



SOL WELDING INFO

NO. 2

APRIL 2004

EASY ROBOT ROBOT WELDING ISLAND

We are pleased to present the very latest product in our E-Robot automated welding line: the new "Easy Robot" welding island.

Distinguished by its compact design and ease of transport, the **Easy Robot** island is composed of an aluminium enclosure (size 2x3 m), which accommodates the following parts as standard:

- E-Robot E 10 robot: a multiple function anthropomorphic robot with six controlled axes having a load capacity of 10 kg. Thanks to its magnesium alloy construction and zero backlash gear units with integral bearings, the robot ensures excellent levels of performance.

The E 10 features the maximum dexterity and, thanks to the absence of balancing parts, it is able to reach extreme positions.

In addition, the six brushless servo-motors equipped with service brake and absolute resolver provide very high accuracy, safety, and reliability.

- EQØ9 controller with six robot axes expansion
- Mig TRC 320 power source
- Mig 350 A welding torch
- 4-roller feed unit for Mig TRC 320 power source
- Analog interface for Mig TRC 320 welding unit
- UPT14 automatic torch cleaning unit
- Station changer with manual rotation: both stations feature 100 kg capacity load extension of 1500 mm (radius of rotation is 750 mm).

Position precision is ± 0.1 mm.

The station changer is equipped with an anti-irradiation partition; the division is 180° for the vertical axis station changer.



- Station changer management controller
- Dedicated welding software
- Programming terminal with teach-in functions from keyboard and LCD screen
- Anti-collision coupling

Customers can also order the following optional equipment:

- Motorized station changer with safety photocells. Positioning precision is ± 0.1 mm also for this station changer. The changeover time is 5" (deceleration ramps are inverter controlled).
- Pulsed Synergic Power Source (Plus 352 CP H₂O Robot)
- Mig 350 A H₂O welding torch
- Robot Feed Unit for Plus 352 CP H₂O Robot power source
- Digital interface for Plus 352 CP H₂O Robot welding unit
- Fumes suction hood

The flexibility of the **Easy Robot** welding island allows it to be used in a broad variety of different sectors, namely:

- Components for metal furniture
- Components for agricultural furniture
- Components for the automotive industry
- Components for metal fabrication

In addition, in order to supply a comprehensive level of service that is responsive to the needs of our customers, we have decided to package our offer for the **Easy Robot** welding island with a two-day user training course held at our headquarters. This enables us to explain the full range of functions of the robot island in a hands-on face-to-face context, clearing up doubts and solving potential problems by working directly with users.