STM is a company which, since its foundation in 1980, is engaged in research and building of dry grinding mills for all kinds of products involving highly heterogeneous sectors and ranging from ore, chemical products, fodder, foodstuff, pharmaceutical, cosmetic and plastic products.

Our production range includes:

- MJS  Air jet stream mills
- JCF  Selectors mills
- MDS  Micro dosing system
- MP  Pin mills
- MR  Screen mills
- SDF  Micro Selectors ; Classifier
- TRM  Roller mill

Cryogenic systems
ATEX – Plant
Auxiliary equipment for plant engineering

Thanks to its organization structure and experienced team will solve any engineering problems and will integrate STM machinery in existing plants or create new plants.

STM is able to offer its customers a wide and complete range of services.

STM is at the cutting edge of design and manufacture of machines for dry grinding and selection. Our milling machines and dynamic classifiers can process many types of products into powder or grains.

Our dry grinding technologies give excellent performance in terms of production and granulation, testifying to the high quality of our machinery.
To solve our customers problem in the best way, STM has a well equipped test hall where grinding, milling, micronisation or sorting, grading or separation tests on the initial product are conducted.

STM has conceived tests to check the grindability of the product with the utilization of equipment operating in inert or cryogenic atmosphere.

A complete technical document is issued for each test, summarizing the optimal grinding parameters, energy consumption and grain size curves plotted by a particle size analyzer.

**MJS Air jet stream mill**

Which is suitable for the grinding of materials with an hardness up to 10 of the Mohs scale, and that can reach a final size from 2 up to 80 micron. The most important characteristic of this machine is the simple dismantling for cleaning and sterilization so that the same mill can be suitable for milling different products on the same installation. This machine is suitable for every kind of material but, especially, for those industries that requires to mill different kind of products always with the same machine (for example colors producers, chemical industries, etc..)

**JCF Selecting mill**

Thanks to perfect integration of the mechanical and electronic technology, guarantees great performance of reliability, productivity and energetic saving. The machine is a new combined equipment which is composed of a grinding and a selection in a single machine of compact construction. The maximum size of the input material is 15 mm, and the fineness of the product output by the machine varies from 8 to 150 µ. This system is universally applicable for most of the products having a maximum hardness of about 3.5 Mohs.

**MDS Dosing systems**

Auxiliary equipment for plant engineering. System for dosing, injection and control for powdered activated carbon, sodium bicarbonate, hydrated lime, etc. with micro feeder series MDS. Our range of dosage machines includes a line of modular microdosers for powders and heterogeneous substances, as well as various storage modules and injection and pneumatic transport systems for products, all characterized by flexibility and precision.
Impact grinding without product classifying. The particle size is defined by the space between the pins and by the number of the disc revolution. The materials is fed between one fixed and one rotating disc or between two disc rotating against other with steel pins. Very often this mill series is used for cryogenic grinding.

Suitable for various material with a tendency of being hard or fragile, for the grinding of particle sizes from fine to medium (30 micron \(\div 1\) mm).

The microselector is a machine for grading dry air, equipped with dual air intake and a rotor of selection of the centrifugal type installed horizontally. Reaches a wide range of selection and it is working in a range from \(D97 = 10\mu\). It can classify different particles like spherical in shape, lamellar or fibrous and is capable of separating materials with different densities.

Grinding is carried out by the high pressure conical rollers with a roto-translatory movement on a moving track. The pressure used may be adjusted to vary the degree of fineness and/or to adapt to different product hardness's. The combined selector is used for automatic recycling of the product until the desired dimension is achieved.

To obtain granulometries of between 10 and 360 microns with material of a Mohs hardness of up to 6 and with a quartz content of up to 6%.
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