ArcWorld® IV-6000SL
with DX200 Controller

**KEY BENEFITS**
- 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).

**SPECIFICATIONS**
- 755- or 1,255-kg payload
- 2- or 3-meter part span (others available)
- MotoMount fixture mounting
- 1,300 mm part turning diameter
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**RM2 SLIM LINE POSITIONER SERIES**
- Positioner available with 755- or 1,255-kg payload capacity.
- Fast positioner index times of 2.9 or 3.8 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 2.0 or 3.0 meter spans and with 1.3-m turning diameter. Optional spans available from 1.5 to 4.5 meters.
- 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.

**ROBOTS**
- MA1440
- MA2010
- VA1400 II

**STANDARD, PRE-ENGINEERED ARC WELDING SOLUTION**

**YASKAWA**

**ARCWORLD IV-6000SL | ARCWORLD IV-6200SL | ARCWORLD IV-6300SL**
**SPECIFICATIONS**

**Robot**
- MA1440 (AW6000, AW6200, AW6300)
  - 6 kg payload; 1,440 mm reach
- MA2010 (AW6000, AW6200)
  - 10 kg payload; 2,010 mm reach

**DX200 Controller**
- 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

**ArcWorld Welding Package**
- 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

**Workcell Features**
- Common cell base and programming platform
- Pneumatic F/R/L with manifold
- Power distribution (with multiple robots)

**Operator Control (pedestal-mounted)**
- E-Stop
- Illuminated push button cycle start
- (latching relay interlocked for safety)
- Joystick for jogging station axis
- Remote start/hold

**RM2-Series Positioners**
- MSR-755
- MSR-1255SL
  - Payload capacity per side (kg): 755, 1,255
  - Rapid index time (sec): 2.9, 3.8
  - Three AC servo motor drives
  - Three 2,000 mm or 3,000 mm part length
  - 1,300 mm max. part diameter (per part envelope)
  - MotoMount fixture mounting system
  - Tailstock thru-hole: 41 mm
  - Ergonomic load and program heights
  - Space saving positioner width
  - Slip ring for fixture utilities (DeviceNet or Ethernet) and 1/2 in. air line

**Total Safety Environment**
- (In compliance with ANSI/RIA R15.06-2012 and Canadian safety standards.)
- Safety-rated, tamper-resistant interlocks
- Single point of operator control
- Barrier guarding with protective arc curtains
- Cycle start button interlocked with 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

**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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