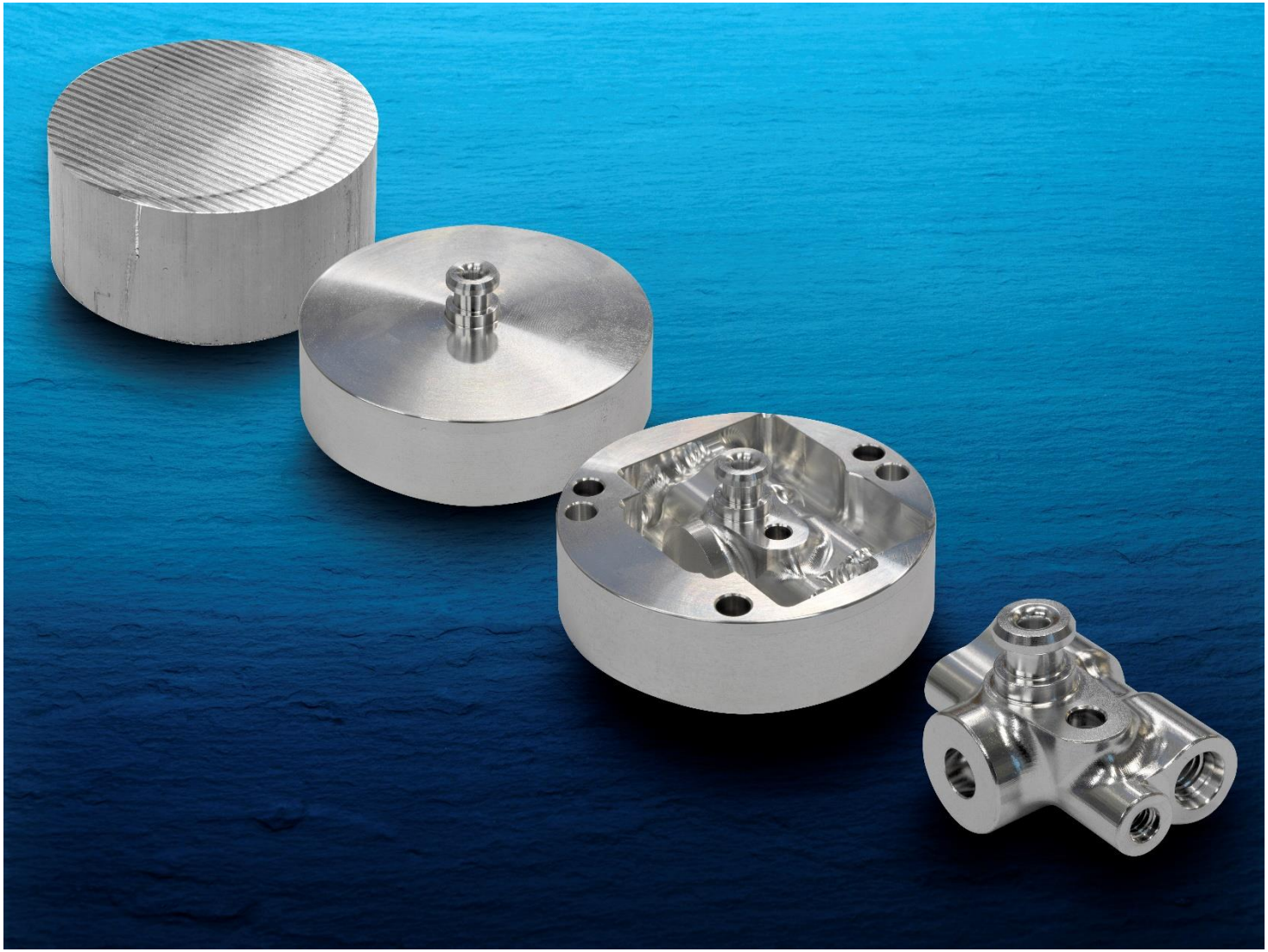
Services, Technologies and Facilities



AUTOMATION

MOTORSPORT

AERONAUTICS

AEROSPACE

MEDICAL DEVICES

WHY CHOOSE US

- ✓ **Quality Management System to UNI EN 9100 and UNI EN ISO 9001**
- ✓ **TECHNICAL DEPARTMENT** equipped with CAD/CAM programming software for CNC 5 axes continuous machining centers and Pro-Engineer stations for designing
- ✓ **MACHINE SHOP** duly equipped for **milling, turning and EDM-wire erosion processings;** hence, also a one stop-shop for **heat and surface treatments** offered in partnership with qualified suppliers
- ✓ **PRODUCTION PROCESS'S TOTAL MONITORING** by means of **Configuration management**, **Risk assessment**, **FAIR** (*First Article Inspection Report*), **PPAP** (3rd level), product's total traceability and **Certificate of conformity**
- ✓ **NDT – Dye Penetrants inspection** carried-out by 2° level qualified staff
- ✓ **QUALITY CONTROL in metrological lab,** an air-conditioned indoor area with temperature-humidity steadily monitored and equipped with CMM measuring machines plus a 3D Zeiss Prismo machine (continuous scanning VAST head)
- ✓ **MULTILEVEL JOB-ORDER MANAGEMENT**, customer total assistance and one-to-one service for an effective, swift and precise action
- ✓ **MATERIAL WAREHOUSE** stocked up of titanium & aluminum alloys, and special steel provided of aeronautical certification plus plastics, various metals and special alloys

MANUFACTURING MACHINERIES: MILLING CENTERS

- ✓ **AGIE CHARMILLES MIKRON HPM 800U HD**; 800x800x550mm; rotable and swinging table; HEIDENHAIN iTNC 530 control system; 5 axes continuous; store with 210 tools and 12 pallets
- ✓ **AGIE CHARMILLES MIKRON HPM 800U HD**; 800x800x550mm; rotable and swinging table; HEIDENHAIN iTNC 530 control system; 5 axes continuous; store with 165 tools and 12 pallets
- ✓ **HERMLE C40U**; 850x700x500mm; rotable and swinging table; HEIDENHAIN iTNC 530 control system; 5 axes continuous; store with 126 tools and 7 pallets
- ✓ **HERMLE C30U**; 650x600x500mm; HEIDENHAIN TNC 530 control system; 4 axes; store with 32 tools
- ✓ **HERMLE C600U**; mm 600x450x450; rotable and swinging table; HEIDENHAIN iTNC 530 control system; 5 axes continuous; store with 30 tools
- ✓ **HERMLE C600U**; 600x450x450mm; rotable and swinging table; HEIDENHAIN iTNC 430 control system; 5 axes continuous; store with 30 tools

MANUFACTURING MACHINERIES: TURNING DPT

- ✓ **DMG MORI NLX 2000/M730BM "Y" axis equipped turning center**; high-rigidity & high-precision; high-speed rotary tool spindle; 20-station turret head; max turning diameter 366mm; max turning length with a tailstock 510mm; MITSUBISHI control system.
- ✓ **GILDEMEISTER SPEED 20-11 Linear** sliding headstock lathe 240x20mm (bar passage); FANUC 160iTB control system; 2 chucks, 36 tool holder station whose 12 motorized.
- ✓ **HARDINGE CONQUEST T42SP** lathe; 353,1x134,9 mm; GE FANUC 18T control system; 12 tool holder station whose 4 motorized.
- ✓ **PPR VEGA 8601** lathe; 340x820 mm; 8601T control system
- ✓ **FIMAP** manual lathe; 260x2000 mm;

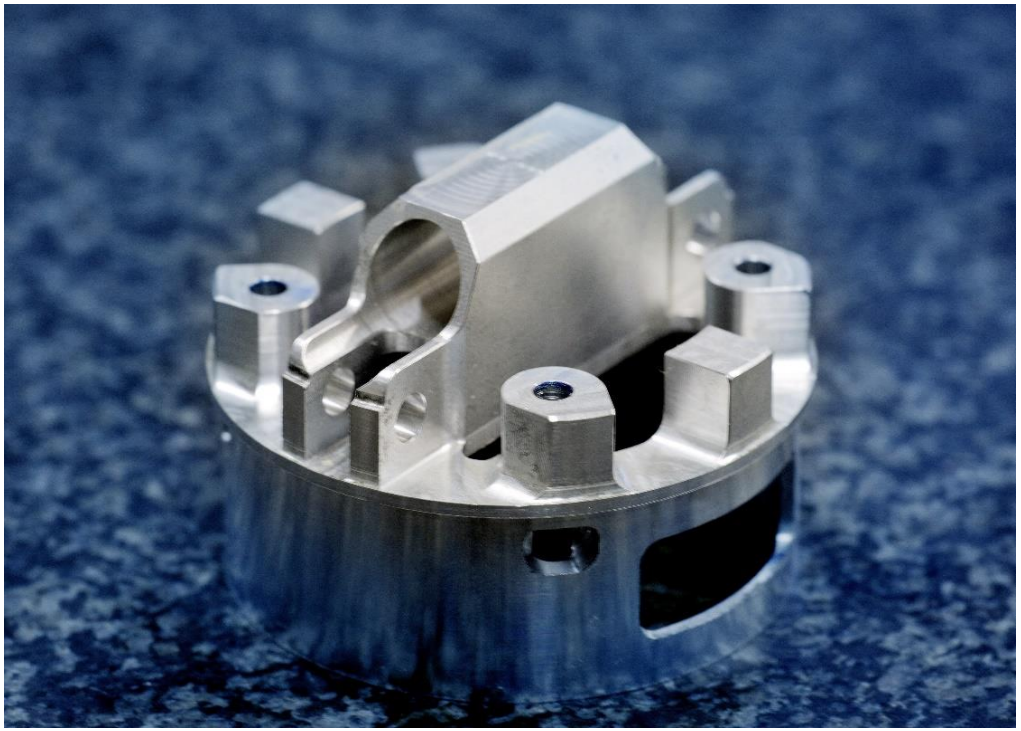
EDM-WIRE EROSION

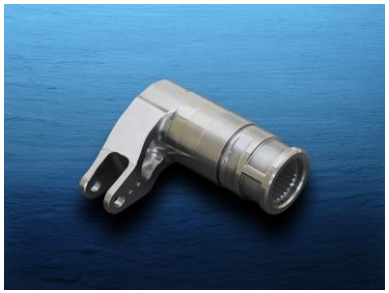
- ✓ **AGIECUT PROGRESS V3**; 500x350x426 mm; AGIE VISION CUT control system

***NADCAP** certificate for generator*

DRILLING, FINISHINGS AND HONING INSTRUMENTS

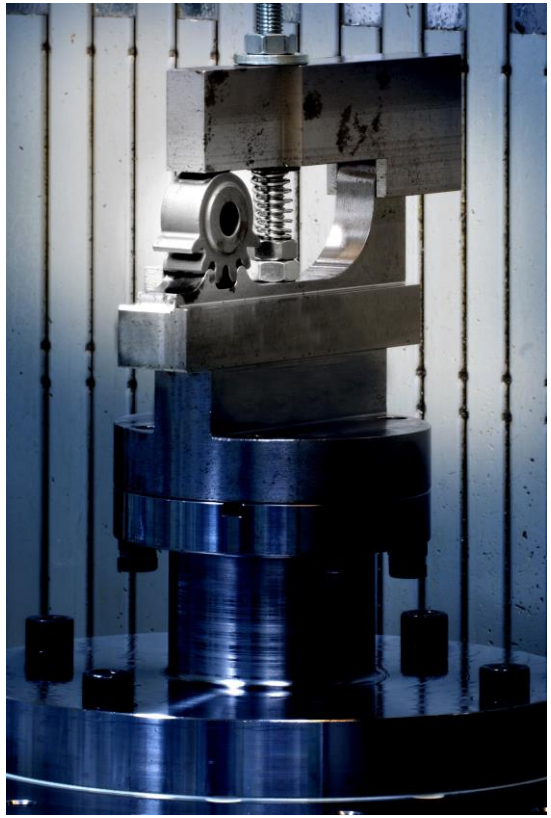
- ✓ METALFINISHING MG/25 **magnetic polishing;** Ø20x8 mm; metal needles
- ✓ **N°2 tumbling** ROLLWASCH RWOD – 25; Ø30x15 mm; n° 1 wet & n° 1 dry
- ✓ **Laser Marker** MCT-LW with automated rotating chuck, 110x100 mm
- ✓ **Dot Marker** FLEXMARK V1; mm 100x100
- ✓ **Ultrasonic cleaning tank** MAGISCLEAN; 360x360xh180 mm
- ✓ **Band saw** BIANCO S-300HB; mm 300x300
- ✓ **Manual drill**





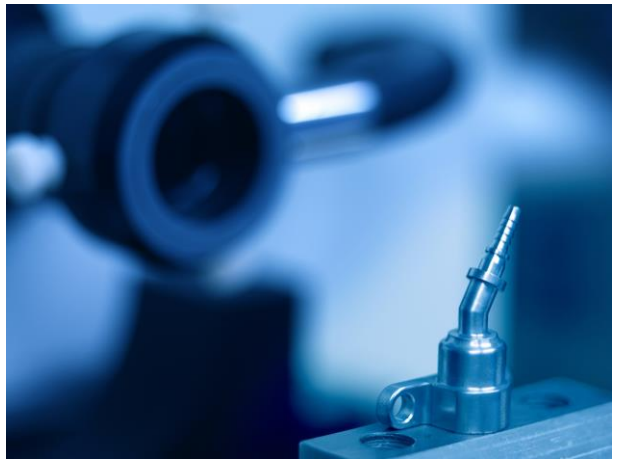
OTHER MANAGED PROCESSINGS

- ✓ Grinding
- ✓ Broaching
- ✓ Tumbling
- ✓ Honing
- ✓ Deburring and manual finishing
- ✓ Assembling
- ✓ Scraping
- ✓ Ultrasonic Cleaning
- ✓ Heat and surface treatments
- ✓ Sand-blasting and shot-peening
- ✓ Metal Coatings
- ✓ Painting



CONTROL AND TESTING DEVICES

- ✓ **CMM ZEISS Prismo MP5 VAST 3D measuring machine**, 700 x 900 x 500 mm; u1 = 2.2+L/350; u3 = 2.5+L/350; E3 = 2.5+L/300 (L in mm) continuous scan; Calypso Software.
- ✓ **Profiles Projector RUPAC SPECTRA**, 300 x 140 mm
- ✓ **Profiles Projector STARRETT SIGMA HB 350**, 200 x 100 mm; screen model QUADRA-CHECK 2000, resolution 0.001 mm, magnification 10X, 20X, 50X
- ✓ **Optical Device OGP SmartScope Flash**, 200 x 200 x 150 mm
- ✓ **Digital Altimeter TESA MICRO-HITE**, mm 600
- ✓ **N° 2 Digital Altimeters SYLVAC HI_CAL 300**, mm 300 (*for both devices*)
- ✓ **Profilometer MITUTOYO CV-3200**, mm 200 x ± 30; risoluzione X = 0.05 µm; Z = 0.2 µm
- ✓ **Surface Roughness Tester MITUTOYO SJ-401**
- ✓ **Hardness Tester GALILEO LTF**; HRC; HB
- ✓ **NDT – Dye Penetrants**, 30 x 60 x 20mm (*tank dimension*); dye-penetrants certificate release; process carried-out by 2° level qualified staff.
- ✓ **N° 2 Microscopes RUPAC model 1640**; magnification from 7X to 45X
- ✓ **Camera JVC TK-C401EG**
- ✓ **Flexible Endoscope HEINE SFT4/720**; minimum Ø4 mm
- ✓ Smooth and threaded plug gauge, smooth and threaded ring gauge
- ✓ Calibrated dowels
- ✓ Standard control devices such as micrometers for outer surfaces, 3 tips micrometers for inner bores and ordinary gages



Non-destructive testing with DYE-PENETRANTS

Ferrari Technology releases a control Report for dye-penetrants, carried-out by 2° level qualified staff.

TECHNICAL DEPARTMENT

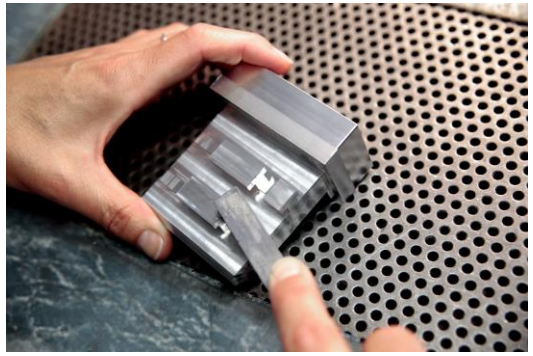
Cad/Cam Programming and designing

- ✓ Cad/Cam Pro/Engineer Stations
- ✓ Cam HyperMill Stations
- ✓ P-Cam Stations
- ✓ Visi-Cam Stations
- ✓ SolidWorks and Solid Inspection Stations
- ✓ Virtual Machining
- ✓ Simplified importing system from any standard CAD format

Bespoke equipments designing

- ✓ Customer's demands analysis
- ✓ Mounting assembly drawing
- ✓ Manufacturing detail drawing
- ✓ Industrialization to reduce time and hence production costs
- ✓ Checking of the actual functionality of existing projects and their potential reengineering

Services, Technologies and Facilities



CERTIFIED QUALIFIED MANAGEMENT SYSTEM

*Ferrari Technology's Quality Management System complies to UNI EN 9100 and UNI EN ISO 9001 for the "**Manufacture of mechanical precision prototypes and small batch machined components on customer drawings**". The UNI EN 9100 was implemented in the 2009 year after the first one - UNI EN ISO 9001 - being originally achieved over 1999 year.*

The vocation for excellence is something contagious

"I was born and grew up in the surroundings of Modena, Emilia 'land of motors' where I have shaped my passion for mechanics.
I started my business venture with a few resources but with a lot of audacity.
Pursuing the values of work, research and team spirit, my successes very soon became my own customers' ones and my enthusiasm hence infected my staff.
Nowadays I work together with a cohesive team ready for any challenge: experienced professionals well trained to win the daily challenge of teaming up with the customer to aim together for excellence".

Giuseppe Ferrari, founder and CEO of Ferrari Technology

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