

3A WELDING SYSTEM

Advanced Automatic Architecture

*Enter the new dimension
of automatic welding machines*



3A WELDING SYSTEM®
Advanced Automatic Architecture



Designed by Air Liquide Welding, the 3A welding system is a major innovation in automatic welding. Based on digital technology, the 3A welding system modular concept gives modern industry the quality, the productivity and the flexibility essential to remain competitive.

3A WELDING SYSTEM®

Advanced Automatic Architecture

Advanced mobile console

- Centralized console
- Mobile plug & play system
- User friendly-interface

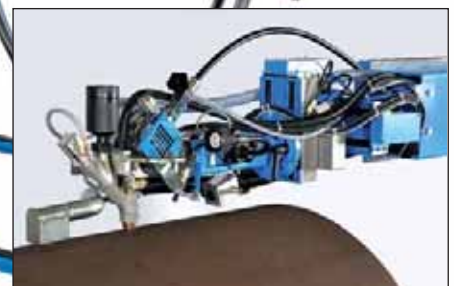
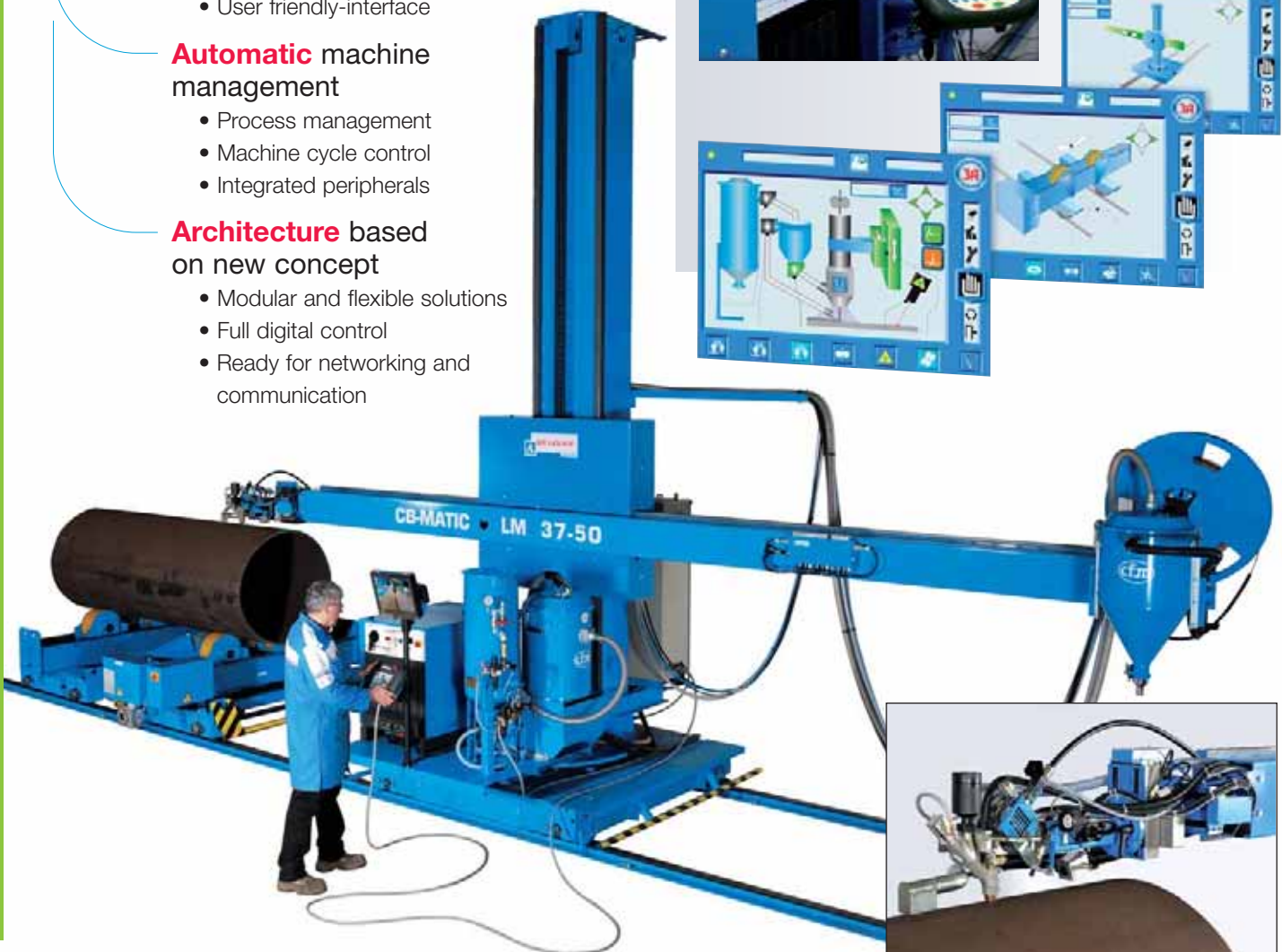
Automatic machine management

- Process management
- Machine cycle control
- Integrated peripherals

Architecture based on new concept

- Modular and flexible solutions
- Full digital control
- Ready for networking and communication

Mobile console: browsing on the screens with a graphic representation of the machine.



The plug & play Mobile Console gives the operator complete mobility and permits the management of both machine and process. This new generation user-friendly interface is easy to use and operators are rapidly able to program the machine efficiently. The multipurpose 3A welding system concept is designed for all arc welding processes, and the equipment remains upgradable with the open architecture.

3A welding system is particularly suited to the Submerged Arc Welding industrial applications.

Single wire and twin arc applications



Single and tandem wire for vessel welding



Hard-surfacing of mill rolls with strip cladding



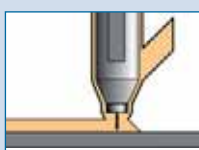
Single-wire welding for shipbuilding



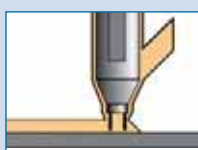
Single wire for structural welding

With the **3A welding system**, Air Liquide Welding brings its customers all the benefits of its expertise in automatic welding. Submerged Arc Welding process is proposed on column and boom configurations, on seamer solutions, on mechanized machines and on autonomous tractors.

SAW heads configurations for 3A welding system



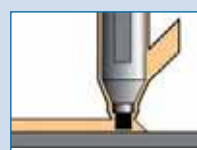
Single wire
1 300 A* 100% DC



Twin arc
1 300 A* 100% DC



Tandem arcs
1 300 A* 100% DC
1 000 A 100% AC



Strip cladding
1 300 A* 100% DC

A complete range of STARMATIC power sources supplies the DC or AC current for the various SAW applications.



* Maximum current with single power source, possibility to connect power sources in parallel

Contacts

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Créé en 1902, leader mondial des gaz industriels et médicaux et des services associés, Air Liquide est présent dans 72 pays et compte 40 000 collaborateurs. A partir de technologies sans cesse renouvelées, Air Liquide développe des solutions innovantes qui contribuent à la fabrication de nombreux produits de la vie quotidienne et à la préservation de la vie.