

T TECNOLOGIA MECCANICA

screw feeders

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Screw Feeders

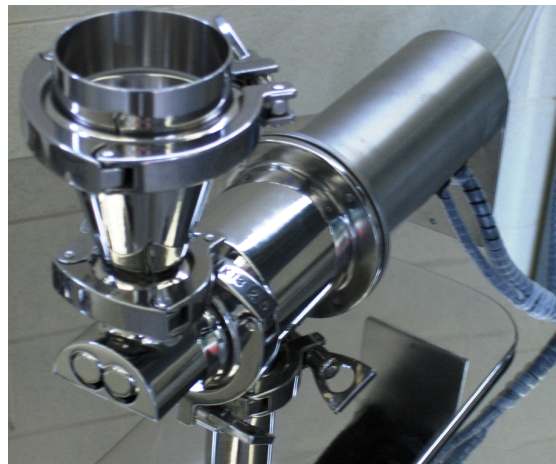
Especially designed for fluid jet micronizers

Tecnologia Meccanica designs feeding technology around the micronizing requirements, with the aim of supplying a completely and totally well integrated system. In principle volumetric feeding is the simplest most economical feeding solution available in the market, bulks are held into a hopper and constantly fed into a process per unit of time, in this way a gravimetric feed rate may be inferred through a calibration process where a timed sample is taken and weighed and screw speed adjusted accordingly. This technique can be successfully applied to all the materials with consistent bulk density, while for the other materials a loss in weight solution has to be applied, in gravimetric feeding, dry bulk material is fed into a "fluid jet mill" at a constant weight per unit of time since weight is a variable that can be captured by a weighing module.

We start with one of the best Pharmaceutical Micronization Technology available, and build state-of-the-art feeding technology around our equipments. We offer a total solution in micronization.

At a glance

- Mini feeders in size for processing very small product quantities, few grams
- Vertical or horizontal single screw equipments for easy applications
- Twin screws feeders for very accurate dosage
- Brushless motor with resolver for constant drive at any speed, also in Atex version
- Quick and easy assembling and disassembling of the system with a limited number of clamped components
- Simplicity of the whole units in pharmaceutical execution
- Manufacturing materials are Aisi type 316L (EN 1.4404) stainless steel or Hastelloy mirror polished to Ra 0.25 micron



Discover your own tailored equipment

There are many possibilities and configurations available to tailor our feeding technology to your application. Try your custom version, our engineering team works with you in order to develop your personal system.

Our screw feeders involve many quality features including:

- Gravimetric execution for extremely accurate dosage of any kind of product
- PLC drove system
- Product oriented screw pitch
- Screws made of POMc
- Flexibility based on our exclusive modular design concept.

Choosing the best Volumetric Feeder for your process

We offer a wide variety of single and twin screw volumetric feeders, with exchangeable screw design choices you can handle a wide range of applications beyond micronization, involving prefeeding, feeding or batching of materials with consistent density, particle size and moisture content.

Single screw feeders handle free-flowing materials such as pellets and powders, twin screw feeders handle more difficult materials such as pigments, sticky, bridging or flooding powders, fiber and fiberglass.

The feeding system utilizes feeding technology with no internal stirring system, and is gentle on the product, this solution guarantees low maintenance and offers remarkable basic features, such as robust welded stainless steel housing with easily detachable side parts.



Models available

- SS20 & SS20+
- DS20
- DS25
- DS30-PH
- SS50 & SS50A
- DS50 & DS50-PH



High Pharma Level

This means that our equipments can be easily validated for pharmaceutical applications

- All mechanical parts do not use oil or grease
- Simple and quick disassembly of the screws and of the bridge breaker
- Completely stainless steel execution of all the process and non process side parts
- Simple inspection and easy accessibility of all the seals
- Very low residual amount of bulk solid after a complete discharge
- Horizontal driven bridge breaker

Our Workshop address:

Tecnologia Meccanica Srl

Via S. Cristina 37 - 24048 Albegno di Treviolo – Bergamo – Italy

Telephone +39 035 691320

Facsimile +39 035 201175

Electronic mail info@tecnologia.it

Website www.tecnologia.it

The manufacturer reserves the right to modify specifications without prior notice.