



**Meccanotecnica
Umbra**

a Story of Excellence

Sealing Expertise for Aerospace Applications





Meccanotecnica Umbra S.p.A. was established in 1966 and today it is a world-leading manufacturer of mechanical sealing systems that globally covers about 35% of the automotive sector, more than 50% of the global dishwasher market and many specialized applications.

The Head quarters is based in Campello sul Clitunno, a small town in Umbria between Assisi and Spoleto, 185 miles north of Rome.

Meccanotecnica Umbra S.p.A. operations and sales networks are in Europe, Asia, and the Americas (North and South America).

Our Brands



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Fugesco
Power Mechanical Seals

HUHNSEAL
Custom Technology Partner



A World Class Value

All seals are equal is a paradox!

Hydrodynamic seals are designed to fly. At Meccanotecnica Umbra (MTU), we specialize and take pride in our Lift-off Seals. The latest manufacturing techniques, equipment, integrated seal face manufacturing, dedicated staff, stringent quality requirements and cost effectiveness make our offering the right product for your applications.

Meccanotecnica Umbra also offers a wide range of mechanical seals for various industries and applications such as Agriculture, Civil installations, Food and Beverage, Pulp and Paper, Chemical, Pharmaceutical industry, Mining and slurry industry, Renewable energy, with a superb quality and surprising costs.

How can your pump compete in a crowded market

Yes, design and efficiency are key pump criteria, however materials of construction and leak free are major contributors to success. Our Mechanical sealing systems are designed to provide maximum performance at the same time reducing leakage thanks to a specific design of each type of application and various materials of construction.





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Application Experience

At MTU, we understand seals and rotary equipments. Our engineers and experts have developed products to handle your specific applications properly and efficiently.

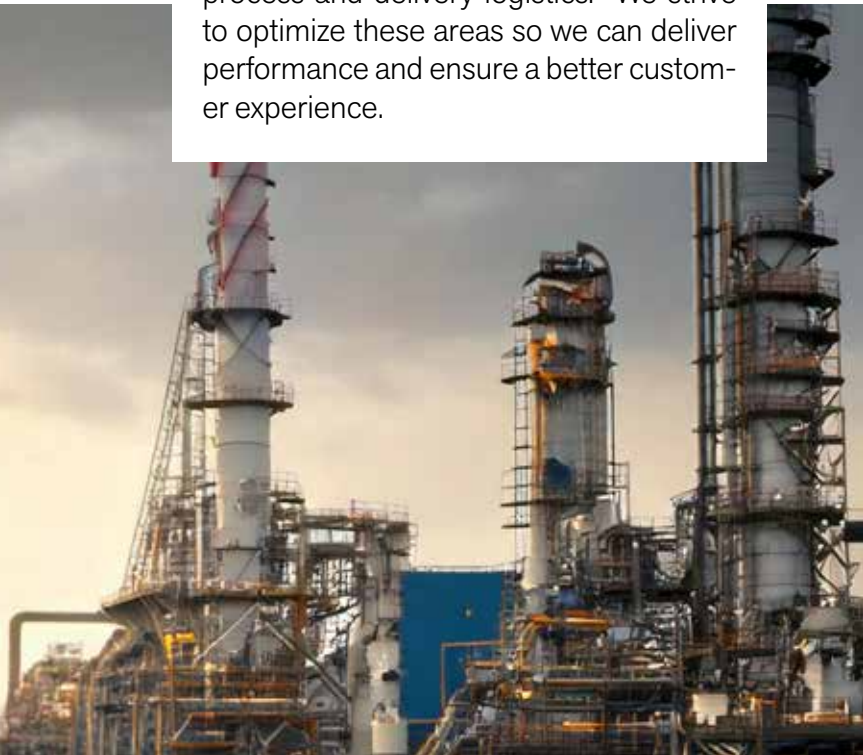
Reliability

You can count on excellent, worry-free designs. We stand behind our products. We will provide support throughout the whole process. Your success defines us.



Lead Time

Our reasonably short lead time involves addressing common issues such as inventory management, order fulfillment process and delivery logistics. We strive to optimize these areas so we can deliver performance and ensure a better customer experience.



A Quality Rating



In this era, quality is a given. Quality is at the heart of everything we do. Our products are designed to meet the highest standards, ensuring they are reliable, efficient, and tailored to your needs. Here are some key aspects of our quality products:

Performance

Our products are built to perform exceptionally well, providing consistent results and reliability.

Durability

We use high-quality materials and rigorous testing to ensure our products last longer and withstand regular use.

Design

Our products are not only functional but also aesthetically pleasing, with attention to detail in every aspect of their design.

Customer Satisfaction

We listen to our customers and continuously improve our products based on their feedback to meet and exceed their expectations.





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High volume manufacturing

Also known as mass production, involves producing large quantities of standardized products quickly and efficiently.

At MTU, we specialize in High volume production as we concentrate on the following key aspects.

Efficiency

We leverage automation and assembly lines to produce goods at a rapid pace, reducing the cost per unit.

Consistency

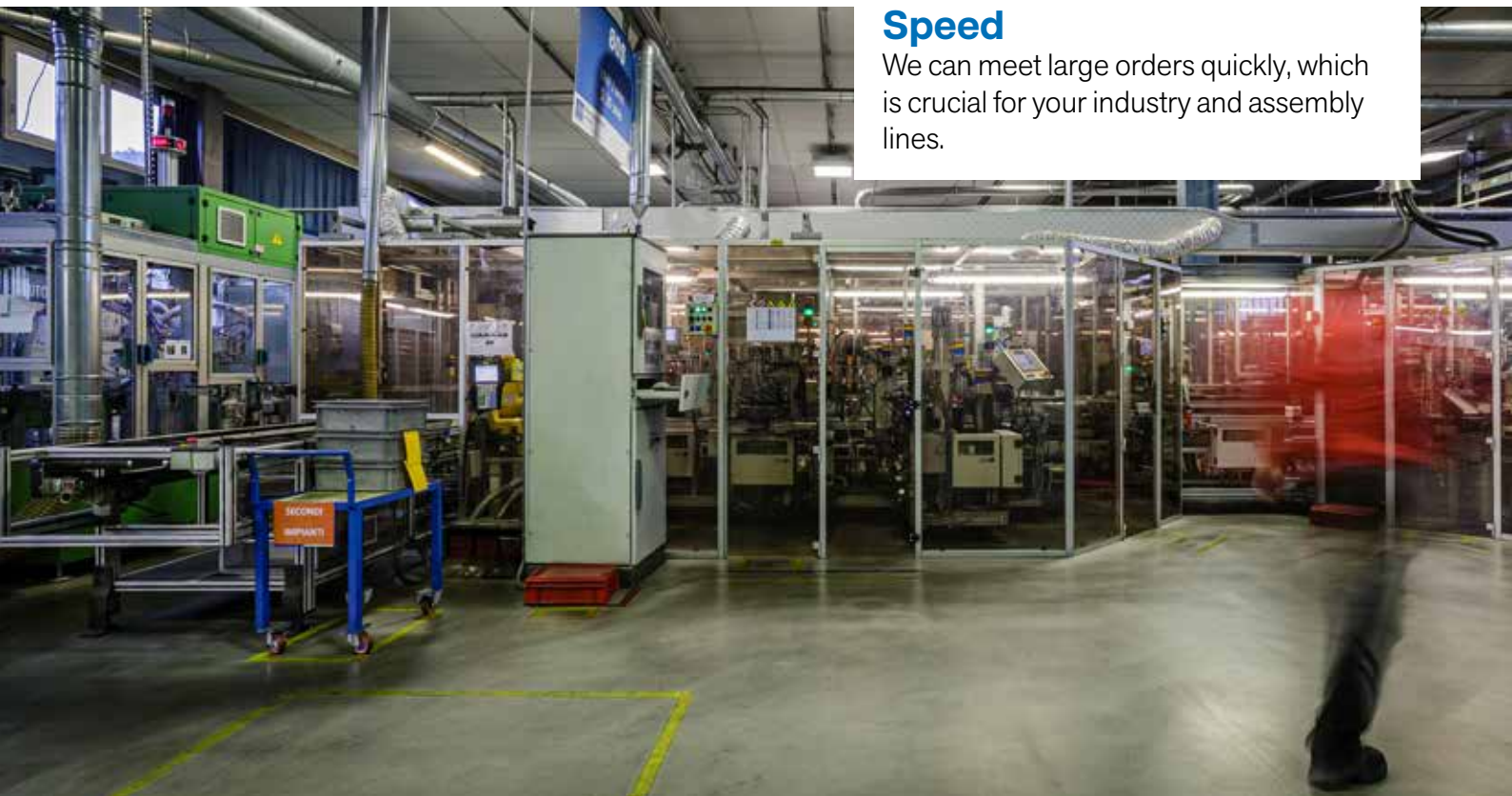
This method ensures uniformity in our products, as each item is made to the same specifications with minimal variation.

Economies of Scale

By producing in large quantities, we can lower the overall cost of production, making it cost-effective for high-demand products.

Speed

We can meet large orders quickly, which is crucial for your industry and assembly lines.

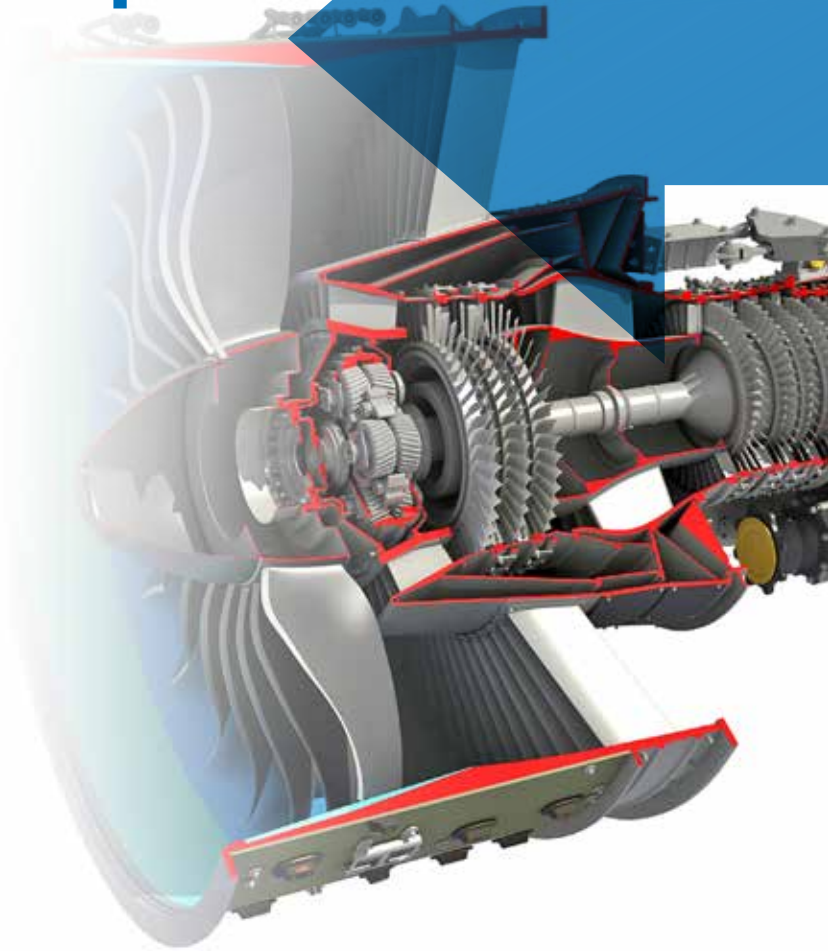


Customised Aerospace Performance

The aerospace industry demands sealing solutions that are unique in their kind, capable of meeting high standards in terms of performance.

As critical components of the aircraft, mechanical seals must withstand the most extreme conditions imaginable: high rotational speeds, extreme operating temperatures, as well as variable ranges of working pressures as the aircraft travels at different altitudes.

Meccanotecnica Umbra provides absolutely customized sealing solutions based on design data.



GearBox

Gearboxes are critical components of helicopters, transmitting power from the engine to the rotating blades. Meccanotecnica Umbra, at its Competence Center in Campello sul Clitunno, designs and manufactures sealing systems for this specific application, employing the latest technologies such as surface texturing.



Auxiliary Power Units

(APU) are systems that provide power to the aircraft when the main engines are not operational, ensuring the safety and comfort of passengers and crew. They reduce fuel consumption and emissions during ground operations, ensuring the efficiency and proper functioning of the aircraft.

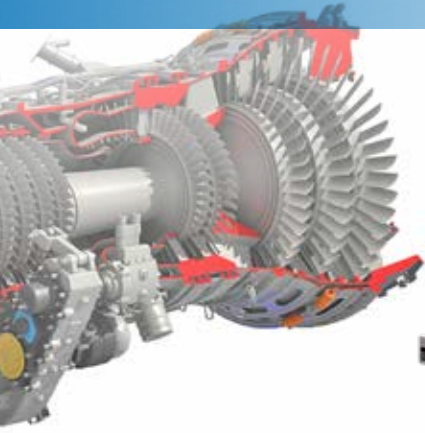


Air Turbine Starter

(ATS) systems are used to start aircraft turbine engines. Despite their small size and lightweight, ATS systems can generate a considerable amount of torque to start the engine until it can run independently.



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UFS series

Mechanical Face Seal for ATS

Speed 200m/s max
Delta Pressure: 260 kPa
Temp. 523°K max



AGB series

Mechanical Face Seal for GearBox

Speed 150m/s max
Delta Pressure: 130 kPa
Temp. 523°K max



HGB series

Mechanical Face Seal for GearBox

Speed 100 m/s max
Delta Pressure: 130 kPa
Temp. 523°K max



SRS series

Segmented Radial Seal for APU

Speed 70.000 rpm max
Delta Pressure: 130 Kpa
Temp. 523°K max



Global Presence and Support



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