



GLOBAL SOLUTIONS FOR **PHARMACEUTICAL PACKAGING**

- › High Barrier Bags
- › Filling
- › Vacuum
- › Gas Flushing
- › Sealing



BERNHARDT
PACKAGING & PROCESS



PACKAGING SOLUTIONS



UNLOCKING VALUE FOR YOUR CHEMICAL PRODUCTS

BERNHARDT is specialized in the production of high barrier multilayer bags for the protection of sensitive products against oxidation, gas, moisture, UV rays, smells, ...

Although bag manufacturing techniques are most important, Bernhardt's R&D too is done using only the best material among that provided by the numerous suppliers.

› LOW BARRIER

Polyamide/Polyethylene

› MEDIUM BARRIER

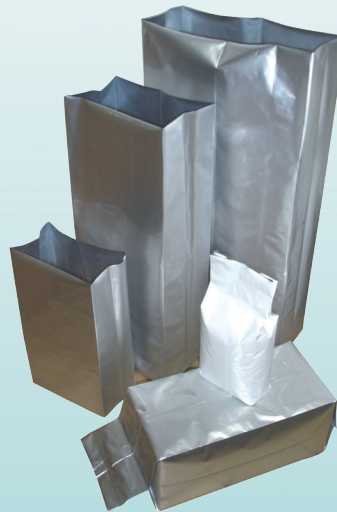
EVOH is added to provide a better oxygen barrier

› HIGH BARRIER

We use 3 or 4 layer laminates with aluminium foil depending on the application:

- PETA 80
- XX = PET/Alu/OPA/PE

PHARMACOPEIA agreement



APPLICATIONS ?

- › API
- › Excipients
- › Powders
- › Granules
- › Liquids
- › Capsules
- › Tablets
- › Medical-devices...

VARIOUS SHAPES AND VOLUMES

- › 3 seal bags (3S)
- › Side gusseted bags (2SL or 4SL)

Bags and pouches for:

- › Solids:
from 0.5L to 2000L
- › Liquids and pastes:
from 1L to 1000 L

Adapted for:

- › Big Bags
- › Boxes
- › Steel or cardboard drums, buckets...



› Traceability number on each bag

2810 101001

- › **Quality control:**
drop test, bacterial test, pressure resistance and tensile strength tests are done for each production


› GMP practices

ISO 9001-ISO 14001



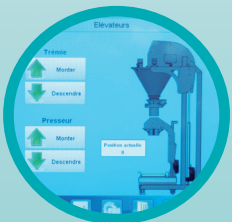
FILLING EQUIPMENTS

ACCURATE FILLING AND FAST PACKING IN COMPLIANCE WITH cGMP AND FDA REQUIREMENTS

- › High accuracy of dosage with material of any nature and thickness
- › Clean environment with a confinement system for fine particles
- › Easy cleaning and maintenance
- › User-friendly interface
- › Traceability for each operation
- ›  ATEX technology



Fast and ergonomic positioning of the bag. Keeps sealing zone free of dust.



User-friendly interface.

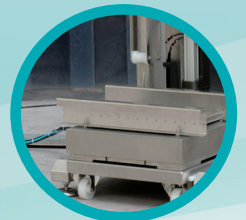
WATCH THE VIDEO



Optimized blade design for efficient fluidizing.



Hermetic process thanks to the Pouyès anti-dust system.



Direct and real net weighing system.



APPLICATIONS

Bag in Box (20-120L)

Drum + High Barrier pouches (40-220L)

Big Bag + High Barrier liner (1000-2000L)

Pinch bottom bags (20L-80L)



SEALING MACHINES

IMPULSE DRIVER® TECHNOLOGY EFFECTIVE SEALING TEMPERATURE REGULATION

- › Conformity of all the seals whatever the production rates, with any nature and thickness of material
- › Registration of up to 30 different set-up,
- › Storage of all sealing graphs, with files export possibility for traceability
- › Strong 10 mm wide seal on flat and gusseted bags,
- › Constant heat sealing for ATEX



Sealing machines use mechanical or pneumatic systems, with vacuum, gas flushing & Impulse Driver® technologies. We develop custom-made sealers (ATEX, special frames...) according to your needs.

WATCH THE VIDEO



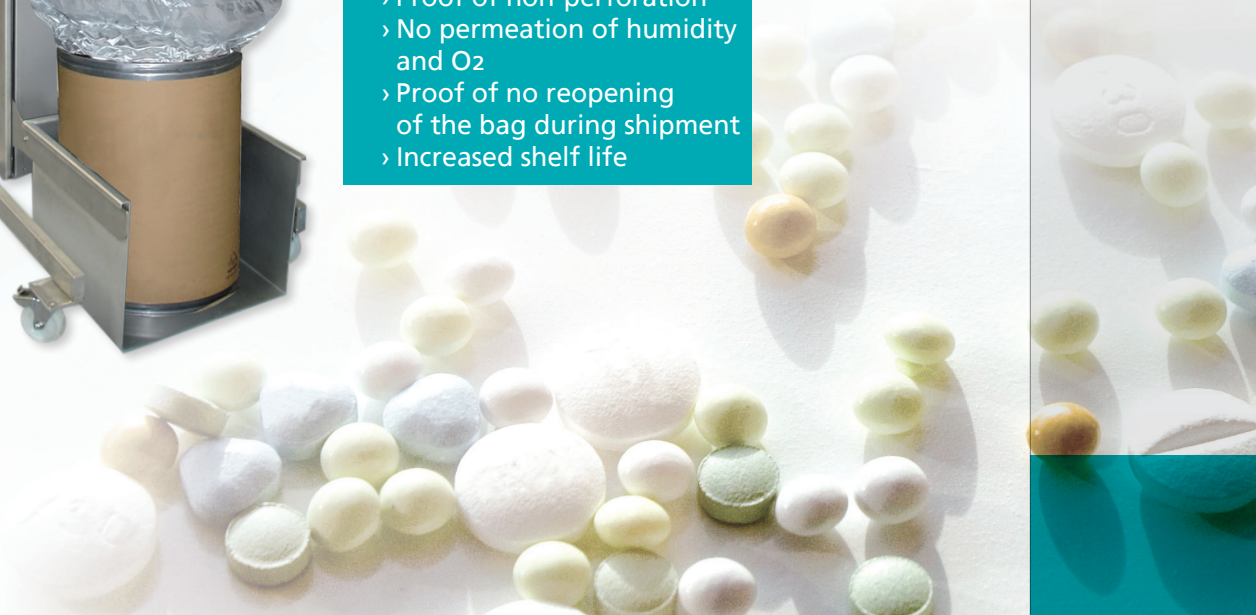
**MSB11P ID PHARMA
SEALING MACHINE**
Complies with ISO7 Class Clean rooms

WATCH THE VIDEO



VACUUM provides:

- › Proof of non-perforation
- › No permeation of humidity and O₂
- › Proof of no reopening of the bag during shipment
- › Increased shelf life



GLOBAL SOLUTIONS

As the pharmaceutical industry needs must be continually involving it necessitates innovation and safety.

Quality control is mandatory at all stages prior to packaging; the drug follows a highly regulated process where quality control and compliance with good manufacturing practices are essential.

With a strong experience in the packaging industry since its foundation (1956), Bernhardt manufactures high barrier flexible packagings as well as a wide range of strong and efficient packing equipments.

A COMPREHENSIVE OFFER...



HIGH BARRIER BAGS

Efficient and certified for the protection of pharmaceutical and chemical products from diverse external contaminating agents.

The multilayer bags are produced in compliance with GMP, highly tested before their shipment and have perfect traceability. Pharmacopeia agreement is also available.



INDUSTRIAL FILLING EQUIPMENT



Allows product packaging with good fluidity, and confinement system for fine particles. Easy cleaning and maintenance, along with safety throughout the process, are facilitated.

The Fildose® concept offers a user-friendly interface for easy handling of the machine with high accuracy and traceability for each operation.



HEAT-SEALING EQUIPMENT WITH IMPULSE DRIVER® TECHNOLOGY



The principle underlying regulation of the sealing pulse is based on heat emissivity.

The Impulse Driver® technology allows temperature control of all the seals and their traceability. Vacuum and gas flushing are available.



TURN KEY SOLUTIONS

According to your needs in terms of productivity, safety and accuracy, our expertise is able to provide complete lines for your filling and packaging processes.

PHARMACEUTICAL & CHEMICAL PACKAGING & PROCESS

BERNHARDT

INNOVATION

QUALITY

TRACEABILITY

REACTIVITY

IN THE WORLD

BERNHARDT started its activity in 1956 with the manufacturing of sealing and filling machines. Production of high barrier bags began in the early 70's in order to provide global solutions for the packing of sensitive products. Thanks to strong efforts in R&D, BERNHARDT is present worldwide, with a turnover of 25% in Europe and 25% overseas.



18 Z.I. de la Trésorerie 62126 Wimille - FRANCE
Tel. (33) 03 21 10 15 00 - Fax. (33) 03 21 87 61 78
E-mail: bdt@bernhardt.fr
www.bernhardt.fr