



BE SAFE, BE PURE

**SELF-CLEANING
DISC STACK CENTRIFUGES**

GENERAL



COMPANY PROFILE

We are a new company but we boast know-how and long-standing, consolidated experience in the design, production and marketing of disc stack centrifuges.

A business idea conceived and developed in the midst of a pandemic, focusing on our firm belief in the validity and versatility of these products. An incentive, therefore, that has always supported our desire to study, analyse, innovate and test our products, to fully comply with the needs and requirements of our customers.



SKILLS AND ABILITIES

Our consolidated technical knowledge, experience in a wide range of applications and the professional skills and abilities of our team of collaborators, engineers, consultants and technicians are put at your service to meet all of your needs.

WHERE TO FIND US

Our company is located in the industrial park in Schio (VI), an important capital machinery district, guaranteeing the knowledge, expertise and professionalism of the entire network chain.



SIX GOOD REASONS TO CHOOSE US



Made in Italy



Technical know-how
and many years of
experience



A dynamic and innovative
team, within a lean and
flexible structure



Excellent separation/
clarification efficiency



Ease of maintenance



Reduction of operating
costs

Whenever it is necessary to separate liquids or remove ultra-fine particles, and when traditional filtration methods reach their performance limits, disk stack centrifuges are exactly what you need to achieve the best results...

- SEPARATORS (three-phase separation) —————> They separate liquid phases of different densities while simultaneously expelling solid particles
- CLARIFIERS (two-phase separation) —————> They separate ultra-fine solid particles from a liquid

How does it work? There is a physical principle behind it...

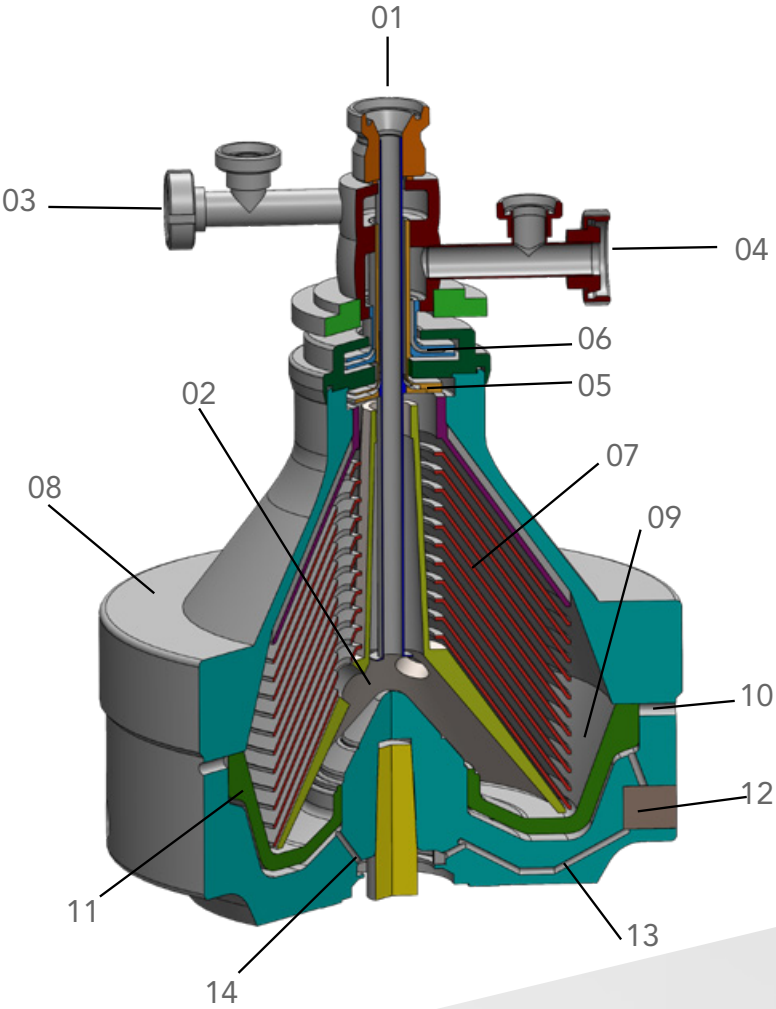
It all starts with the exploitation of a centrifugal force, which generates a more efficient and much faster separation compared to the more traditional decanting method.

The mixture requiring separation flows into a bowl that is similar to a tank. As this bowl rotates at exceptionally high speed, the effect of gravity is replaced by the centrifugal force (G), which can be up to 10,000 times greater than the force of gravity.

The separation efficiency gets an additional boost from a disc stack inside the bowl.

Smooth product inlet flow
The feeding system features a soft product inlet flow, allowing it to reach a high speed without damaging its characteristics.

Separation
Separated solids, which have a higher density, accumulate on the peripheral part of the bowl (again due to centrifugal force). At regular intervals, they are automatically exhausted by a partial and/or total discharge process. Separated liquids flow to the upper section of the bowl and are discharged by centripetal pumps.



- 01. Product inlet
- 02. Bowl distributor
- 03. Light phase outlet
- 04. Heavy phase outlet
- 05. Light phase centripetal pump
- 06. Heavy phase centripetal pump
- 07. Disc stack
- 08. Bowl
- 09. Solids chamber
- 10. Solids outlet
- 11. Sliding piston
- 12. Bowl valve
- 13. Operating water – opening
- 14. Operating water - closing

EFFICIENCY
AND PRECISION

Technology and innovation, striving for perfection

Trailblazing designs, consistent and innovative research, superior materials and complete sharing of expertise, thanks to a lean and flexible structure: these are the key ingredients in our approach. They allow us to focus directly on our most important objective: maximum machine efficiency performance and total satisfaction for you.

Continuous ongoing research has led us to develop a high-performance bowl, which allows top efficiency, a reduction of the installed electrical power and, therefore, energy consumption, resulting in lower operating costs.

Furthermore, in order to support correct use of the product, we supply special software to enable remote and real-time monitoring of all the fundamental operating parameters.

Quality and safety

All components are manufactured to the highest quality and safety standards.

Special SUPER DUPLEX stainless steels with very high resistance to mechanical stress and corrosion are used for the bowl. Parts in contact with the product are made of AISI 304/316 stainless steel.



- **Higher performance**
- **Decreased consumption** and installed power
- **Automatic discharge** for maximum process hygiene and minimal product losses
- **Feeding system with soft inflow** to prevent damage to the product
 - Soft product inflow handling
 - Hydrodynamic design aimed at reducing turbulences
- **Hydraulic sealing** to minimise product oxidation
- **Hermetic sealing** to prevent CO2 leakage and product oxidation
- **Increased mechanical efficiency** – bearing life – for a long-term operation performance
- **Cartridge-type vertical shaft**
- **Ease of maintenance and savings in operating costs**
- **Safety and cleanliness** of the entire process
- **Ease of control and adjustments**

DESIGNED FOR TOP PERFORMANCE

THE SOLUTION TO EVERY REQUIREMENT

Our disc stack centrifuges can be used in a wide range of applications: in the dairy, wine and soft drinks industries, and any other sector where it is necessary to separate liquids or clean them by removing ultra-fine particles, in order to recover a valuable substance or eliminate waste. Our goal is to ensure you get the very best out of your product.

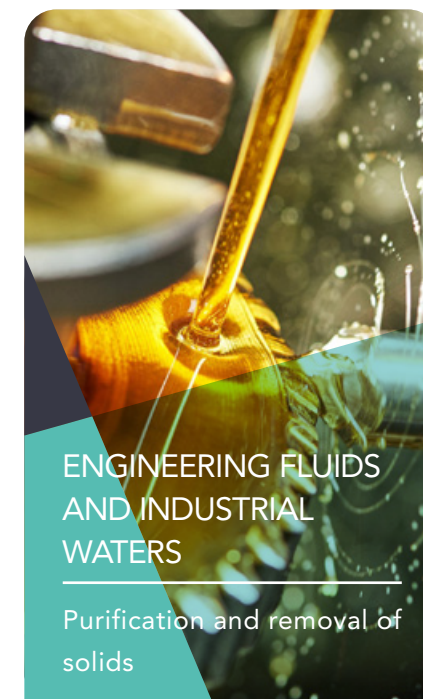
Given the high separation efficiency, they even remove the smallest solid particles, resulting in a decrease in filtration costs where needed.



A WIDE RANGE OF APPLICATIONS

General brochure

Starting from an in-depth analysis of your needs and adding the wide experience we have accumulated over time and in different application areas, we are able to develop the most suitable solutions for your product and/or process requirements.



The best business strategy, a satisfied customer.

We firmly believe in the importance of establishing a relationship based on mutual trust with our customers.

This is why we aim to deliver a comprehensive, reliable and consistent service, to guarantee you peace of mind from the outset, during the design phase of your product and through to the processing, installation and commissioning phases, including maintenance and – if necessary – repair later on.

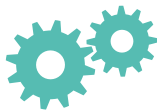
Our technicians will support you at any moment and at any location throughout the working life of your machine, training your personnel and providing regular and scheduled maintenance to ensure that its operation and performance levels are always optimised.

SATISFACTION
TRUST
ASSISTANCE
LOYALTY
SUPPORT
COMMUNICATION
FEEDBACK
SERVICE



R&D TEAM

To study your product and process demands.



SPARE PARTS

Original spare parts.



MAINTENANCE

Scheduled, periodic and preventive maintenance contracts.



MONITORING

Dedicated software for continuous remote performance monitoring.



TRAINING

Training for your technicians and operators.



TECHNICAL SUPPORT

A team of experienced engineers will support you at any time and at any place.

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