

## ArcWorld® IV-6000-1555

with DX200 Controller

ARCWORLD IV-6000 | ARCWORLD IV-6200 | ARCWORLD IV-6300

### KEY BENEFITS

Coordinated motion between robot(s) and positioner axes is standard

Multiple robot configurations provide “HyperProductivity”

Robot, positioner and workcell covered by single warranty and industry-leading global service organization

Standard workcell is documented and supported by single source – Yaskawa Motoman

- Common cell base supports fencing and provides an elevated platform for programmers. Removable deck plates provide access for cable routing.
- Controller(s), power source(s) and auxiliary equipment ships on the same base reducing cable connections and installation time.
- Twist-lock connectors are included on all interconnecting cables.
- Positioner base and cell base bolt together for easy layout and positive location. All bases have leveling bolts with lag provisions.
- Sliding interlocked door in rear of cell provides easy programming access.
- World’s fastest MA1440 arc welding robots can reduce cycle time by 15 percent; multiple robots can be combined for HyperProductivity®.
- Configuration options include the extended reach MA2010 or 7-axis VA1400 II welding robots.
- Enhanced safeguarding, including Functional Safety Unit (FSU), is fully compliant with latest robot safety standard (ANSI/RIA R15.06-2012).

### RM2-1555 POSITIONER

- Positioner provides 1,555-kg per side payload capacity.
- Fast positioner index times of 6.5 seconds.
- Patented MotoMount™ fixture mounting system facilitates fixture changes and extends life by reducing stresses in bearings.
- Provisions for utilities include a 41 mm tailstock thru-hole; standard slip rings allow continuous rotation for DeviceNet fixture signals and 1/2-inch air line.
- Standard workcells are provided with 3.0 or 3.5 meter spans and with 1.5-m turning diameter.
- Easy-to-program RM2 positioner provides coordinated motion and infinite part positioning. The weld joint can be kept in a gravity-neutral welding plane, improving weld quality.
- Yaskawa Motoman’s Twin Synchronous software allows two or three robots to be coordinated with the positioner.
- Reduced cycle time due to part positioning while stations switch.

### SPECIFICATIONS

1,555-kg capacity per side positioner

3- or 3.5-meter part span

MotoMount fixture mounting

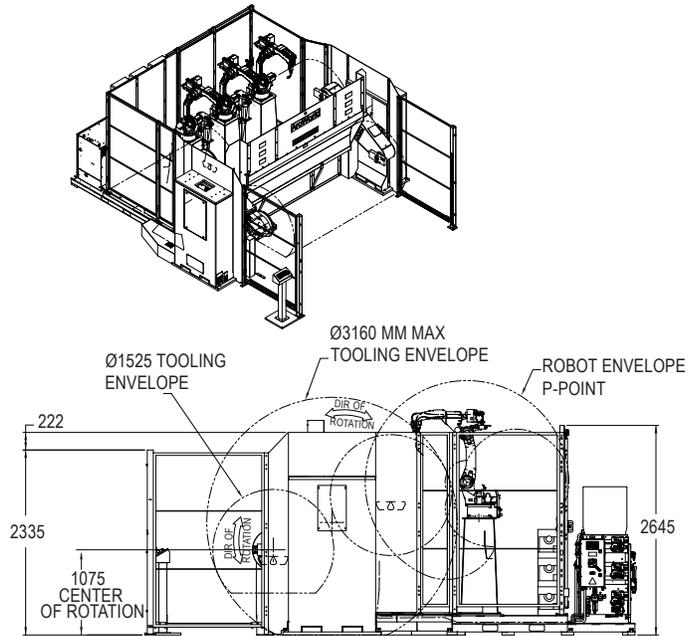
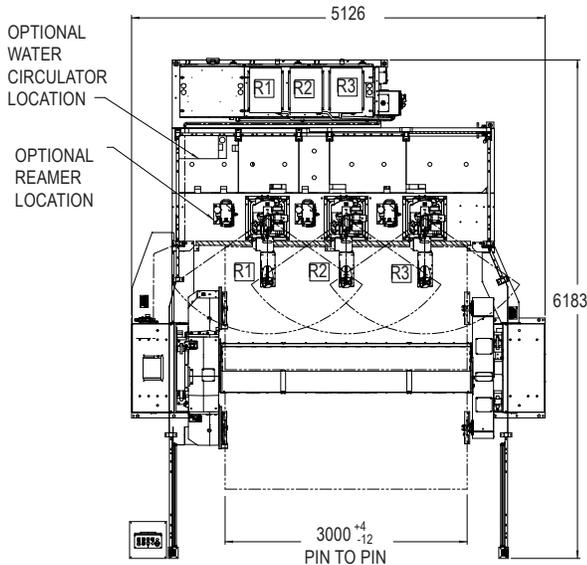
1,525 mm part turning diameter

### ROBOTS



MA1440 MA2010 VA1400 II

# ARCWORLD IV-6000-1555



ArcWorld IV-6300-1555 shown.

All dimensions are metric (mm) and for reference only.  
Request detailed drawings for all design/engineering requirements.

## SPECIFICATIONS

<p><b>Robot</b> MA1440 (AWIV-6200, AWIV-6300) 6 kg payload; 1,440 mm reach MA2010 (AWIV-6000, AWIV-6200, AWIV-6300) 10 kg payload; 2,010 mm reach VA1400 II (AWIV-6000, AWIV-6200, AWIV-6300) 7-axis; 3 kg payload; 1,434 mm reach</p>	<p><b>ArcWorld Welding Package</b> HyperStart™ Weld-in-Teach mode function Graphic arc files Digital weld interface Integrated torch package Arm-mounted 4-roll wire feeder Welding power source Two-year torch cable warranty</p>	<p><b>RM2-Series Positioners</b> 1,555 kg payload capacity per side 6.5-second rapid index time Three AC servo motor drives 3,000 mm or 3,500 mm part length 1,525 mm max. part diameter (see part envelope) MotoMount fixture mounting system Tailstock thru-hole: 41 mm Ergonomic load and program heights Slip ring for fixture utilities (DeviceNet or Ethernet) and 1/2 in. air line</p>
<p><b>DX200 Controller</b> Modules (full size) for dual or triple robots Programming pendant with single point of control Large color touch screen USB and CF card memory storage Standard Workcell Software Functions Multi-tasking (up to 7 jobs at once) Coordinated motion Twin synchronous Mirror copy Ladder logic editing/display Collision detection Software weaving Ethernet port Fieldbus I/O options</p>	<p><b>Workcell Features</b> Common cell base and programming platform Pneumatic F/R/L with manifold Power distribution (with multiple robots)</p>	<p><b>Total Safety Environment</b> <i>(in compliance with ANSI/RIA R15.06-2012 and Canadian safety standards.)</i> Safety-rated, tamper-resistant interlocks Single point of operator control Barrier guarding with protective arc curtains Cycle start button interlocked w/safeguards L shaped, dual-channel light curtains Sliding interlocked door at rear of cell Functional Safety Unit (FSU) to monitor station axis on operator side Safety PLC</p>
	<p><b>Operator Control (pedestal-mounted)</b> E-Stop Illuminated push button cycle start (latching relay interlocked for safety) Joystick for jogging station axis Remote start/hold</p>	

## OPTIONS

- Binzel or Tregaskiss torches and reamers
- Variety of weld packages; Miller, Fronius, Lincoln
- Wide variety of fieldbus cards and HMIs
- Vision systems
- Seam tracking and seam finding packages
- Tip changing service window
- ToolSight® TCP gauge

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