

trebi

build up for perfection

OUR PLANT



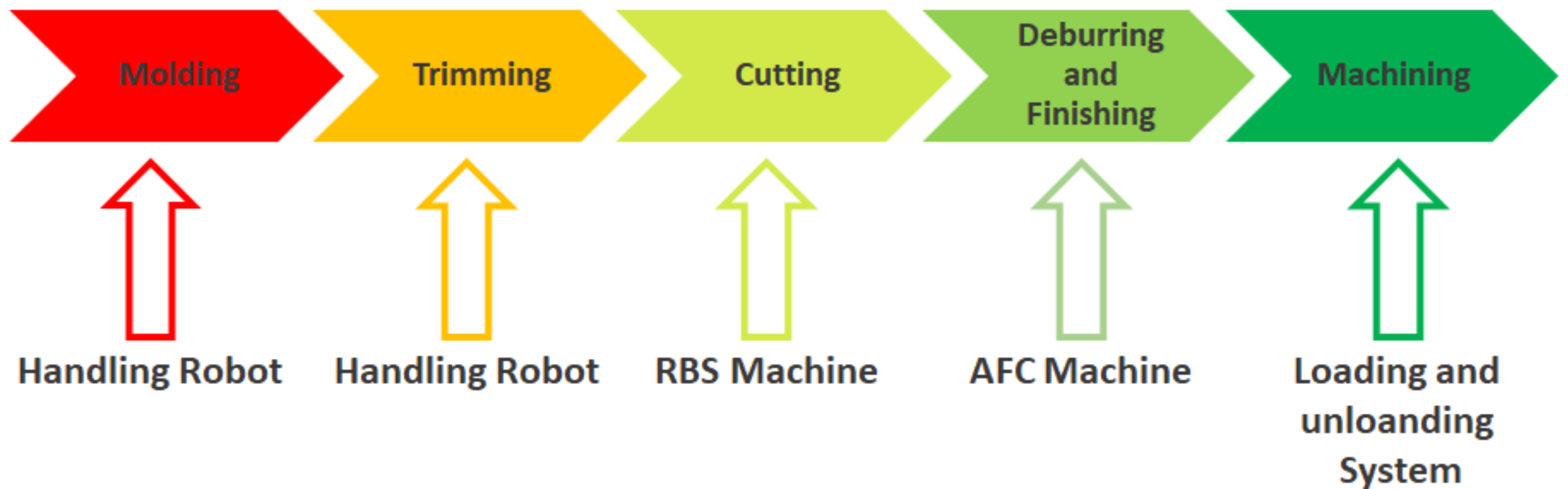


Since 1983 TREBI means engineering and production of machines for cutting and surface finishing of casted parts.

A family company committed to quality and service since the beginning.

TREBI has always been working closely with Aluminum foundries, giving them efficient and innovative solution.

TREBI FOLLOW YOU ALONG THE ENTIRE MANUFACTURING PROCESS





DIE CASTING CELL
developed by TREBI

OUR STANDARD MACHINES

IN LINE

STAND ALONE

AFC50P



AFC200P



RTS1200



AFC450



RBS550



GRD450



CDS600



FDS900-1600



| HANDLING | PART HANDLING | PART HANDLING | TOOL HANDLING | PART HANDLING | PART HANDLING | PART HANDLING | PART HANDLING | TOOL HANDLING |
|----------------------|------------------|--------------------------------------|------------------------|--------------------------------------|------------------------|--------------------------------------|------------------|------------------------|
| Maximum Part Size | Ø600 mm x h350mm | Ø800 mm x h800mm | Ø1200mm x h1000mm | Ø450 mm x h200mm | Ø550 mm x h250mm | Ø450 mm x h300mm | Ø600 mm x h320mm | Ø1600mm x h600mm |
| Maximum part weight | 25kg | 100kg | 50kg | 25kg | from 20Kg up to 40kg | 20kg | 20kg | from 150Kg up to 200kg |
| Robot Size | Payload 45 kg | Payload 205 kg | Payload 150 kg | Payload 45 kg | 100kg | Payload 50 kg | 150kg | 150kg |
| MATERIAL PART | ALUMINIUM | ALUMINIUM | ALUMINIUM | ALUMINIUM | ALUMINIUM-BRASS-BRONZE | STEEL-BRASS | CAST IRON | CAST IRON |
| Casting Technology | Die casting | Die casting - Gravity - Low pressure | Gravity - Low pressure | Die casting - Gravity - Low pressure | Gravity - Low pressure | Die casting - Gravity - Low pressure | --- | --- |
| Disc cutting | • | • | • | • | | | • | |
| Bend Saw cutting | | • | | | • | | | |
| Filing | • | • | • | • | | | | |
| Deburring | • | • | | • | | | • | • |
| Grinding - Taping | | | | • | | • | | |
| Milling | • | • | • | • | | | • | • |
| Sanding | | | | • | | | | |
| Drilling - Threading | | | | • | | | | |

DIDN'T YOU FIND THE RIGHT MACHINE?

When standard machines aren't enough to satisfy our customer necessities we are always ready to develop special machines for special needs

LOOK DOWN TO KNOW OUR BEST-SELLING



Series AFC - Robotic cell for cutting and deburring

Machine for automatic parts finishing, inspired by human operations and developed for perfection in every part worked

Personalization

Layout: in-line , stand-alone

Robot: ABB, Fanuc

Unit: Cutting, Deburring, Grinding,

Threading, Drilling, Milling

Color: Basement, Cabin, Unit

HMI: Hardware and Software





Engine part (HPDC)

Cycle time:

- ✓ Deburring vertical parting line
- ✓ Blistering removal
- ✓ Picking/dropping off

Total 32 seconds



Engine part (HPDC)

Cycle time:

- ✓ Deburring vertical parting line
- ✓ Blistering removal
- ✓ Picking/dropping off

Total 39 seconds



Suspension part (LPDC)

Cycle time:

- ✓ Deburring of parting line
- ✓ Loading/unloading

Total 80 seconds



Suspension part (LPDC)

Cycle time:

- ✓ Deburring of parting line
- ✓ Loading/unloading

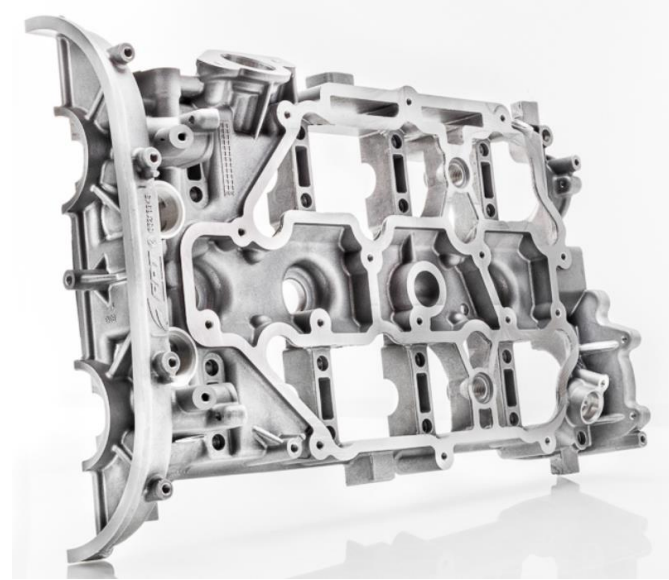
Total 35 seconds



Gearbox (HPDC- 6.5Kg)

Cycle time:

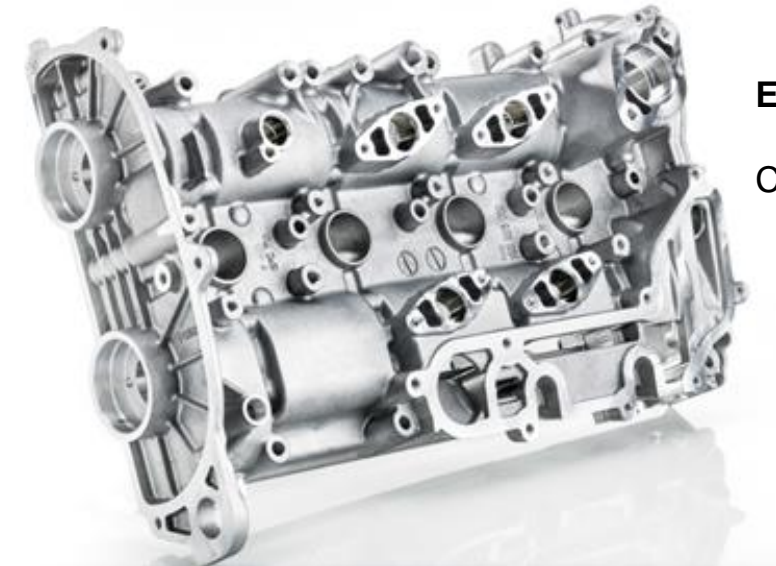
- ✓ Cutting ingates
 - ✓ Deburring ingates
 - ✓ Deburring windows
 - ✓ Picking/dropping off
- Total 65 seconds**



Engine head (HPDC- 4 Kg)

Cycle time:

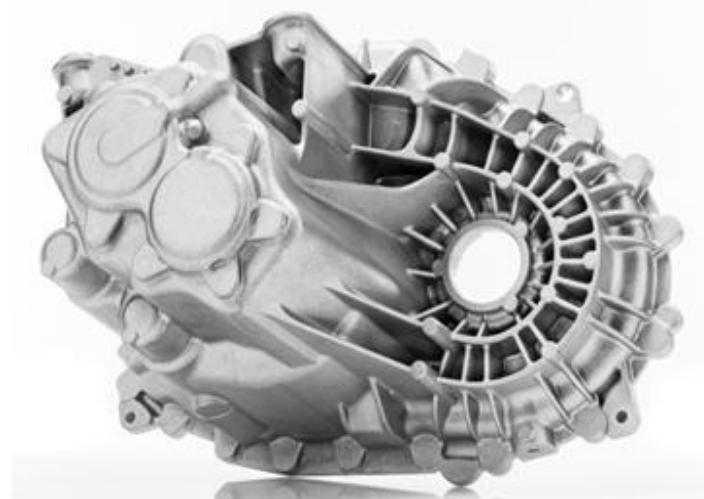
- ✓ Cutting ingate
 - ✓ Deburring operations
 - ✓ Picking/dropping off
- Total 70 seconds**



Engine head (HPDC- 4.5 Kg)

Cycle time:

- ✓ Cutting ingates
 - ✓ Deburring operations
 - ✓ Picking/dropping off
- Total 80 seconds**

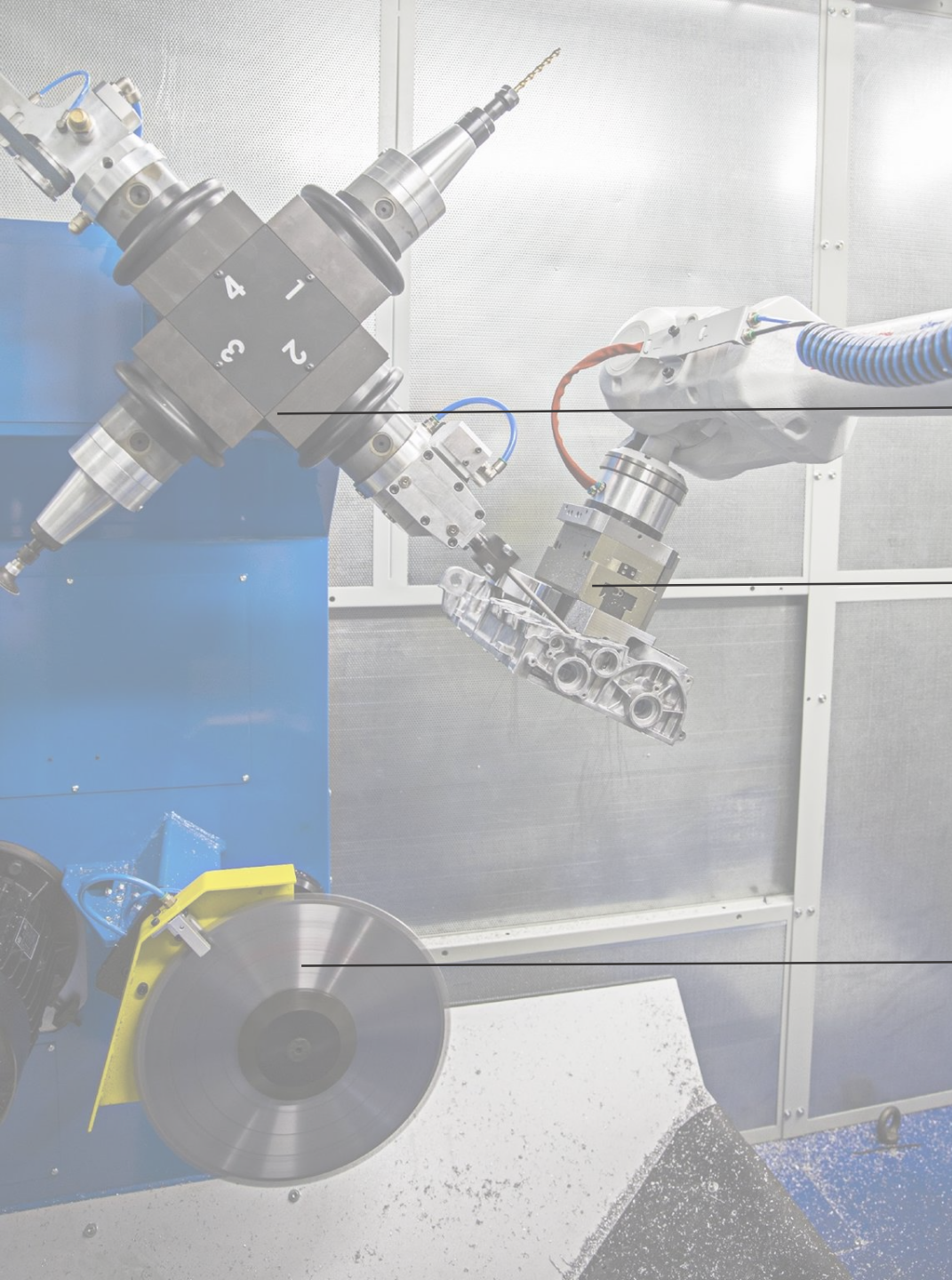


Engine carter (HPDC- 3.5Kg)

Cycle time:

- ✓ Cutting ingates
 - ✓ Deburring operations on vertical line
 - ✓ Picking/dropping off
- Total 60 seconds**

...for finishing die-casted parts



Deburring unit with 4 independent tools

Gripper designed and realized in TREBI

Cutting unit with disk

Series RBS - Robotic cell with band saw for fast cuts

Very compact cell with 3 axis robot completely developed by TREBI; strong, precise, fast and cheap in costs

Personalization

Layout: Single or Double Saw

Rotary table: Capability

Color: Basement, Cabin, Unit

HMI: Hardware and Software





Tap

Cutting cycle
time:
20 seconds



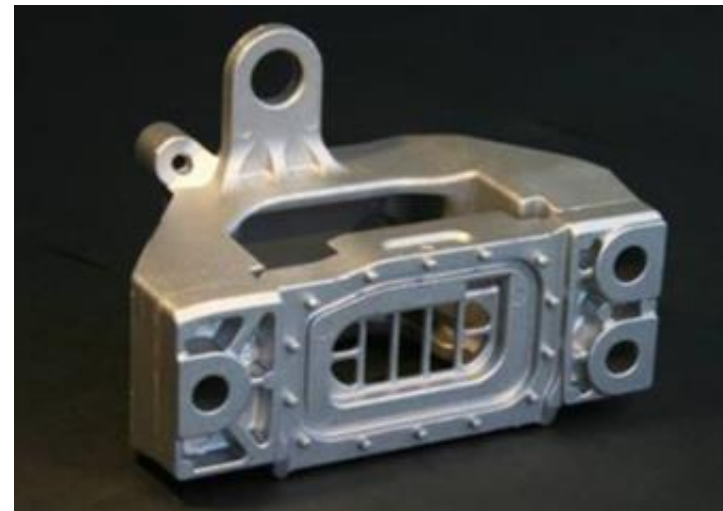
Tap

Cutting cycle
time:
20 seconds



Engine manifold

Cutting cycle
time:
30 seconds



Engine part

Cutting cycle
time:
35 seconds

WHY TREBI

Ten points that permits to be high in quality and to find right solution everytime

1. Compact company
2. Fluid and horizontal organization
3. Fast in solving new problems
4. Machines fully designed in-house
5. Total control of the production
6. Internal software development
7. R&D in collaboration with customers
8. Fast and continuous remote assistance
9. Over 30 years of experience
10. Passion for this job

Recent investments 2017-2019

New plant: 1800 sqm production + 400 sqm offices + 1000 sqm outdoor

New staff: +5 (Now total 28 employees)

New partnership: University of Brescia (Mechanical Engineering)

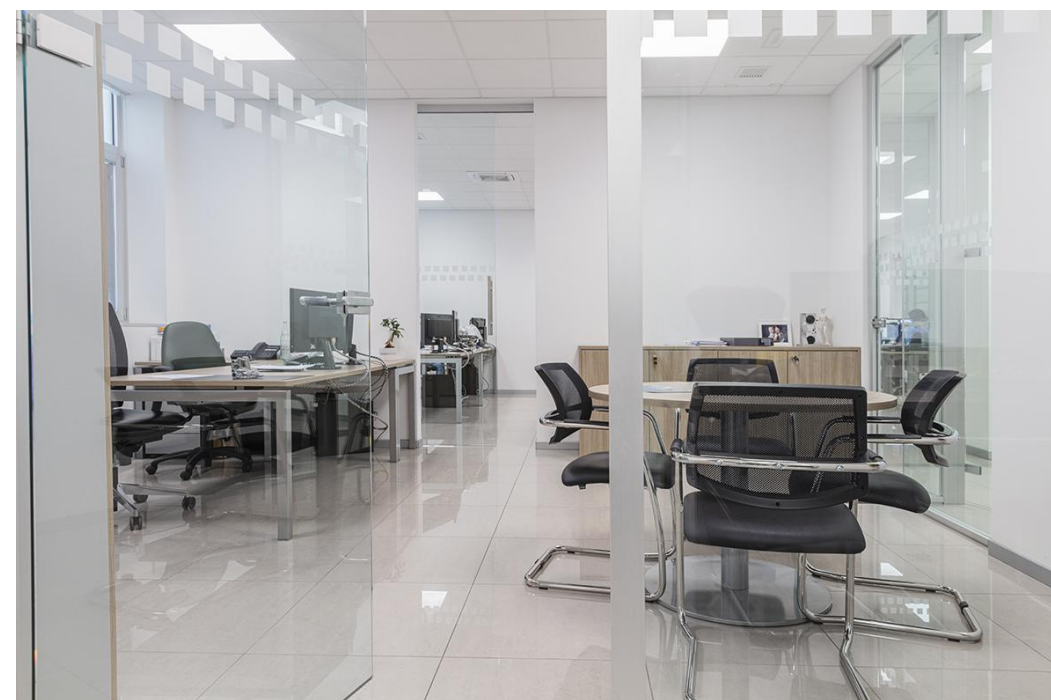
New product development: Bin-picking system (<https://www.robot-loader.com/#NaN>)

New customized: Drilling and threading unit

New equipment: Machine fleet extension (Mazak CNC's)

2 x 10 mt vertical automatic storage system

OFFICE AND HALL



PRODUCTION AREA



FEW OF OUR CLIENTS WOLDWIDE

