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automation

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Complete control for
TUBE WELDING LINES

20
1988 - 2008

Turn-Key control for Tube Welding Lines

Complete automation systems for brand-new plants or electrical modernization of existing systems, with the supply or replacement of power switchboard, control desks, regulation & supervision software and field wirings.



Modular design: dedicated cabinets for uncoiler, pinch-roll and joiner, accumulator, mill, cut-off, conveyor and packing section.

Dedicated **software for scrap rate control.** Cut optimization for defective tubes (open seam, butt, etc.) and scrap tubes sorting management.

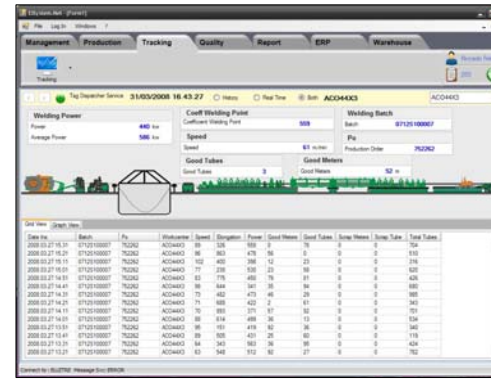
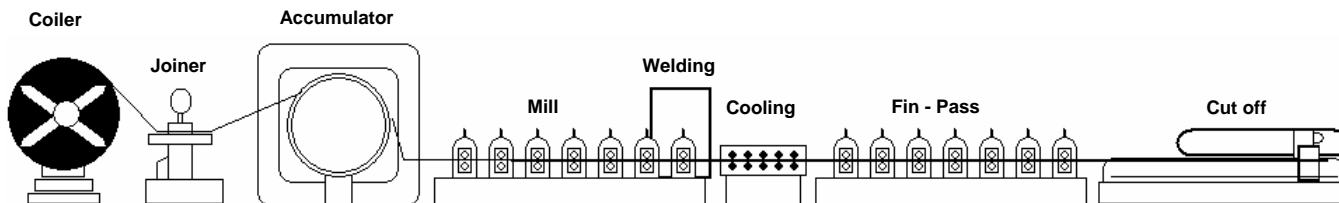
Software for several kind of cut cutoffs: shear. Friction saw, cold saw, double headed saw, tool-type, laser.

Flying cut-off selectable in different operating modes, start-stop or continuous cycle

Utilization of primary brands **hardware components** available on the market and selected in accordance with the User's standards.

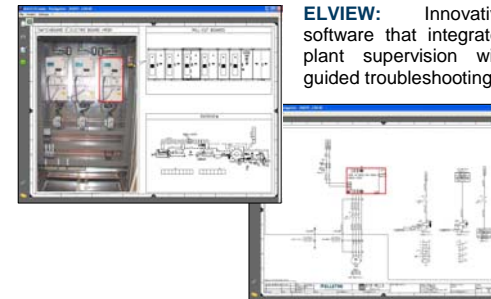
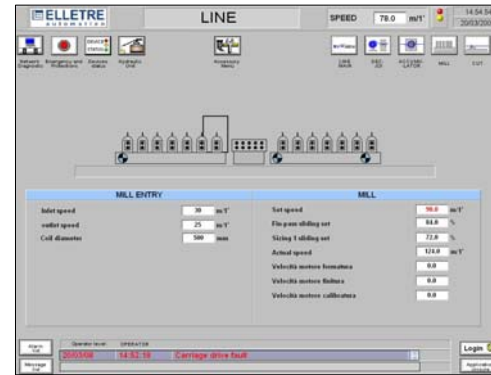
Realization of state-of-the-art **PLC software** to control the plant process with the use of customized algorithms. Design of PLC software to manage sequences and cycles tailored on the User habits to fully meet the Customer needs.

Field Wiring structured with PLC remote I/O units.



LEVEL 2

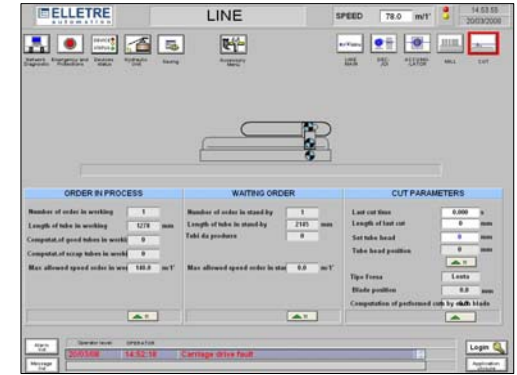
Human Machine Interface with customized mimic diagrams and guided trouble-shooting of the entire plant failures.



ELVIEW: Innovative software that integrates plant supervision with guided troubleshooting.

LEVEL 3

MES - Direct connection with ERP - Enterprise Resource Planning system to extract production orders and to send production reports.



LEVEL 1

Automation with digital control (master reference, servo-diameters, PID, etc.) with process parameters regulations.

PRODUCTS



ELASER: In-line laser gauge system based on rotating gauges principle and suitable to work with tube O.D. up to 24 inches.



ELTAP: New system applicable as alternative of conventional cut-to-length systems in the ERW tube mills. It determines real time the weight of tube produced at the exit of the mill and commands cut-off according to instantaneous tube weight with no care of length.