Simon’s mechanical components division specialises in the manufacture of metal components, plastic parts and assemblies for companies that need to outsource part of their production or to improve their products and processes.

Simon mechanical components division takes advantage of its expertise in design, manufacture and purchasing, in order to provide its customers with the optimal solution to their outsourcing needs.

With its multidisciplinary manufacturing, the most up-to-date machinery and its expertise in various sectors (electrical, automotive, etc.), it is positioned in the market as an expert component manufacturer.
Simon provides its customers with a complete, personalised service. Its expertise, creativity and customised solutions represent a unique option which guarantees high quality in its manufacturing systems.

- MANUFACTURING SOLUTIONS
- SOLUTIONS FOR METAL COMPONENTS
- SOLUTIONS FOR PLASTIC COMPONENTS
- ASSEMBLY SOLUTION

**ENGINEERING AND MANUFACTURING**

All the experience and knowledge of a technical team to support and advise our customers regarding their component design from our manufacturing perspective. From the customer’s design onwards, Simon takes charge of all stages of manufacture.

**MOULDS AND DIES**

Proprietary design and manufacture of moulds, dies and tooling for manufacturing and assembly in SIMON’s own facilities.
SOLUTIONS FOR METAL COMPONENTS

The combined technology of progressive stamping and bending by multislide presses makes it possible to obtain high precision metal components with complex geometries, with the possibility of additional simultaneous operations such as threading, welding and assembly.

AUTOMATIC MULTISLIDE PRESSES - BIHLER

The combined technology of progressive stamping and bending by multislide presses makes it possible to obtain high precision metal components with complex geometries, with the possibility of additional simultaneous operations such as threading, welding and assembly.

Simon has the necessary technology to fabricate welded parts with silver alloy contacts welded from rod or microprofile, via the standalone welding modules integrated into the actual stamping process.

TECHNICAL DATA:
- Cutting force up to 25 tons.
- Strip up to 68 mm wide / up to 2.5 mm thick.
- Steel rod up to Ø2 mm / Copper rod up to Ø3 mm.
- Machined threads up to M5.
Simon uses presses with cutting power from 20 to 100 tonnes to cut metal strips up to 250 mm wide and 3 mm thick.

HIGH-SPEED PROGRESSIVE DIE PRESSES
BRUDERER

Progressive presses enable the manufacture of technical components stamped and bent at high speed, reducing manufacturing costs and ensuring product quality.

SURFACE FINISHES

Automatic electrolytic plating lines (zinc, copper, tin, nickel and silver plating).

Thermal and dehydrogenated treatments.

Degreasing: Ultrasonic, chemical, electrolytic

Deburring, polishing and gloss finishing.

TURNING PARTS SOLUTIONS

Manufacturing technologies for turned parts by turntable (transfer). Machined on brass sections with various profiles.

SCREWS

Precision manufacture of nuts and bolts by high speed stamping of rod. All kinds of grooving and threading from M2 to M6 up to 55 mm long.
SOLUTIONS FOR PLASTIC COMPONENTS

THERMOPLASTIC INJECTION
(up to 220 t)

BI-MATERIAL INJECTION
(up to 220 t)

THERMOSET COMPRESSION
(up to 160 t)

With particular emphasis on the quality of the final appearance of the pieces, Simon specialises in the processing of technical plastics, using the most appropriate technology for each occasion according to the requirements of the component and the process.
Simon offers its customers the option of providing assemblies with plastic and/or metal components prefabricated or supplied by the customer lines in custom-designed automated or manual lines.

Simon’s extensive experience in the world of industry guarantees we provide the best solution in terms of volume and flexibility, meeting the needs of its customers.