



**EXCELLENCE IN GRINDING
AND MANUFACTURING OF PRECISION
MECHANICAL COMPONENTS**



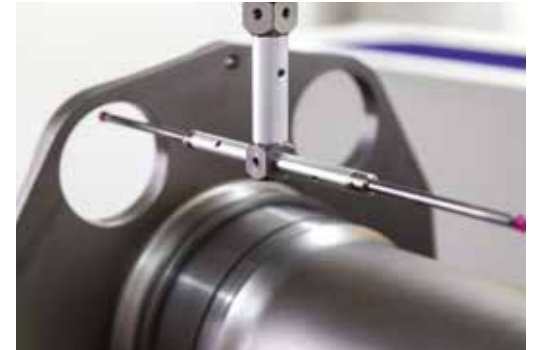
RETTIFICA NORD
MECCANICA DI PRECISIONE

FORTY YEARS OF EXPERIENCE IN GRINDING

Rettifica Nord S.r.l. has worked in the field of precision machining since 1981, specialising in the grinding of mechanical components, of all sizes, that are used in a wide variety of manufacturing sectors.



Rettifica Nord has always kept abreast of new technologies to cope with the constant changes and demands of the market and has perfected its knowledge of raw materials and machining systems.



WHY CHOOSE US?

Over the forty years of its existence, Rettifica Nord has built the foundations for a solid present and an ambitious future, to become a reference company in the grinding sector. It has done so by maintaining clear values and setting challenging objectives, qualities that have characterised its growth and been instrumental in achieving the role of leadership within the metalworking sector.

- › GRINDING AND MANUFACTURING OF HIGHLY COMPLEX PARTS
- › AN IMPRESSIVE FLEET OF MACHINES
- › HIGHLY QUALIFIED PRODUCTION TEAM
- › IN-DEPTH KNOWLEDGE OF DIMENSIONAL AND NON-DESTRUCTIVE TESTING
- › PART OF A SOLID GROUP IN THE METALWORKING MANUFACTURING CHAIN





MACHINING AND MACHINERY



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Thanks to the use of innovative abrasives, the company processes steels with different types of coating (chromium/tungsten carbide, aluminium/chromium oxide) and other tough materials such as Carboloy (Widia), Inconel, K100 and K720 steels, through to rubber.

AN IMPRESSIVE PRODUCTION CAPACITY

With a fleet of no less than 48 grinding machines and the professional dedication of a highly qualified and expert production team, Rettifica Nord is a point of reference for the entire market in terms of quality and ability to carry out extremely complex machining operations.

**WE GUARANTEE PRECISION OF UP TO 0.001 MM.
WE MACHINE COMPONENTS UP TO 5000 MM.**

Machine inventory	Diameter (min/max) mm		Length (max) mm	Width (max) mm	Precision up to mm
Inside diameter grinders	1	1200	4500		0,001
Outside diameter grinders	2	960	5000		0,002
Vertical grinders (inside and outside)	30	2000	1700		0,002
Surface grinders			2500	850	0,002
Surface grinders with inclinable workhead			2000	800	0,002
Centre grinders	2	200	1000		0,001

A close-up photograph of a precision-machined metal component, likely a part of a machine tool. The component features a large, circular, recessed area. A thin, polished metal rod with a small, bright red spherical tip is positioned within this recessed area. The background is blurred, showing other parts of the machinery and a clean, industrial environment.

DIMENSIONAL AND NON-DESTRUCTIVE TESTING

Rettifica Nord has a fully equipped testing room for **metrological analysis**, the most important element of which is the three-dimensional **Zeiss Contura** machine with point-to-point control and continuous scanning capabilities. Thanks to this equipment, the company can supply a rigorous **dimensional report** upon completion of the work.

The operators at **Rettifica Nord** are UNI EN 473 and SNT/TC1A-86 qualified to perform **non-destructive testing** using **liquid penetrant** and **magnetic particle inspection**. On request, the company issues certificates of suitability according to European and American regulatory standards.

LARGE PROJECTS FOR LARGE SECTORS

From the food and electro-medical sectors to the aeronautical, shipbuilding and machine tool industries, Rettifica Nord has left its mark in many places around the world. From French **nuclear power stations** and Dutch **agricultural machinery** to **oil & gas plants** in the middle of the ocean: there are numerous projects that the company has helped to realise thanks to its know-how.





MANUFACTURING TO ORDER OF PRECISION MECHANICAL COMPONENTS

Rettifica Nord can manufacture **mechanical components** starting from the **customer's** drawings and manage the entire supply chain, from material purchasing to parts testing and certification, thanks to our **network of qualified partner companies** which we have selected with great care over the years.



The manufacture of mechanical components can include various types of machining processes such as **heat and surface treatments, turning, milling, and drilling, up to grinding and superfinishing**, which Rettifica Nord carries out at our factory in Padua.

- > HEAT AND SURFACE TREATMENTS
- > COATINGS
- > TURNING, MILLING, AND DRILLING
- > GRINDING AND SUPERFINISHING

CERTIFIED QUALITY SYSTEM

The company has UNI EN ISO 9001:2015 certification issued by the Institute of Industrial Certification for Mechanics with certificate no. 1388 and IQNet IT 11515.





QUALIFIED PARTNER

Rettifica Nord is a strategic partner of industrial groups of international standing that recognise its role as a qualified supplier for key projects in sectors such as **oil & gas, the steel industry and machine tool production.**





OUR COMPANIES



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MECCANICA DI PRECISIONE

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