

GIMATIC MACHINING



Engineered technology to exceed your needs



Gimatic Machining deals with precision mechanical machining.

It supplies customers operating in **various industrial sectors** such as automotive, household appliances, plumbing, industrial automation, agriculture, tool automation, medical and pharmaceutical.

In a manufacturing plant of **8.000 smq** with more than **65 CNC machining centers** we machine any types of material starting from either bar and casted parts.

The site is located in Bagnolo Mella (Brescia) and is specialized in **turning, milling** and in the production of **very precise custom made products**.



8.000 smq Production site

+100 Employees

+65 CNC Machining Centers

5 Automatic Storages for the tools management, bars and extruded parts

500 kWp Solar panels to reduce CO₂ emissions



We can machine each type of materials either starting from bars and casted parts:

- > Steel
- > Stainless steel
- > Non ferrous materials (brass, bronzal)
- > Aluminum
- > Technopolymers
- > Cast iron

Dimensions and materials

System typology	Minimum diameter (mm)	Maximum diameter (mm)	Material
Turning with bar feeder	2	75	Steel, cast iron, stainless steel, aluminum, iron, resin, teflon, bronze, brass
Turning with automatic/manual material loading	16	250	Steel, cast iron, stainless steel, aluminum, iron, resin, teflon, bronze, brass
Multitasking with bar feeder	16	75	Steel, cast iron, stainless steel, aluminum, iron, resin, teflon, bronze, brass
Multitasking with automatic/manual material loading	16	250	Steel, cast iron, stainless steel, aluminum, iron, resin, teflon, bronze, brass
Multipallet	20x20	200x200	Steel, cast iron, stainless steel, aluminum, iron, brass, bronze
Vertical Milling	10x10	200x400	Steel, cast iron, stainless steel, aluminum, iron, brass, bronze



- > Thermal treatments (hardening, tempering, cementation, carbonitriding, phosphating, etc.)
- > Nickel plating and galvanizing treatments
- > White, red, green, black and hard anodizing treatments

Some examples



Oxidation



Hardening



Zinc plating



Our departments ad plants

We count on **65 CNC Machining Centers** (DMG and Mazak) which allow us to provide components and final products of absolute quality.

Our departments are:

- > Multitasking
- > Milling
- > Turning
- > Finishing
- > Quality Check and Final Verification
- > Logistics and Storage



Besides, we count on lappers, tumblers, tangential grinding machines, flat and without centers and 4 Zeiss, of which 2 Contura and 2 Duramax.

Mazak

DMG MORI



Multitasking

A multitasking system can perform different machining operations such as turning, milling, drilling, cutting and more, all in a single processing step and without needing to move the piece between different machines.

Our department

The department contains **13 systems**, 11 of which have a 3-m bar loader.

Horizontal Milling Multi-pallet

Multi-pallet systems are used in CNC machines for automatic loading and unloading of multiple pieces or different operations on the same piece.

Our department

The department contains **16 systems**.



Lathes

CNC lathes, or "Computer Numerical Control" lathes, are machine tools used for turning, that is, removing material to shape a piece.

Our department

The department contains **20 systems**, 17 of which have a 3-m bar loader.

Swiss Lathes

These lathes have a transverse slide, which can be moved along the lathe bed perpendicular to the spindle axis.

Our department

The department contains **7 systems**, all of which have a 3-m bar loader.



Our products

Multitasking



MATERIAL: aluminum
PROCESSING: milling, drilling, boring, tapping, external turning and hobbing
TOLERANCE: 0.02
ROUGHNESS: important
TREATMENT: anodization



MATERIAL: steel - made in a single phase from bar on magazine
PROCESSING: milling, drilling, tapping, internal chamber boring and external turning
TOLERANCE: 0.02
ROUGHNESS: 0.8
TREATMENT: hardening with partner suppliers, after internal tumbling and polishing processes



MATERIAL: aluminum body and steel jaws
PROCESSING: milling, drilling, reaming, tapping, boring, external turning and grinding of the jaws for correct coupling
TOLERANCE: 0.02
TREATMENT: body, anodizing - three prongs, hardening

Multi-pallet



MATERIAL: aluminum produced in two phases
PROCESSING: milling, drilling, reaming, tapping, internal chamber boring
TOLERANCE: 0.02 for counterbores and assembly hole diameters
ROUGHNESS: critical
TREATMENT: tumbling and anodizing



MATERIAL: aluminum produced in two phases starting from an extruded “segment”
PROCESSING: milling, drilling, reaming, tapping, internal chamber boring
TOLERANCE: 0.02
ROUGHNESS: narrow
TREATMENT: tumbling and anodizing

Lathes



MATERIAL: resin produced in a single phase from bar to loader
PROCESSING: milling, drilling, boring, external and internal turning
TOLERANCE: 0.02 for perpendicularity



MATERIAL: aluminum
PROCESSING: turning, drilling, boring, milling
TOLERANCE: 0.02
TREATMENT: anodizing



MATERIAL: aluminum (for large diameters, two-step production possible: five-axis vertical turning and milling)
PROCESSING: turning, drilling, reaming, tapping, internal diameter boring

Vertical Milling



MATERIAL: aluminum
PROCESSING: milling, drilling, boring, tapping
TOLERANCE: 0.02
TREATMENT: tumbling and anodizing



MATERIAL: aluminum produced in two phases starting from a “slice”
PROCESSING: milling, drilling, boring, tapping
TOLERANCE: 0.02
ROUGHNESS: narrow
TREATMENT: tumbling and anodizing

We offer tailored solutions for any application and fully satisfy all needs in the most innovative industrial sectors.



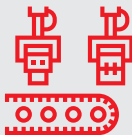
Automotive



Hydraulics



Industrial Automation



Tooling Automation



Agriculture



Home appliances



Pharmaceutical



Medical



Giving you the best product is not enough for us. From us you will also find solutions designed especially for you.



CUSTOMIZED DESIGN

Our designers and software technicians can face projects and feasibility studies of any mechanical parts.



HIGH TECHNOLOGY

Our high technology equipments can produce components and final products with high precision and quality.



QUALITY

Our quality management system is certified **ISO 9001 / UNI EN ISO 9001:2015**
Our metrology room is equipped of automatic machines for the optimal geometry checks (Zeiss checks) and our measurement instruments are all cataloged and submitted to periodical calibration.





Gimatic Machining operates within the **Gimatic Group**, specializing in engineering since 1985, manufacturing components and gripping systems for industrial automation.

Since 2018 Gimatic is part of Barnes Group.



+300 Employees
14 Automation Centres worldwide
100 Distributors



MACHINING

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watch our video