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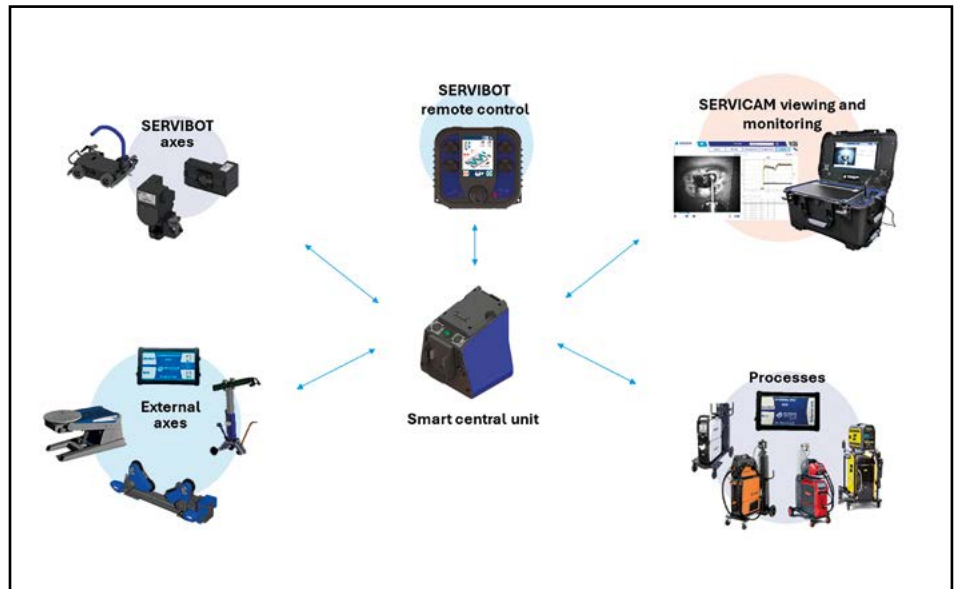
Automation

Modular mechanisation: an alternative to cobotics and robotics

“Innovations for welders”. In 2019, SERVISOUD embarked on the modernization of its legacy products... and opened up a whole new market: modular mechanisation. Lying somewhere between traditional welding carriages (still manufactured by the brand) and cobotic and robotic solutions, modular mechanisation is a pragmatic response to the needs of businesses.

Unlike the 6-axis systems necessary for cobotics or robotics, modularity is synonymous with minimalism. We meet the needs of the welding application using only the strict minimum. This makes the system easier to handle for the welder, and ensures the budget is tailored to fit the application’s level of complexity.

Integration is simplified by maximising the use of standard “plug & play” modules. This provides a solution that is at once robust, cost-effective and sustainable. Another benefit over special-purposes machinery: the option of pooling usages and reusing modules to rebuild a new system for another application.



SERVIBOT: A PLUG-AND-PLAY MODULAR SYSTEM

SERVISOUD is launching modular mechanisation with its new range of SERVBOT welding carriages. In common with all the brand’s products, these carriages are 100% designed and manufactured in France.

The system’s core aim is to streamline functions via technological bricks that can be cumulatively combined. Long-term scalability is guaranteed by

integrating all software and electronics developments into a single standard. This ensures ongoing compatibility with equipment already in production and simplifies updating procedures.

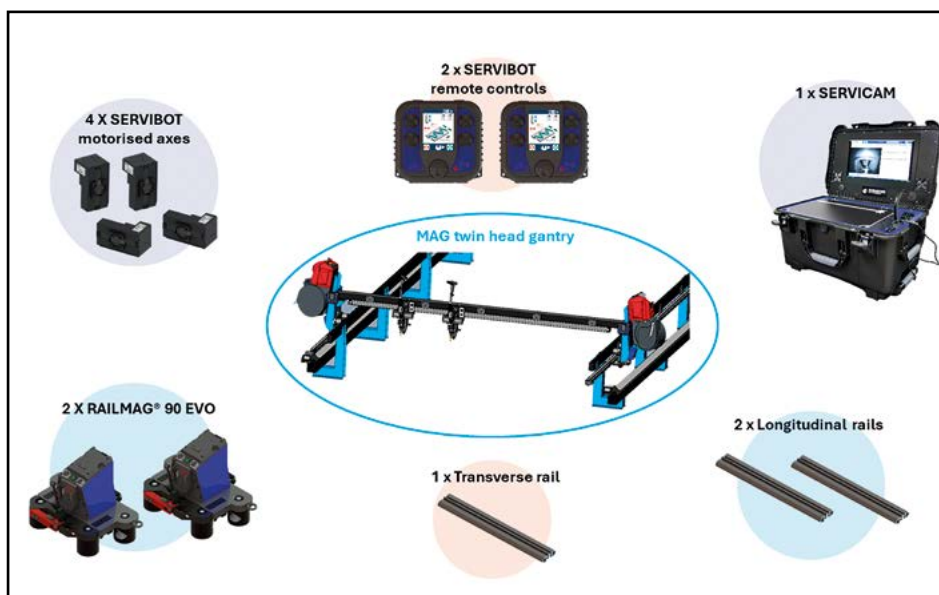
Modules can be integrated into existing plant (retrofit) or with a mechanical assembly designed by SERVISOUD or the client (online CAD, free access).

SERVIBOT: SMART CENTRAL UNIT FOR WELD OPERATORS AND WELDING PROCESSES

Electronics, common to all SERVBOT products, are central to the range’s smart operation capabilities. Remote and wireless control offers weld operators added comfort and can be used to operate all system components: SERVBOT positioning and displacement axes, external axes (welding positioners, rotators, arms) and welding generators.

The SERVBOT range makes it possible to pool equipment for welding and cutting operations. It can be used with the main welding (MIG/MAG, SAW, TIG, and TIG keyhole) and cutting (plasma with option AVC and flame cutting) processes.

The relationship between the generator and the mechanisation equipment is



also open and progressive. For instance, any manual generator can be used to control a 2 or 4-stroke start-up. Robotic generators can be fully controlled via the SERVIBOT control system.

Standard welding functions have been developed as software bricks that can be optionally added based on application requirements. These include weaving, recording of parameter settings (JOB) or the programming of simple welding cycles.

Smart bricks are added to the catalogue on a regular basis: seam tracking (AVC, automatic stick-out), trackless welding carriages, trajectory teaching.

SERVISOUD continues to offer robust, cost-effective solutions that are easy to integrate. The latest example is a jib that can be moved between several workstations (positioner and rotator) using standard SERVIBOT modules. This positioning equipment is synchronised and

controlled via the SERVIBOT wireless controller.

REMOTE VIEWING/MONITORING SYSTEM: THE ESSENTIAL TOOL FOR MECHANISATION AND TRAINING

Following its partnership with CAVITAR for the distribution of welding cameras as in France, SERVISOUD has developed SERVICAM, a portable system for viewing and monitoring welding operations. The range is available in various applications for fixed and mobile machines in workshops or on site. The SERVICAM range brings genuine added value to CAVITAR's high-performance cameras. This includes detachable beam equipment (making it easier to install cameras) and software developed by SERVISOUD (with a simplified, user-friendly interface).

Data for monitoring and teleoperation of welding operations can be recovered by connecting SERVICAM to the generator

and the SERVIBOT equipment. Process data (current, voltage, speed, welding power) are recorded and can be viewed in real time alongside the video flow.

This remote viewing tool revolutionises welding training programmes and helps weld operators learn faster. It simplifies parameter setting searches and offers greater comfort in the work environment.

SIMPLIFYING THE QUALIFICATION OF YOUR WELDING EQUIPMENT

Faced with a complex recruitment environment, it is essential to enhance the appeal of the welding profession with innovative, user-friendly tools.

Streamlining equipment speeds up weld operator training. Several machines with differing applications can operate with a given SERVIBOT control unit, thus simplifying application of EN14732 for qualification testing of welding operators and weld setters.

With SERVIBOT, we aim to facilitate access to mechanisation so that tomorrow, any business can easily tailor its production means to welding operator and weld application requirements.

SERVIBOT modular mechanisation is a simple tool that allows you to retain your welding staff while improving the quality and competitiveness of your welding operations.

For more information, visit our website: <https://servisoud-et.com/en/>

