



OFFICINE MECCANICHE DI PRECISIONE

www.cr-srl.it

.....your targetsour goals.



officine meccaniche C.R. S.r.l.

Mission



The philosophy of our company is the constant evolution in the search of new industrial technologies, giving particular emphasis to the quality of the product, in the respect of the environment. Such an outlook as a strong will of the ownership, is shared with all the persons who work inside, every day contributing to the company success through their creativity. Our aim is the ongoing improvement and innovation of the working processes, with a view to the product quality and all the services directed to the customer' satisfaction.

Research



Since many years CR well understood the irreplaceable role of the research and of the innovation inside the firm, looking for new production technologies, investing in more and more high-performance machinery and technologies.

Quality



The CR products belong to a technological innovation program already consolidated. Moreover, our firm, even having decided not to avail itself of any Quality Standard certification, works since a long time under a system similar to the certification. Among the various functional characteristics, some peculiarities are to be emphasized giving a fall on the final product, such as the high automation level and a dedicated information system allowing a constant monitoring of every single operation.

Ecology and environment



Although the air pollution has been pointed out only in the last years, CR is working in the environment respect since the beginning. As a matter of fact, CR was one of the first Italian firms to take care of using pollution-free chemical products and to invest in its own technologies dedicated both to the disposal and regeneration of the lube oils used in the production processes, and to steam cleaners for the degreasing and removal of harmful elements. Every behaviour inside CR is turned with great attention to the environment preservation.



officine meccaniche C.R. S.r.l.



► Object: *COMPANY INTRODUCTION*

CR operates since more than 40 years in the precision mechanics on behalf of a third party, under a constant development both economically and technologically-wise. Our efforts has always been addressed to the customer' satisfaction with a very wide service, on one hand improving the machine tools and the manufacturing range, on the other, improving the internal organization, in order to offer ourselves as leading partners, suitable to plan, realize, and test mechanical components of high precision and complexity.

Our customers generally produce:

- injection moulding machines of plastic materials;
- forming machines for sheet metal work;
- machines for marble and granite work;
- machine tools for metalwork;
- supply for hospital and biomedical sector;
- machines for food-producing work;
- supply for marine and railway sector.

The experience acquired in the manufacture of components and subassemblies for such machinery, so different each others, compels us to face a huge work issues. Our firm is organised to plan middle-small batches, with a good flexibility in the piece dimensions, in their working difficulty and in the customer' delivery request.

Besides the usual turning and milling working, all realized with CNC machines of updated manufacture, we are able to carry out deep drilling, internal smoothing, external and internal grinding (also by CNC machines), surface and spline shaft grinding.

We can offer a service of complete production order management, starting from the materials purchasing, to the thermal and galvanic treatments, up to the final assembly of groups or even complete machines.

As far as the assembly - electrical as well - and painting, we avail of our sister company Tecnomontaggi s.a.s.

We are also specialized in the cutting, bending, assembly and welding of plates: another joint-partner is born, named Sidermec, qualified plant for all the steel structural works.

The whole production is controlled by a quality certification system, guaranteeing the product compliance to the customer' needs: a test certificate can be issued on request. All this based on the experience built with long term customers.

In the following please find the range of machines at present operating in our plant:

Milling

1. Boring machine GOGLIO series RTX 3000x1700x1800 with C.N.C. control, 20-tools, automatic dual rotating head.
2. Boring machine FPT RONIN M80 8000x1500x2500 with Heidenhain C.N.C control, automatic dual rotating head, 60 tools, 5000 rpm
3. Boring machine RAMBAUDI VERSAMILL, 2000x800x700, with C.N.C. control
4. Boring machine NOVAR KBF 900, 2000x900x1400, with C.N.C. control, 40-seats automatic tool magazine, automatic dual rotating head
5. Milling machine CME, 2500x1200x1500 with Heidenhain C.N.C control
6. Horizontal machining center MAZAK MAZATECH FH-6800, 1050x880x800, 6-pallets exchange, 160 tools, 30 KW, 10000 rpm
7. Horizontal machining center MAZAK MAZATECH FH-680, 1050x800x825, 6-pallets exchange, 120 tools, 40 HP on the spindle
8. Horizontal machining center MAZAK MAZATECH FH-880, 1300x1100x1000, 8-pallets exchange, 237 tools, 40 HP on the spindle
9. Horizontal machining center MAZAK HCN5000, 6-pallets exchange, 320 tools, 18000 rpm
10. Vertical machining center MAZAK VTC 200 C
11. Vertical machining center MAZAK VTC 200 C II
12. Vertical machining center MORI SEIKI MV-JUNIOR, 560x420x400, 2-pallets exchange, 30 tools
13. Vertical machining center FAMUP MCX 1000, 1100x500x470, 2-pallets exchange, 30 tools, 4th axis
14. Universal knee and column milling machine RAMBAUDI MS-3
15. Universal knee and column milling machine MISAL FU-2

Turning

1. Turning-milling center MAZAK INTEGREGX 35Y, 1500xØ470, 40 tools with Y axis
2. Turning-milling center MAZAK INTEGREGX 400 // Y, 40 tools with Y axis
3. Turning-milling center MAZAK INTEGREGX 200 /// S, 40 tools with Y axis and dual spindle
4. Lathe CNC MAZAK Quick Turn NEXUS 200, 200x1000
5. Lathe CNC MAZAK Quick Turn NEXUS 200 II, 200x1000
6. Lathe CNC MAZAK Quick Turn NEXUS 350 II, 200x1000
7. Vertical lathe MAZAK IVS200, 275x150, 12 tools, automatic tool magazine, 20 small pallets

8. Lathe CNC UTITA T300, 2600xØ400
9. Lathe CNC UTITA T500, 2000xØ650, with powered tools and C axis
10. Lathe CNC CMT900, 1850x860
11. Lathe CNC CMT700, 3000x660
12. Vertical lathe Vi Macchine SKT-V80R, 800x800
13. Vertical lathe Vi Macchine SKT-V5R, 625x600
14. Vertical lathe Vi Macchine SKT-V5S, 625x600
15. Lathe CNC PPL POLARIS, 1200xØ500
16. Lathe CNC NAKAMURA-TOME TMC-30, 550xØ320
17. Traditional lathe OMG ZANOLETTI, 800xØ400
18. Slide lathe PONTIGGIA, 5000xØ800, equipped with CNC deep drilling unit, system EJECTOR; drilling on solid from Ø12 to Ø65. Widening up to Ø90.
19. Traditional lather for tooling

Grinding

1. CNC cylindrical universal grinder MORARA EA/RI, 2000xØ500
2. CNC-Universal cylindrical grinding MORARA MH T 2400xØ500
3. Cylindrical grinder STUDER S31, distance between centres of 650 Or 1000mm
4. Cylindrical universal grinder RIBON 1200xØ300 with Marposs
5. Cylindrical grinder TACCHELLA RU 600xØ200, automatic with Marposs
6. Internal grinder RIBON RI-250 semiautomatic
7. Edgewheel grinder FAVRETTO MF 200, 2000x1300x900
8. Edgewheel grinder FAVRETTO MB 100, 1200x550x600
9. Edgewheel grinder ZVL BRH 40B , 1500x400x400
10. Splined shaft grinder FRITZ WERNER 3.275, 1000 grindable length, 1500 max piece length

Precision Finishing

1. Sanding machine for bores SUNNEN EC3500 automatic, from Ø3 to Ø60, 400mm max length
2. Sanding machine for bores CR, from Ø16 to Ø400, 800mm max length, using the SUNNEN honing system

Varius machines

1. Presetting Speroni Esperia ST66
2. CNC slotter PERINI CMP 300, spindle bore Ø110

3. Radial drilling BERGONZI, 1250 arm
4. Band sawing machine FRIGGI 1MF-320, automatic with PLC control
5. Band sawing machine PEDRAZZOLI SN310 S.A., semiautomatic

Adjustement and Finishing departement

Column drilling machines, beveling machines, belt sanders, sandblasting machines, tumblers, electro tools, pneumatic markers, and so on.

Quality Control.

Complete set of instruments for the dimensional control both in production and on final inspection.

- Heights meter TESA HITE 600 , on surface plate 600x400
- Heights meter TESA MICRO-HITE 1, on surface plate 1000x1000
- Toolmaker measurement microscope MITUTOYO TM, 30x and 75x, reading 0.001mm
- CNC tri-dimensional measurement machine TESA 9-12-9, measurement volume 1200x900x850, head RENISHAW PH9; measurement accuracy:
 - U1 4.5 + 2.9 L/1000 micron
 - U2 5.0 + 4.3 L/1000 micron
 - U3 5.5 + 4.6 L/1000 micron
- 0.0005mm resolution. The machine is placed inside an air-conditioned room at 20°C (+/- 1°C)
- Stand Rockwell hardometer GALILEO
- Portable hardometers INSTRUMATIC and CISAM
- Profilometers MAHR Perthometer M4Pi and M1
- Gauge blocks in the 0 and 1 degrees
- Instrument for ultrasound control Panametrics
- Fixtures Kolb & Baumann for the instruments adjustment
- Round Test MITUTOYO
- Thousandth measurement column
- Wide range of gauges, smooth and thread

Production Management

The CNC machines are connected to a CAD-CAM system.

For the more complex operations, where the operator on the machine cannot intervene, the technical office assisted by dedicated software (Autocad or CAD-CAM like hiperMILL) carries out the design and the respective programming directly from the desk.

An updated networking information system assists all the activities regarding the production, the quality system and the company administration.

Contacts:

C.R.srl via dell'industria, 3 - 35010 Trebaseleghe (Pd)
tel. 049 9385129 telefax 049 9385290

e-mail:

Managing Director:	daniele@cr-srl.it	Rossetto Daniele Cell. 335-7277544
Sale Department:	commerciale@cr-srl.it	Rizzato Michele
Purchasing Departement:	acquisti@cr-srl.it	Gumiero Sergio
Accounting Department:	contabilita@cr-srl.it	Scattolin Ileana
Quality Control Inspection:	collaudo@cr-srl.it	Marton Gino
Technical Department:	tecnico@cr-srl.it	
Secretary's Office:	info@cr-srl.it	Site: www.cr-srl.it



OFFICINE MECCANICHE DI PRECISIONE



TECNO
montaggi s.a.s.



The CR Group



The **CR srl** firm, in order to supply the customers with all the services suitable to satisfy every need, set up some independent satellite structures, each one with specific peculiarity, in order to complete the production cycle of every mechanical component.

In such a way CR is able to propose itself to its customer as a reference partner, suitable to realize, manage and test the supply of machines or mechanical components of high complexity and precision.

The satellite firms of the CR Group are :



SIDERMEC, strong by the fifteen-years experience in the sheet working on behalf of a third party, offers itself as specialized reference for the middle-heavy precision steel structural working, both of stainless steel and iron, for housing or generally plates.

Sidermec has a range of leading tooling machines, suitable to carry out not only all the phases preceding the structural assembly, but also finished parts of mechanic working.

It avails itself of a large warehouse of raw material, good for meeting the ordinary request in a short time. The main sectors where Sidermec operates are: steel and iron, food, biomedical, packaging, ceramic industries and automatic machines.

Sidermec is located in a proprietary building, on a total area of 2.500 square metres.

Peculiar aspects of the company are the great skill and availability to follow up and support also the request of the most demanding client.



COGIT is specialized in the milling of middle-large mechanical parts, on one hand, and in the samples supply for prototypes or small series realization, on the other.

It is equipped with a modern range of traditional tooling machines and vertical machining center:

1. Milling machine equipped with mobile standard CME FCL , 6000x1200x2000
2. Milling machine FPT, 2000x800x1200
3. Vertical machining center MAZAK VTC 200 C
4. Vertical machining center MAZAK VTC 300 C
5. Vertical machining center MAZAK NEXUS-500 C

COGIT is located in a proprietary building, on a total area of 2.000 square metres.



TECNOMONTAGGI proposes itself to the customers as assembler of automatic machines. Thanks to an efficient organization it is able to guarantee the components supply , the spare parts management and carry out the functional testing of the assembled machinery.

Tecnomontaggi provides the assembly of machines or groups in small, middle series, directed to the most varied sectors:

- Steel and iron
- Pharmaceutical
- Machine for marble/ceramic industry
- Railway