

ARC STATION AS-I with MA1440 /DX200

WORLD SOLUTION = PRE-ENGINEERED, STANDARDIZED WORKCELL



Reduced Cost and Risk



Single-Source Support



Improved Quality and Documentation



Reduced Delivery Time



Quick Setup



Warranty for Workcell

The Arc Station AS-I is a compact, affordable solution for welding small-to medium-size parts at medium to high production volume. The space-saving design enables all the equipment to be mounted on a single base for quick setup

HIGHLIGHTS

EASY TO SET UP, PROGRAM & MAINTAIN

- All equipment is mounted to a single base that just needs to be spotted, powered & programmed
- Installation is simple, quick & can be done in less than a day
- All the cable ducts are inside the platform providing free movement inside the cell
- Easy to move the cell from one place to another on shop floor using fork lift without dismantling
- Most Programming can be done with the programmer outside the cell
- Cell has 2 stations, so loading-unloading time is masked & hence only 1 operator is required to do loading-unloading on each station
- Panel & Junction Boxes are operable from outside the cell, providing easy access for maintenance from outside the cell

SAFETY FEATURES

- **WELDING CURTAINS:** Manual or Automatic (optional) welding curtains for protecting operator from harmful UV rays
- **UNIQUE ENCLOSURE AROUND THE ROBO:** Area sensors & maintenance door switch gives the priority for safety environment
- **PRESSURE SWITCHES:** Digital air pressure & gas flow switch to meet system required flow

FLEXIBILITY

- **NO NEED TO MODIFY PLC PROGRAM:** Quick clamping & sensor sequence can be set
- Replacable fixtures up to 6 different models/station are possible by setting clamping sequence in HMI
- Provision for using torch cleaner & wire cutter can be added later
- Provision for using stationary fixture base or YIND rotary positioner PS500 with base frame

ARC MASTER ROBOT

- Standard with newly launched MA1440 welding robot
- **IMPROVED WELDING QUALITY:** With payload of 6 kg mounting

TOP 3 REASONS TO BUY!!

- Very space-efficient workcell designed to maximize plant productivity
- Variety of positioner & stationary fixture base to suit different applications & budget
- **Setup of cell is easy as:** (1) Spot Equipment (2) Connect Utilities (3) GO! Start Programming and Welding

of various sensors and a servo torch is possible. Supports built-in & external torch cables in 1 robot

- **REDUCED CYCLE TIME:** The MA1440 has reduced base axis travelling distance by shortening the robot wrist part (distance from B-axis to T-axis center point).

Reducing cycle time is made possible by optimizing robot motion efficiency.

- **REDUCED INTERFERENCE:** Newly designed streamlined arm reducing interferences with jigs & making close range welding possible

DX200 CONTROLLER

- **HIGH DENSITY PLACEMENT:** Low floor board for stacking minimizes installation space
- **SAFETY FUNCTIONS:** Multi-function safety signal supported by Safety Field bus (without extra wiring) Safe Torque Off supported (Device NET safety, PRO FI safe, etc.)
- **PREVENTIVE MAINTENANCE F/C FOR HARDWARE:** The DX200 provides a function that estimates the life span of the controller hardware and prompts hardware replacement before a malfunction occurs

PART POSITIONER OPTIONS

- **STATIONARY TABLE KIT:** The most basic level provides risers to rest table top or fixture. Locator pins and bolt holes are provided for repeatable fixture changeover
- **PS500 HEADSTOCK/TAILSTOCK POSITIONER:** Very economical positioner provides very high payload capacity up to 500 kg

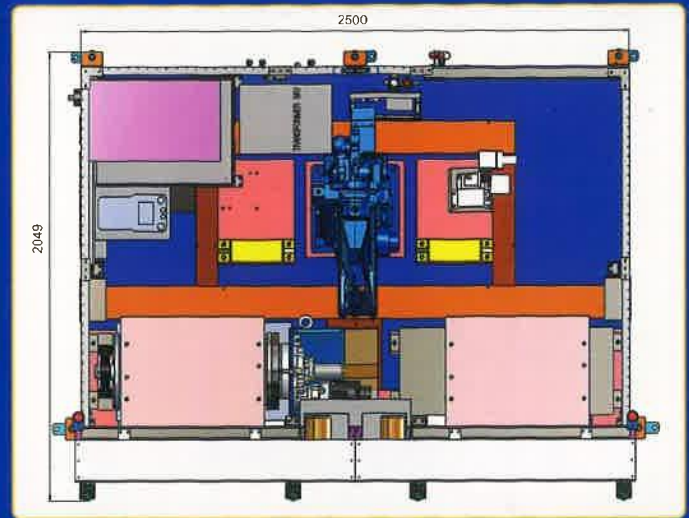
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FRONT VIEW



TOP VIEW



SYSTEM SPECIFICATIONS

Arc station cell	Dimensions: 2.50m (W) X 2.05m (D) X 2.23m (H) Weight : 1.5 Ton (without Robot) 1.8 T (with Robot) No. of Programmable fixtures : 6 (each station) Maximum Part size : 500mmx500mm
MA1440 Robot	6Kg payload In-Line , 6-axis, articulated design 1440 mm reach +/- 0.08 (+/- 0.003") repeatability
DX 200 Controller	Programming pendant with single point of control. Graphic input of welding parameters. Large 5.7" colour touch screen. Menu-driven arc welding application software, Arc restart/retry capabilities Memory : 200,000 steps, 10,000 instructions Password protection : 4 Level, 100 users. Collision detection software.
PLC Panel	PLC controlled Network communication system to avoid the complicity of hard wiring. HMI, Voltmeter, Ammeter, Rest Push Button, Indication lamps and emergency push Buttons are mounted on panel itself.
Utility connections	Input Supply Robot: 3-phase 200 VAC at 50Hz, 2 KVA (with stationary fixtures) Cable Size-4 core 6mm sq Input Supply for Power source : 3 - Phase 415 VAC at 50Hz, 20KVA Cable - 4 core 16 mm sq. Air supply : Compressed and Dry Air (5-6 Bar) Shielding gas supply : Co2/ArCo2 (15-18 LPM).
Motoweld Package	WR100 (SR350), WL200 (RL350)

FEATURING - BASIC & OPTIONAL MODULES

Sl.No.	Items	Basic	Optional
1	MA 1440 robot with DX200 controller	✓	
2	Common base with robot pedestal & fixture base	✓	
3	Power source RL350/SR350	✓	
4	PLC panel (600X500X200mm) with HMI inbuilt.	✓	
5	Operator safety curtains	✓	
6	Manual welding curtain	✓	
7	Motorized welding curtain option		✓
8	Pneumatic welding curtain option		✓
9	Nozzle cleaning and cutting unit		✓
10	Isolation step down Transformer		✓
11	Stationary Table Frame with spatter collection Tray		✓
12	Positioner Table Frame with spatter collection Tray		✓
13	YIND Positioner PS500		✓



24x7 CUSTOMER SUPPORT

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**WELDING
OPTIONAL
FUNCTION**

Nozzle Cleaner & Wire Cutter

Start Point Search Function

Laser Aided Seam Finding