MECHANIC & AUTOMATION
SYSTEM DESIGN

SIBERNETIK with her experienced staff in custom machinery sector has completed many projects in cooperation with the leading companies of automotive industry.

Our dynamic staff works in a perfect harmony with our customers from the beginning of a project for the entire technological life of the product.

We intend to use the latest production and automation techniques in all the projects we carry on, in order to meet the demands of our customers.

This catalogue describes the technical characteristics of welding stations designed and produced by SIBERNETIK

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sibernetik
technology

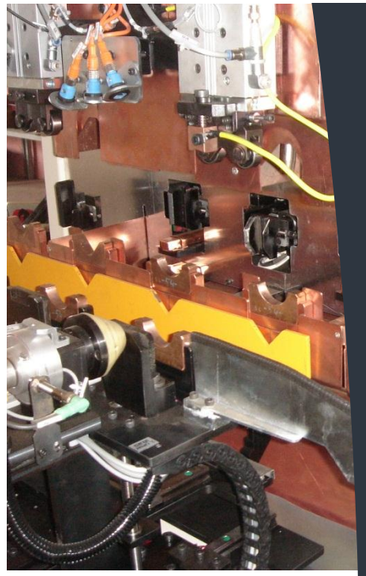
Welding Stations **WS**

special designs to meet customer demands

welding technology specific to your business

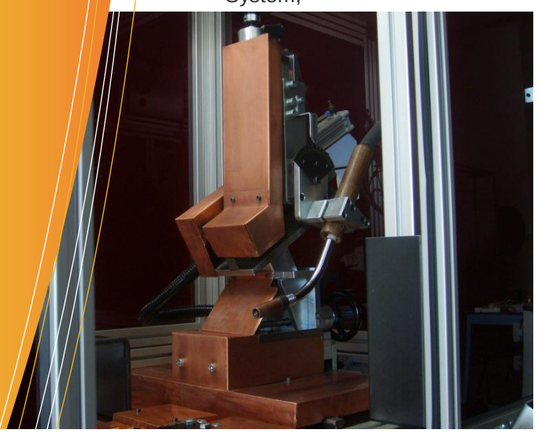
USES TECHNOLOGY RESOURCES THAT YOU NEED IN YOUR BUSINESS

- ✓ Operator manually loads the work piece manually on loading magazine,
- ✓ Work piece presence is detected by a sensor on loading magazine,
- ✓ Operator pushes bi-manual buttons,
- ✓ Sliding door closes,
- ✓ According to the parameters entered from the operator panel welding torches begin their movement,
- ✓ Shock Absorber piston is held by pneumatic cylinders,
- ✓ Welding torches begin welding operation in welding zone,
- ✓ At the end of welding, wire fed is stopped,
- ✓ Positioning servo movement is stopped,
- ✓ Welding torches and blocking groups move back,
- ✓ When torches and blocking groups in parking position sliding doors open automatically,



SPECIAL SOLUTIONS IN THIS PROJECT

- ✓ Multi Welding
  - Single Torch Welding
  - Double Torch Welding
- ✓ Stationary System
  - Loading
  - Welding
  - Unloading
- ✓ Welding Motion
  - Lineer Welding
  - Rotative Welding
- ✓ Instantaneous Velocity Control,
- ✓ Instantaneous Control of Welding Parameters,
- ✓ Ventilation
- ✓ Parametric HMI Application for Process Prescribing System
- ✓ Automatic Material Transfer System,

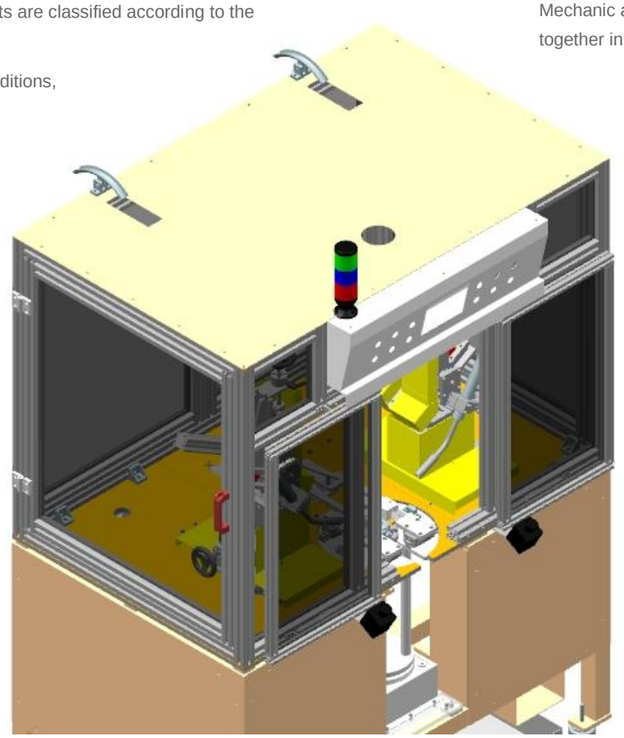


flexible solutions for your business

PROJECT MANAGEMENT

System requirements are classified according to the following items,

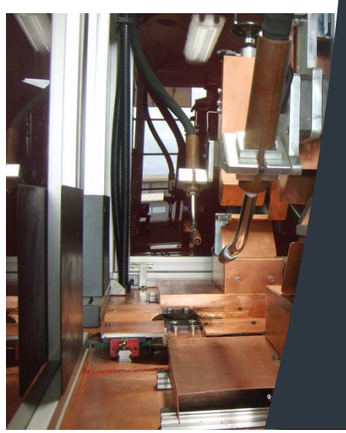
- ➢ Fabrication Conditions,
- ➢ PLC
- ➢ HMI
- ➢ Servo System
- ➢ Nutrunner
- ➢ Synoptic
- ➢ Safety



PROJECT REALIZATION

Mechanic and automation system realizations run together in great harmony;

- ➢ Fabrication Conditions,
- ➢ Lay-Out
- ➢ Mechanic System
- ➢ Hydraulic System
- ➢ Pneumatic System
- ➢ Ergonomics
- ➢ Safety



CUSTOMARY SOLUTIONS

Customary solutions are developed that will meet your demands according to your fabrication standards

3D CAD DESIGN

Systems are designed, using registered 3D CAD softwares on professional workstations

INNOVATIVE SOLUTIONS

One of the best solutions is applied after all alternatives are offered and discussed in cooperation