

ROBOTIC SPOT WELDING CELL



Hytech Didactic Spot Welding Cell is a training cell with a SPOT welding Robot integrated with PLC – HMI and IIOT. Participants can carry out automated welding in integration with Servo Motor as well. Three experiment tables provide hands on experience on horizontal as well as vertical spot welding. Separate Central Control Unit with workstation and dual monitors provides easy access for the robotic as well as PLC programming.

Automated tip dressing unit along with profinet based i-o links master and i-o link based smart light provides necessary automation exposure to participants.

Offline Programming Software provided along with the training cell can help participants to develop the robot programs on the software.



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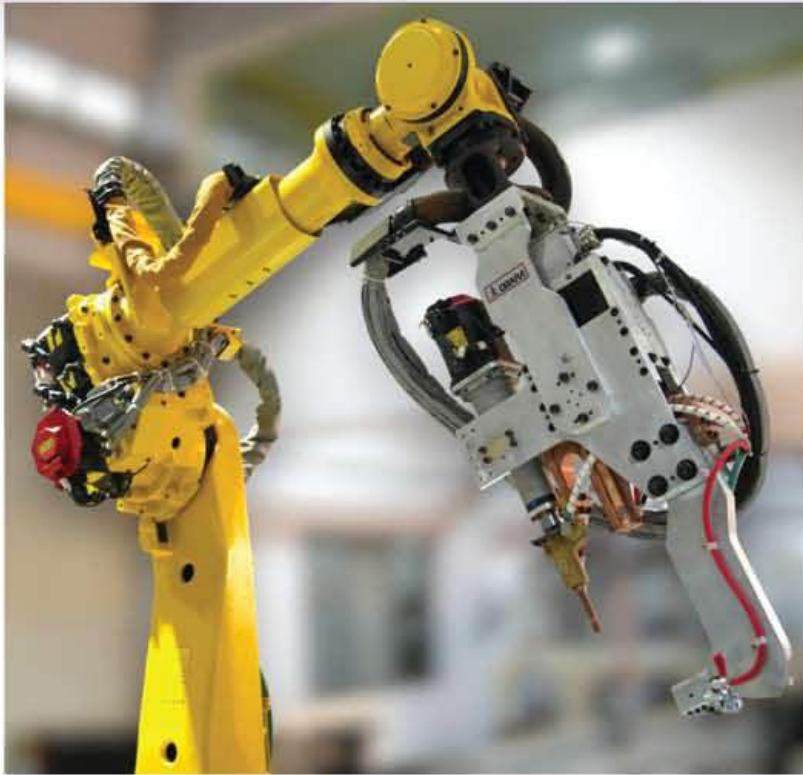
TV Screen can demonstrate the digital dynamic twin of the training cell.

HOW DOES THE SPOT WELDING CELL WORKS:

Participant does the Spot Welding programming on a Robot teach pendant or through offline programming software

External automation components such as sensors and servo motor and programmed through Siemens S7 1200 PLC.

Participants operate completely automated cycle in integration with Robot and PLC through Robot teach pendant and / or from Central control Unit.



ADVANTAGES OF HYTECH DIDACTIC SPOT WELDING CELL:

- Full setup with all necessary accessories to operate the training cell
- Industrial Gun with Auto Tip Dresser
- Spot Welding applications in integration with PLC, HMI and IIOT
- Automates Spot Welding Application in integration with Servo Motor, PLC and HMI
- Spot Welding Pedestal with Chemical Grouting Arrangement
- Recirculating Water Arrangement
- Offline Programming Software with perpetual validity



INDUSTRIAL APPLICATIONS OF SPOT WELDING:

- Automobile Industry
- Battery Manufacturing
- Electronics Industry
- Kitchenware

ADVANTAGES OF SPOT WELDING ROBOT:

- Fast, clean and efficient process
- Works without open flame
- Can join multiple metal sheets at the same time
- Does not need any filler material
- Does not need any inert gases

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