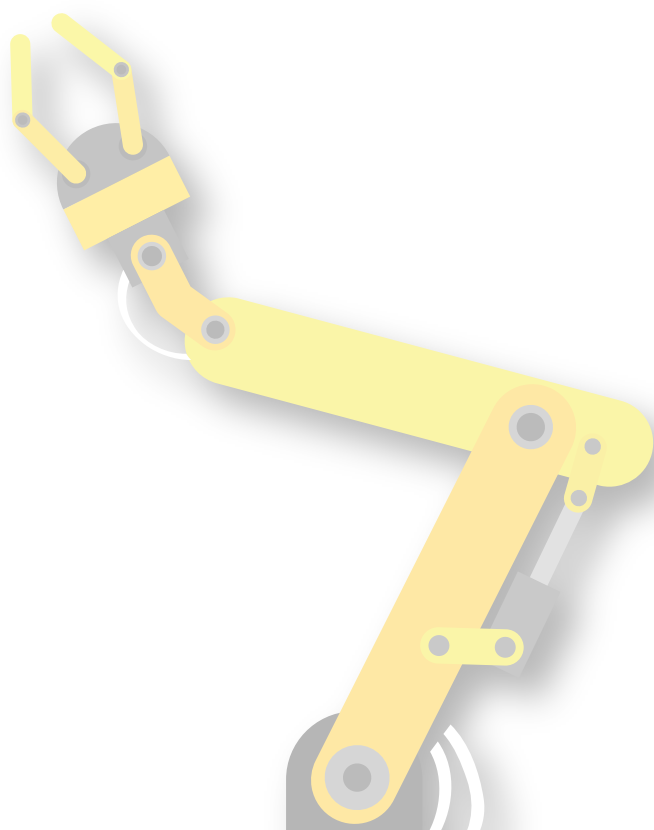




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Founded in **1989**, Starline Srl specializes in **wiring harness, electrical assemblies and low pressure moulding**.

We operate successfully in several industrial sectors such as *Automotive, Electromedical, Electronics and Industrial Refrigeration*.

The continuous search for new solutions has led us to introduce low pressure moulding in our range of services, on which we have been investing energy and resources for over twenty years. Through this technology, we are able to guarantee an excellent sealing and protection of electrical and electronic components against external agents such as dust, water etc.

Thanks to our highly qualified staff, supported by our Technical Department we are able to address any customer's need, offering consultancy for the realization of **custom projects and solutions**, ensuring maximum support in all phases of production: starting from the design, following with prototyping and pre-production series, up to starting-up the technology directly at customers' premises.

**High flexibility, the constant investments, combined with our commitment to offer Made in Italy top quality services are core values that guide our work.**





# Services



Wiring Harness



Low Pressure Moulding



Assembly



Technical Department and Lab

## ● Wiring Harness

Starline offers a comprehensive range of services in the wiring harness sector. The company stands out for its high flexibility in processing cables, thus ensuring production for any size of batches: from a few units to large productions.

In addition to the production of standard cabling, we specialize in the production of complex cabling, using both traditional and custom cables, assisting our Customer in choosing the right material. We are able to satisfy even the most demanding needs from sectors such as rail, military, medical and automotive.



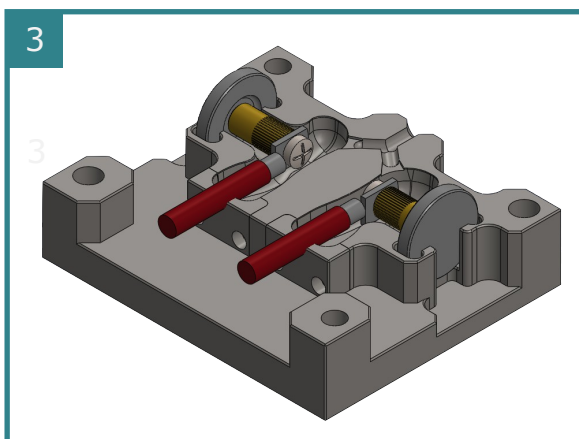
Pic 1 and 2: Wiring Harness

By virtue of the experience gained over the years in low pressure moulding, Starline produces specific products upon Customer request: overmoulded cable fairleads and connectors, which will provide greater performances and protection from external agents such as water and dust etc..

The quality department monitors all the processes with careful micrographic analysis of crimping.

## ● Low Pressure Moulding

Starline always pays special attention to its customers' specific needs and requests: for this reason, we have decided to invest in innovative technologies such as low pressure moulding.



Pic 3: Mould for cable



Pic 4: Moulded cable

This technology uses low pressure moulded polyamide resins, which ensure optimum sealing and protection of electrical and electronic components against mechanical shocks and external agents, such as humidity, dust, water etc.

We use exclusively Henkel's Technomelt resins to ensure that our products meet the highest standards in terms of quality and innovation.



Pic 5: Polyamide resins

## ● Low Pressure Moulding

Compared to traditional moulding and potting techniques, low pressure moulding is extremely competitive in terms of productivity:



Reduced cycle time (reduced times of polymerization compared to potting)



No housing case required



Moulds can be made in less expensive aluminium

Reduced manufacturing steps and costs

# ● Low Pressure Moulding

Compared to traditional moulding and potting techniques, low pressure moulding is extremely competitive in terms of productivity:

## Quality

Better Quality and design flexibility:

- Excellent electric insulation and encapsulation of electric and electronic components
- UL94-V0 approved (for almost all resins)
- Reduced material and fewer physical parts
- Improved design customization, logo application and analysis of excess raw material to reduce costs

## Applications

Low pressure moulding can be used for multiple applications including the following:

- Insulation of PCBs and sensors: it is possible to mould directly even on the most fragile electronic components, without damaging them, ensuring effective protection against external agents.
- Moulding of cable fairleads: thanks to low pressure moulding we can reduce assembly phases, while at the same time ensuring cable protection.
- Moulded connectors

## ● Assembly

Starline offers an electromechanical assembly service, taking care of the procurement of all materials, or alternatively, upon customer's request, working with materials provided by the customer.

Our Assembly Department is equipped with presses and electric screwdrivers with torque controls.

Among other services we provide cabled motor cups and generator boards.

## ● Technical Department and Lab

Our Technical Department employs highly qualified staff, trained to assist the customer in all phases of production. The Department is equipped with an updated CAD software, by means of which we are able to assist the customer in developing projects according to his/her specific needs.

We assist our customers starting from the design and potential production of prototypes and samples, proposing technologies and materials that better suit the customer's needs.

Our Technical Department can assist and train customers on starting-up the technology directly at their premises.





# Quality

Quality and customer orientation are core values that guide our work.

With the view to offering our customers a comprehensive and efficient service, we constantly invest in cutting-edge machinery and technologies that enable us to ensure a high quality standard on the finished product. In addition, the whole production process is integrated with a modern ERP, recently updated with the introduction of an innovative production management software.

The system interfaces directly with all company's operators, allowing orders to be handled efficiently, plus at the same time monitoring the timing of the production cycle.



# Quality



Micrographic Lab



Testing



Certifications



Climatic Chamber

## ● Micrographic Lab

Starline is equipped with a modern micrographic lab, which enables us to scrupulously check the crimping of each cabling. By carefully analysing the combination of a specific cable section with its terminal, we are able to ensure our customers a high level of quality in wiring harness. Before proceeding with the production of the combination cable/terminal, a detailed micrographic analysis defines the parameters of our machines. Usually we rely on some of the most restrictive automotive standards, nonetheless, on request we are available to work following the parameters chosen by the Customer.

## ● Testing

In order to guarantee our customers the highest standards of quality and efficiency, our staff run tests that cover 100% of the products processed.

## ● Certifications

Starline is committed to pursuing a policy of continuous improvement of its organization and business processes. Since 2004 we are certified according to UNI ISO 9001, updated in 2016 to ISO 9001:2015. Upon request, we can supply raw material according to UL and CSA specifications.

## ● Climatic Chamber

In order to test the aging of several components in our laboratory, we are equipped with a climatic chamber, which enables us to simulate different environmental conditions to which the product may be subject.

The machine allows multiple product tests to be carried out; including the simulation of environmental conditions to which products can be subjected, working with a temperature range from  $-40^{\circ}\text{C}$  to  $+180^{\circ}\text{C}$  and with a relative humidity level from 10% to 98%.

This machine allows us to carry out tests and environmental simulations, thus providing precise information on the behavior of the product subject to different thermal and hygrometric cycles.



PIC 6: Climatic Chamber



PIC 7: Climatic Chamber

This equipment is also available for rent to customers, who wish to carry out tests independently.

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