

Flexible, safe and easy collaborative welding solution from Guidetti Technology

EasyArc automated welding solution with OMRON cobots assists expert welders in repetitive processes.

Guidetti Technology SRL has integrated OMRON collaborative robots (cobots) into its 'EasyArc' welding solution. This is used in collaborative applications on small batches of various types of metal carpentry.

Based in Modena, Italy, Guidetti has 50 years of experience in the sale, installation and servicing of welding systems. The cobot is being used to streamline repetitive welding processes. It is combined with OMRON's intuitive NB7 operator panel and NXP2 PLC, along with Fronius' state-of-the-art modular welding technology. It can be used for a wide range of welding processes, including

MIG Short / Spray, Pulsed, LSC, PMC, STEEL, the innovative Cold Metal Transfer (CMT), TIG, and Plasma (with and without filler material).

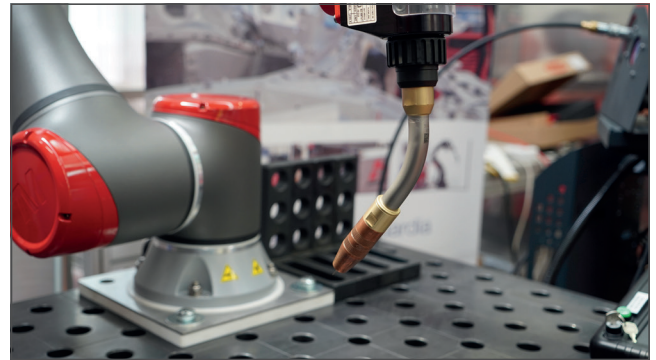
A complete interface integrates the management of all of the processes with the cobot controller. The aim is to help expert welders with repetitive work, without any special programming skills being needed. This frees them up to spend their time and energy on more difficult and demanding work. The welder can manually set a sequence of points for the trajectory to be executed and refine this with minimal instructions on the programming panel.



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This all ensures that Guidetti's solutions based on cobots can be implemented in production very quickly (for example, to cope with sudden increases in production or a temporary shortage of trained welders). Operator safety is ensured due to the system's safety features, which including reducing the speed and sensitivity of the axes so that they stop automatically in the event of an accidental impact.

The compact size and simplicity of reprogramming make it easy to move the cobot solution to different production areas within a plant. Integration within an Industry 4.0 system enables the solution to track data, particularly relating to certification, work cycle analysis, management interfaces and remote assistance. In summary, the EasyArc collaborative welding solution ensures steady production with a high level of quality for a low investment.



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About GUIDETTI TECHNOLOGY SRL

The Guidetti company was founded in Modena, Italy in 1971, by founder Erio Guidetti, with the name 'Casa della Saldatura', specialising in the welding sector. From a small sole proprietorship, which dealt with the sales and repair of welding machines in the Modena area, in 1982 it moved to a larger site and transformed into Tecno Saldatura. It subsequently became Guidetti Srl, specialising in the sale, installation and servicing of robot welding systems, with the aim of providing cutting-edge technologies to the mechanical industries of Emilia Romagna. In 2009 it became part of the Arroweld Italia SpA Group, becoming its reseller in Emilia-Romagna and expanding the range of products available to their customers. From this union, GUIDETTI TECHNOLOGY SRL was born. <https://www.guidettitechnology.arroweld.com>

About OMRON Corporation

OMRON Corporation is a global leader in the field of automation based on its core technology of 'Sensing & Control + Think'. OMRON's business fields cover a broad spectrum, ranging from industrial automation and electronic components to social infrastructure systems, healthcare, and environmental solutions. Established in 1933, OMRON has over 30,000 employees worldwide, working to provide products and services in 120 countries and regions. In the field of industrial automation, OMRON supports manufacturing innovation by providing advanced automation technologies and products, as well as through extensive customer support, in order to help create a better society. For more information, visit OMRON's website at: industrial.omron.eu