



MIXING & DRYING TECHNOLOGY

**VACUUM DRYING FILTRATION FOR INDUSTRY**

# KNOW HOW, EXPERIENCE AND CAPABILITIES, MAKE THE DIFFERENCE



**FNB-S**

## NUCHA pressurised filter NUCHA vacuum filter-dryer

The **FNB** and **FNB-S** are filtration and filtration-vacuum drying equipment for various types of materials for the pharmaceutical, chemical, fine chemical and food industries. The FNB-S enables us to perform extraction, filtration, pressing, washing, dissolution, bleaching, deodorising and vacuum drying, all in the same unit, without product transfer. Our closing system by means SuperClamp, reduces opening/closing times and improves the equipment cleaning requirements.

Versions from 0.07 m2 up to 20 m2  
Design pressures up to 10 bar.



**MBC-S**

## Biconical dryer

Rotating vacuum dryer, especially designed for fragile products in which particle breakage must be avoided. Easy to clean due to the fact that there are no parts inside the dryer, making it highly recommended for sanitary applications. The equipment is supplied complete with a bedframe that can include a vacuum unit, vacuum filter, drives and other services.

Versions from 50 to 100 litres.



**MCV-S/NS/  
NCS-ELICONOMIX**

## Vertical conical dryer

This is a dryer that permits operation with all types of products, crystalline and amorphous. Its double shaft movement (epicycloidal) provides high performance because it increases the heat transfer between the product and the shell. With three different finishing options, **S**, **NS** y **NCS**, we can provide solutions without lower support (total unloading) and with free fat/oil transmission, without any type of product loss in case of breaking.

Versions from 50 to 10,000 litres.

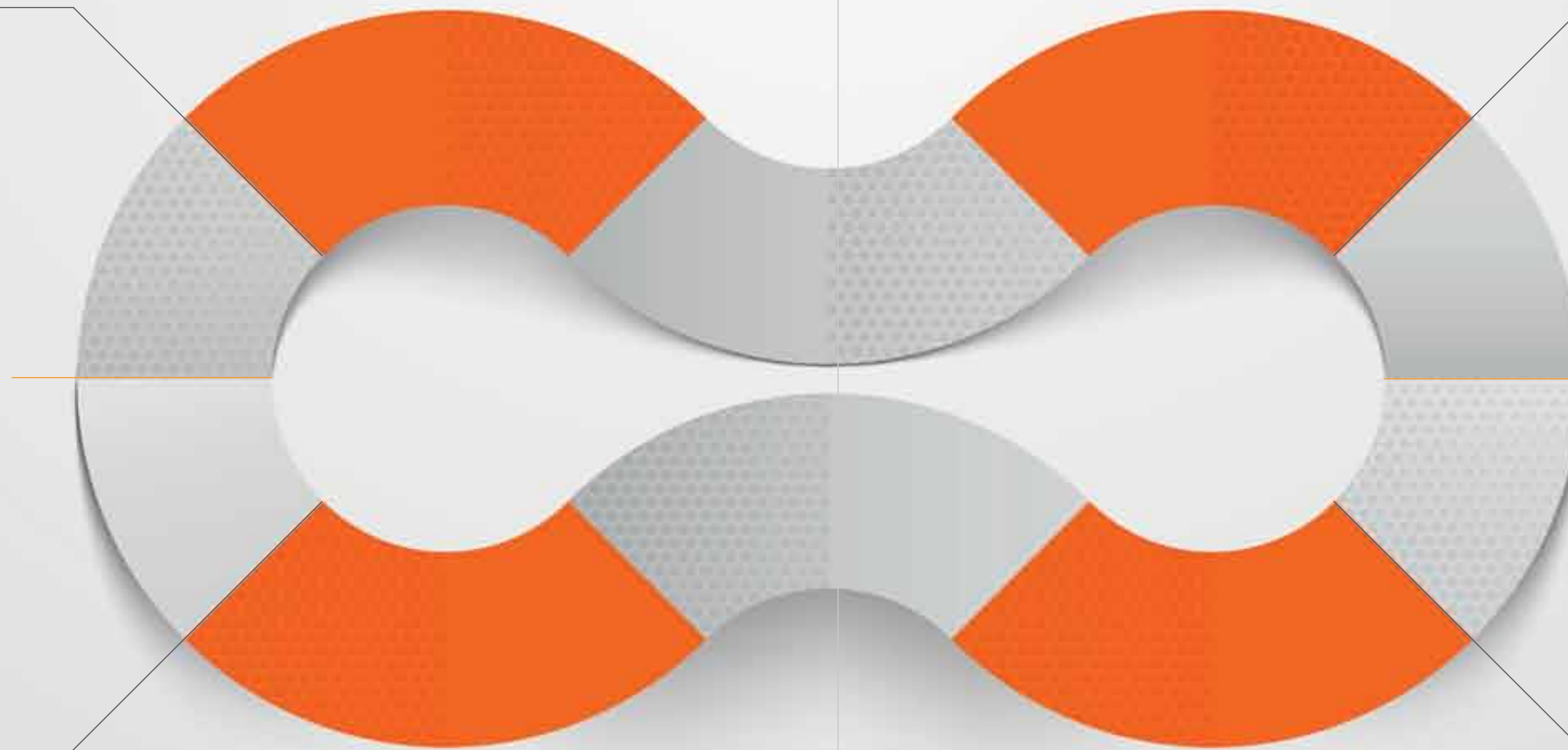


## SHV - SANIDRY

### Horizontal vacuum dryer with blades

The **SHV** was specially designed for sanitary applications according to GMP standards and the main characteristic is a single support point on the shaft (cantilever) and a front door providing full access to the equipment. With heated shell, shaft, blades, rear bottom and front door, increasing the dynamic heated surface area and minimizing non heated parts - condensation points. Designs adapted to your requirements. Atex, CIP, recovery and vacuum skids, heating and cooling skids, etc.

Versions from 150 to 5,000 litres.



## GMB-S

### Mixer, granulated Vacuum dryer

The **GMB-S** is designed for performing mixing, granulating (by liquid addition) and vacuum drying in the same equipment. The lateral unloading valve and shell/body rotation option guarantee total unloading. Optionally, all peripherals can be placed inside the bedframe, offering a clean and compact solution.

Versions from 30 to 5,000 litres.



**MHT-S**

## Horizontal turbulence blade vacuum dryer

The **MHT-S** equipment is specially designed for vacuum drying applications with high mechanical demands or high temperatures. The shaft is firmly secured to both side shell with sealing by mechanical seal and rotating at very low speed, providing very high torque, which is especially suitable for high viscosity applications, with pseudo-plastic phases. The equipment may also be designed as a reactor (MHT-R) or as reactor-dryer (MHT-RS), allowing reaction and reaction + vacuum drying operations to be carried out.

Versions from 50 to 10,000 litres.



**TURNKEY PROJECTS**

## Peripherals

All our equipment can be supplied as single equipment or with peripherals required for full operation as a turnkey project: condensation and vacuum skids, heating and cooling skids, controls, structural elements, engineering support with protocols (IQ, OQ, DQ), FAT, SAT, commissioning, start up, personnel training and preventive maintenance programmes, etc.



**EM-S**

## Vacuum evaporator-concentrator

This equipment is designed for evaporation, concentration and vacuum drying processes for high-viscosity products which pass through rubber or plastic phases in their drying processes. It is fitted with a special stirring system with automatic speed adjustment and guarantees maximum torque applied to the product in function of itself, for example, mud or sludge. The equipment can be manufactured in GMP execution with easy-to-clean access.

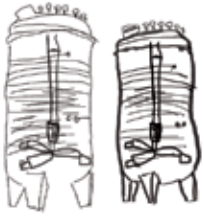
The sizes are adaptable to the client's batch.

**BACHILLER** is the largest company in the world for vacuum drying solutions; with more than 45 years of experience, with more than 150 professionals at your service and located thirty kilometres from Barcelona. From laboratory size equipment to industrial processes sizes, our vacuum drying and filtration equipment (FNB) are specifically designed to meet the demands of the pharmaceutical, chemical, fine chemical, food, cosmetic and similar sectors.

With our own engineering department and test laboratory, we collaborate with our clients developing customised solutions and new processes; together with our R&D department we are constantly developing new solutions to improve your processes. We design and manufacture all of our equipment, monitoring the manufacturing during all process, from the calculation and design, the polish and commissioning / start up.

Manufacturing materials: from 304 to Ti, duplex, alloy, austenitic and super-austenitic, etc.





REACTION



FILTRATION  
DRYING



VACUUM  
DRYING



MICRONISATION



MIXING AND  
HOMOGENISATION



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