

THE SEREC COMPANY

History

Located 20 km from PARIS and created in 1946, SEREC became involved in crimping already in 1954, as a result of a partnership with a cable terminals manufacturer.

SEREC has various workspaces:

- A 750 m² mechanical workshop for the machining and assembly of crimping tools,
- A 600 m² workshop for the assembly and wiring of special machines,
- A mechanical design office equipped with Topsolid CAM and CAD and Medusa CAD for tooling,
- An electrical and automation design office (Beckhoff).



Our mechanical manufacturing facilities

SEREC's modern mechanical workshop has 5 recent numerical control machines together with a traditional workshop.



Charmilles CUT 300MS

Wire Cutting EDM Machine CHARMILLES CUT 300MS
4 axes MIKRON VCE1200 et 3 axes HURON VX8 machining centers
Cazeneuve NC lathe and LIPEMEC automatic grinding machine
700x320 automatic grinding machine
The grinding workshop allows manufacturing high-accuracy tool elements.
It includes four 200x300 surface grinding machines and a cylindrical grinding machine.



Grinding workshop with a centralised dust extraction system.



700x320 grinding machine and its 250kg crane



CNC machine workshop



MIKRON VCE1200 and its 250kg crane

Our management capacities

An ERP management software allows the automatic management of production launches and supplier orders. A components and mechanical parts storage (raw material blocks or finished parts) is managed by our ERP.

Our control means

A calculation software associated with a camera allows analyzing the macro sections of crimped parts and validating the crimping parameters. A traditional dimensional control room.

QUICK DESCRIPTION OF OUR PRODUCTIONS

Our standard tools and presses productions

Our power crimping machines (from 10 to 28T) for cables from 10 to 160mm² are associated with our standard TRP-type SEREC tools.

Tool change is simple, without setting and can be performed by the operator, the ergonomic workstation is perfectly adapted for manual work, guaranteeing reliable operation and a high rate both with bulk and chain terminals.

The crimping control based on KISTLER / BECKHOFF components is integrated in the press, the force curve is available on the display.

We also manufacture standard tools of the mini-applicator type for all small cross-section applications from 0.25 to 10mm².

Our special machine realizations

Our Company can design special machines developed and manufactured according to specification such as:

- Special cable processing machines (stripper, components distribution, installation and shrinking of heat-shrinking sleeves),
- Cable cutting machines or specific cutting machines for flat cables.

Generally built around a conveyor that transports the cable from one station to the next, these machines can include stripping, crimping, seal application, snapping in a box with one or several ways, sleeving, heat shrinking, etc...

The cable can be loaded in the conveyor grippers:

- either by a SEREC cutting machine optimized for operation on a conveyor and integrated in the automatic line,
- or by an operator loading cables or wires cut otherwise and placed on a loading zone.

For large-series applications, we also automate our standard presses by equipping them with sorting and selection systems using a bowl feeder, a step feeder or a 3D camera with a robot. These units can be associated with a palletizer integrated in the line.

New applications

The development of the electrical vehicles led us to develop a whole range of technologies for the processing of flat cables formed in XYZ and integrated in the battery packs of electrical vehicles.

These are numerical XY bending modules and pneumatic Z bending modules, as well as cutting and stripping machines for flat cables from 25 to 160mm². Additional punching can be performed at the ends.