
UPDATED

H&H 100KVA 480V/3PH ROBOTIC WELD CELL

- New MotoMan gp 80 kg robot MS80W six axis robot “see attached PDF for details”
 - Includes two Motoman training credits
- New 100 KVA Roman welding transformer
- 16” throat depth Robot style weld head
- Weldcomputer wave synthesis welding control
 - Includes:
 - L series inverter
 - Wave synthesis technology
 - Integrated weld monitor and keypad
 - Monitoring
 - Current
 - Pressure
 - Digital contact gage
 - 100 amp three phase disconnect included
- Steel integrated robot platform and rotary table with 96” diameter table, for easy transport and set up
- Servo control rotary motion on “A/B” table
- Two pair of fixtures included in price (customer to specify exact parts for final quote)
- Complete guarding with one entry gate with safety lockout switches
- 3-4 days of onsite commissioning and training at your facility.

PRICE.....

DELIVERY: To Be Confirmed At Time of Order

F.O.B.: Shipping Point

TERMS:

New 50KVA Press Head Spot Welder

Machine Specifications:

One New P280 welding controller

2 stage footswitch

50 KVA 480/480V Roman single phase welding transformer (strapped for 480v)

24" throat depth

24,000 amp secondary

Adjustable gap

3.5" Bore 2" Stroke Pneumatic cylinder

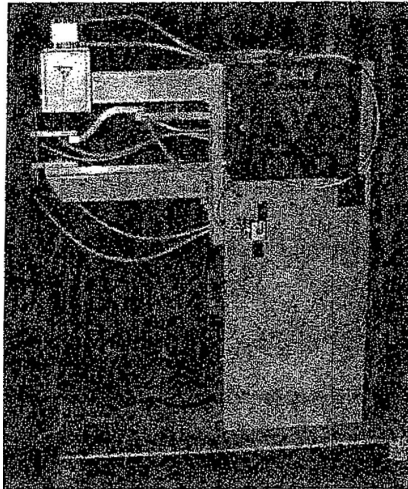
770 LBS electrode force @ 80 PSI

Ejector 5rw electrode holder

Pneumatic speed control

Water cooled transformer, electrodes and secondary

1 yr warranty on machine 5 years on control (see condition of sale for all Warranty details)



OPTIONAL

H&H Large Chiller.....

Includes:

1 ton compressor

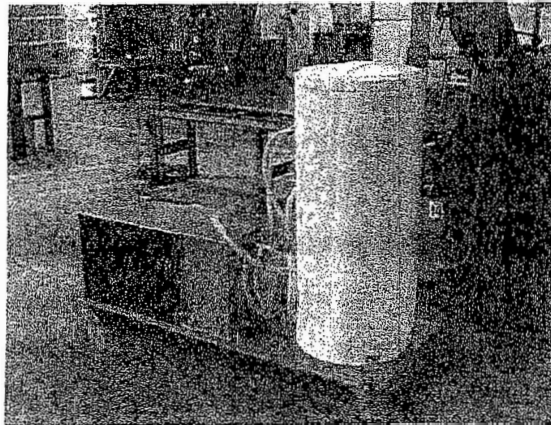
1 high capacity pump

1 circulation pump

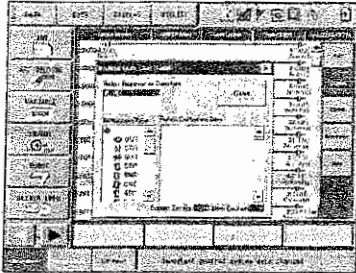
35 gal water reservoir

Mounted on steel base

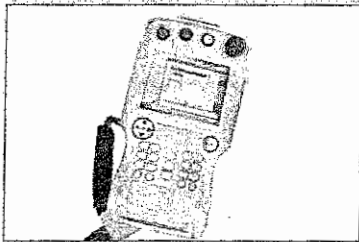
Unit requires (2) 110V 20 amp circuits



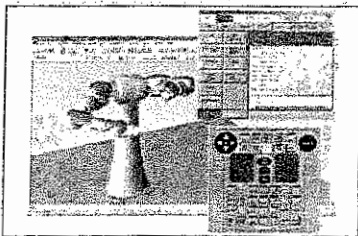
YASKAWA
MOTOMAN ROBOTICS



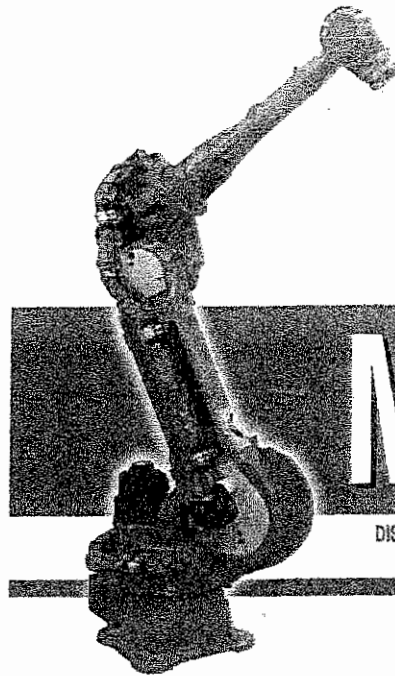
PENDANT LADDER EDITOR



DX100 PROGRAMMING PENDANT



MOTOSIM EG-VRC (OPTION)



MS80W

DISPENSING • MACHINE TENDING • MATERIAL CUTTING
MATERIAL HANDLING • PRESS TENDING

Payload: 80 kg

The six-axis MS80W is a powerful, flexible robot designed for a variety of processes. It features fast axial speeds and acceleration which reduces cycle times and increases production output.

TOP REASONS TO BUY

- 29 conductors up the arm (using multiple cables) provides utilities and controls for a variety of complex applications.
- Five air lines for a variety of applications
- Power saving design, reduces power consumption up to 25%
- Lightweight programming pendant
- Easy-to-use integrated vision available as an option

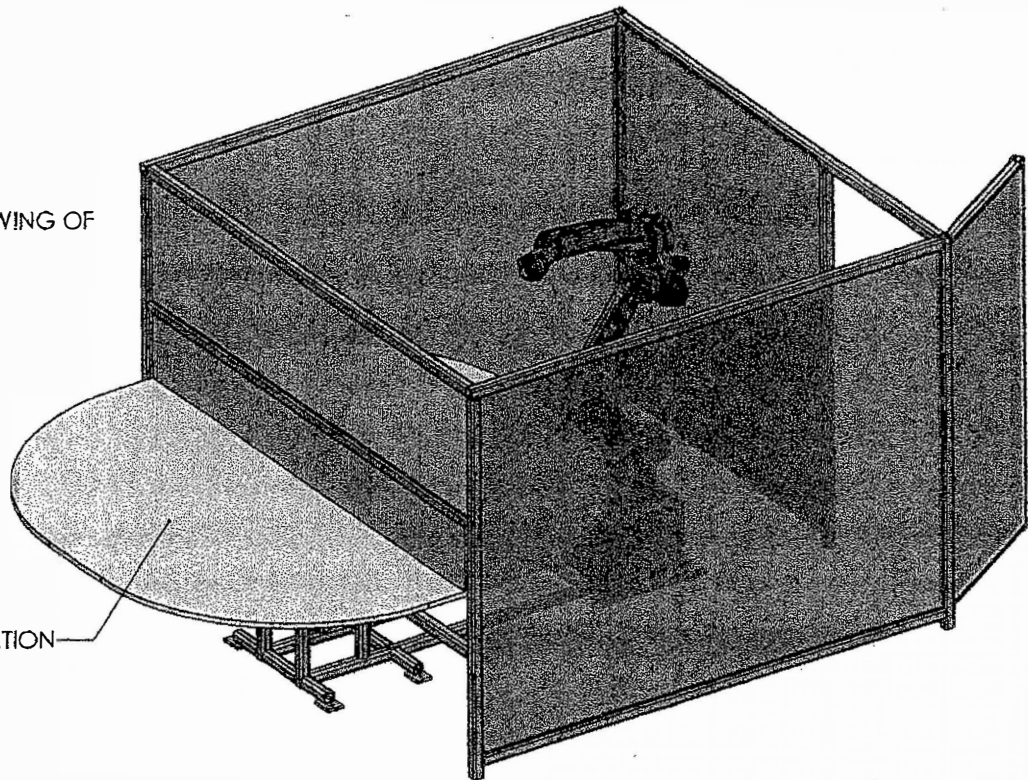
Powerful Performance in a Mid-size Robot

- Powerful, high-speed robot offers superior performance in dispensing, machine tending, material cutting, material handling and press tending applications.
- 530 mm wide body; 2,236 mm reach; 80 kg payload; ± 0.07 mm repeatability.
- Can be placed close to workpieces and other robots for flexible, high-density layouts. These configurations can eliminate multiple stations, resulting in shorter production lines.
- The MS80W can be floor- or shelf-mounted. Brakes on all axes.
- Large work envelope extends behind robot, allowing space for robot tool storage or maintenance.
- Pre-wired to accommodate servo gripper; allows wider range of product handling.

DX100 Controller

- Patented multiple robot control supports up to 8 robots/72 axes.
- Collision avoidance software prevents robot interference.
- Windows® CE programming pendant with color touch screen and USB interface.
- Faster processing speeds for smoother interpolation. Quicker I/O response. Accelerated Ethernet communication.
- Extensive I/O suite includes integral PLC and touch screen HMI, 2,048 I/O and graphical ladder editor.
- Supports all major fieldbus networks, including EtherNet/IP, DeviceNet, Profibus-DP and many others.
- Compliant to ANSI/RIA R15.06-1999 and other relevant ISO and CSA safety standards. Optional Category 3 functional safety unit.
- Interface panel function allows the programming pendant to be configured as a system HMI.

THIS IS A CONCEPT DRAWING OF
PROPOSED WELD CELL
OPERATOR SIDE VIEW



OPERATOR LOADING STATION

REMOVE ALL SHARP
EDGES. ALL FLAME CUT
EDGES GROUND
SMOOTH. REMOVE ALL
WELD SPATTER.

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ± 1 DEGREE
ANGULAR: MACH \pm BEND \pm
FOUR PLACE DECIMAL ± 0.003

DRAWN
CHECKED
ENG APPR.

NAME DATE
CC 12/14/2015

HH H&H RESISTANCE WELDERS
TITLE:

SIZE DWG. NO.

A

REV

PROHIBITED:

DO NOT SCALE DRAWING

5

4

3

2

1

ROBOT POWER SUPPLY
AND WELDING CONTROL
MOUNTED OUTSIDE
ROBOT ENCLOSURE

FLASH GUARDING MOUNTED TO TABLE

96" DIAMETER
FIXTURE TABLE
WITH MODULAR FIXTURE
COMPONENTS

SINGLE BASE ROBOT
PLATFORM AND SERVO
ROTARY TABLE

YASKAWA MS80W KG
ROBOT

GRID WIRE SAFETY FENCING

ACCESS DOOR
WITH SAFETY
INTERLOCKS

REMOVE ALL SHARP
EDGES. ALL FLAME CUT
EDGES GROUND
SMOOTH. REMOVE ALL
WELD SPATTER.

DO NOT SCALE DRAWING

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NAME DATE HH
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TITLE:

SIZE
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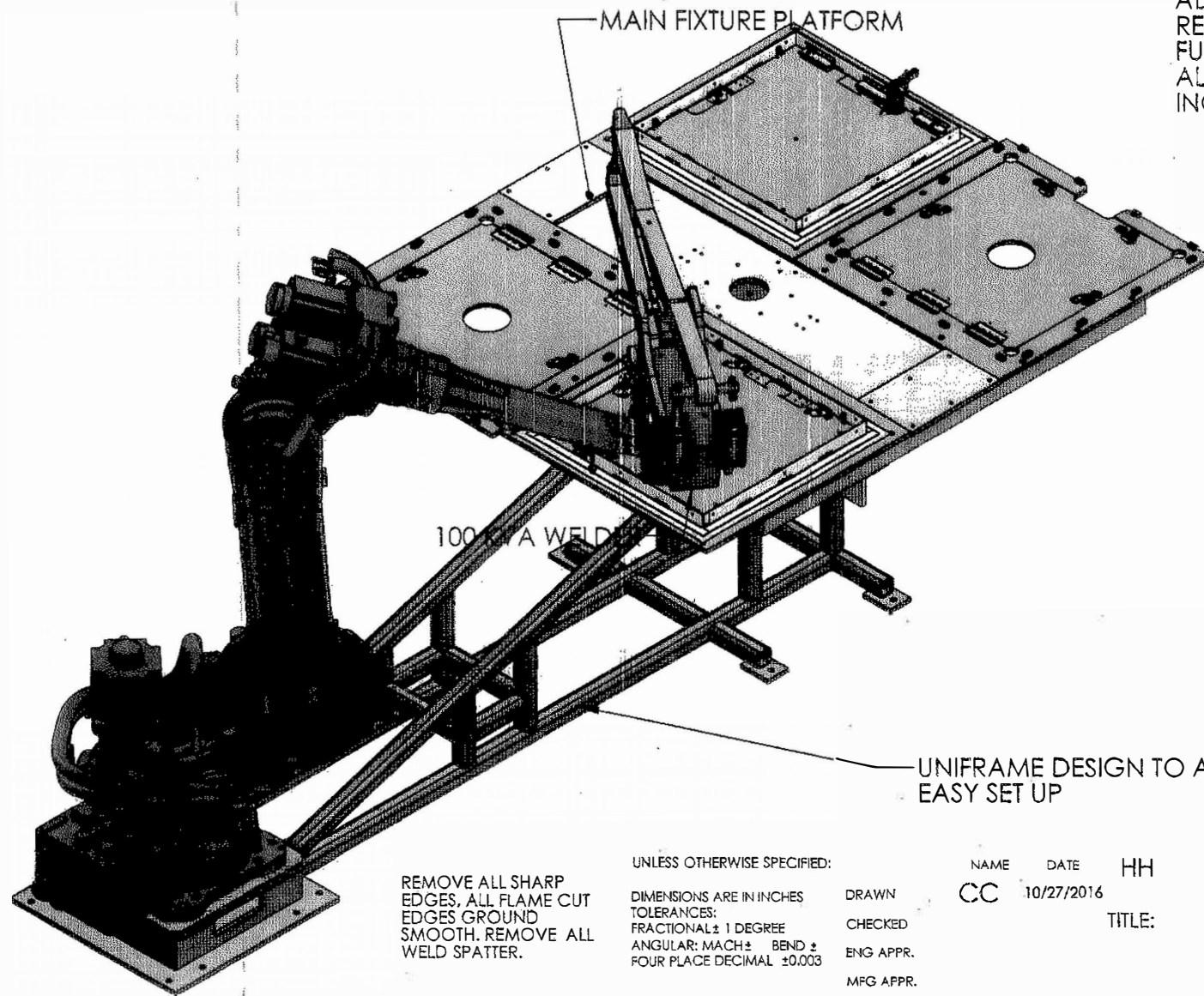
4

3

2

1

PROHIBITED.



ALL GUARDING HAS BEEN REMOVED FOR CLARITY. FULL GUARDING TO PROTECT ALL PERSONNEL WILL BE INCORPORATED.

MAIN FIXTURE PLATFORM

100% A WELD

UNIFRAME DESIGN TO ALLOW FOR RIGITY AND EASY SET UP

REMOVE ALL SHARP EDGES. ALL FLAME CUT EDGES GROUND SMOOTH. REMOVE ALL WELD SPATTER.

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ± 1 DEGREE
 ANGULAR: MACH ± BEND ±
 FOUR PLACE DECIMAL ±0.003

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NAME DATE HH
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 TITLE:

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INTERPRET GEOMETRIC TOLERANCING PER:
 MATERIAL

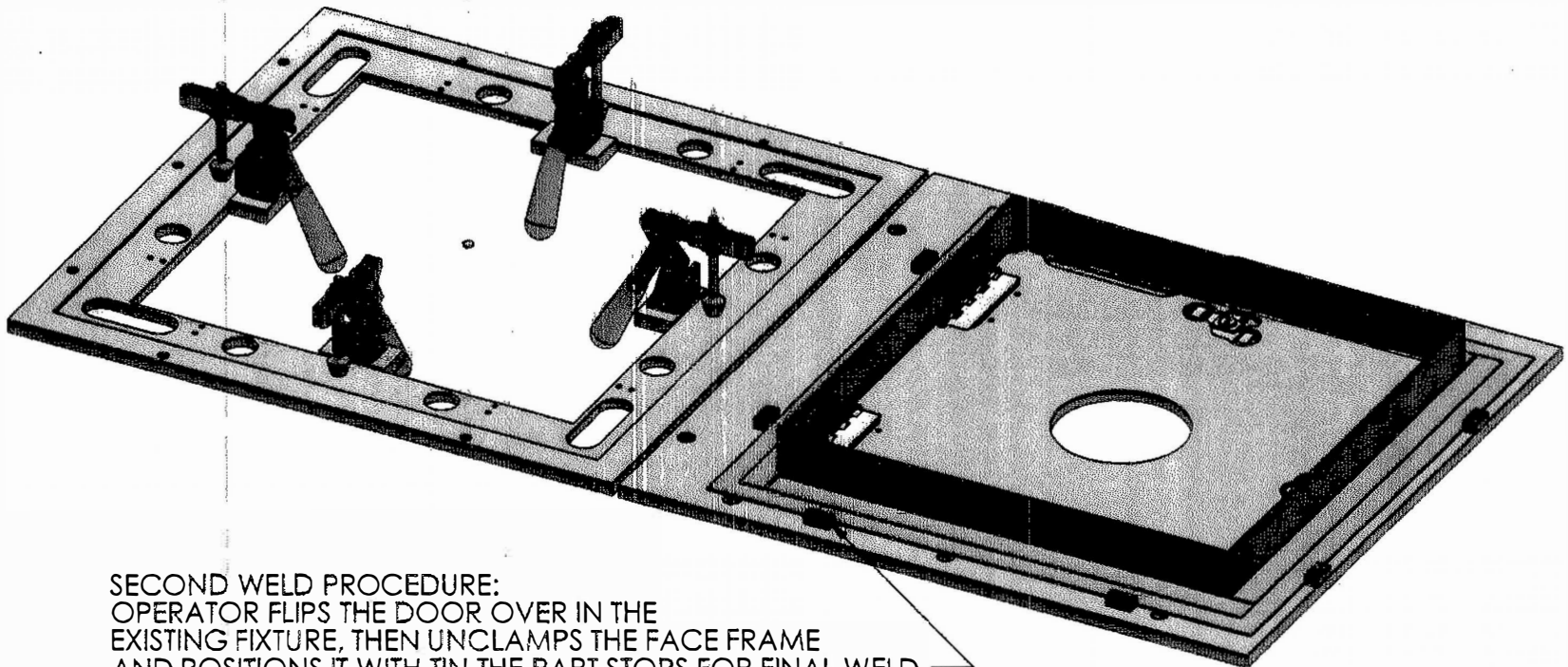
Q.A.
 WORK ORDER #

SIZE DWG. NO. REV
 A ROBOTIC WELD CELL

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SCALE: 1:48 WEIGHT:

SHEET 1 OF 36



SECOND WELD PROCEDURE:
 OPERATOR FLIPS THE DOOR OVER IN THE
 EXISTING FIXTURE, THEN UNCLAMPS THE FACE FRAME
 AND POSITIONS IT WITH THE PART STOPS FOR FINAL WELD.

REMOVE ALL SHARP
 EDGES. ALL FLAME CUT
 EDGES GROUND
 SMOOTH. REMOVE ALL
 WELD SPATTER.

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ± 1 DEGREE
 ANGULAR: MACH \pm BEND \pm
 FOUR PLACE DECIMAL ± 0.003

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 A ROBOTIC WELD CELL

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SCALE: 1:6 WEIGHT: SHEET 4 OF 36