



## PLASTIC AND RUBBER

### GSL Service Concorezzo (MB)

#### CONTACT DETAILS AND INFORMATION

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### Plastic and rubber transformation division

## ORGANIZATION

The roots of GSL, GROUP SUBFOR LOMBARDY, go back to the 80's. At GSL we take our consolidated past experience as springboard for the future because we believe that, in order to plan the future, we first have to draw experience from our past. Over the years GSL SERVICE has drawn the best from past experience and Knowhow. We fully understand the meaning of being a key player in subcontracting today. Competence, competitiveness and full service are requirements one shall always keep in mind if the goal is the complete customer satisfaction. The companies in our group must undergo a strict screening done by a qualified technical board. Those who pass it are then split in three ranges according to competence. As result, we work with a pool of companies operating with state-of-the-art technology and an uniform production process. We put our all-round expertise and know-how to the service of our customers during every step of the product development starting from the project and the engineering:

- Aesthetic proposals;
- Engineering and product development;
- Structural analysis
- Prototyping and preproduction;
- Prototype testing
- Flow analysis and mold filling;
- Mold and tools engineering;

- Dimension and quality control on prototyping, preproduction and production;
- Counseling service during engineering and production
- Complementary machining (cutting, welding, assembling, serigraphy and engraving...)





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### COMPANY POLICY

The company policy consists in the research and selection of homogenous groups of production companies with the aim to create proper specialized production divisions, disciplined by technical specifications abbreviated with "G", which stands for process Guarantee. Our goal is to provide our customers with the best service, which we try to reconcile with the best price.



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#### Engineering department

Modern CAM-CAD-CAE 2-D and 3- D systems for the engineering stage of items and molds "Filling simulator" for the analysis of flow in mold and a simulator to control structural analysis. We have all the necessary technologies which allow us to obtain every kind of speed prototypes or preproduction:

- stereo lithography;
- nylon powder sintering;
- silicone moulds for plastic parts;
- realization of aluminum parts (molds made of silicone or with lost wax process).

#### Mold construction department

- CNC high speed lathes with 3, 4 – 5 axes and traditional mechanical machining;
- Plunge spark machines with automatic electro exchange. Bath tank up to 1200x900x500 mm;
- Immersion and water jet wire-cut electron discharge machines, with a maximum working surface of 800x600 mm and a maximum height of 320 mm. 15° wire inclination.
- Horizontal spindle internal and external grinding machines of various dimensions and heights for die-slides, plates, etc.
- THeat treatment: Deep Gas nitriding, Case Hardening, Vacuum Hardening, PVD coating

#### Injection moulding department

- Presses from 20 to 1500 tons equipped with manipulators and vertical presses for molding with inserts;
- Bi-material injection presses up 100 to 120 tons, each with two plasticization groups;

#### Thermoforming department

- 9 thermoforming machines, manual and automatic, with dimension from 800 X 1200 up to 2500 X 3500; CNC cutting robots; various equipment for ultrasonic welding and assembly operations, screen printing on a variety of thermoformed and insulation.

#### Materials processed:

ABS – PST – PP – HDPE – PMMA

#### Rubber and rubber-metal department

Production of

- Technical articles such as rubber molded rubber / metal, rubber/ canvas, rubber / wood, and various.
- Articles in Bi-compound with hardness or different colors between them;
- Extruded rubber vulcanized in a salt bath (microwave, infrared, and in an autoclave).

Production technology:

- Department of compounds with blenders from 350x500 up to 550x1500 for the development and implementation of different compounds
- Department injection with vertical and horizontal injection molding machines from 350x350 up to 750x750;
- Department compression presses from 300x350 up to 1000x1100;
- Department of drawing plate, de-burring, cryogenic;
- Laboratory of control after vulcanization in hot air ovens and microwaves and analysis of pieces rubber and vulcanized.

#### Extrusion blow department

We have at disposal presses for extrusion blow up to 200 Liters.

