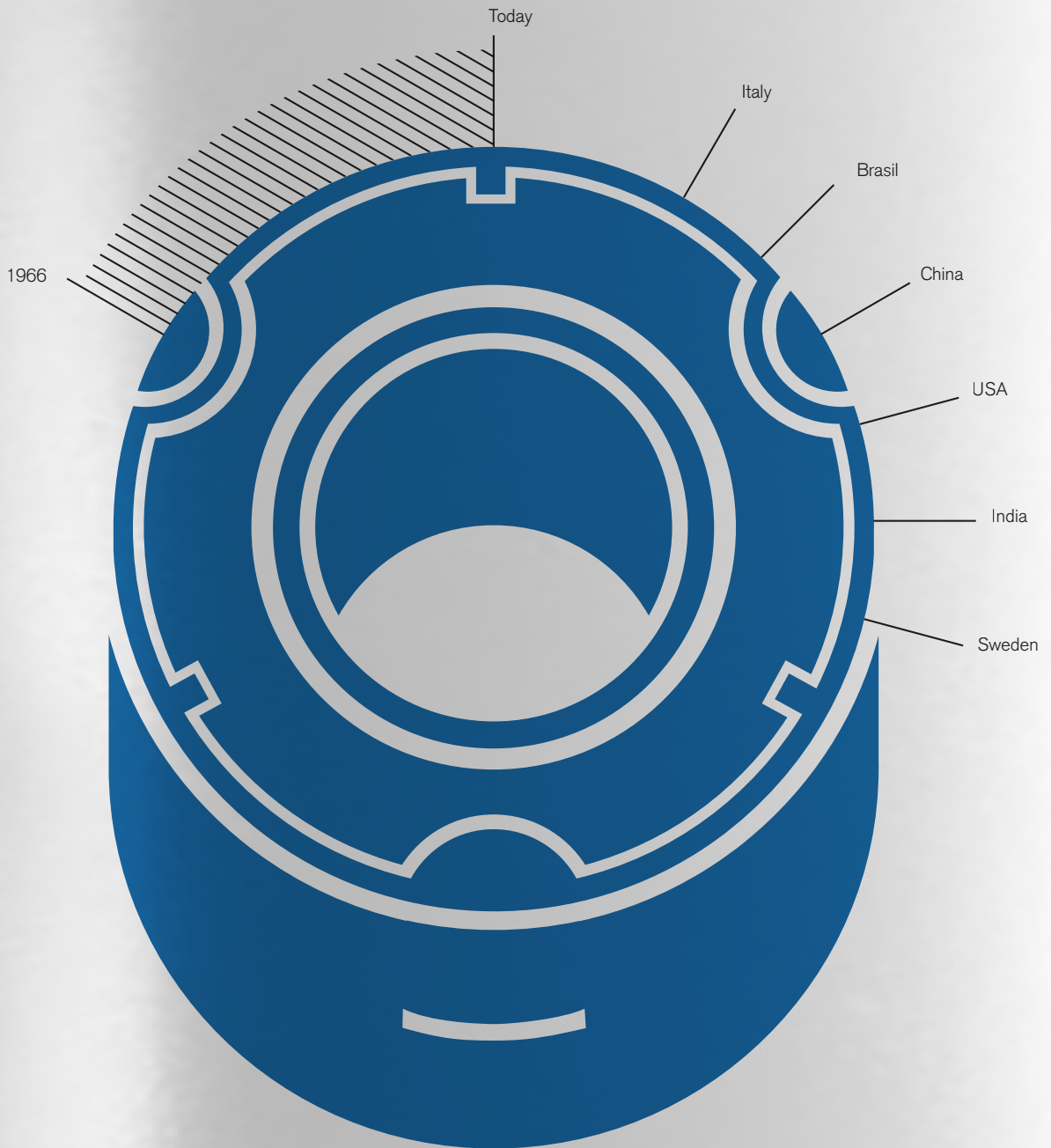


Meccanotecnica Umbra

A Story of Excellence



**Meccanotecnica
Umbra**

a Story of Excellence



Welcome to Meccanotecnica Umbra Group



**Meccanotecnica
Umbra**

a Story of Excellence

A perfect story.
Half a century
of history,
at the pace
of innovation

1966
electrical connector
moulding presses



Fulvio Ginobri



Alberto Pacifici



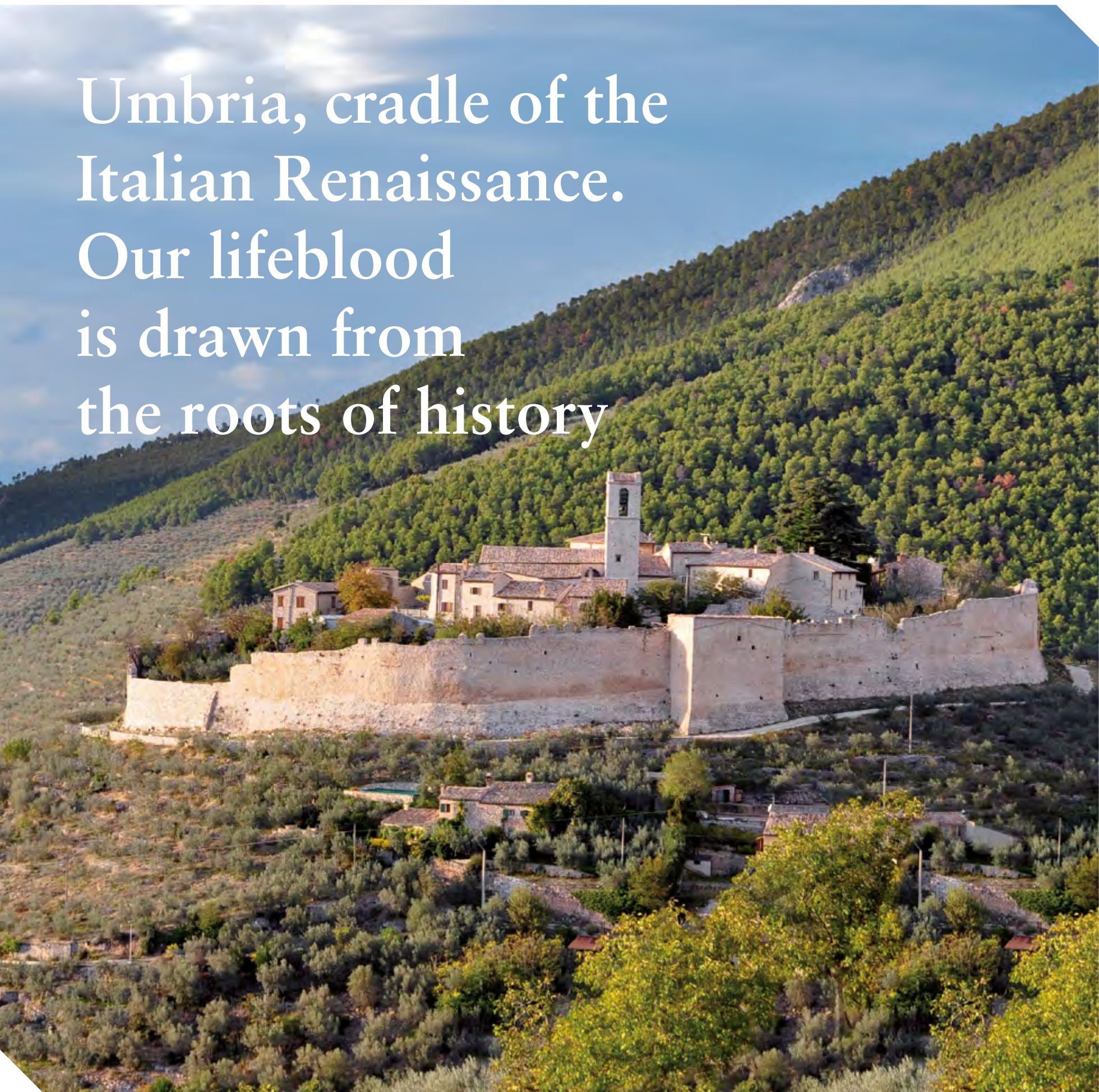
Concezio Strappelli

The founders

Meccanotecnica Umbra was founded in 1966, becoming, over the next five decades, a leading international group in the field of mechanical seals, with a financial strength that is a guarantee for all its suppliers and vast customer base, who can rely on a certified quality system.

MTU designs, manufactures, and markets sealing systems for rotating shafts which are used, not only in the automotive field, but also in household appliances and various industrial fields such as chemical and petroleum plants, mining, food, and in the use of renewable energies.

If MTU's history and experience in the automotive sector certify its international leadership, a huge investment program is under way in the other sectors to develop the group's potential on a global scale.

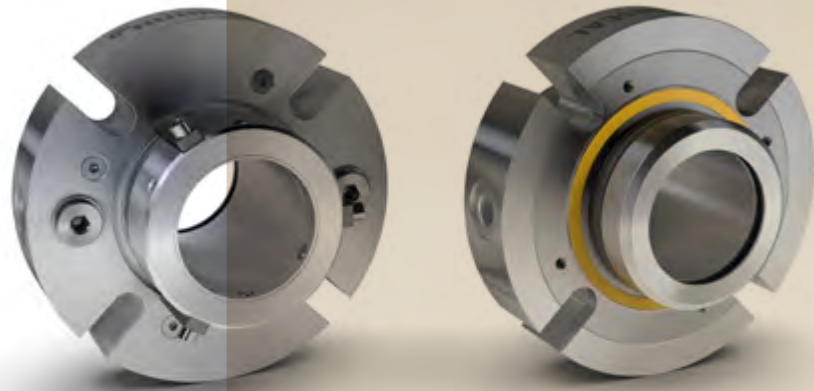


Umbria, cradle of the
Italian Renaissance.
Our lifeblood
is drawn from
the roots of history

The fortified town
of Campello sul Clitunno

Year after year, **Meccanotecnica Umbra** has confirmed its bond with its territory of origin, Italy and Umbria in particular, the cradle of Italian Renaissance culture, choosing as its headquarters the historic seat of Campello sul Clitunno in the province of Perugia.

Its dedication to production in Italy was a clear choice, which expresses its love for its land and Italian culture, which has always made reliability its hallmark.



**Standard-bearers
of made in Italy.**
Born with reliability
in its genes

Fiat 500

The car
which generations
have learned to drive in



Meccanotecnica Umbra's history and rich cultural heritage has its roots in the Italian racing tradition, famous for its meticulous attention to detail and design. Alongside the largest automotive manufacturers, it is constantly developing new technical solutions to bring its products to the height of technological evolution.

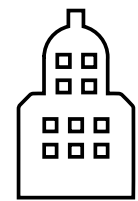
Market segments

In the automotive sector, **Meccanotecnica Umbra** has reached a top position at a global level, by now established over decades. The experience gained in civil and industrial plants, the food and chemical-pharmaceutical sector, as well as in agriculture, mining, and paper mills,

and in the new frontier of renewable energy, allows MTU to look to the future with certified ambition. It is equally competent in the household appliance industry, where its market leadership makes MTU a reliable partner.



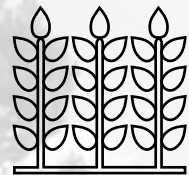
AUTOMOTIVE TRANSPORT



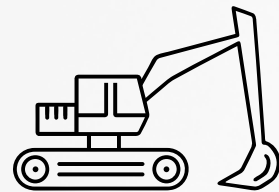
CIVIL SYSTEMS



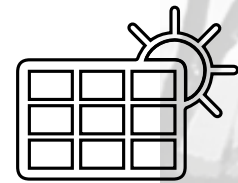
FOOD & BEVERAGE



AGRICULTURE



MINING & SLURRY



RENEWABLE ENERGIES



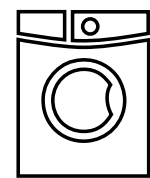
CHEMICAL AND PHARMACEUTICAL



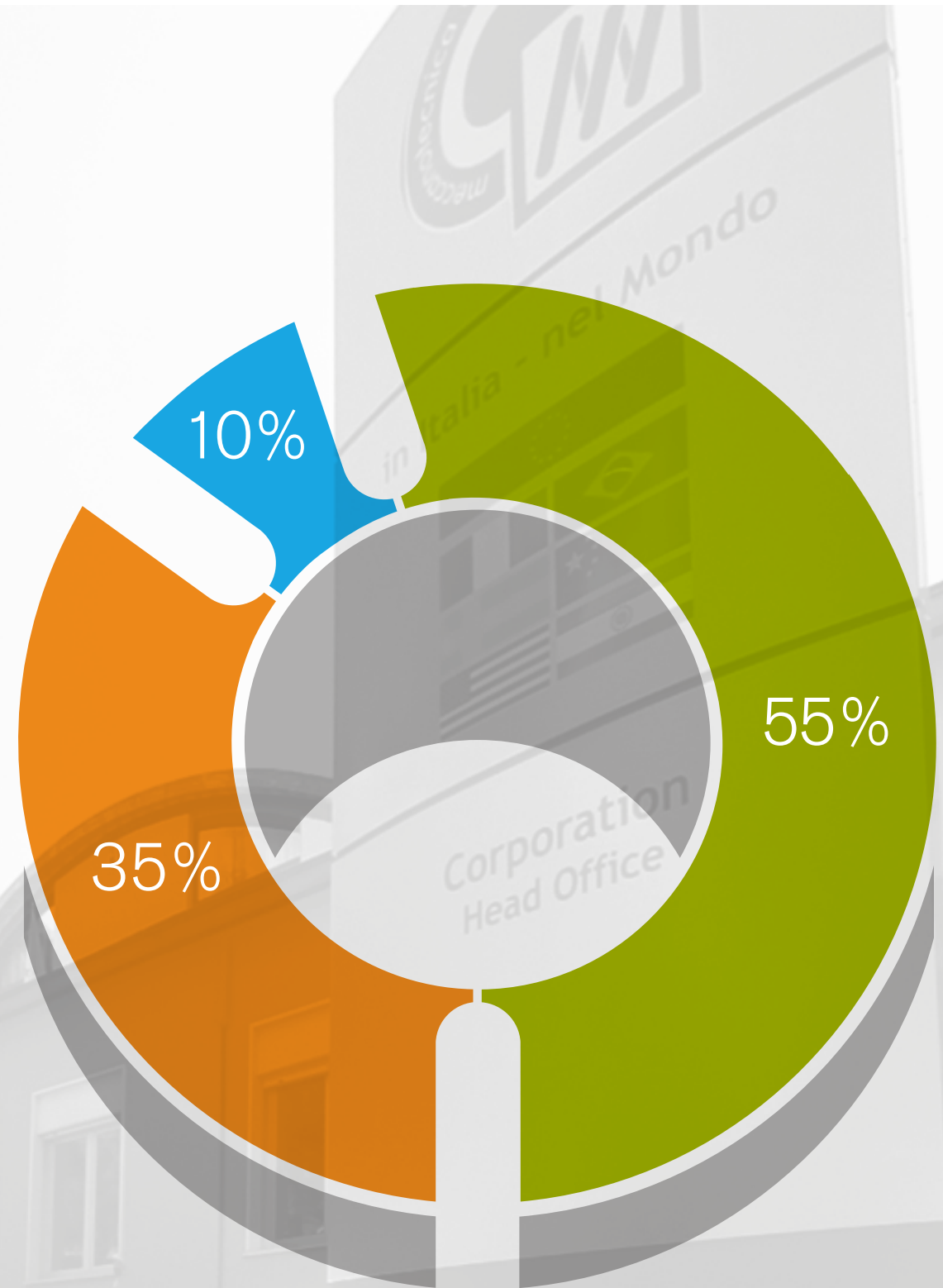
PULP & PAPER



GENERAL PROCESS INDUSTRY



APPLIANCES





An international
presence for
a global future.
We work to enhance
every detail



An international presence for a global future.

We offer ourselves as a partner to those who want to challenge the market

A worker in the Campello sul Clitunno plant. Attention to detail is in the dna of our personnel

Meccanotecnica Umbra operates throughout the world with production facilities that also benefit the countries where they are located: In fact, from the moment it expanded outside Italy, the management has chosen to integrate its culture fully with that of the countries in which, from time to time, it has built its own production sites. A choice that expresses respect and attention to the culture of the host nations that has led the group to expand in Brazil, China, the United States, Mexico, India, and Sweden, setting the stage for a future presence on five continents.

By virtue of this entrepreneurial approach aimed at continuous growth, MTU is successfully meeting growing international competition, diversifying into peculiar niches, and gradually increasing its market share. The result is the formation of a rich patrimony, not only experiential, but also cultural, that allows MTU to evolve at the relentless pace of globalisation.

An international presence for a global future.

We observe the present to improve it

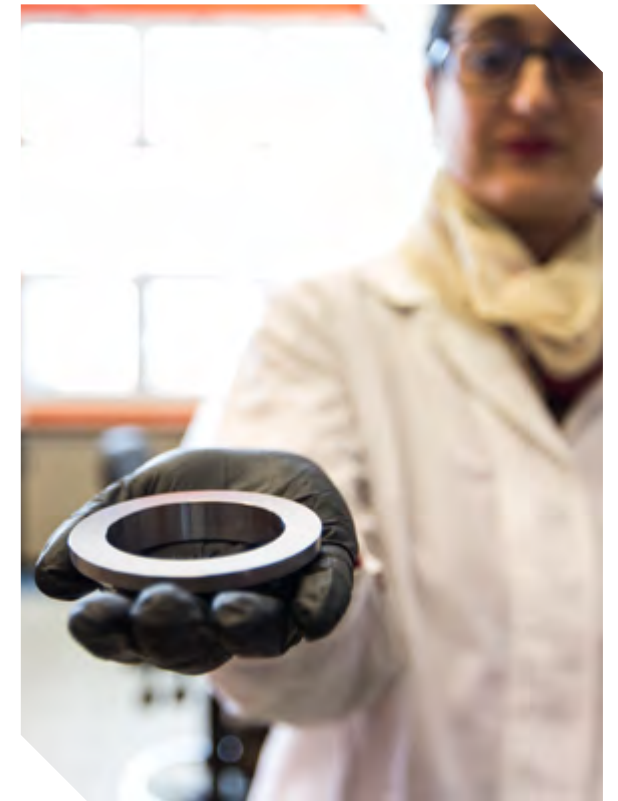


In all operational areas, the attention to detail of MTU's personnel make them determinant partners

We love the countries that host our subsidiaries, so much so that we encourage our personnel to integrate with the local culture, drawing on its best ideas.



A culture that
has reliability
in its dna



Our operations



Meccanotecnica USA inc. Novi - IL, USA



Huhnseal Ab Landskrona - SW



Meccanotecnica USA inc. Mexico



Meccanotecnica USA inc. Pharr - TX, USA



Mecanotécnica do Brasil Ltda Curitiba



Meccanotecnica Umbra Campello sul Clitunno - IT



Meccanotecnica India Pvt.ltd Madurai



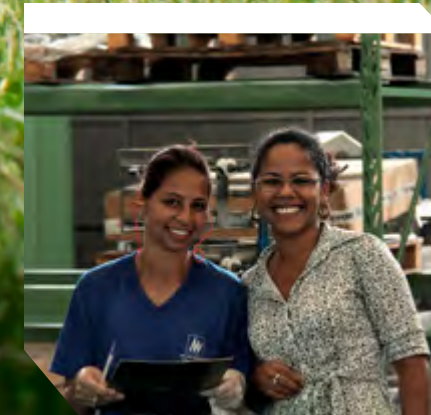
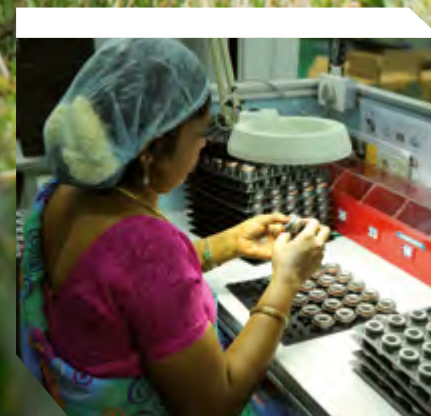
Meccanotecnica India Pvt.ltd Pune



Meccanotecnica Umbra Qindao - CH



From the heart
of Umbria,
we select the best
professionals





Perfection at the pace of innovation.

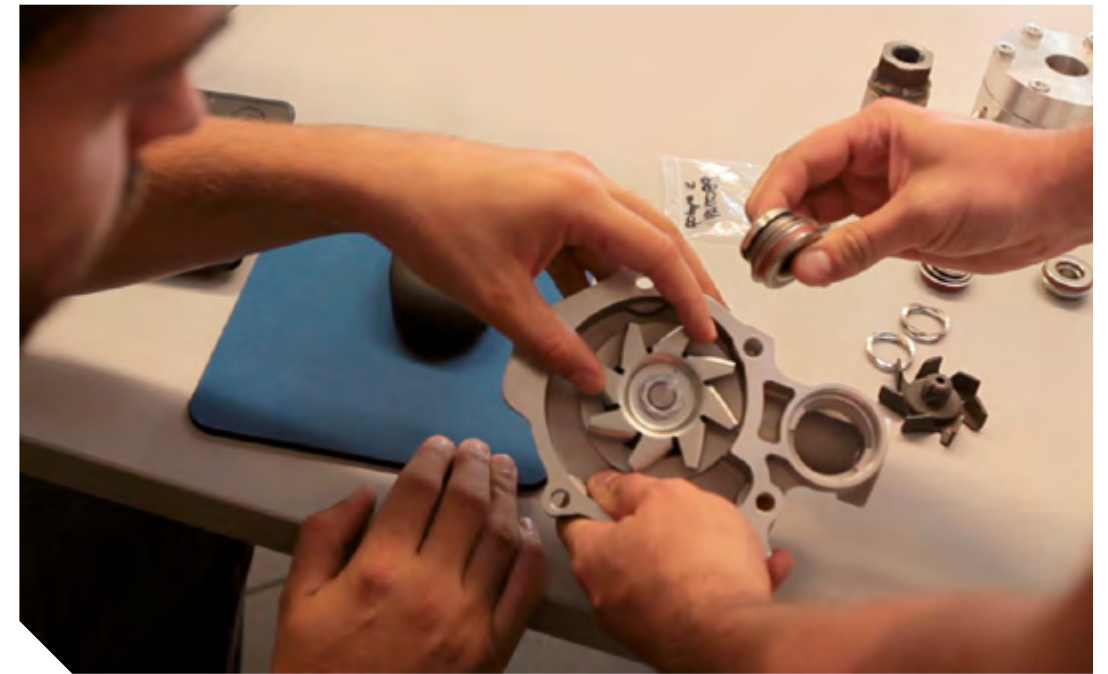
We are constantly
seeking the maximum
functionality



Confident of building long-term relationships with its customers, **Meccanotecnica Umbra**, offers itself as a leading partner in constant growth.

The Research & Development department, in a dedicated in-house area of 2,000 m² with over 100 testing stations, continuously

develops new solutions and implements research programs by maintaining contacts with universities and national and international organisations, to develop scientific knowledge and possible collaborations. Its links to the academic and institutional world are the feather in the cap of MTU's management.



Attention to detail as its hallmark



The prototypes made in the plants of the **Meccanotecnica Umbra** group are subject to periodic process certifications that are monitored and evaluated with the aim of constantly improving their performance. The products are produced in the in-house workshop, are sent for mechanical testing of the seals, and the validation programs are agreed with customers.

The final control is acceptance testing to guarantee the quality of the materials produced. So, MTU has a certified production chain where nothing is left to chance.

A world leader in mechanical sealing systems

The heart of **Meccanotecnica Umbra's** business consists of the production of sealing rings, a field in which the Campello sul Clitunno company is a world leader.

Specifically, MTU produces mechanical seals and rings made of silicon carbide, carbon, and PTFE-based composite materials (the latter with the Mecflon registered trademark) all with high tribological characteristics able to increase the efficiency of engines and machinery worldwide.

It is a work carried out in-house, within the walls of the plant in Campello sul Clitunno, in Umbria, with attention to every detail and without entrusting delicate production steps to third parties.

All rings are inspected, both at the acceptance stage and during the process, with special automatic vision tools.

After stamping, they are assembled on semi-automatic lines, where the human touch certifies the correct operation of the chain.

All rings are tested in critical condition and at subsequent acceptance testing before packing, so that no detail is overlooked.





Our products

TYPE OF APPLICATION



AUTOMOTIVE APPLICATIONS

STRUCTURE

Simple, one-piece mechanical seals for circulation pumps.

FUNCTIONALITY

Used in the cooling circuits of internal combustion engines of motor vehicles, cars, industrial vehicles, and fixed installations.

VALUE ADDED

Innovation solutions available for the reduction of CO₂ in cooling circuits.

TYPE OF APPLICATION



APPLIANCE APPLICATIONS

STRUCTURE

Mechanical seals for small electric appliances.

FUNCTIONALITY

Ensuring the silent operation of everyday appliances such as dishwashers and boilers.

VALUE ADDED

Innovative solutions available for the bushings of brushless motors.

TYPE OF APPLICATION



LIGHT INDUSTRIAL APPLICATIONS

STRUCTURE

Mechanical seals for pumps used in civil, agricultural, and industrial applications.

FUNCTIONALITY

Used in particular for heating systems, drinking water autoclaves, irrigation pumps and drainage wells, wastewater treatment plants, and pumps for swimming pools and whirlpools.

VALUE ADDED

Wide choice of designs and material combinations to satisfy every application.

TYPE OF APPLICATION



HEAVY INDUSTRIAL APPLICATIONS

STRUCTURE

Standard seal solutions or on specific customer request.

FUNCTIONALITY

Mechanical seals made to measure for the food, pharmaceutical, chemical, mining, pulp and paper, and petroleum sectors.

VALUE ADDED

Innovative solutions available for plants for the production of renewable energies.

A totally certified environment

Meccanotecnica Umbra holds the most important environmental certifications at both the product and process level. Every plant and every machine is certified conforming to the UNI EN ISO 9001, ISO/TS 16949, UNI EN ISO 14001 standards and EMAS and OHSAS 18001 regulations.

Environmental sustainability is the hallmark of every product made by MTU, which boasts all plants certified conforming to the latest regulations in the automotive and industrial sectors, ensuring a healthy work environment especially for its employees, the real power and resource of the group.

Quality, technical expertise, and service are the tools for winning in a competitive market, and they are the foundation of the company's strategy that is focused on "value" for the customer.

MTU loves informed production, which takes place in full respect of the environment and society, promoting protection and adapting operational methods to the requirements of the reference standards. The maturity gained in recent years has allowed the Group to implement an Integrated Environmental and Safety Management System (IMS) with the goal of continuously improving environmental performance and occupational health and safety.



Health and safety
in our workplaces are
essential requirements



New challenges for future growth. Projected forwards to remain leaders

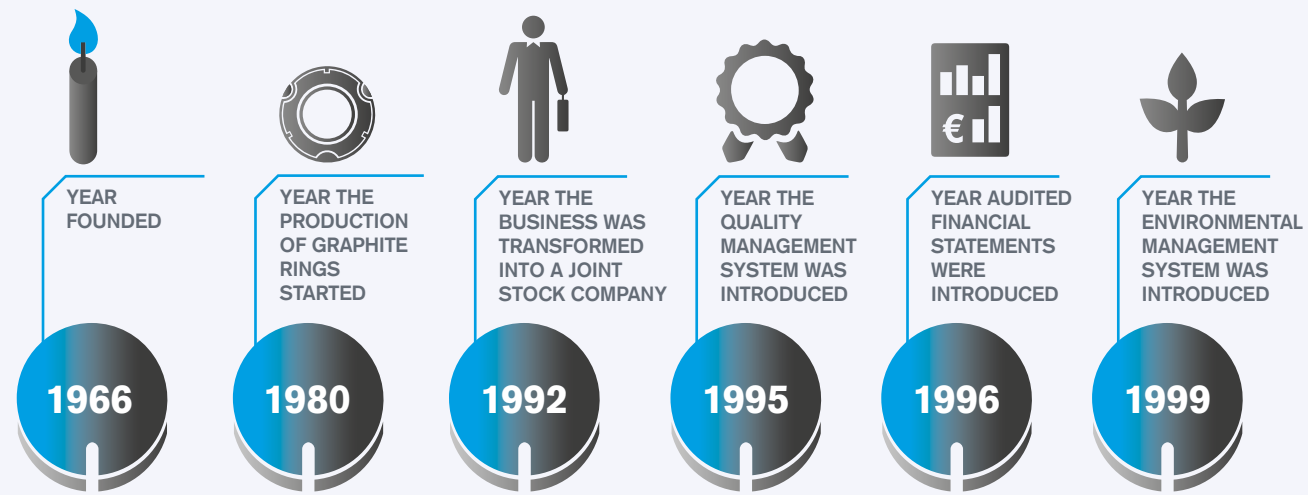
The intelligent use
of renewable energies
anticipates a bright
future for us

Meccanotecnica Umbra operates at the pace of innovation and bases its corporate culture on guiding values such as transparency of conduct and the assumption of a strong corporate responsibility. For this reason, we continually seek new challenges, today represented by the dynamic solar thermo, from drilling at sea to aerospace. To face these new challenges, from time to time MTU allocates considerably to investment programs, on average 5% of annual turnover.

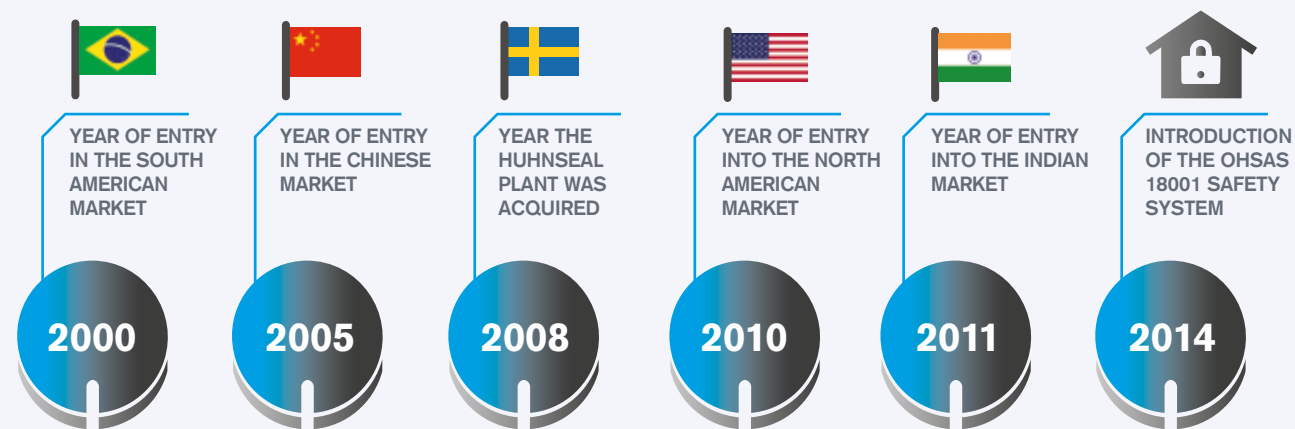
The choice of innovation is aimed at improving products and services and the consequent reduction of costs so as to increase profitability and the satisfaction of our employees and customers. A remarkable share of our investments is dedicated to reducing environmental impact, confirming the company's eco-sustainable mark. Quality, innovation, social responsibility, and the wisdom that comes with the continuous training of our personnel ensure a future of growth, even for new generations, and represent a guarantee for customers of the permanence of a solid and long-lasting partner.



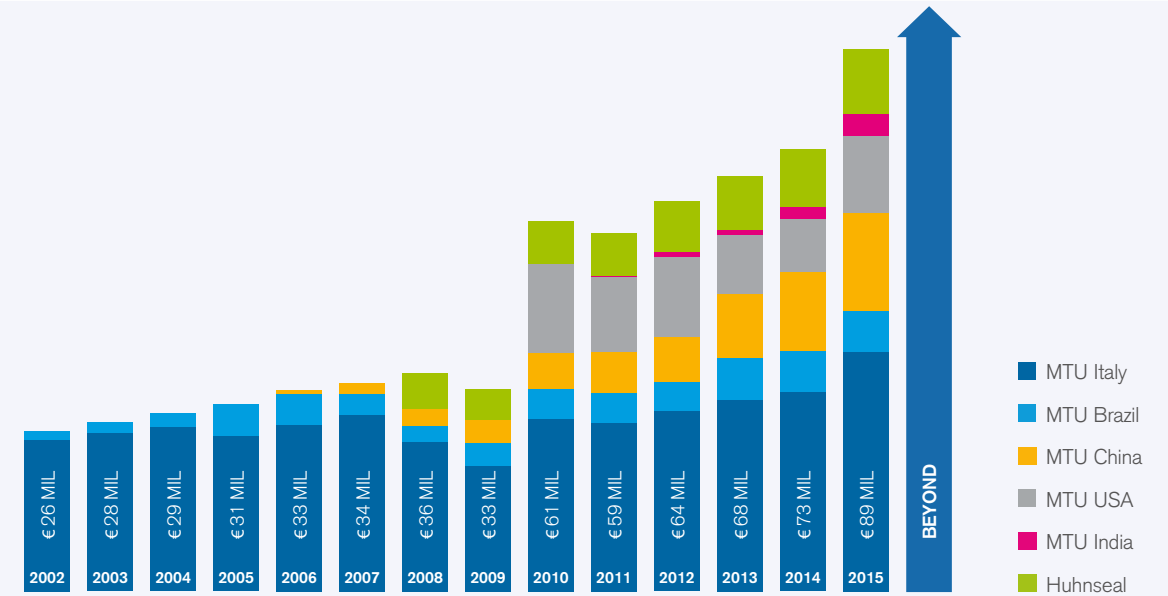
The figures of our history



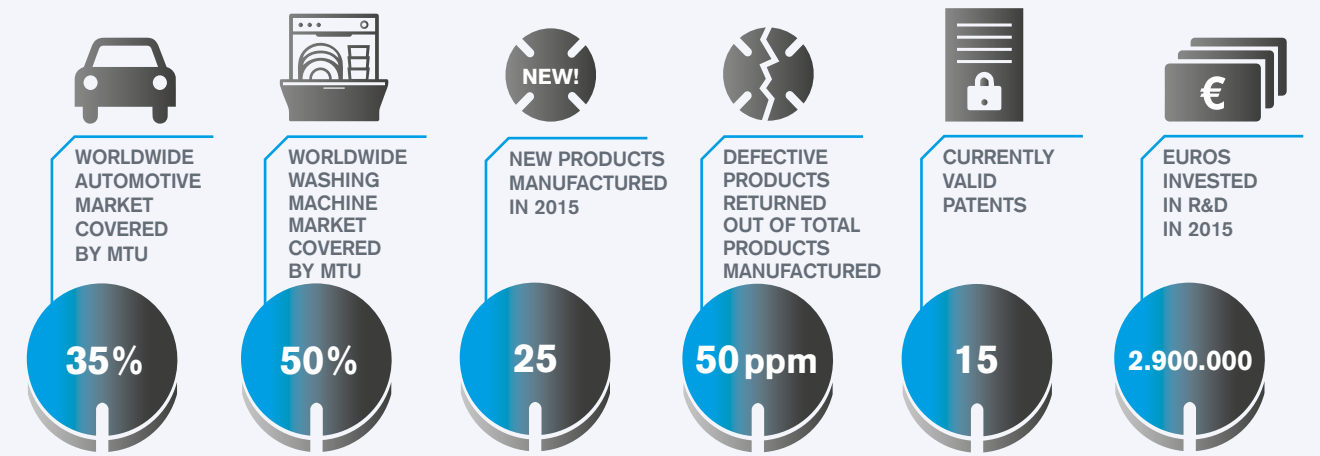
GROUP MILESTONES



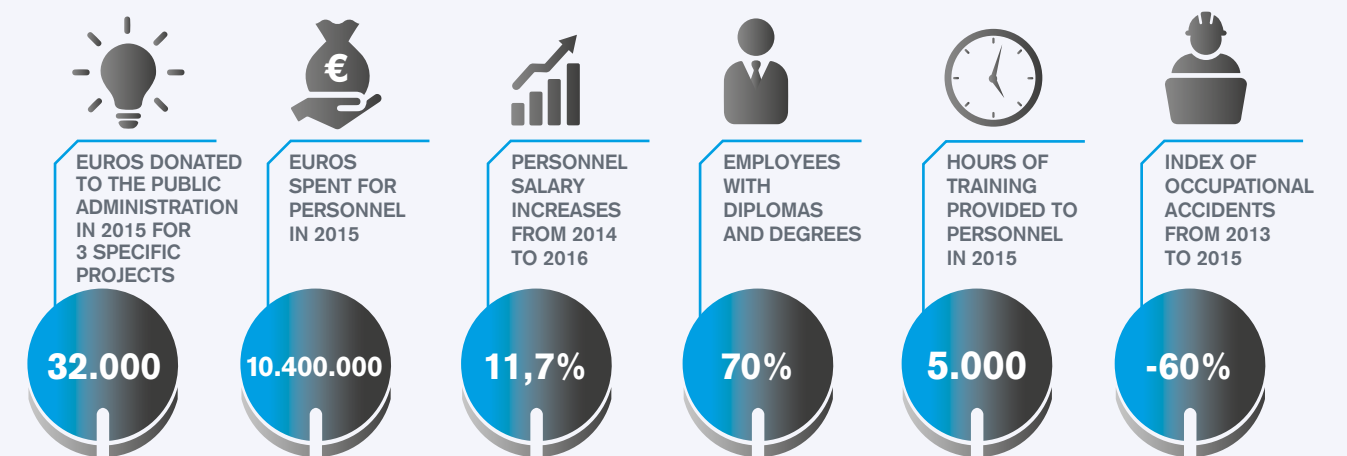
GROUP MILESTONES



TURNOVER DATA FROM 2002 TO 2015



EUROS INVESTED IN R&D IN 2015



PERSONNEL DATA

Meccanotecnica Umbra worldwide

Mecanotécnica do Brasil Ltda

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PR - BRASIL
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Fax: +55 41 3381 2621
1 unit surface = 20.000 m²
(3.500 m² covered)
brasil@mtu-group.com
www.meccanotecnica.br.com

Meccanotecnica Umbra (Qingdao)

North of No 8 road
Jiao zhou wan industrial park
Jiao zhou, Qingdao, PRC
Phone: +86 532 8729 3888
Fax: +86 532 8729 3118
1 unit surface = 18.000 m²
(6.000 m² covered)
china@mtu-group.com
www.meccanotecnica.cn.com

Meccanotecnica USA inc.

Corporate & Distribution Center
Seguin Rd. Suite F
Pharr, TX 78577
Phone: +1 956 782 2400

Sales Technical Office
41650 Gardenbrook Road
Suite #110 - Novi, MI 48375
Phone: +1 248 347 0606 ext. 224

Production Unit
San Fernando, Tamas - Mexico
1 unit surface = 28.000 m²
(13.000 m² covered)
usa@mtu-group.com
www.meccanotecnica.us.com

Meccanotecnica India Pvt. Ltd.

Sales offices
351, Sr. No. 28/3/1
Ambegaon Kh.
Near Jambulwadi Lake
Pune 411 046
Phone: +91 020 67919600

Production Unit
C-23 & C-24
SIPCOT Industrial Complex
Pallapatti Village, Nilakottai Taluk
Dindigul District - 624 201
Tamil Nadu, INDIA
Phone: +91 04543 238222
1 unit surface = 16.000 m²
(3.500 m² covered)
india@mtu-group.com
www.meccanotecnicaumbra.com

Huhnseal AB

Box 288 Järvgatan 1
26141 Landskrona SWEDEN
Phone: +46 418 449940
Fax: +46 418 449969
1 unit surface = 2.700 m²
sales@huhnseal.com
www.huhnseal.com

Meccanotecnica Umbra S.p.A. Headquarters

Via Giovanni Agnelli, 7/9
06042 Campello sul Clitunno
(PG) ITALIA
Phone: +39 0743 2791
italy@mtu-group.com
www.meccanotecnica.it

3 Production Plants = 30.000 m²
(14.000 m² covered)
Production plants
via Giovanni Agnelli 7/9
via Giovanni Agnelli 6/8
via Giovanni Agnelli 25
06042 Campello Sul Clitunno (PG)

Share capital
€ 4.330.000,00
Perugia Business Registry
Tax Code
and VAT No. 00163450547
Business and Economic Registry
(REA) PG 82116
ATECO Code 25.99.99



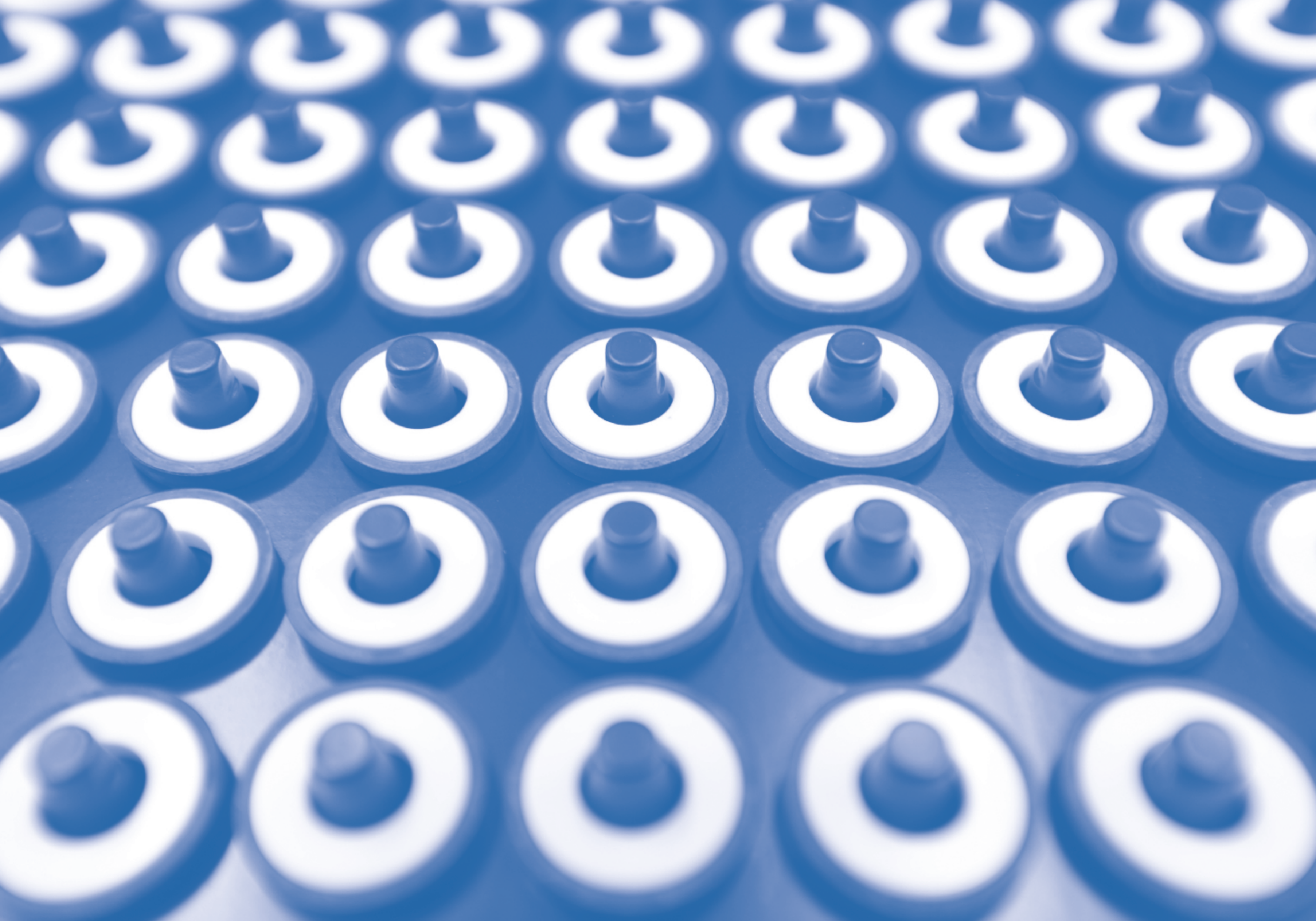
Meccanotecnica Umbra Group
Company video



Join us



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Umbra**

a Story of Excellence