

TOMOS

ITALIAN MOULDMAKER SINCE 1976

Experience and specialized skills, culture of **quality** and **productive versatility**, constantly looking for cutting-edge technological choices, regular management control, innovative and collaborative approach to the customer, enable TOMOS SRL to win a leading role in the design and construction of moulds for high pressure die casting.

1976
since



RESEARCH

The fact that a problem has not been solved yet, does not mean that it can't be



TECHNOLOGY

Our technology investments pay the best services we offer to our customers



QUALITY

It is not just a certificate, it is our way of working: our added value

ABOUT
US



Complete service

Design, development, manufacture, assembly and quality control: from the idea to the final product with a single partner.

3

Customer Care

Our strength lies in the constant customer service that goes from the design to the delivery of the finished mold.

2

Work planning

We plan each phase of the tool, with the aim of maximum performance in terms of quality and reliability.

1

Technologically advanced molds

We offer to the market high quality and technologically advanced molds, with high production performance at competitive prices.

2000

Mq Plant

22

Operators

45

Tools/Year

35k

Machine Hours

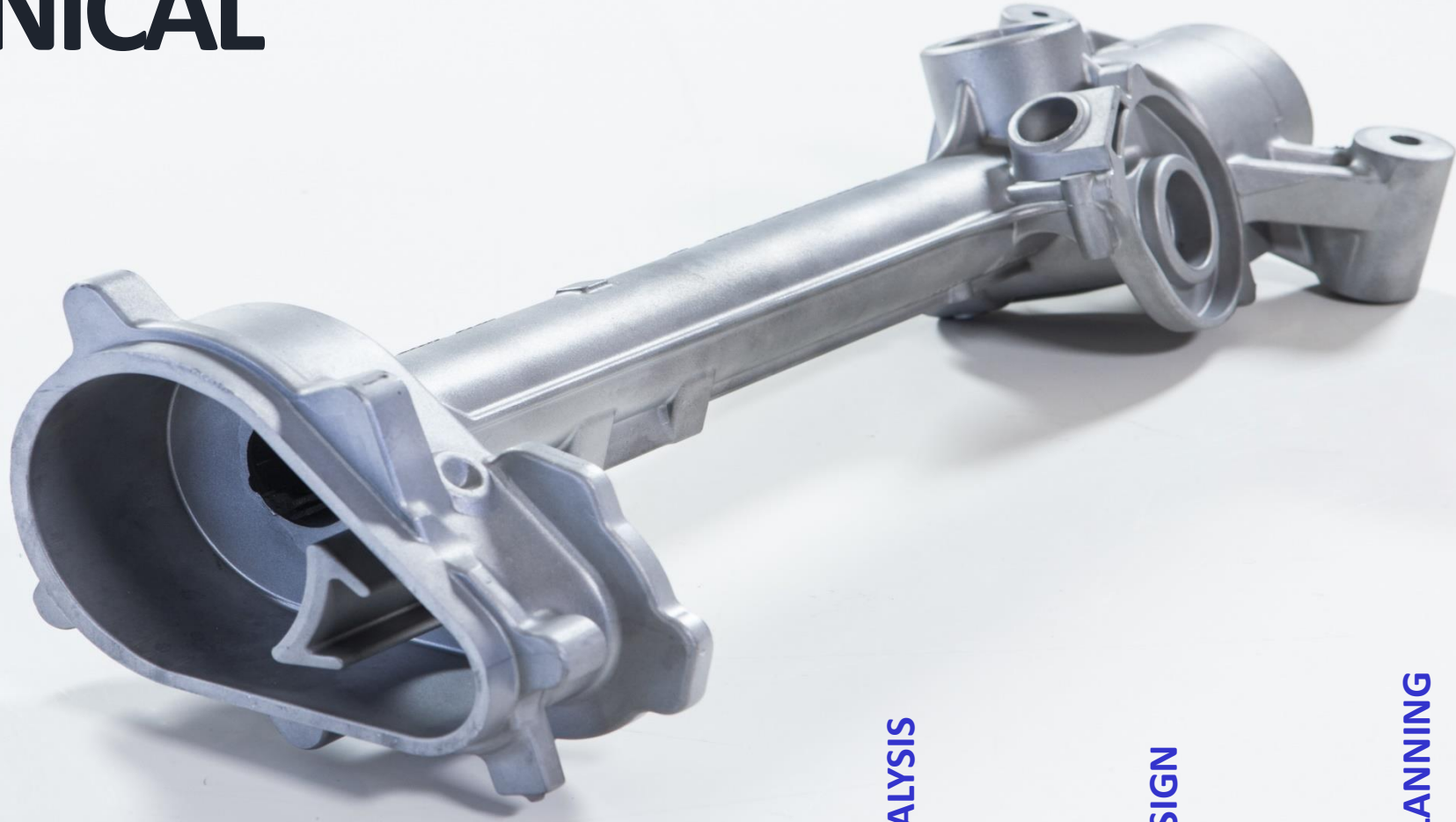
4,2

Turnover
2022

Customer satisfaction is everyone's responsibility.
In this lies our will to constantly obtain better results day by day.

NUMBERS AND ADVANTAGES

TECHNICAL SKILLS



1

PART ANALYSIS

2

TOOL DESIGN

3

WORK PLANNING

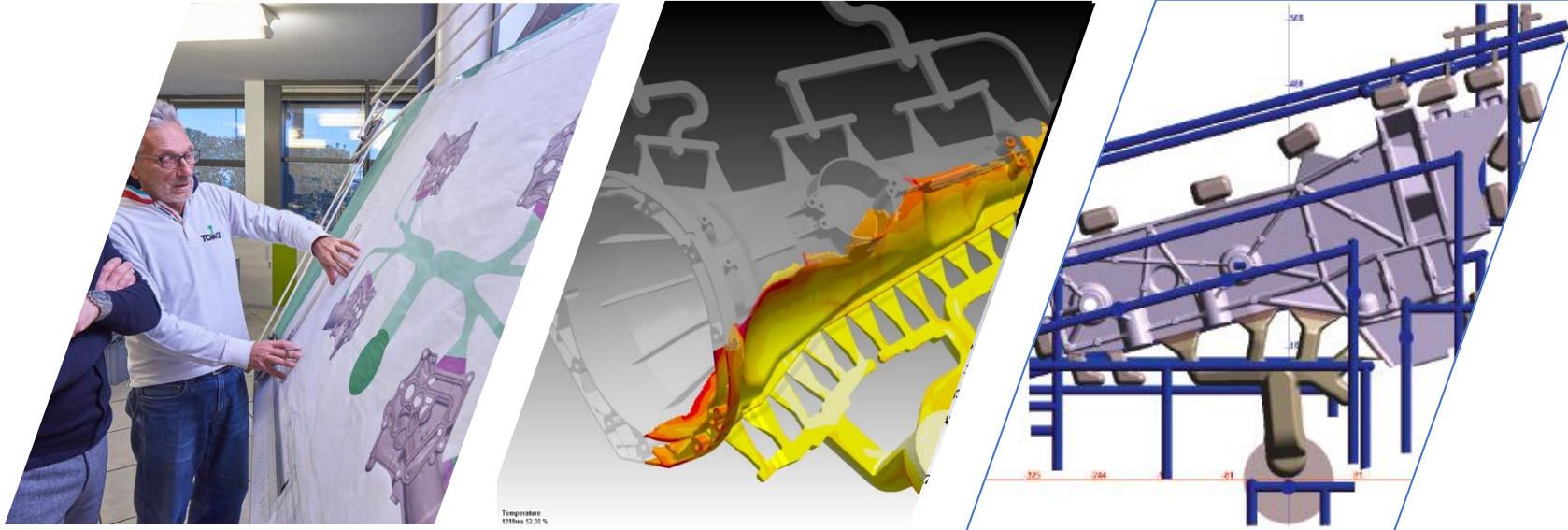
4

CAM PROGRAM

Magmasoft Simulation

We perform this analysis in order to evaluate performance of the aluminum.

Through the simulation we identify the critical areas in which the material can be stressed during the casting process.



Feasibility Study

At the beginning of each project we prepare a concept analysis, made before an accurate assessment of the technical & economical feasibility.



Co-design

We develop the complete 2D and 3D project, always in contact with the customer. Organized, inspired and proactive : we own the best information system in order to perform the most advanced production technologies.

01

PART ANALYSIS

a

Preliminary tool draft

Feasibility study, distribution of cooling, development of the mechanical movements and materials to be used are the main themes analyzed by our designers, who provide a preliminary tool draft shared with the customer.

b

CAD Design

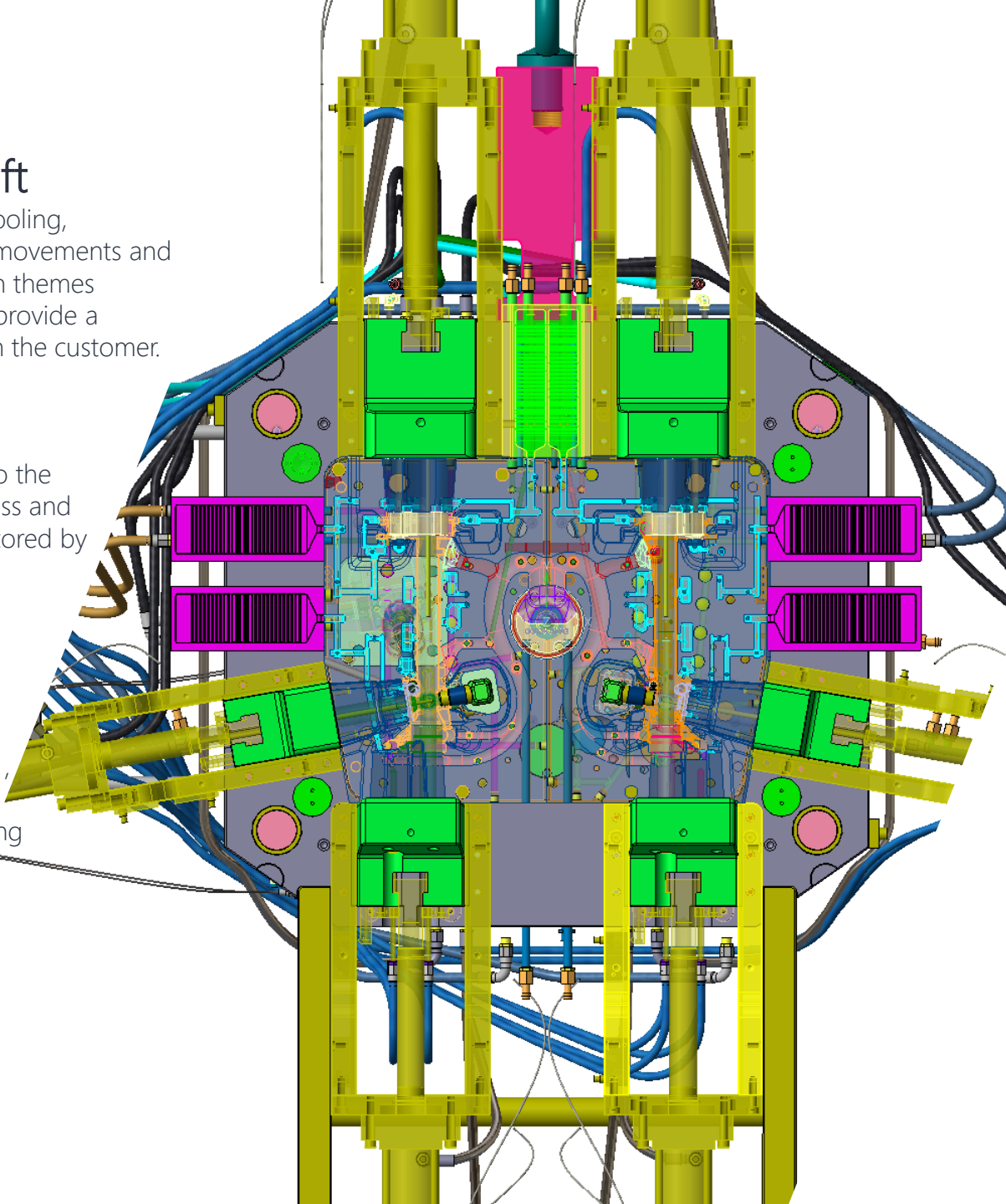
The design choices are oriented to the efficiency of our production process and each phase of the project is monitored by different checklists.

Software used: Visicad 2018

c

Thermal Simulation

With this simulation we can check, with customer support and information, the thermal balancing in order to obtain a correct cycle time



02

**TOOL
DESIGN**

1 - PLANNING

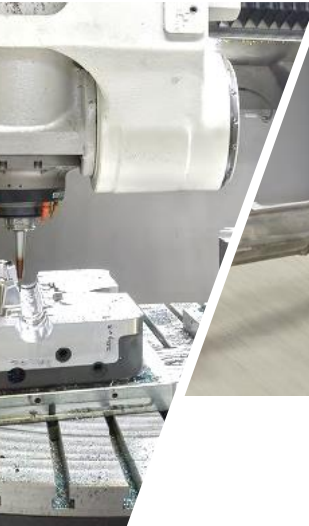
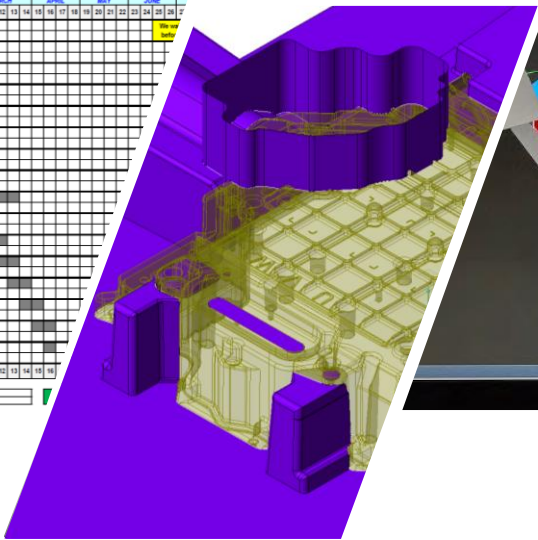
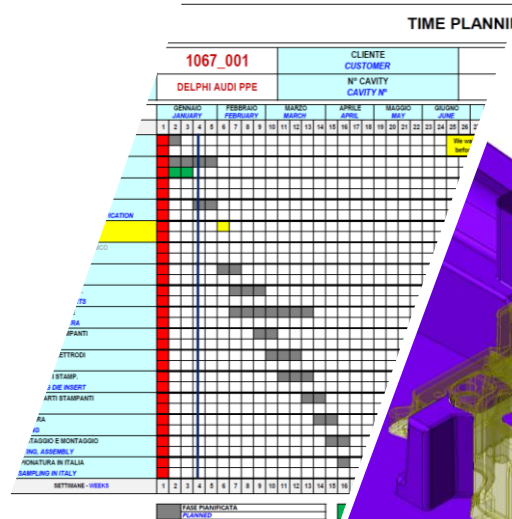
We manage a scheduling of the projects from the order to the delivery.

3 - CAM

After layout approval, we buy steels and prepare CAM programs for machining.

5 - QUALITY CHECK

After milling we use Renishaw software to check the components directly on the machine.



2 - PRE-LAYOUT

We design a pre-layout of the tool, to be shared with the customer for dimensional approval.

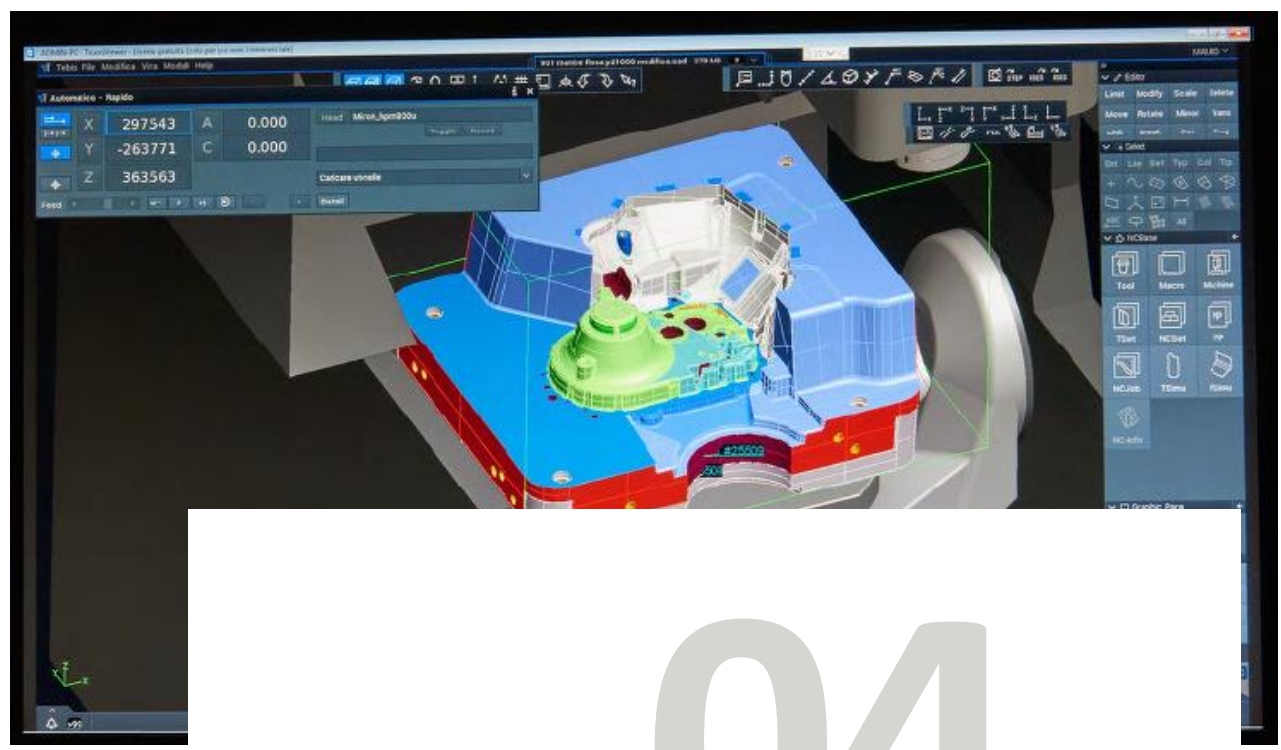
4 - MANUFACTURE

Every component is manufactured accordingly to the scheduled working plan

The heart of production is a scheduling program. Each project is divided into sequential phases, forecast in our planning. This allows us to supervise the production with a real control of progress-status. Milling machines work 24/7.

03

WORK PLANNING



tebis worknc

04

CAM Program.

Our production office uses TEBIS and WORKNc software for CAM programming and realizes all the tool-paths for the mechanical machining. All work cycles and production processes are designed and executed in collaboration with the technical department, enabling us to achieve high quality standards. Kinematic simulation of tool-paths allows the minimization of downtime and raises production efficiency.

CAM PROGRAM

PRODUCTION TECHNOLOGY

5

MILLING SHAPES

6

MACHINES LIST

7

QUALITY CHECK

8

ISO 9001 : 2015

05

MILLING SHAPES

The use of advanced software combined with a technologically advances machinery inventory allow us to achieve high quality work.

The goal of our production department is to constantly improve the machining tolerances to permit the assembly department to work as little as possible on the produced components.



06

MACHINES LIST

CNC 5 AXES

- 1 MIKRON HPM 800HD 2 PALLET
- 1 MIKRON HPM 800HD
- 2 MIKRON 1850 U (1850x1600x900)
- 1 HERMLE C400
- 1 FPT DINO
- 2 EMCO MAXMILL 500
- 1 SIGMA FLEXY
- 1 SACHMAN PX120 (2500x1500x1000)

CNC 3 AXES

- 2 EMCO MC 1200
- 1 RMT KOMPAKT 13
- 1 FAMU PHS812
- 1 OMV BFC1050

EDM MACHINES

- 1 ONA NX6
- 1 ONA AF35 WIRE

DEEP DRILLING

- 1 IMSA MF1000A

LATHES

- 1 MASAK SQT250 M
- 1 GRAZIANO

SPOTTING

- 1 TCS 100TON (1500 X 1200)
- 1 TCS 150TON (2000 X 1500)

Mikron

GF Machining Solutions

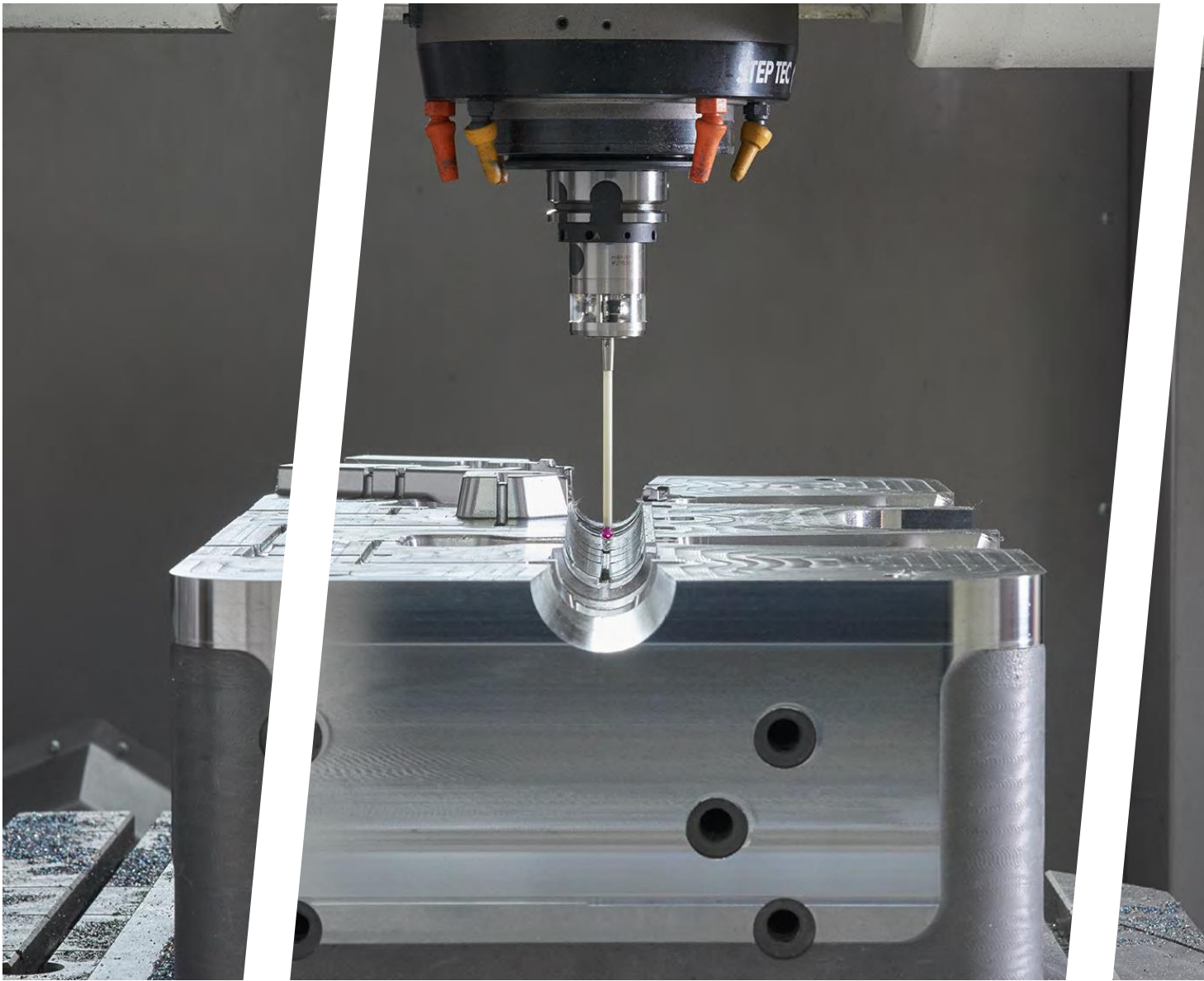
emco

ONA

IMSA[®]
SPECIALISTI DELLA FORATURA PROFONDA

UTAS

MOLD WEIGHT UP TO 20T



All measurements and verifications are carried out in a precise and effective way, mostly thanks to Renishaw tests.

We check all the components directly on the milling machines, after machining. In this way we save time and immediately check the components accordingly to the 3D data.



07

**QUALITY
CHECK**

08

QUALITY VALUES

DEKRA

CERTIFICATE



ISO 9001:2015

DEKRA Testing and Certification S.r.l. hereby certifies that the company
TOMOS S.r.l.

Scope of certification:

Design and construction of moulds for diecasting. EA 17

Certified location:

Via Boccaccio, 54 • I - 25080 Molinetto di Mazzano (BS)

has established and maintains a quality management system according to the above mentioned standard. The conformity was attested with audit report no. I-Q-0121023.

Please refer to documented information of quality management system for exclusions with respect to the requirements of the standard.

This certificate is valid

from 16/04/2021 to 15/04/2024

Certificate registration no.: IT0412082/3

Date of the first certification: 08/03/2006



Antonio Fimiani – Legal Representative
DEKRA Testing and Certification S.r.l.
Cinisello Balsamo, 12/04/2021



SGQ N° 0109 A

Mention degli Accordi di Mutuo Riconoscimento

CA, IAF & ILAC

Signatory of EA, IAF and ILAC

Mutual Recognition Agreements

Lack of fulfilment on conditions as set out in the Certification Agreement may render this certificate invalid.

DEKRA Testing and Certification S.r.l. • Via F.lli Gracchi 27 • I - 20082 Cinisello Balsamo (MI) • www.dekra.it

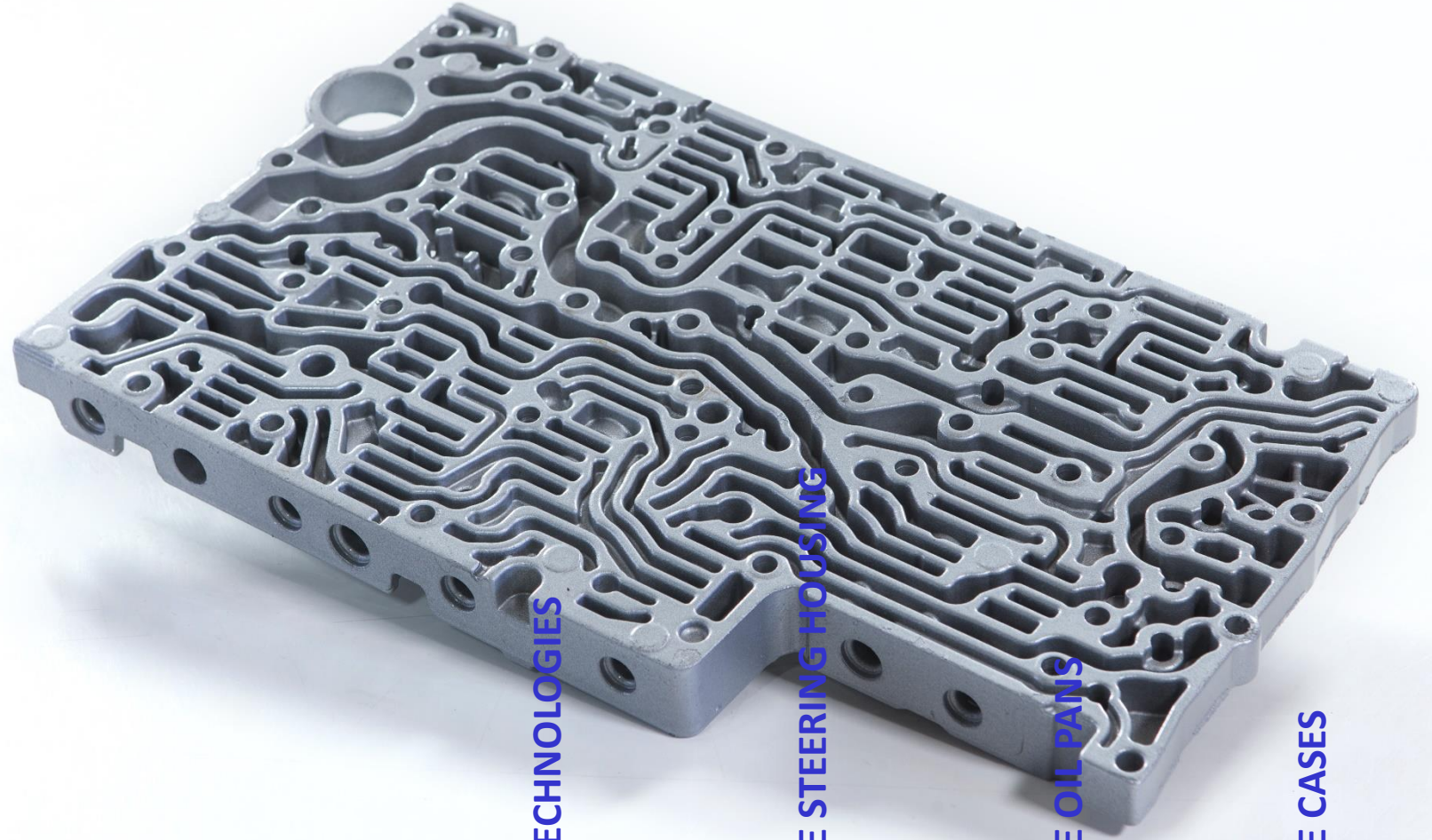
Quality Documentary Evidence has become a prerequisite for most of our customers.

Our certification for normative ISO 9001:2015 is synonym of process guarantee and respect of our sector's regulations.

This certificate is an added value to our experience and represents our company orientation, aimed to satisfy customers requirements, to analyze and exceed their expectations, directly involving all our team with a continuous improvement approach

You are welcome to come and audit us. This occasion can be also an opportunity to show our facilities and know how in high pressure die casting dies.

OUR EXPERIENCE



9 MARKETS - TECHNOLOGIES

10 AUTOMOTIVE STEERING HOUSING

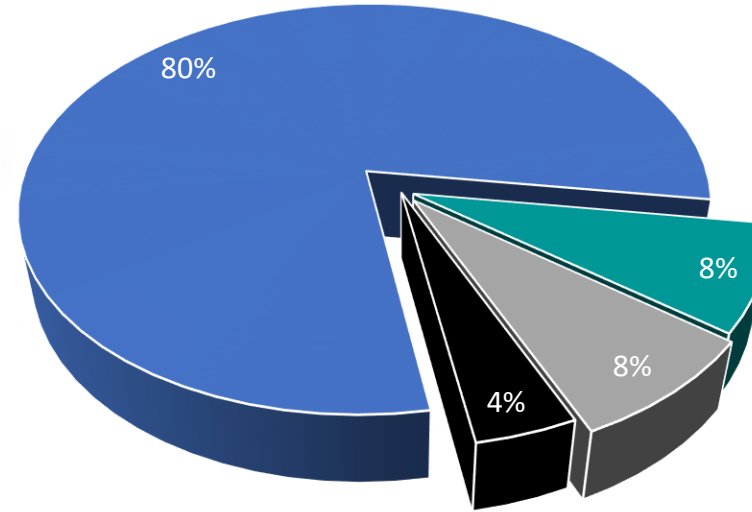
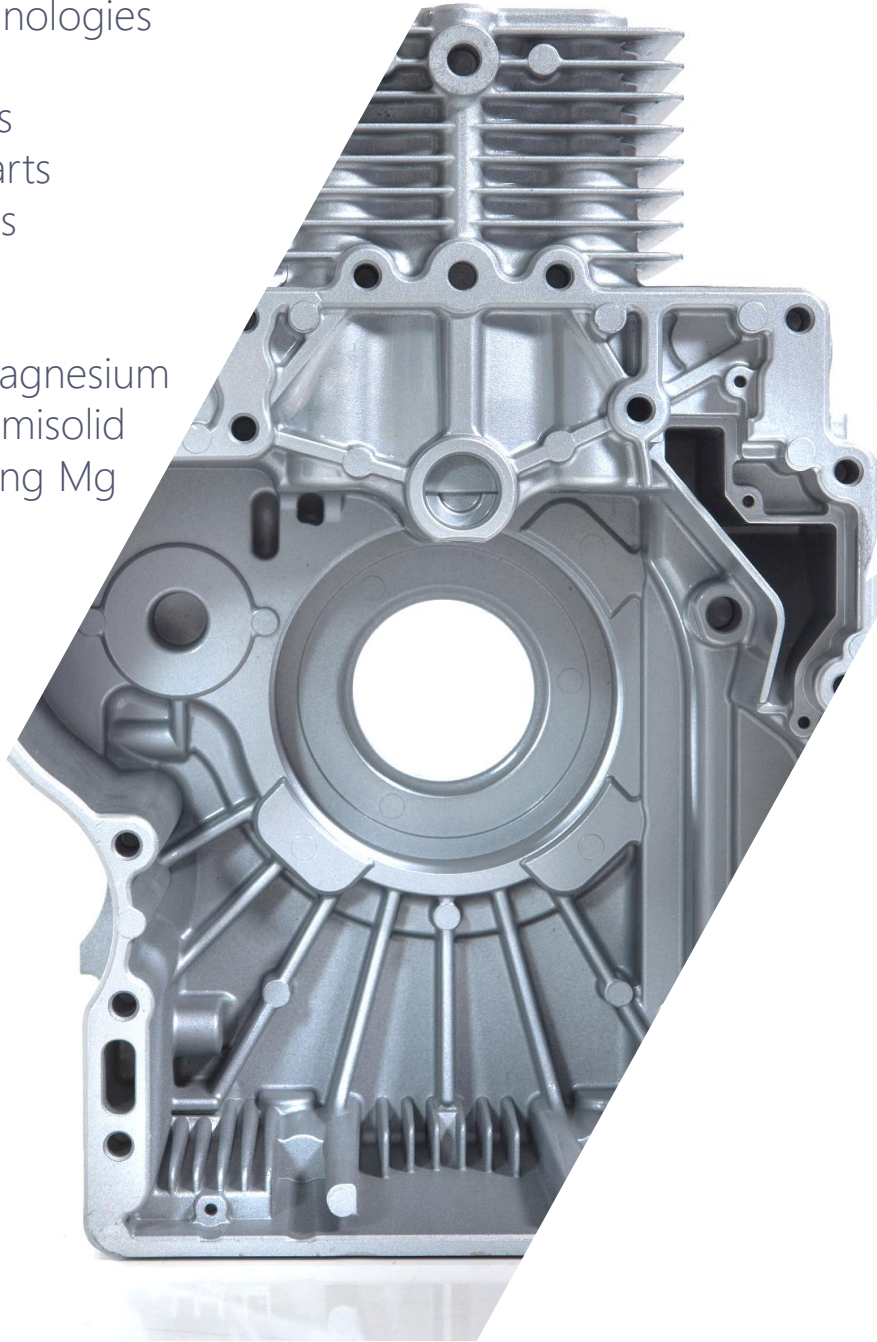
11 AUTOMOTIVE OIL PANS

12 AUTOMOTIVE CASES

13 ELECTRIC HOUSINGS

Production technologies

- R&D projects
- Structural parts
- Squeeze pins
- Vacuum
- Jet cooling
- Molds for Magnesium
- Molds for semisolid
- Thixomoulding Mg



Automotive

Electric

Lighting

Other Industries

09

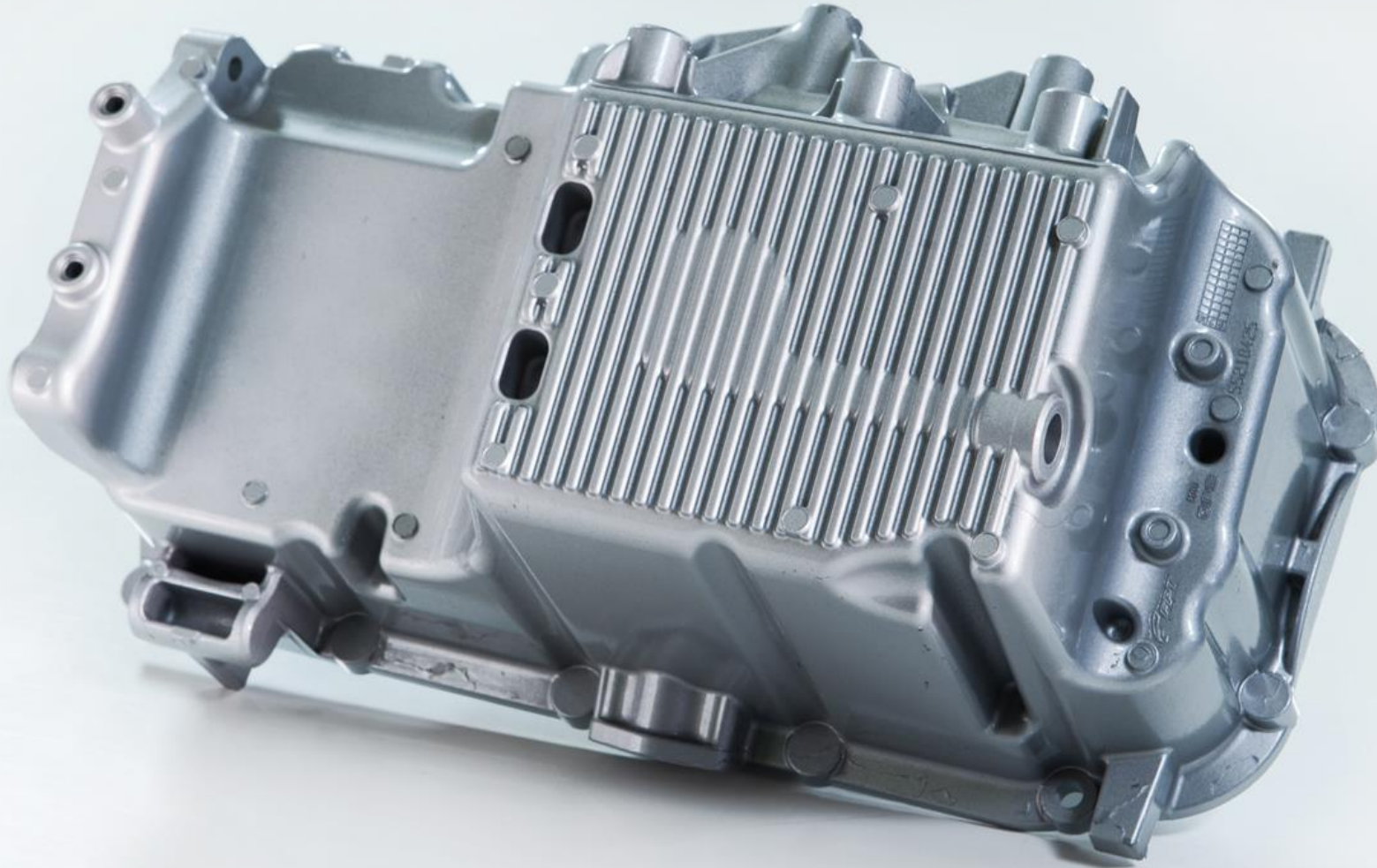
MARKETS
TECHNOLOGIES



10

STEERING
AUTOMOTIVE

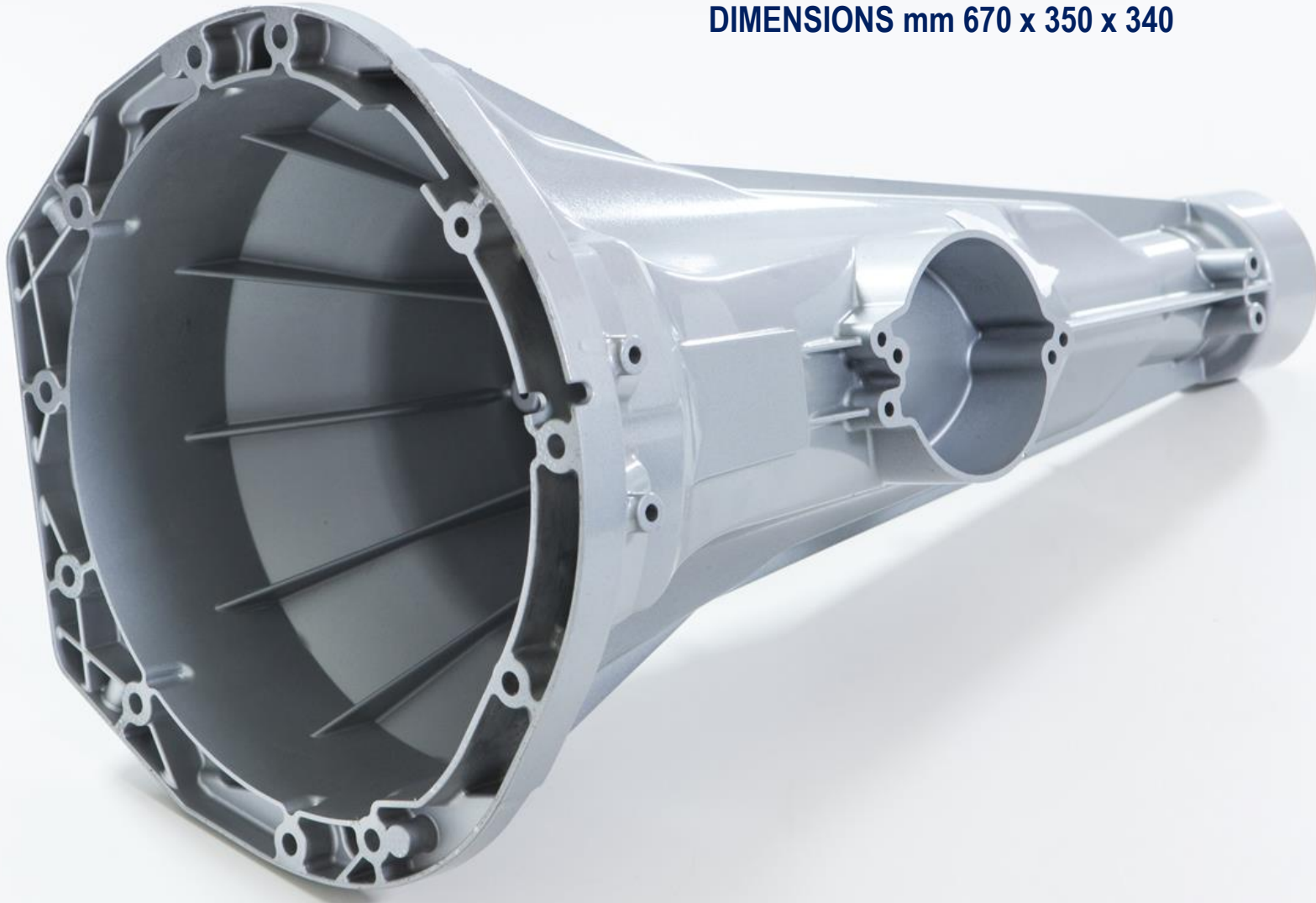
OIL PAN - GM
PRESS 1350T - EN 46100
DIMENSIONS mm 450 x 250 x 190



11

OIL PAN
AUTOMOTIVE

TRANSMISSION CASE **FERRARI CALIFORNIA GT**
PRESS 2200T NOX - SILAFONT 36
DIMENSIONS mm 670 x 350 x 340



12

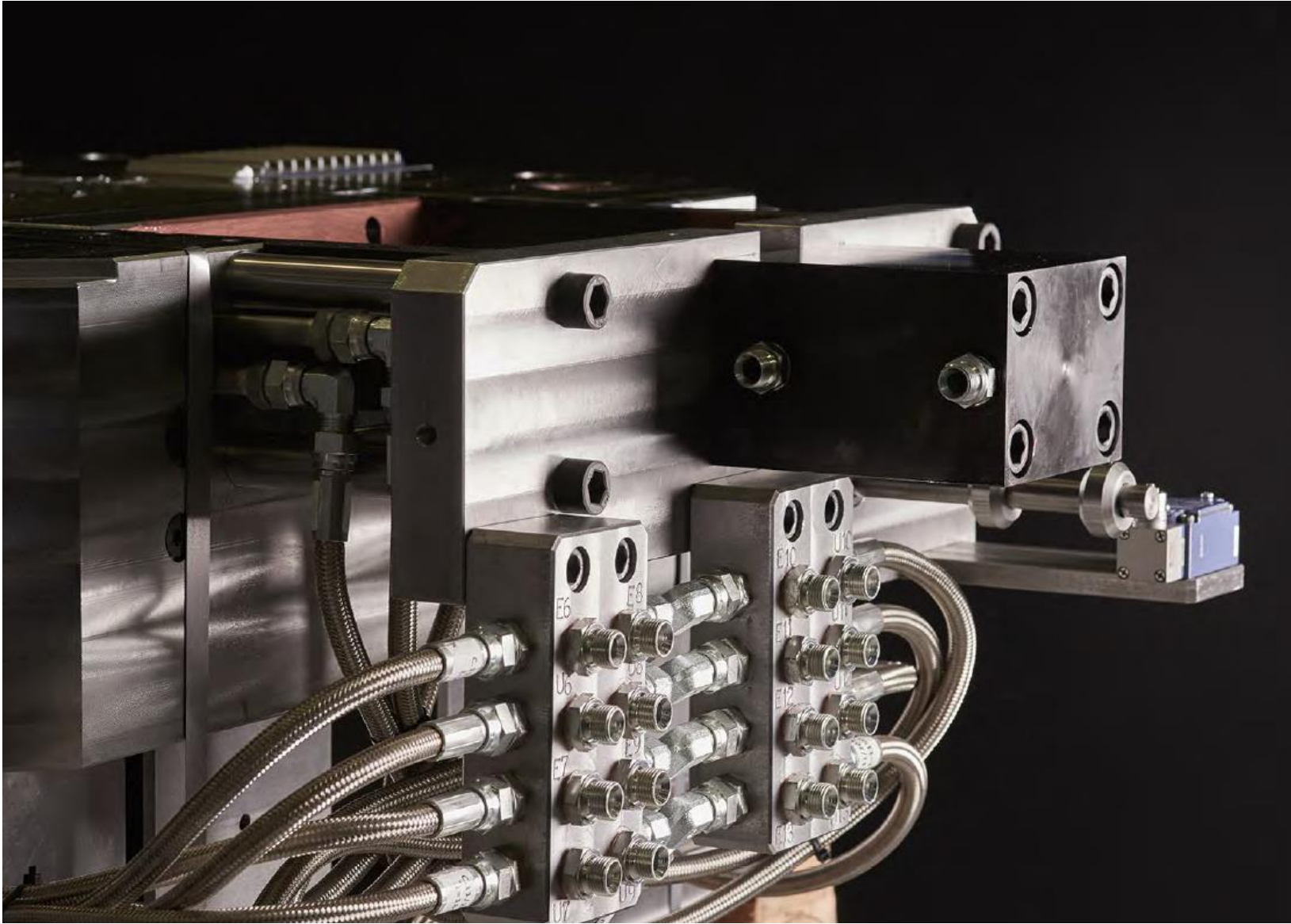
CASES
AUTOMOTIVE

STREET LED LAMP - **IGUZZINI**
PRESS 1600T - EN 46100
DIMENSIONS mm 440 x 440 x 160



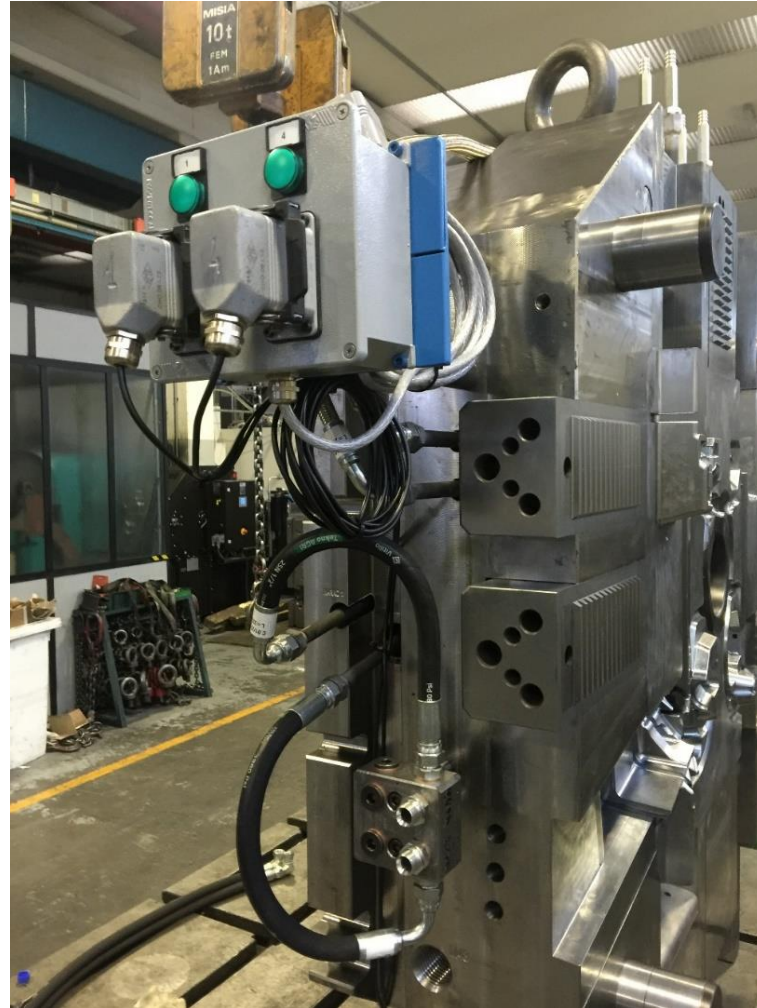
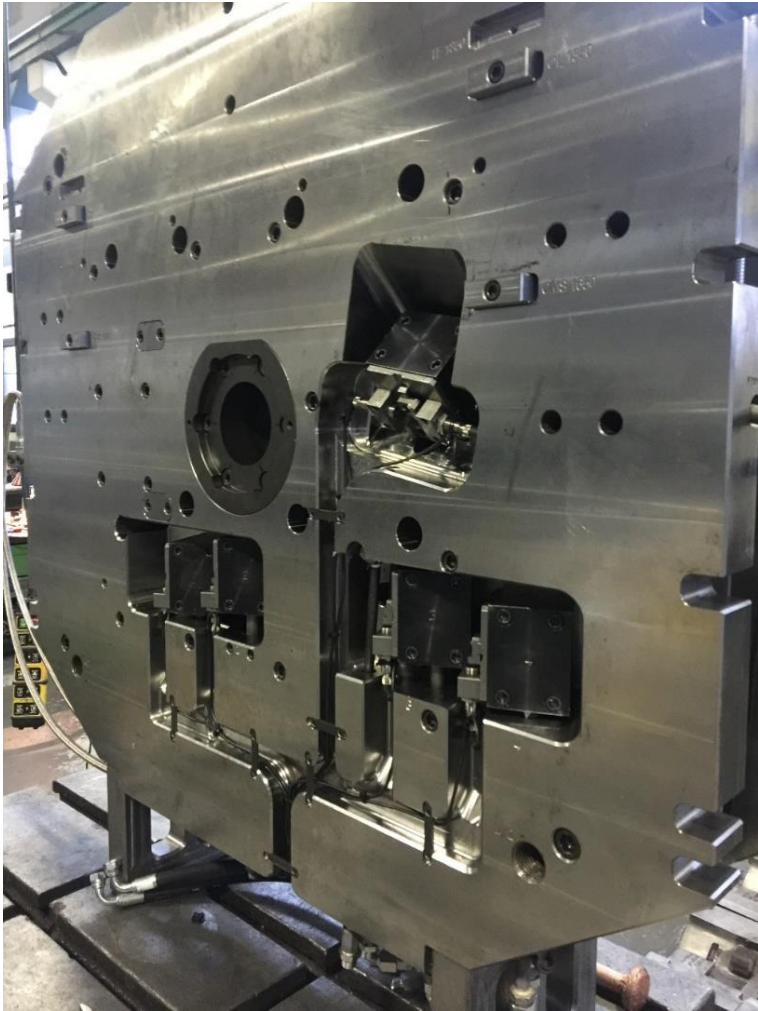
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HOUSINGS
ELECTRIC



MOLDS

Equipped with:
HYDRAULIC AND
THERMO DISTRIBUTORS



MOLDS

Equipped with:
**ELECTRICAL SYSTEM
INSTALLATION**



ITALIAN MOULDMAKER SINCE 1976

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