



GRUPO

SOCCEM

www.socem.pt

Headquarters Campus Plant



Our History



1986



1997



1998



1999



2001



2006



2015



2020



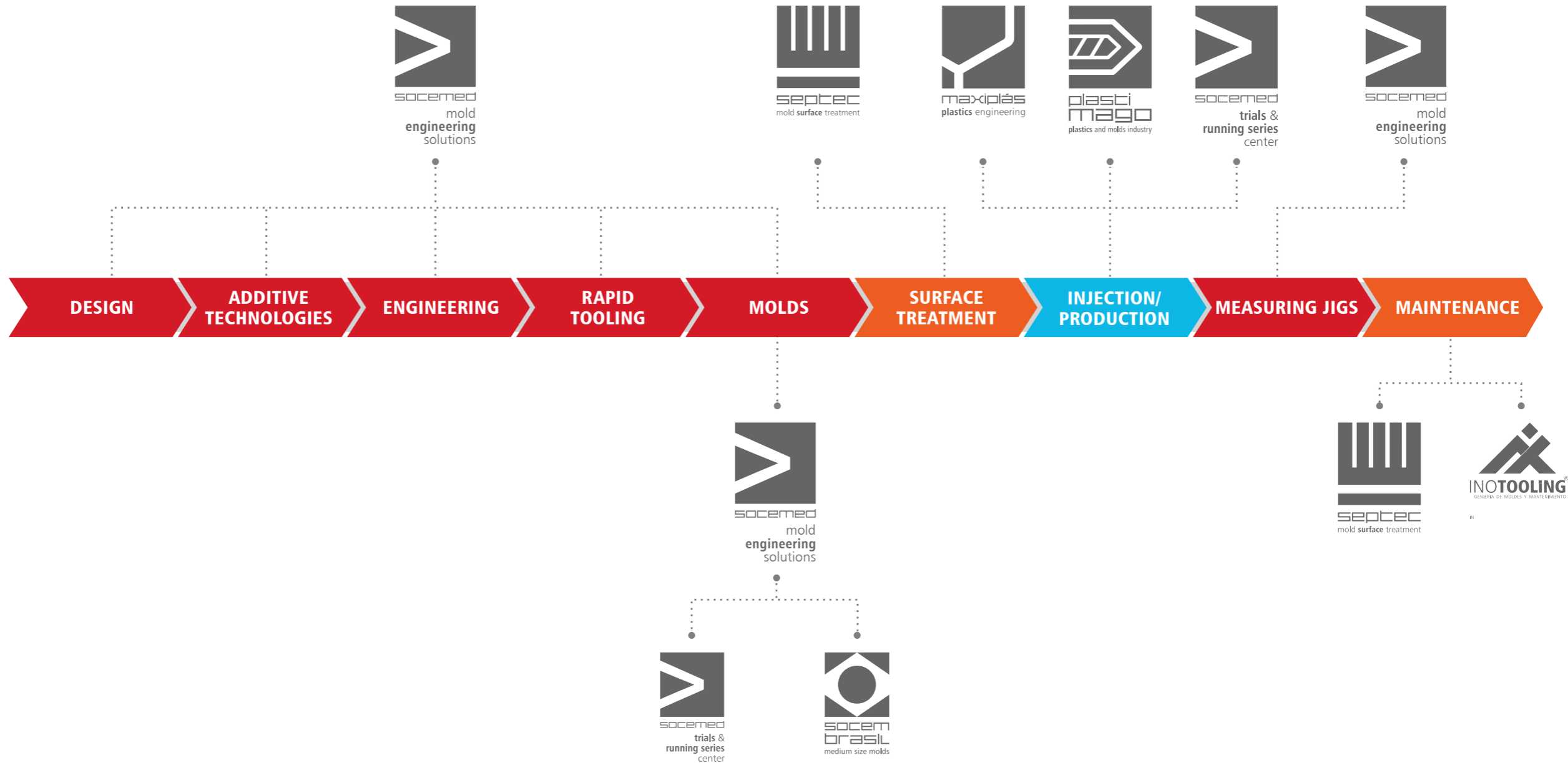
2025

2013
try-out
center

2020
running series
center

(1st pre-acquisition phase)

Key Expertise and Skills



Global Presence



Plastimago
Production Division – Marinha Grande, Portugal



Grupo SOCEM Headquarters
Tooling & Service Division – Martingança, Portugal



Maxiplus
Production Division – Pombal, Portugal

United States of America

Tooling & Services

Inotooling Mexico

Tooling & Service Division – Puebla, Mexico



SOCEM Brasil

Tooling & Service Division – Joinville, Brazil



United Kingdom

Tooling & Services

Czechia

Tooling & Services

China

LCC Tooling Support

Turkey

Tooling & Services

South Africa

Tooling & Services

Group Facts and Figures



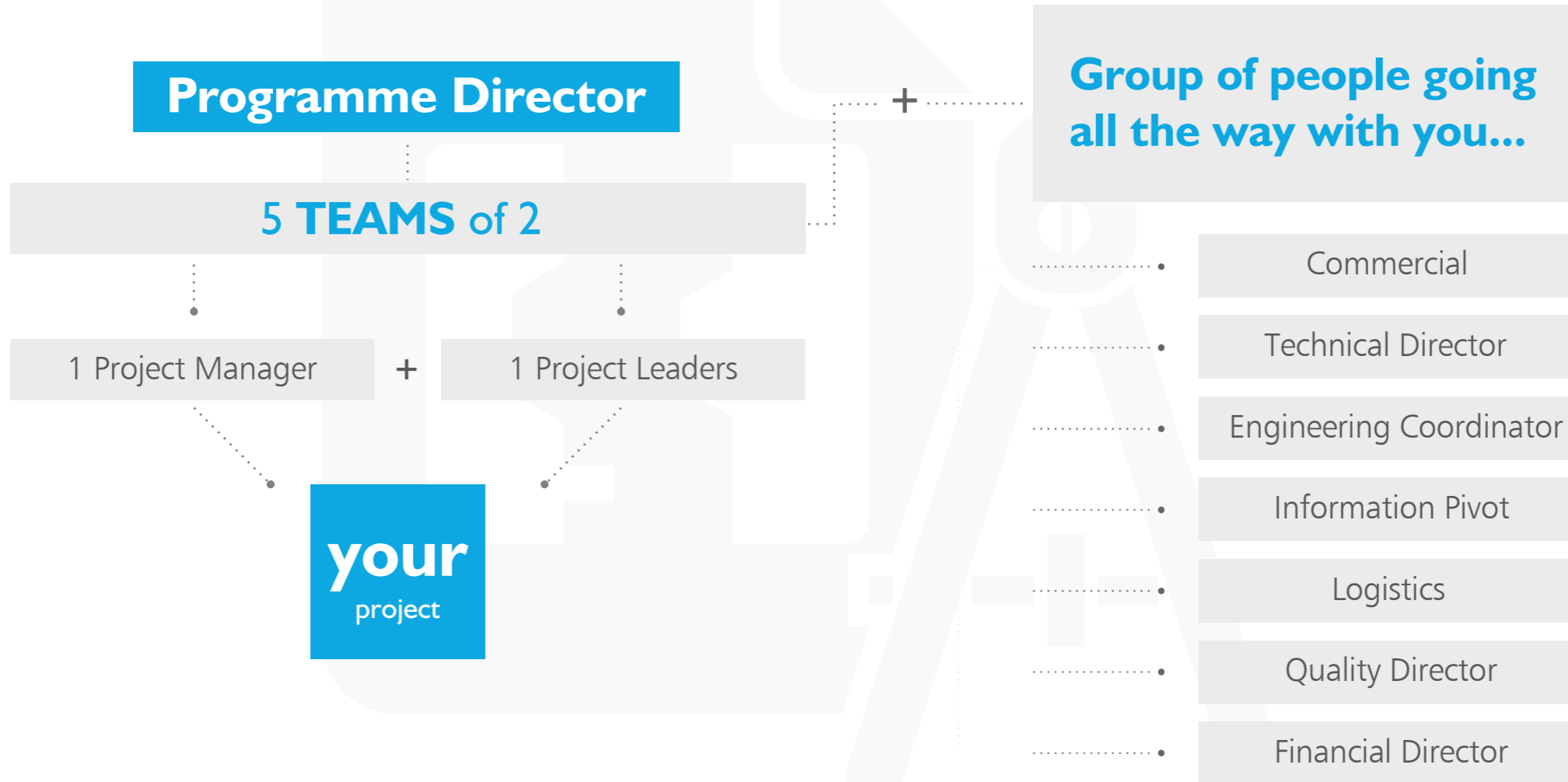
600 WORKERS



8600 MOLDS MADE



61M€ 2023 BUSINESS TURNOVER



Mold Engineering Solutions



Our Equipment

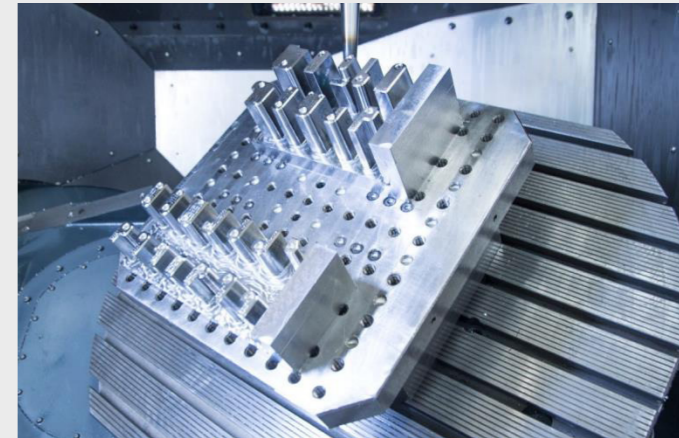
10 Conventional Milling

3 Drilling

16 EDM

28 Grinding

6 Wire EDM



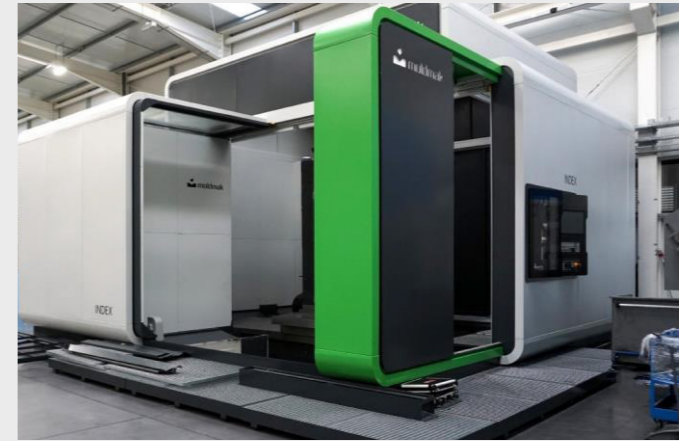
Our Equipment

39 CNC Milling (Vert./Horiz.)

6 6 Axis

15 5 Axis

6 Presses



Our Special Equipment

5 3D Printer

2 SLS

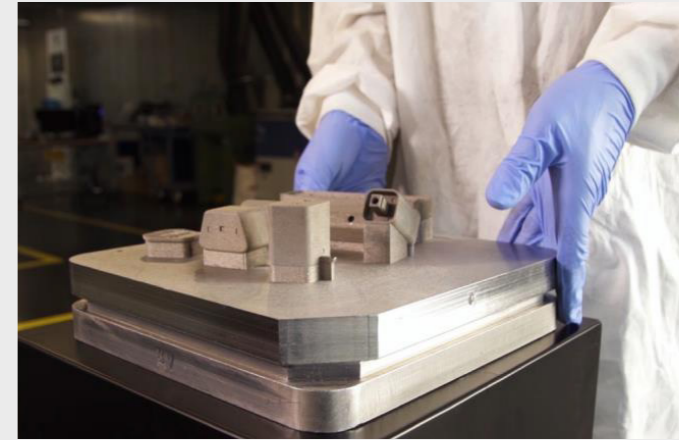
1 DMLS

1 SLA

2 FARO Arm

3 3D SCANNER

6 CMMs



Tooling Facilities



Tooling Facilities



Tooling Facilities



Tooling Facilities



Tooling Facilities



SOCENTM +

**DESIGN FOR
MANUFACTURING**

Design & Engineering
Reserve Engineering

**RAPID
PROTOTYPING**

Additive Technologies
Prototype Molds

**PROCESS AND
METROLOGY SERVICE**

EOAT Grippers
Checking Fixtures

**INJECTION
TECHNOLOGIES SERVICES**

IMD
Variotherm
Multi-K



Design & Engineering

Concept design;
Product Optimization;
3D Models;
Mold engineering.

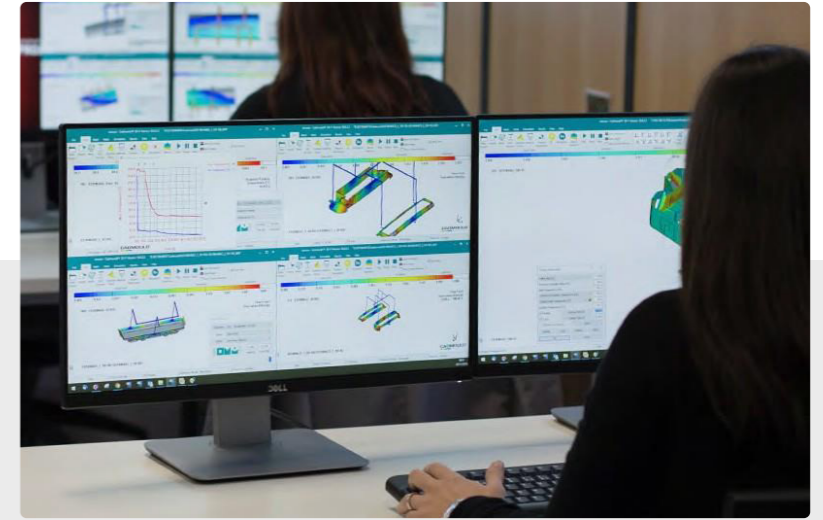
+ Product Development and Industrialization



Reverse Engineering

Machine Scanner COMET LED 5M 3D

+ Deconstruct an artificial object to reveal its 3D CAD model design



Technical Softwares

Rheological Studies:

CADMOULD – 3 un.

CAD Design:

TOPSOLID – 30 un.

CAM:

TEBIS – 17 un

+ FEA analysis | Structural analysis



Additive Technology

1
DMLS

Machine 3D Systems ProX 300
Dim. plate 250 x 250 x 300 mm
Material 2709 Steel

1
MJF

Machine Projet 3000 HD
Dim. plate 298 x 185 x 203 mm
Material Visijet EX 200

+ **Parts with low surface roughness |
Conformal cooling channels with complex shapes**

+ **Parts with greater dimensional accuracy and complex geometries |
Less warpage and superior surface detail**



Additive
Technology

1
SLA

Machine 3D Systems ProX800
Dim. plate 650 x 750 x 550 mm
Material Accura ClearVue

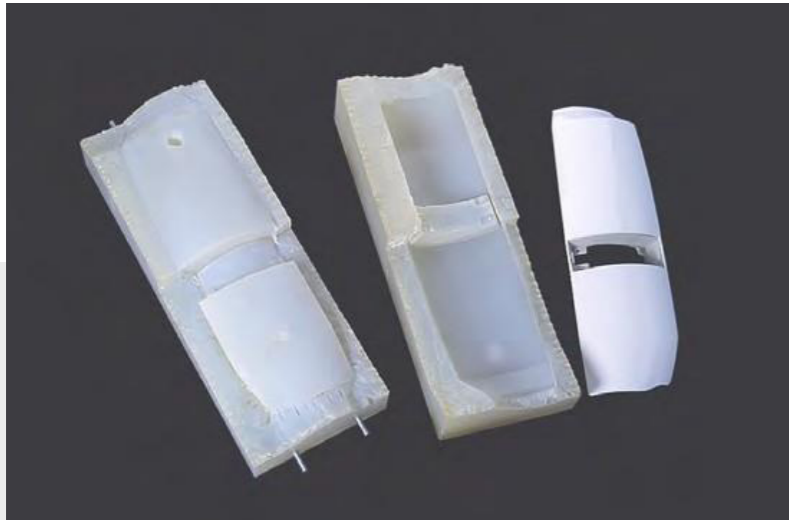
2
SLS

1
Machine DTM Sintering 2500 Plus
Dim. plate 381 x 330 x 457 mm
Material:
PA12 (Nylon 12% fiberglass)
TPU (Thermoplastic Polyurethane)

2
Machine 3D Systems ProX SLS 6100
Dim. plate 381 x 330 x 460 mm
Material:
Duraform ProX PA12

+ Great precision and surface detail |
Parts with optical properties (excellent transparency) |
Simulation of ABS/PC characteristics

+ Production of rigid or flexible parts |
Allows visualization and functional testing of parts before their
final production



Molds
Prototyping

Silicone
Molds

Machine MCP 004PL
Dim. plate 900 x 600 x 600 mm
Material Polyurethane

- + Low-production molds |
Finishing comparable to injected parts |
Same mechanical and thermal characteristics as materials used in mass-productions

Aluminium & Steel
Molds

CNC Machines:
4 Axis Milling Machine – 1 un.
5 Axis Milling Machine – 16 un.
6 Axis Milling Machine – 5 un.

- + Pre-serial production molds |
High speed in project manufacturing



EOAT Grippers

Modular frame construction or machined aluminium;
3D component printing option;
Vacuum clamping system and pneumatic clamps/fingers.

- + Ejection, movement and rotation of parts | Cutting and separation of parts and sprues | Insertion placement



Checking Fixtures

SPCs variable measurements;
GNG / GAP & FLUSH;
Cubing;
Intelligent Checking Fixtures;
R&R studies.

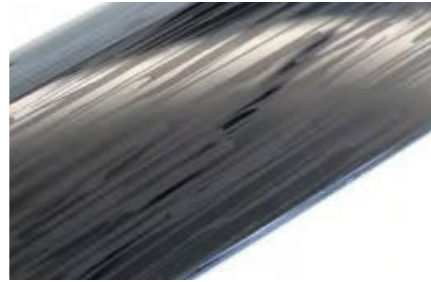
- + Complete Solutions:
Conforming, Measuring and Assembly



Metrology Service

6 Coordinate Measuring Machines
Max. working capacity: 3000 x 1200 x 1000 mm
2 FARO Arm
Max. working capacity: Ø 2700 mm

- + Dimensional reports metal and plastic parts



IMD
Technology

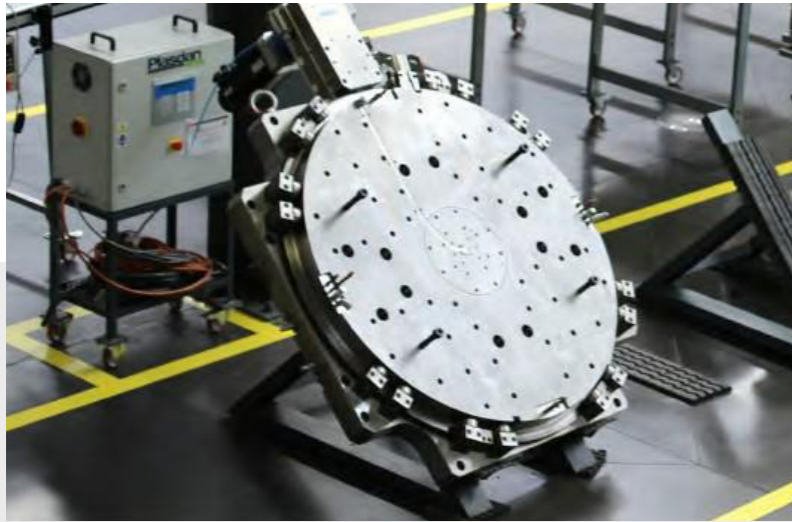
Machine Kurz

+ In-Mold-Decoration parts |
Combines molding and hot stamping into one working operation

Variotherm
Technology

Machines: Regloplas P200M
Pressurised-water temperature control unit up to 200 °C

+ High-gloss surface parts



Multi-K Technology

4 Rotative Plates:

Ø 650 – 1un.; Ø 800– 1un.; Ø 1350 – 2un.

5 Injection units:

from 50 gr. to 280 gr.

2 IMM with rotative plate and injection unit:

160T – 30 gr.; 230T – 50 gr

Injection Parts

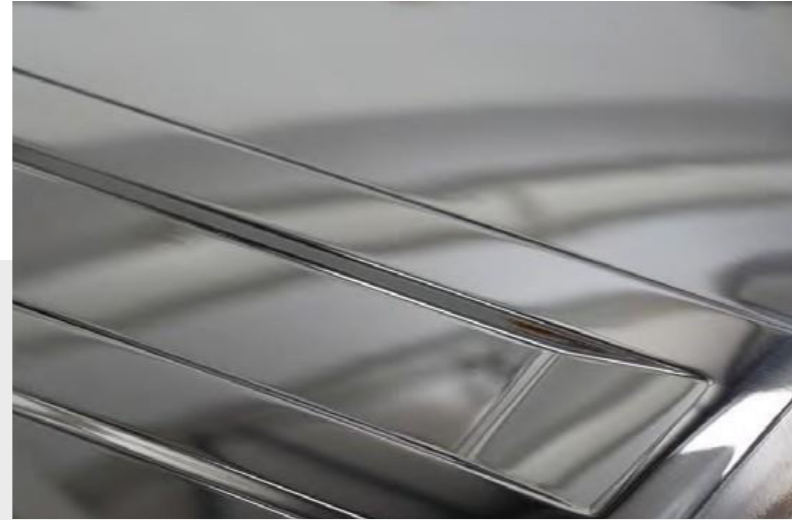
76 Injection Molding Machines 35T – 2800T

Mono material injection, multi-k injection, injection of elastomers, injection molding of metal inserts, and in mold decoration IMD (developing partnerships).

IATF 16949:2016 Certification

+ Multiple injection materials

+ Mass Production Parts (Automotive; Home appliances; Electrical and Electronics) | Surface Finishing | Assembly | Packaging and Shipping



Surface Treatment

Finishing touches through technical or optical polishing, high-gloss and nano-finishing;
Graining patterns such as: cork and wood;
Zinc-engravings (mold identification plates and coolings);
VDI application;
Micro Leakage Gases and Gas Leakage.

+ Polishing | Chemical Graining | Mechanical and Chemical Engravings | Sand Blast

Information Systems

Digital Information Exchange

Internal Communication:
Intranet

Clients and Suppliers

External Communication

Leadership

Innovation → Differentiation

Smart Manufacturing

People Management

Development of Knowledge
and Skills

Automation

Cellular Manufacturing

Sustainability

Social and Environmental

Mastering Intelligence

Developed by SOCEM





100% green energy

The energy consumption of the units in Portugal are 100% renewable!

– Saving our planet from 1592 Tons of CO₂ per year.

13% green energy

of the energy comes from our own production.

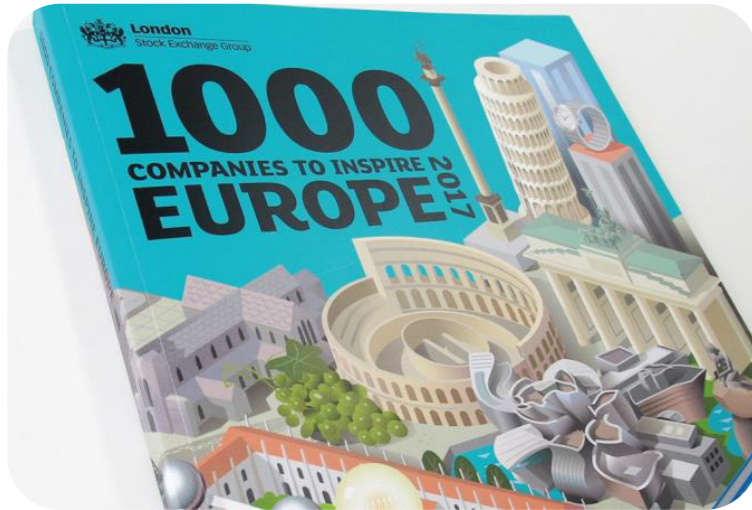
1987 un.

Photovoltaic panels.

4578,5 m²

Covered area.

We Are Inspiring Europe



Recognized as one of Europe's 1000 most inspiring companies in Europe in 2017.



Award-winner 2022 for Innovation in Prevention (environment category).

Portuguese Grand Award-winner 2022 for Innovation in Prevention.




Honored with the Environmental Sustainability Award by the newspaper Região de Leiria in December 2022.



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