



ROTONDI

FRATELLI



**MEASURING
TECHNOLOGY**

Three dimensional measuring machines



Fratelli Rotondi



Measuring Technology since 1943

The precision, a family passion from 1943.

Company History

The precision, a family passion from 1943.

Was in 1943 when Pierino and Ettore Rotondi establish a new Company. FRATELLI ROTONDI ® start its activity with the design and manufacture mechanical control instruments like datum planes, rulers, prisms, squares, calipers etc.

The Company grow up in the following years enlarging the range of manufactured instruments, perfecting its own manufacturing processes and being known for its quality and reliability.

In order to improve the quality in the early 50s the Company build up its laboratories with controlled environment and started to develop measuring systems, optical systems thanks to its cooperation with national and international Measuring institutes.

From 60s to 90s the first big change in the company that start to design and manufacture 2-axis machines and after the three dimensional measuring machines.

Starting from 2000 the Company shore up its position in the domestic and international market with a distribution network. The target is to satisfy the growing customer request manufacturing systems more accurate day by day. Customization is one on the key factor of the Company.

Nowadays the company has a laboratory for production of optical scales and calibration targets.





It has a big metrology room for third parties measurements, machines commissioning, demo and training. It has a big production plant where it produce any components of its machines according to the highest accuracy standard.

The Company is constantly involved in research and development projects in order to overcome to customer specific requests for measurements systems.

Precision, reliability and durability.

FRATELLI ROTONDI ® is able to design and manufacture a wide range of measuring machines. The industrial production specialization need, also for quality process, a proper range of measuring systems. All machines are usable with probes and laser heads and with the main measuring software on the market.



GEMINI

High accuracy measuring machines for control and engineering of middle and big size pieces.

Fix portal frame and moving table: high structural stiffness, high accuracy and repeatability, stable in time. Completely built in black granite.



OXALIS and OXALIS HD

This is the typical mobile portal three dimensional measuring machine. Both manual and CNC version available is suited for measuring from small to big size pieces. Black granite frame.



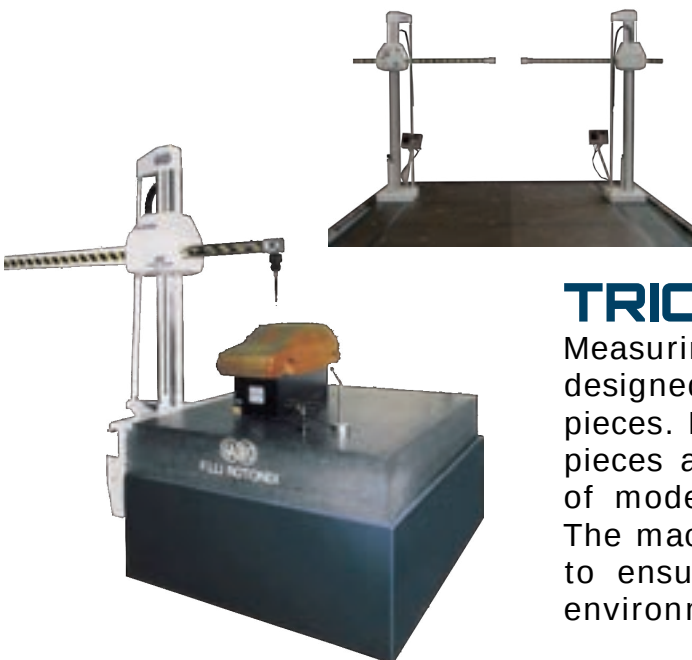
ASTER

Three dimensional measuring machine of high precision performances. Both available in manual and CNC version for measuring small and medium size pieces. Thanks to its "Swan neck" frame and mobile table the probing head is completely independent from the other axis movement. This special frame in black granite ensure high accuracy. On this machine can be also measured bigger components than machine strokes.



ARM

Portable, small and handy. Anthropomorphic measuring machine. It can be used with any RENISHAW probes and laser scanner heads. It's the ideal instrument for who is searching flexibility and simplicity.



TRICOORD FAMILY

Measuring and marking out machines specially designed for measuring of medium and very big size pieces. It can be used also for marking out of melted pieces and mechanical components. Available a lot of model and versions with single or double arm. The machine is made of steel hard chromed in order to ensure reliability in time. Ideal for production environment.





LIGHT MILLING MACHINE

From Idea to Product

Nowadays thanks to the new technologies is possible to turn an idea in a product.

FRATELLI ROTONDI ® design and manufacture high precision light milling machines that turn the rough material (such as clay) in the product prototype before starting the massive production.

The Company has a long stand experience of mor than 20 years in this sector together with its customer of the most famous stylus center in Italy and abroad; mainly in the automotive and motorcycle sector.

It is possible to produce a prototype of any dimension starting from a CAD model or a similar object thank to the reverse engineering process (with optional on the machines). Measuring the final product is also possible with the same machine. The system can be integrated with OptiMe installed on the machine or stand alone.



MEASURING INSTRUMENTS

The basics of metrology

Datum plates and control instruments are the historical products of FRATELLI ROTONDI ®. The company produce a wide range of measuring instruments produced in steel, cast iron and granite. All the rough materials are bought from selected supplier and worked in our premises.

The Company is also able to manufacture high precision instruments for any kind of quality control.

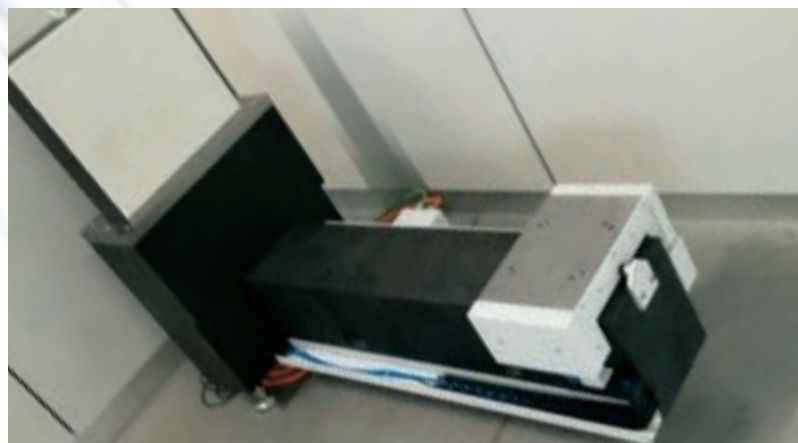
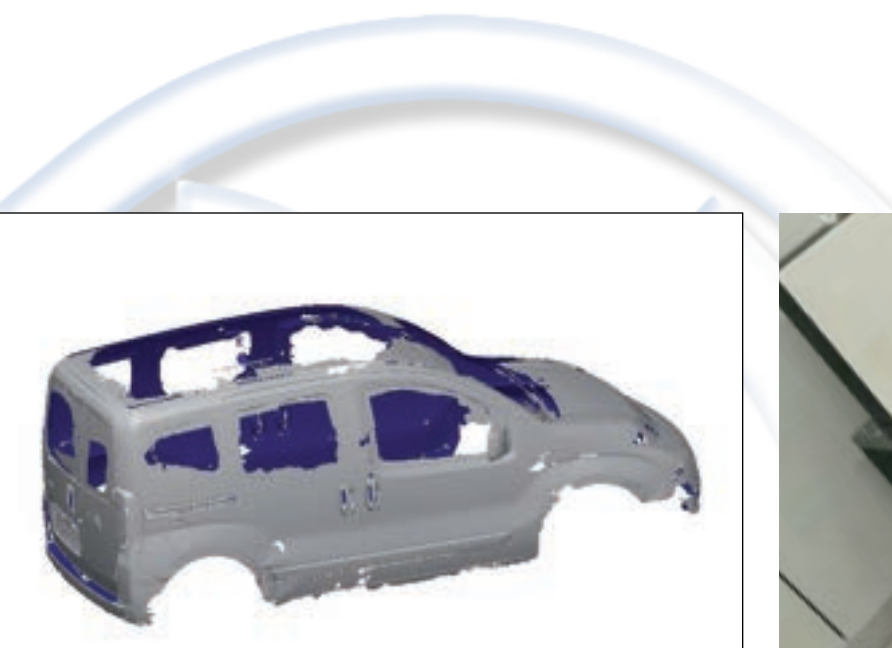
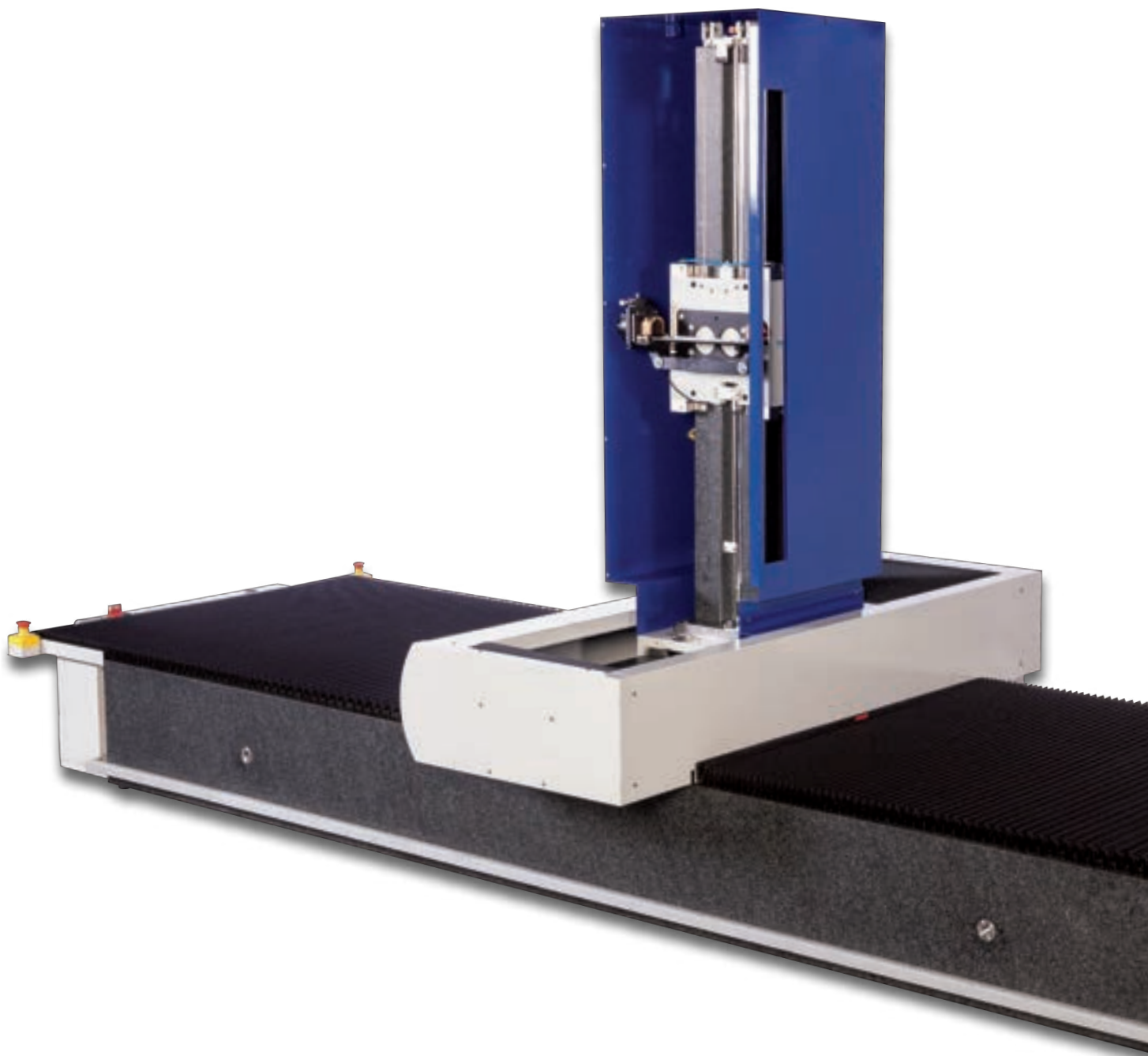
The Company especially produce:

- Datum plane
- Rulers and control squares
- Blocks and prisms
- Control cylinders

Mainly the instruments are made of black granite, cast iron or steel depending on customer application.





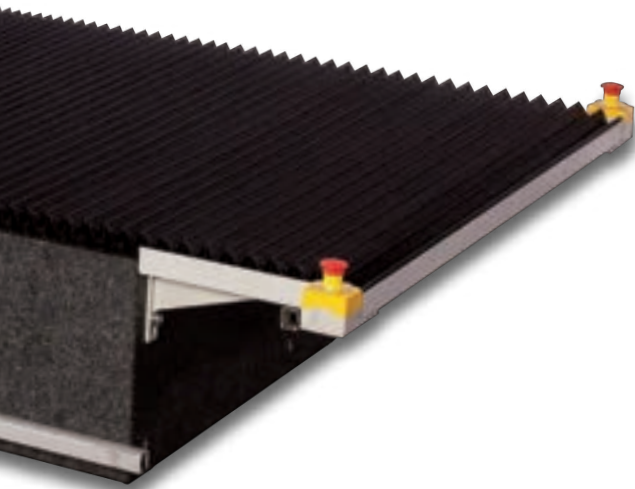


CUSTOM MACHINES and OptiMe

Customization, success key

The FRATELLI ROTONDI ® strength is the experience in mechanics and metrology. The company with its internal competences and its technology partners is able to design measuring machines (dimensional or even not) that match the specific customer needs. National and international companies and research centres chose FRATELLI ROTONDI for their special applications.

Starting from analysing customer needs the Company is able to share the best solution, design for approval and manufacture it.



OptiMe

OptiMe is a new family of optical measuring systems based on stereo vision and photogrammetry, comprising two high resolution digital cameras and a digital light projector.

OptiMe is able to acquire surfaces and edges with a very fast acquiring session.

OptiMe is a very accurate instrument and is able to measure small size object (few mm) up to 3000 mm. OptiMe can also acquire big object moving it around with a fast and automatic reconstruction algorithm.

This technique avoids object contact. This measurement method is really useful with plastics. It can be used with a wide range of metrology software for reverse engineering process.



Optical Scales and Calibration Targets

Optical Scales

Optical scales are key components for measuring machines, milling machines and machine tools. These are the measuring systems that embedded in customer electronics define accurately the axis position.

The machines accuracy depends on the accuracy of the engraving process on steel or glass scales.

Temperature and Humidity controls are primary aspects in FRATELLI ROTONDI® laboratories.

Incremental, coded and absoluta scales are the main products. Also standard and customized pattern are available for production.

Standard substrates are glass (up to 3,4 mt) and steel (up to 100 mt). Others can be realized on customer needs.

Calibration and Test targets

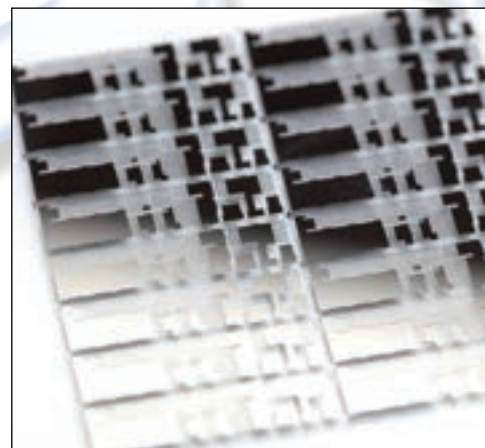
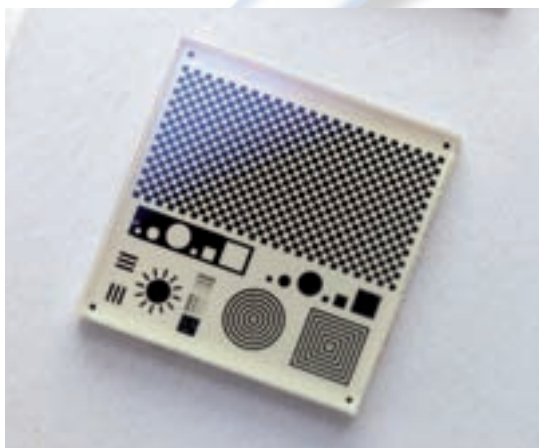
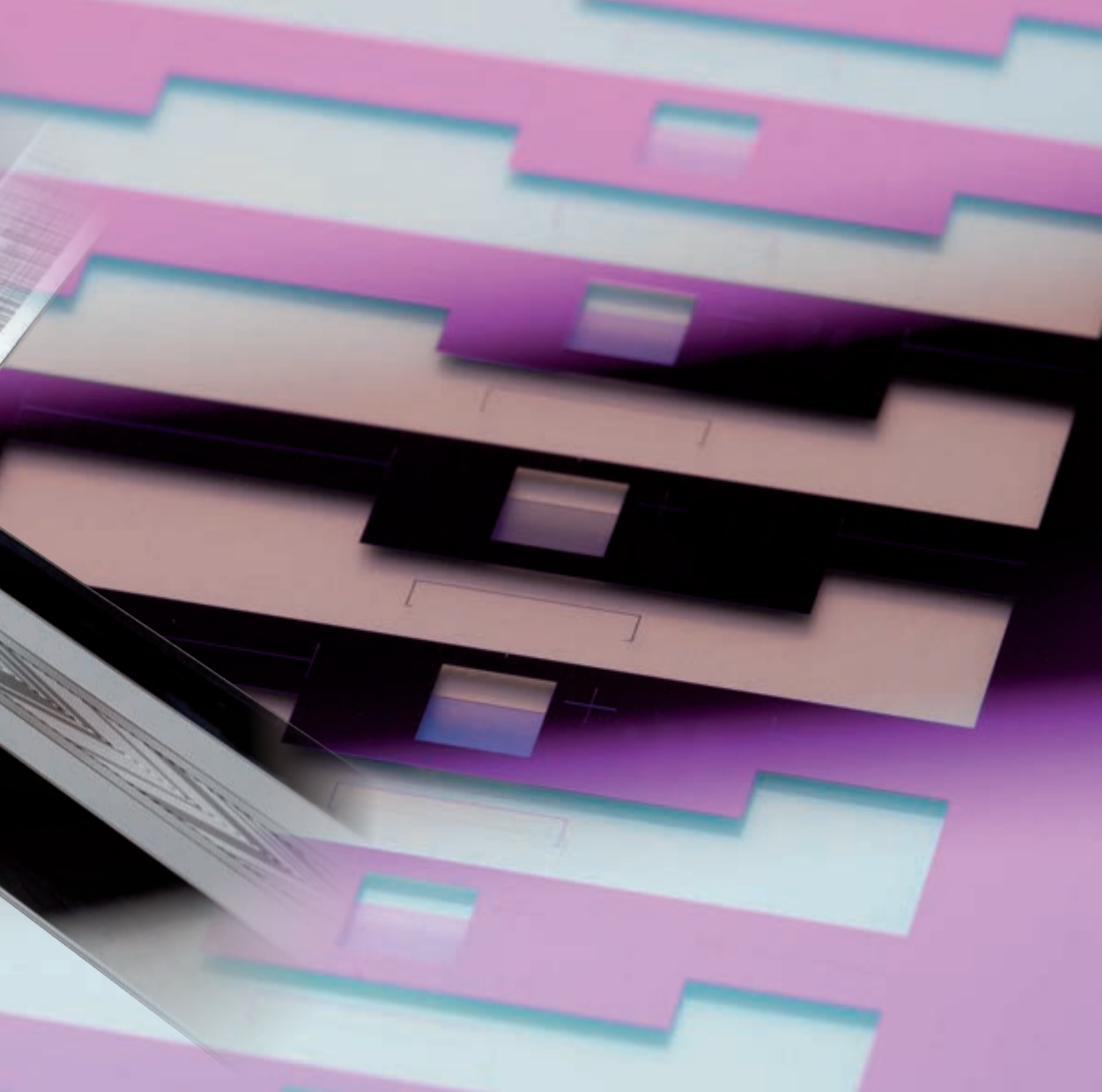
For more then 40 years our laboratories are involved in design and production of calibration targets, test targets and photomasks. These products have become essentials for new optical applications.

Our products find out their applications in high technology sector such as: Aerospace, Microscopy, Optical Vision, Opto-electronics, Biomedical and life-science, Sport and Defence sector.

These products are mainly produced and manufactured according to customer needs even if standard solutions can be chosen.



The product has a lot of version depending on the application such as substrate, coating, anti-reflective components and others special treatments.



Services

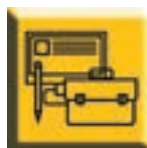
FRATELLI ROTONDI ® is able to supply any kind of metrology service with its capabilities and its personnel that work in the sector since years. The Company is able also to work third parties mechanical components such as big datum planes in cast iron or granite.

Specially the Company is able to test measuring instruments, to restore it and to release the calibration certificate.

Scheduled Maintenance Contracts



Calibration Report



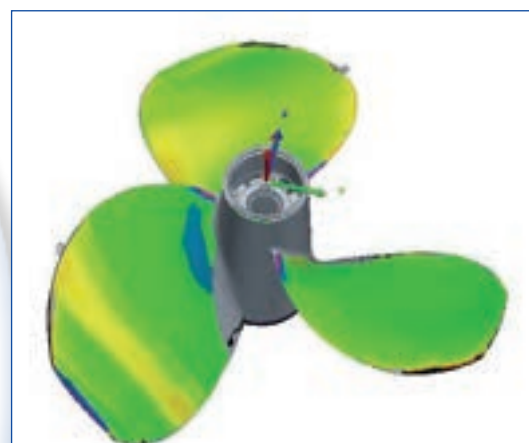
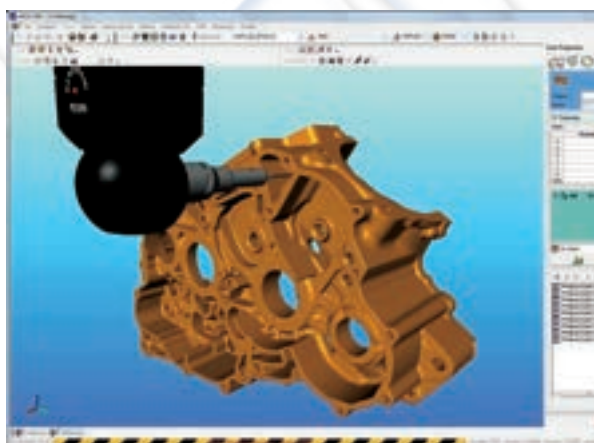
Third parties measurement service



Metrology consultant service



Reverse engineering



Retrofit intervention of measuring machines (any brand)



Assistance on measuring machines (any brand)



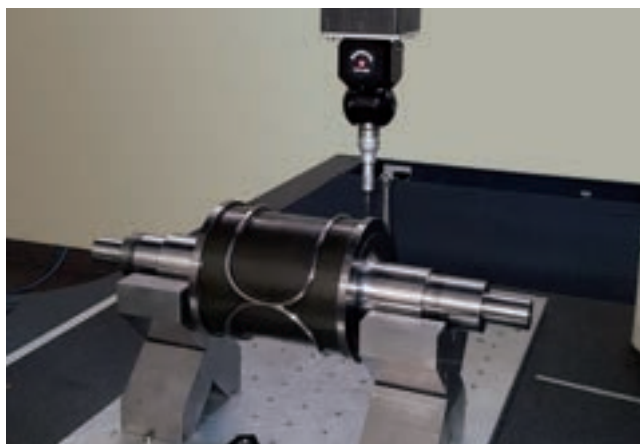
Basic and advanced training



On site measurement service



Measuring machines installation and movement



SGS



Via F.lli Bandiera, 36 - 20025 Legnano (MI) - Italia

è stato verificato ed è risultato conforme ai requisiti di

Scopo della certificazione

Progettazione, fabbricazione e assistenza di macchine e strumenti di misura dimensionale. Erogazione di servizi di misurazione nel campo delle misure dimensionali.

Settore EA: 18.35

Questo certificato è valido dal 06/02/2018 fino al 16/02/2020
La validità è subordinata all'esito soddisfacente dell'attività di sorveglianza periodica
Ricertificazione da eseguirsi entro il 16/02/2020
Rev. 8. Certificato dal 16/02/2005

Data inizio audit: 03/03/2018
Data scadenza certificato precedente: 15/09/2018

Autorizzato da
Paola Santarelli

SQS ITALIA S.p.A.
Via Caldera, 21 - 20153 MILANO - Italy
t + 39 02 73 80 1 f + 39 02 73 90 94 89 www.sqs.com

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Our Markets



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FRATELLI ROTONDI™

20025 Legnano (MI) ITALY - Via F.lli Bandiera, 36 - Tel. +39 0331.442074 - Fax +39 0331.453863
www.rotondi.it - rotondi@rotondi.it