**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

**SPECIFICATIONS**

- 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).
- 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.

**ROBOTS**

- MA1440
- MA2010
- VA1400 II
**SPECIFICATIONS**

**Robot**
- 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

**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
- 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**
- 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

**Total Safety Environment**
(Compliant 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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ArcWorld IV-6300-1555 shown.
All dimensions are metric (mm) and for reference only.
Request detailed drawings for all design/engineering requirements.