



Fratelli Rotondi

Measuring Technology since 1943

Company Profile

Accuracy, a family passion since 1943

About Us

About us, our history



The company FRATELLI ROTONDI began its activity in the 1943 with the planning and the construction of measuring and testing instruments for mechanical purpose as surface plates, standard square, V blocks, straight edges, standard rules gauges etc.

The company grew in the years extending the range of the instruments, improving the productive processes and distinguishes itself in the quality and in the reliability

In the philosophy of improving quality since in the beginning of '50 years the company had laboratory with controlled environmental conditions (temperature humidity and vibration) and extended its range of production with optics instruments and measuring systems for measuring equipment's and machining tools

In this years began also the co-operation with National and International Institutes of Metrology. In the middle of '60 years FRATELLI ROTONDI FARO began the production of the bidimensional measuring machines and in the next years tridimensional

In the years '70,'80,'90 increased the range of the machines to satisfy the needs of the automotive, aerospace Mechanical and electronic fields. The company is present in every world markets with prestigious customers.



Today Fratelli Rotondi work in all main markets both national and international thanks to its presence with many and prestigious customers.

The company endow:

- ✓ Technical Offices for design of own machines
- ✓ Production area with traditional and cnc machining tools
 - ✓ Metrological instruments
- ✓ Assembling and trial areas with constant and controlled temperature close off from outside interferences;
 - ✓ Demonstration area for own machine
 - ✓ Third parts measuring service area
 - ✓ Training spaces

All Fratelli Rotondi products are designed, produced and tested in Italy in its own factory.

References



Aerospace

Industry



Automotive

Research



Motorcycle

Stylus Center



Products

Our Products



The company has consolidated in the years its portfolio with standard and strictly customized products.

Metrology and Surface analysis

- CMM/measuring system/portable arm
- Layout CMM and light milling systems
- Optical Measuring CMM
- Handled 3D laser scanner
- Industrial TC

Precision

- Glass Scales on float glass
- Inox Steel Scales
- Reticles/ Photomask/ Test targets



Equipment

- Cast iron and granite plates
- Squares and cylinders
- Scales
- Calibration standard
- Blocks and parallel prism

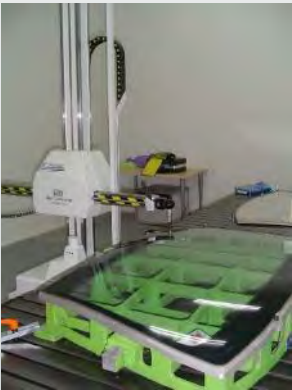


3D Measuring Machines



Measuring Machines are designed on customers request supported by our designer and technicians looking for their needs. Whatever the accuracy or dimension of the object to be measured it's possible to find out the right machine (or measuring system).

Our full range of CMM starts from small Bridge type (available in manual or CNC mode) to the large high accuracy portal CMM, ensuring the optimal solution for any Customer needs.



The company ensure:

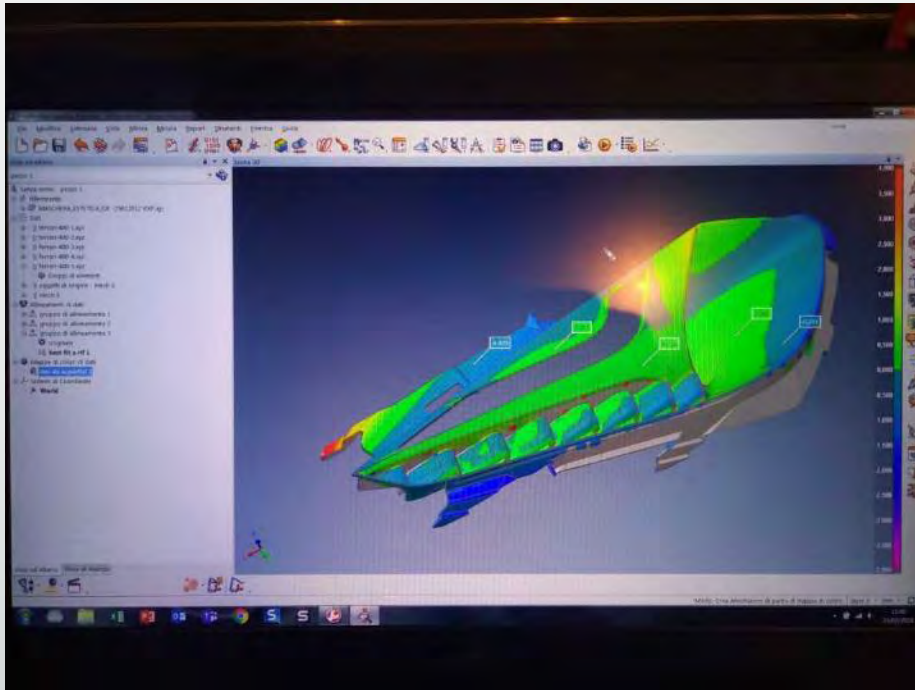
- ✓ Customized design;
- ✓ Machine production in our premises;
- ✓ Installation and test;
- ✓ Warranty;
- ✓ After-sale technical assistance.



Optical Measuring Machines



Opti-Me is a new family of optical measuring systems based on stereo vision and photogrammetry, comprising two high resolution digital cameras, an illuminator or structured light projector and a PC running proprietary software for data acquisition and processing.



Depending on the arrangement of the cameras and the lenses used, the field of measure can range from a few square centimeters up to square meters; it is also possible to extend the field of measure even more by patching together several overlapping scans, using markers or simply relying on the features of the object.

C-OptiMe – Characteristics



Measurement range: from a few square centimeters up to square meters

Sensor resolution: 5 Mpixel or 12 Mpixel

Cobot repeatability: $\pm 0,03$ mm



Accuracy: from approximately 0,01 mm for small fields and objects to 0,2 mm for larger fields of view

Point clouds: can be transformed into meshes and exported in various formats, including STL and PLY

Handheld 3D laser scanners



Rayscan

- Family of portable 3D Laser Scanners with accuracies up to 0.01 mm capable of acquiring point clouds very quickly. **RayScan** is available in three configuration levels with a mix of features and performances capable of satisfying different needs, with optimal price/performance ratio



Seetrack

- Intelligent tracking without markers on the workpiece, based on intelligent optical tracking and measurement. The system allows free portable scanning (weighing only 1.5 kg) in a working volume of up to approximately 16 m³.



Efficient, lightweight and precise, Kreon measuring arms are the ultimate solution to ensure flawless production quality, whatever your applications. Measuring arms equipped with Skyline series 3D laser scanners are capable of digitizing any surface in the blink of an eye. Accurate and high resolution, they can capture the smallest details of the most complex parts.

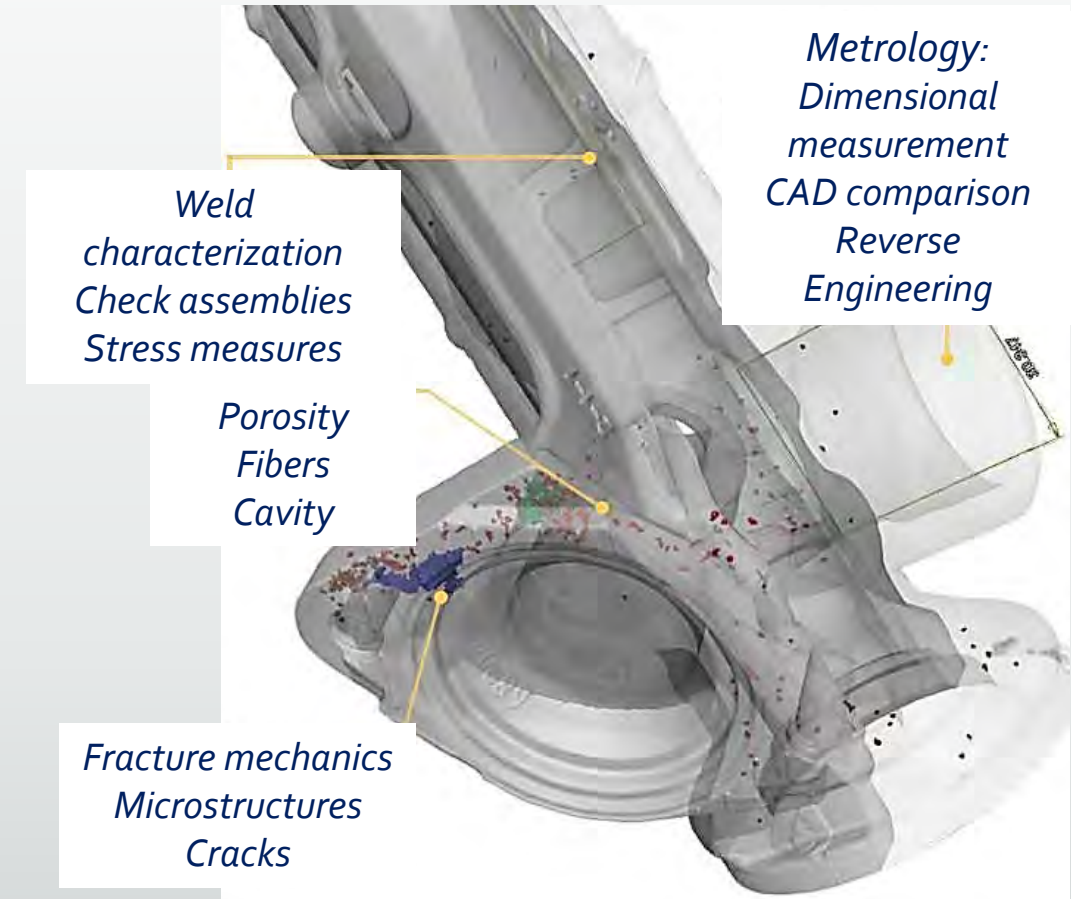


Industrial Tomography



HIGH QUALITY INDUSTRIAL RADIOLOGICAL AND CT INSPECTION SYSTEMS

X-ray technology is the best way to get a quick, non-destructive and accurate examination of the internal and external structures of your components. RX Solutions offers 3D X-ray microscope solutions with resolution down to the sub-micron level, covering both industrial and academic applications.

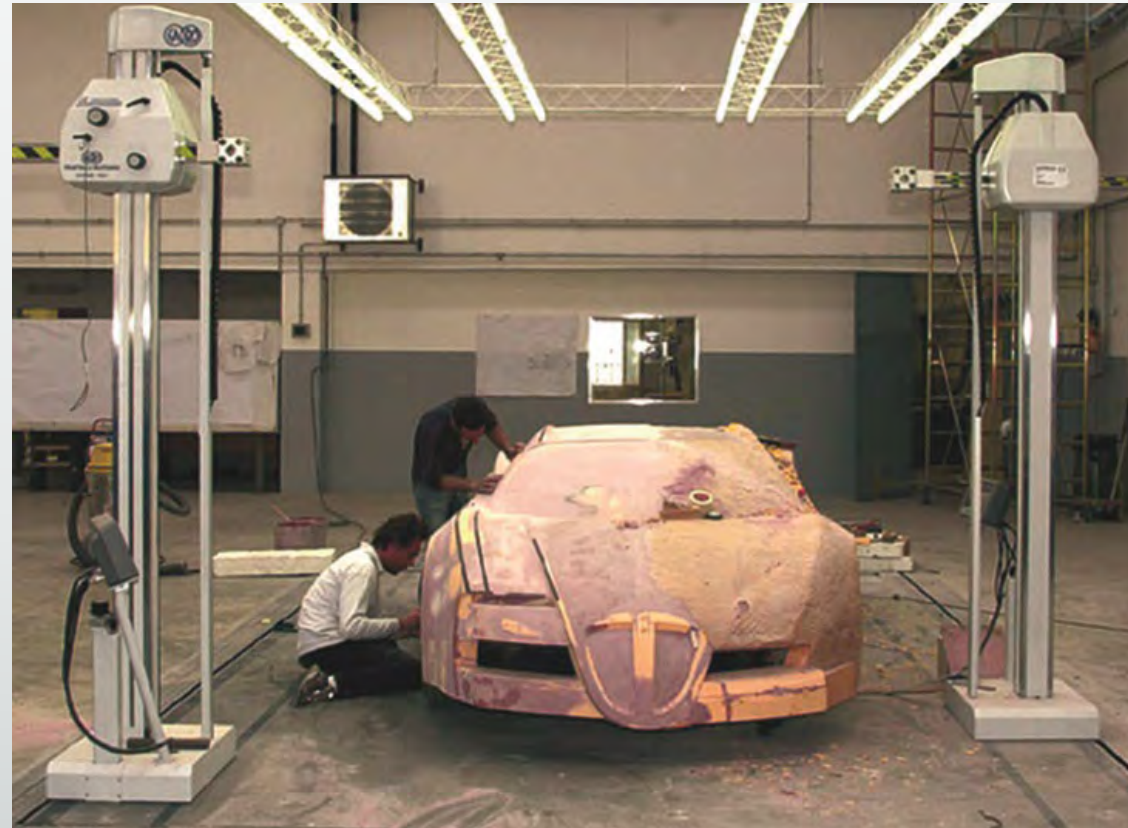
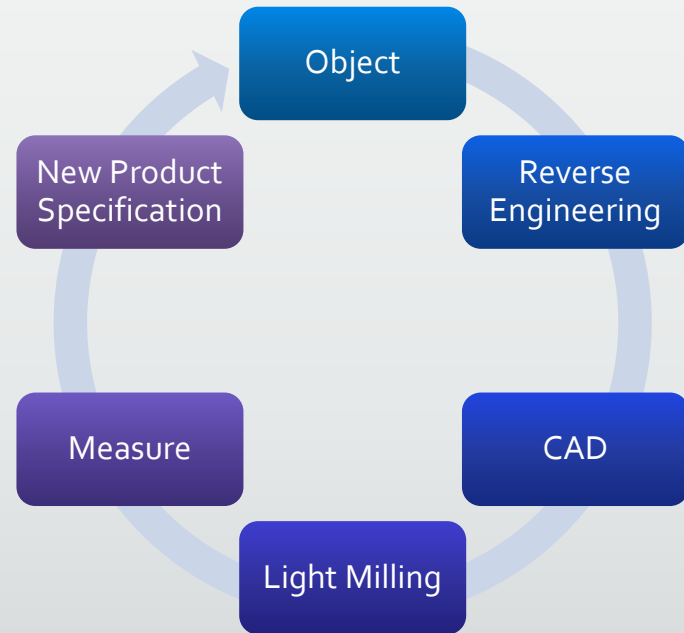


Light Milling System and Machines



Popular in the last years in automotive stylus centres this application allow the users to create prototype of any object starting from an idea or a row piece.

All the process can be made with just one machine (or system) covering all product lifecycle.



Precision Division



The company has a controlled temperature and light laboratory for production of reticles, scales and precision divisions.

The company can produce any kind of division on scales:

- ✓ Float glass
- ✓ Steel

For industrial applications like cnc machines, measuring machine machining tool and 3D printers.

We can also produce reticles (i.e. counting chambers), Photomasks and test targets for any industrial applications.

Products are realized on high quality glass to have high precision performances.

Products specification can be customized on customer requests.



Instruments



The company produce in own premises a wide range of instrument for measuring from 1943.

For any production necessity we can supply:

- ✓ Cast iron and granite surfaces and plans
- ✓ Squares and cylinders
- ✓ Scales
- ✓ Calibration standard:
- ✓ Straight edge
- ✓ Step gauge
- ✓ Glass calibration plates
- ✓ Blocks and parallel prism



Fratelli Rotondi can submit its own standard or customize products on customer request.
Our knowledge and competence it's at your disposal to find out the best solutions.

Third part measures

For Customers that need to verify its products not often or want to manage pick of production. Our company perform test and measuring process in its own premises.

Retrofit

For customer that want to renew its measuring machine for both Fa.Ro. or other vendor machine.

Maintenance and technical assistance

Maintenance contracts for preventive and corrective intervention for Faro or third-party machines. Measuring assistance.

Training courses

Training course on products or measuring process both standard or customized. Courses can be done in our premises or to customers.

Move & Change

Intervention for moving or relocation of any CMM with warranty and final test.

Reverse Engineering

Reverse engineering from CAD models or from customer products. Generation of 3D models or mathematical models.

Certifications



Quality it's our main commitment.

For this reason, we are focused on maintaining the ISO 9001 certification and we work to continuous improvement.

The Company is running for the ACCREDIA certification.



10 top reasons to chose Fratelli Rotondi



1	Many Years experience
2	Quality of our product
3	Made in Italy
4	Customer Oriented
5	Good price/quality ratio
6	Warranty on product
7	Technical assistance
8	Prestigious references
9	Historical Brand
10	Reliability



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Address

Via F.lli Bandiera, 36
20025 Legnano MI
ITALY

Contacts

Tel. +39 0331 442074
Fax. +39 0331 453863
Mail : info@rotondi.it

WEB

www.rotondi.it



<https://www.linkedin.com/company/f-lli-rotondi-s-r-l->