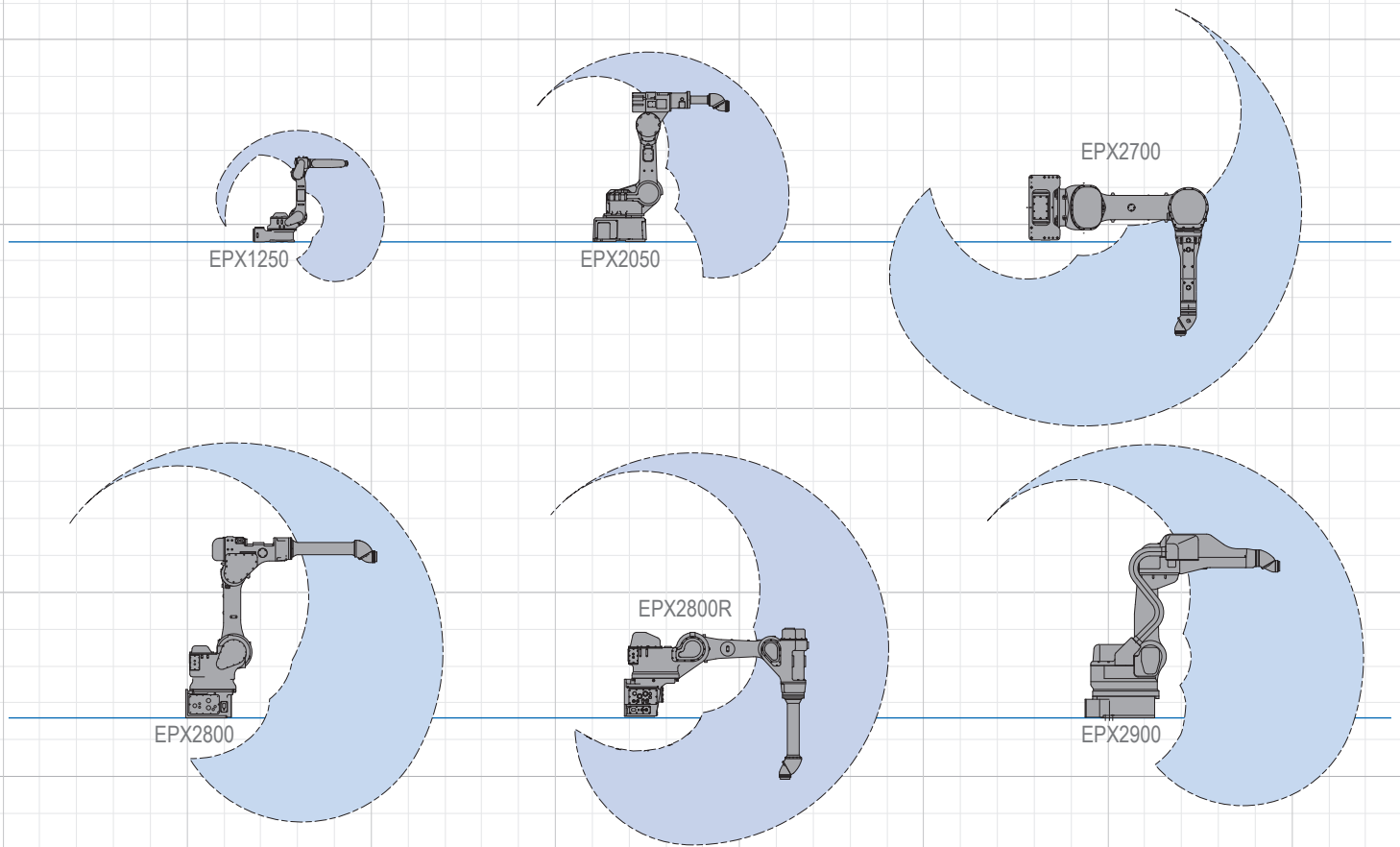
Advanced Robot Motion (ARM) Control

- High path accuracy
- Reduced arm vibration
- Optimum accel/decel
- Constant path control
- Interference control
- Collision detection



MotoSim® EG Simulation Software

- Determine optimum robot model and mounting
- Verify painting process cycle time
- Check potential interferences and paint applicator mounting
- Study applications with multiple robots and conveyor tracking
- Paint robot models are also available for RobCad, IGRIP, etc.



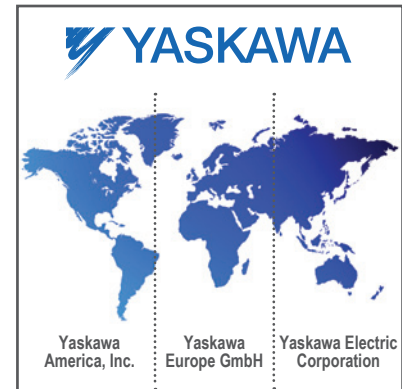
	AUTO PARTS/INDUSTRIAL COMPONENTS			AUTO BODY SHOP/AEROSPACE		
Model	EPX1250	EPX2050	EPX2800	EPX2700	EPX2800R	EPX2900
Controller	NX100	NX100	NX100	NX100	NX100	NX100
Mounting	F, W, C	F	F	W	S	F
Degrees of Freedom	6	6	6	6	6	6
Payload	5 kg 11 lb	15 kg 33.1 lb	20 kg 44.1 lb	15 kg 33.1 lb	15 kg 33.1 lb	20 kg 44.1 lb
Vertical Reach	1,852 mm 72.9"	2,806 mm 110.5"	4,582 mm 180.4"	5,147 mm 202.6"	4,752 mm 187.1"	4,410 mm 173.6"
Horizontal Reach	1,256 mm 49.4"	2,054 mm 80.9"	2,779 mm 109.4"	2,700 mm 106.3"	2,825 mm 111.2"	2,900 mm 114.2"
Repeatability	±0.15 mm 0.006"	±0.5 mm 0.02"	±0.5 mm 0.02"	±0.15 mm 0.006"	±0.5 mm 0.02"	±0.5 mm 0.02"
Maximum Motion Range						
S-Axis (Turning/Sweep)	±170°	±90°	±150°	+125°/-25°	±120°	±150°
S-Axis (Wall Mount)	±60°	n/a	n/a	n/a	n/a	n/a
L-Axis (Lower Arm)	+120°/-65°	+100°/-50°	+120°/-45°	+140°/-65°	Dependent on S-Axis*	+110°/-50°
U-Axis (Upper Arm)	+230°/-70°	+5°/-163°	+90°/-85°	+90°/-65°	+90°/-70°	+90°/-70°
R-Axis (Wrist Roll)	±190°	±360°	±360°	±720°	±360°	±360°
B-Axis (Bend/Pitch/Yaw)	±125°	±360°	±360°	±720°	±360°	±360°
T-Axis (Wrist Twist)	±360°	±360°	±360°	±720°	±360°	±360°
Maximum Speed						
S-Axis	185°/s	2.0 m/s	2.0 m/s	2.0 m/s	2.0 m/s	155°/s
L-Axis	185°/s	2.0 m/s is composite speed of all axis				125°/s
U-Axis	185°/s					155°/s
R-Axis	360°/s					450°/s
B-Axis	410°/s					550°/s
T-Axis	500°/s					650°/s
Approximate Mass	110 kg 242.6 lb	540 kg 1,190.7 lb	650 kg 1,433.3 lb	590 kg 1,301 lb	820 kg 1,808.1 lb	1,030 kg 2,271.2 lb
Power Consumption	1.5 kVA	5 kVA	5 kVA	5 kVA	5 kVA	5 kVA
Allowable Moment						
R-Axis	8.0 N•m	45.8 N•m	77.7 N•m	45.8 N•m	45.8 N•m	72 N•m
B-Axis	8.0 N•m	33.8 N•m	49.9 N•m	33.8 N•m	33.8 N•m	51.5 N•m
T-Axis	3.0 N•m	10.8 N•m	19.6 N•m	10.8 N•m	10.8 N•m	19.6 N•m
Allowable Moment of Inertia						
R-Axis	0.20 kg•m ²	1.45 kg•m ²	2.45 kg•m ²	1.45 kg•m ²	1.45 kg•m ²	10.5 kg•m ²
B-Axis	0.20 kg•m ²	0.79 kg•m ²	1.20 kg•m ²	0.79 kg•m ²	0.79 kg•m ²	6.5 kg•m ²
T-Axis	0.07 kg•m ²	0.10 kg•m ²	0.20 kg•m ²	0.10 kg•m ²	0.10 kg•m ²	0.8 kg•m ²

MOUNTING: F=FLOOR; W=WALL; C=CEILING; S=SHELF

N/A = NOT APPLICABLE

TECHNICAL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

* +90°/-130° (S=±90°)
 * +30°/-130° (S=+90°/+120°)
 * +30°/-130° (S=90°/-120°)



WORLD-LEADING CUSTOMER SATISFACTION!

YOUR PARTNERS IN PERFORMANCE

24-HOUR HOTLINE: 937.847.3200

Mission Statement

Motoman Robotics is dedicated to delivering high quality, innovative automation solutions which help our customers to be world competitive and to providing the highest level of customer satisfaction in the automation industry.

- Technical Education Center
 - IACET accredited programs
 - Training classes on-site or at any of our eight centers in North America
 - Hands-on training; maximum two students per robot
- Customer Care Center
 - One call support; 24/7 coverage
 - Web-based Customer Care Center (anywhere, anytime access to self-serve capabilities)
- Field Services
 - Regional and COE-based technicians
 - Application-specific trained resources
 - Included in installation and start-ups
- Support program offerings include:
 - Robot Life Cycle Management (service and maintenance plans)
 - RobotPro® software (maintenance, troubleshooting and documentation)
 - Condition-based maintenance (diagnostics monitoring)
 - Rebuilds, repairs and retrofits

CUSTOMER SATISFACTION IS OUR #1 GOAL!

GLOBAL SUPPORT NETWORK

HEADQUARTERS

Motoman Robotics
100 Automation Way
Miamisburg, OH 45342
Tel: 937.847.6200
Fax: 937.847.6277

U.S. REGIONAL FACILITIES

Detroit Regional Center
2050 Austin Avenue
Rochester Hills, MI 48309-3665
Tel: 248.668.8800
Fax: 248.668.8811

Los Angeles Regional Center

1701 Kaiser Avenue
Irvine, California 92614
Tel: 949.263.2640
Fax: 949.263.2644

INTERNATIONAL FACILITIES

Yaskawa Motoman Canada Ltd.

3530 Laird Road, Unit 3
Mississauga, Ontario L5L 5Z7
Canada
Tel: 905.569.6686
Fax: 905.569.2240

Yaskawa Motoman Mexico S.A. de C.V.

Circuito Aguascalientes Oriente 134-C
Parque Industrial del Valle
de Aguascalientes
Aguascalientes, AGS. Mexico 20140
Tel: 52.449.973.1170
Fax: 52.449.973.1171

Yaskawa Motoman Canada Ltd.

Montreal Technical Center
298 Labrosse
Pointe Claire, Quebec H9R 5L8
Canada
Tel: 519.693.6770
Fax: 519.693.9212

Yaskawa Motoman Mexico S.A. de C.V.

Monterrey Mexico Regional Office
Av. Regioparque #128
Fracc. Industrial Regioparque
Apodaca, N. L. C. P. 66633 Mexico
Tel: 52.81.8386.8113
Fax: 52.81.8386.8112

Motoman Robotica do Brasil

Via Anchieta km 22,5 - n.129 - Unid.3 -
Vila Marchi
09823-000 - São Bernardo do Campo - SP
CEP 04304-000
Tel: 5511.4352.3002
Fax: 5511.4352.3338

www.motoman.com