



**italvacuum**

YOUR VACUUM DRYING SPECIALIST

## Innovative by tradition

Founded in 1939, in one of the most highly industrialized area of its day, Italtvacuum has always manufactured **vacuum pumps** and **vacuum dryers** for the main production processes used in chemical and pharmaceutical industries.

The company's history is marked by continuous and significant improvements. In the 1960s, Italtvacuum expanded into the European market and increased its workforce, as it began to flank its vacuum tray dryers with a new lineup of rotary units, starting with cylindrical dryers and later introducing double cone dryers. The latter proved to be an enormous success, crowned in the '80s with the CRIOX® system. The company's growth surged again in the '90s, when Italtvacuum conquered the world market and streamlined its Sales Office and Customer Service. At the same time, the company set up its customer-focused Engineering Department and introduced a computerized inventory management system to ensure prompt and efficient service parts delivery all over the world.

In recent years, the innovative approach that has always been Italtvacuum's hallmark has led the company to expand and optimize its product range, with the introduction of two new types of horizontal paddle dryers: Planex® System and CosmoDry® System.

In addition, Italtvacuum has consolidated its position on the market by launching the new LaboDry range of tray dryers designed for laboratory-scale production.

The company has also expanded its lineup of CRIOX® System accessories to include new automatic product loading/unloading devices, and has improved its tray dryers by introducing the C.I.P. MULTISPRAY® fast washing system. At the same time Italtvacuum has succeeded in renewing its vacuum pump design through innovative engineering solutions like the eco-compatible LubriZero® system.

Thanks to 75 years of experience and extensive know-how in vacuum process applications, Italtvacuum is the only manufacturer in the world that can produce turnkey drying systems with all of the components needed to ensure their correct operation, including the vacuum pump. In addition, the company can also develop custom designs on the basis of the customer's specific production requirements. All this means: **BRILLIANT TECHNOLOGY** at your service.



## Mission

Our mission has always been to provide our customers with the utmost in product quality, safety and innovation, with systems that are ideal for controlled production processes carried out under clean conditions.



## Built-in quality

Italvacuum implements an **ISO 9001**-certified Quality Management System that covers all aspects of the company's work, from design and production of each individual component, right through to sales, commissioning and customer service for finished products. In addition, given the importance of welding to the final product quality, Italvacuum has certified its processes and personnel to **ISO 3834-2**, Quality Requirements for Fusion Welding of Metallic Materials – Part 2: Comprehensive Quality Requirements.

Thanks to continual quality monitoring throughout the process cycle, Italvacuum products comply with European **ATEX** and **PED** Directives and **CE** marking requirements, as well as with the increasingly stringent **FDA** standards and **cGMP** regulations.



# Products

Italvacuum designs and manufactures a wide range of original patented products, including:



Vacuum pump with continuous recovery of the extracted solvents, able to guarantee unrivaled performances even under the most arduous conditions;



MULTI-PATENTED horizontal paddle vacuum dryer with ZeroFriction® planetary movement eccentric agitator;



Double cone rotary vacuum dryer / powderer, equipped with powerful electric lump-breaker units that break up agglomerates and powder the product;



Tray vacuum dryer with the C.I.P. MULTISPRAY® patented fast washing system, which allows quick and efficient cleaning of drying chamber and inner shelves;



Horizontal paddle vacuum dryer with concentric agitator, heated and dismountable in several sectors, designed for ease of cleaning and interior inspection;



Cylindrical rotary vacuum dryer, used chiefly for drying, mixing and condensing granulated plastics;



Laboratory-scale tray dryer, with separate cells construction and suitable for glove box installation.

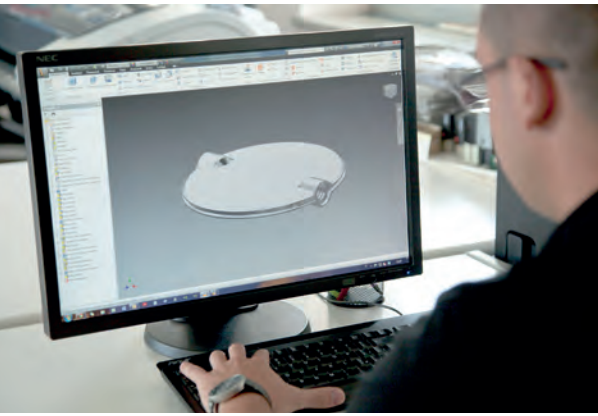
Italvacuum also designs and manufactures a wide range of vacuum pump and vacuum dryer accessories in order to meet all the needs of chemical and pharmaceutical industries.



# Services

For us at Italtvacuum, service means working alongside customers from the very first time they express interest in our technology, giving them the opportunities of conducting pilot drying trials and involving them in system design and production. Once the system is up and running, we also provide all the technical support they need to ensure fault-free operation year after year. Italtvacuum's range of services includes:

**Engineering Services** for research and development of new systems, investigation of innovative technical solutions and applications for new materials, technical support, preparation of layouts and P&IDs (Piping and Instrumentation Diagrams), project management, issue of operation and maintenance manuals, FAT (Factory Acceptance Tests) supervision at customer's presence, validation of installations in accordance with **FDA** requirements and preparation of the associated SAT (Site Acceptance Test), IQ (Installation Qualification) and OQ (Operation Qualification) protocols, system startup at customer's site, operators training.



**Pilot Trials** carried out on customer products to enable them to choose the system that best meets their needs in terms of both capacity and performance. If the customer prefers to carry out pilot trials on his own premises for organizational reasons or because of the particular nature of the product involved, Italtvacuum also offers skid-mounted systems that are readily transported and installed at customer's plant. In such cases, Italtvacuum also provides the technical personnel needed to conduct the trials.

**After Sales Service** providing the following assistance:

- ⦿ Scheduled preventive maintenance, organized on an individual basis to guarantee efficient and reliable operation, saving customer's time, inconvenience and money.
- ⦿ Technical assistance, provided both at customer's site by Italtvacuum specialists, or through on-line diagnostics for installations equipped with Italtvacuum remote monitoring systems.
- ⦿ Computerized Spare Parts Warehouse for prompt delivery of genuine Italtvacuum service parts anywhere in the world.
- ⦿ System upgrading and overhaul to meet new **ATEX** regulations or take advantage of newly developed technologies.



# Italvacuum at a glance

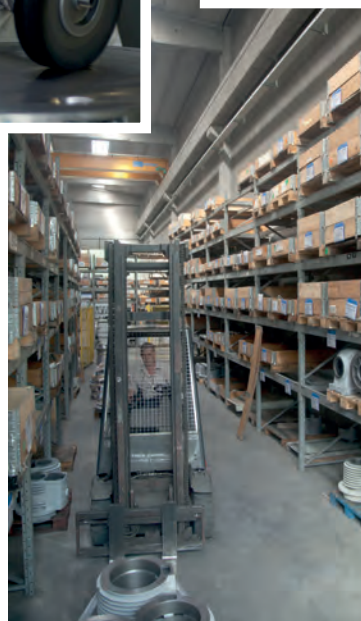
Established: 1939

Plant: 15,000 square meters, including over 5,000 square meters of manufacturing facilities and office space.

Workforce: 70

Customers: chemical, pharmaceutical, petrochemical and cosmetics industries, producing:

- ⊙ **Active Pharmaceutical Ingredients (API)**
- ⊙ **Fine chemicals**
- ⊙ **Intermediates**
- ⊙ **Granulated plastics.**





## Italvacuum around the world

Italvacuum is a successful modern company with a worldwide reach, thanks to a well-organized agents' network, which covers every continent on the globe.





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