



MICRON SYSTEME

Ultra-Fine Powder Technology



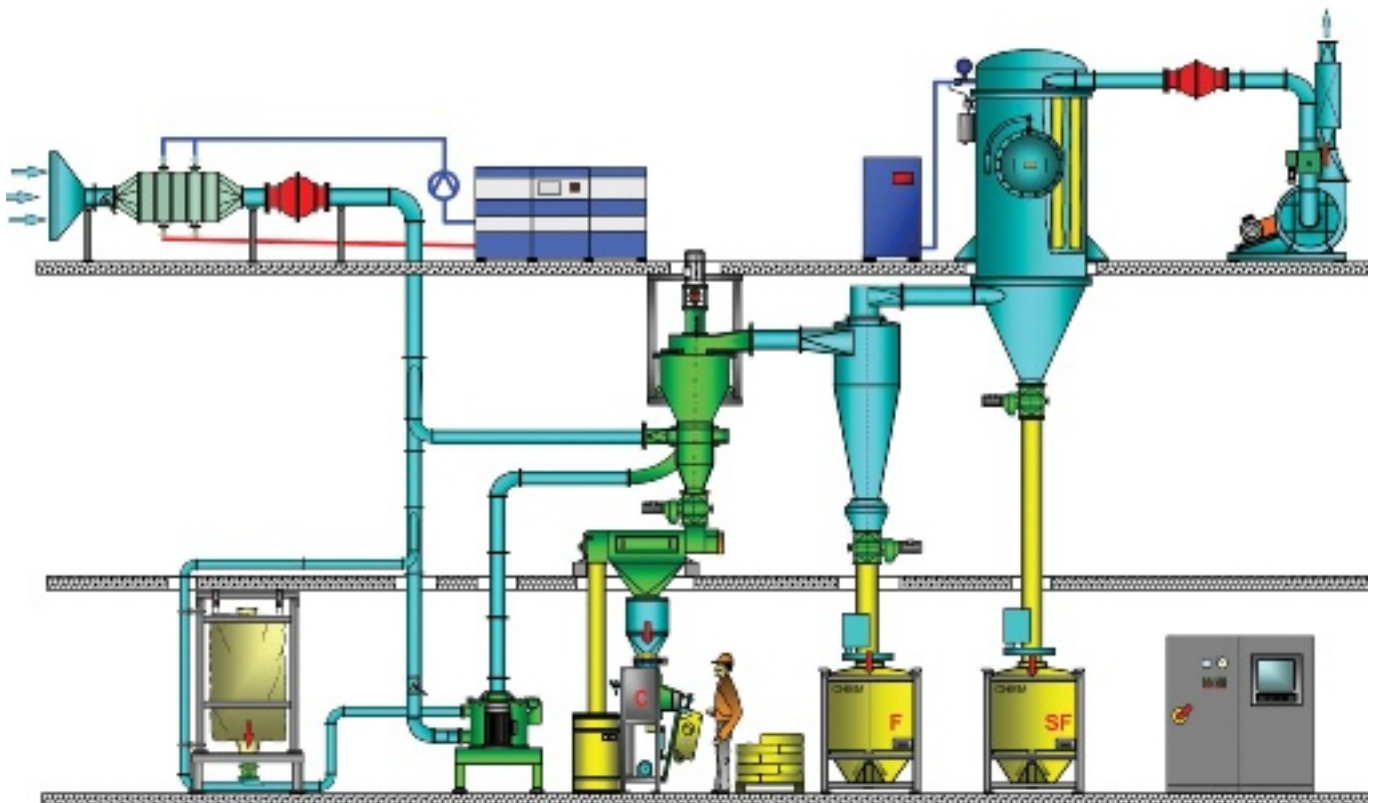
Ultra-Fine Powder Technology

Wherever fine and ultra-fine powders are produced, handled or required, processing technology from MICRON SYSTEME leads the way and sets standards with economical solutions. We keep the wheel turning. Up-time is what counts. Efficiency in all areas of a system makes the difference. Day by day, Euro by Euro.

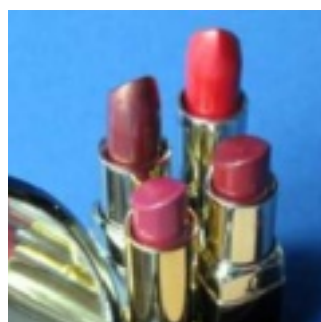
At MICRON SYSTEME we believe in establishing long term relationships with our customers. We honour your trust in our capabilities and our performance. As your business grows, we like to grow with you. Constant product refinements, based on your input and progressive R&D work of our engineers, produce the products for the markets of tomorrow.

It is our philosophy to only provide environmentally-friendly systems. With utmost care we select the appropriate equipment for a given application.

Exhausting process air as clean as possible is a must. Employing energy-saving processes is the key to success. Additionally, ease-of-handling and maintenance-friendly equipment are part of every system that we supply.



Micronizing of different materials for many kinds of applications

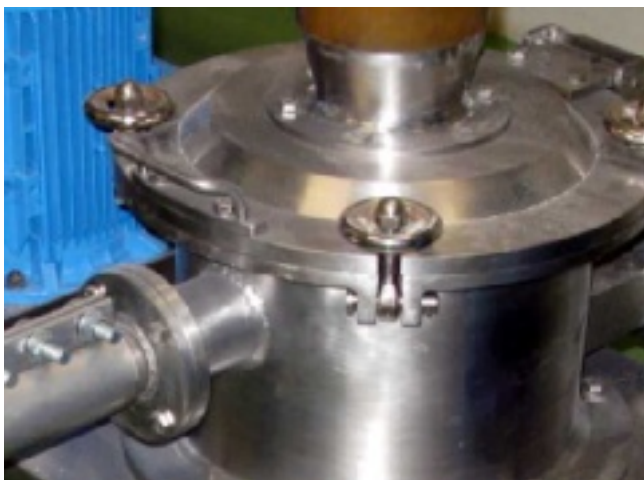


Micronizing



Airclassifier Mill, type MS 1500 AC

This mill is one of the most flexible machines in the industry. It pulverizes and micronizes a large variety of different soft to medium hard materials. Different grinding elements and air classifier wheels are available. By setting the parameters properly, mainly rotor speeds and air volume, the performance of this machine is unmatched.



Airclassifier Mill, type MS 100 AI

Grinding of most chemical and food products today requires machines and systems made of stainless steel. According to the requirements of the application, stainless steel 306 or 316 is used. Surface treatment reaches from blasted to polished design. Pressure-shock-resistant designs are available in PSR 3 and PSR 10.



Airclassifier Mill, type MS 20 AI-P

Pharmaceutical applications require designs with ease-of-handling, easy cleaning and highly polished surfaces manufactured according to GMP and FDA regulations. We will gladly show you the details and our capabilities in this specific field.

Type		MS 20	MS 100	MS 150	MS 300	MS 400	MS 750	MS 1500	MS 2000
Scale-up factor	F=ca.	0.2	1.0	1.3	2.7	3.6	6.7	13.5	18.0
Rotor diameter	mm	185	325	325	495	495	775	970	1170
Motor	kW	3 + 0.75	7.5 + 1.1	11 x 1.1	22 + 4.0	30 + 4.0	55 + 11	75 + 15	160 + 37
Air flow rate, max	m ³ /h	325	900	1350	3240	4200	7200	14400	19000

Air Classification



Air-Classifer, type AC

This dynamic air classifier is suitable for cuts between 8 μm and 150 μm depending on the characteristics of the product to be processed. Capacities achieved range from 100 kg/hr to 12.000 kg/hr.

A secondary air inlet placed between the upper and the lower parts of the classifier is characteristic for this air classifier.

Clean coarse products can be produced. Top cuts range from 5 μm to 120 μm . Air capacities range from 300 m^3/hr to 18.000 m^3/hr .

Depending on the application on hand, Turbo-Classifiers are available in stainless steel and pressure-shock-resistant design PSR 3 or PSR 10.

Design and material of construction of the classifier wheels are selected according to the application.

Classifier wheels can be made of carbon steel, stainless steel or ceramic. Coating with Wolfram carbide or Linotex rubber is available.

Type		AC 100	AC 200	AC 250	AC 315	AC 400	AC 500	AC 630	AC 800
Scale-up factor	F=ca.	0.18	0.7	1.0	1.6	2.7	4.3	6.7	10.5
Rotor diameter	mm	100	200	250	315	400	500	630	800
Motor	kW	2.2	5.0	7.5	11.0	15.0	18.5	30	45
Air flow rate, max	m^3/h	300	1200	1700	2800	4600	7300	11500	18000

Air Filtration

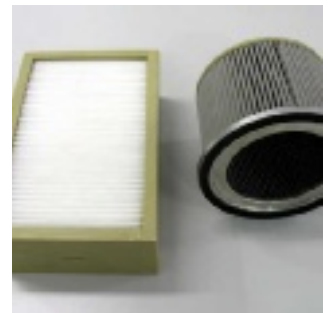
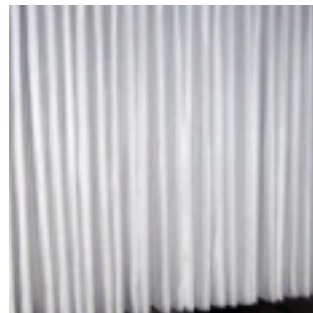
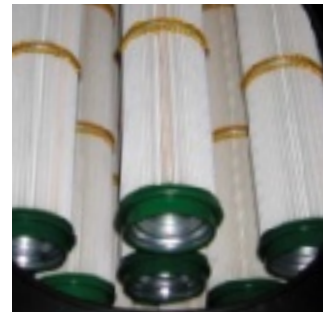


Automatic Reverse Jet Filters, type RJF

For cleaning process gas from product particles automatic reverse jet filters are employed in most cases. The design of the process filter is adapted to the requirements of the application.

An almost constant and low differential pressure through the filter bags is ensured by sizing the filter correctly and by means of an automatic cleaning system which cleans only a fraction of the total filter area at the same time. Filter bags made from Polyester needle felt are standard.

However teflon coating, metal filter cart-ridges or sintered lamella filter elements might be required to achieve the purity of the exhaust gas required. A purity of the exhaust gas of 20mg/m³ is standard, 1mg/m³ can be achieved.



Type		RJF 3	RJF 6	RJF 8	RJF 10	RJF 18	RJF 24	RJF 30	RJF 45	RJF 50	RJF 70	RJF 100	RJF 125	RJF 180	RJF 240
Scale-up factor	F=ca.	0.33	0.55	0.75	1.0	1.8	2.4	3.0	4.5	5.0	7.0	10.0	12.5	18.0	24.0
Filter surface	qm	3.5	6.0	8.0	10.5	18.5	24	30	45	50	70	100	125	180	240
Compressed air	Nm ³ /h	2.4	2.5	2.6	3.0	4.6	6.8	7.0	9.5	10.2	14.5	14.0	16.5	28.0	32.5
Air flow rate, max	m ³ /h	350	600	800	1050	1850	2400	3000	4500	5000	7000	10000	12500	18000	24000

Powder Handling



High Speed Mixer

Fast mixing times and extreme homogeneous products can be achieved with high speed mixers. They are ideal for applications where watery liquids, oily substances or even melted fats need to be mixed into the product.

Bulk Material Handling

Whatever the needs are, we will pick the most appropriate equipment to handle the job. The experience from former installations helps us to avoid problems that can be foreseen. Ask our experts to assist you in your application.



Industrial Fans

In cases where process air with specified parameters is required (constant air volume, stable pressure drop curve, constant air temperature etc.) our engineers will select the most appropriate industrial fan. Frequency controlled motors, sound insulation, hand and/or remote controlled air regulating valves will be chosen as required.



Hot Air Furnace

For grinding and drying systems hot air is required. Gas or oil fired systems can be provided as part of such installations.

Product Silos

Product silos for bulk materials like granules or powders can be delivered in carbon steel, galvanized steel, stainless steel or glass fibre. Material of construction, size and dimensions of the silo will be recommended by our engineers according to your application and needs.



Packaging

For high volume commodity products, packaging in Super-Bags is common. We provide semi-automatic filling systems for Super-Bags as an integrated part of our processing systems. Where required, finished products might be discharged into mobile silo trucks or packaged into 25 kg valve bags.

The proper equipment will be selected according to your project requirements.





MICRON SYSTEME

Ultra-Fine Powder Technology

The Micron Systeme Company

“Micron Systeme” - a truly European company. Established in France in 1998, the company has grown over the years into a systems provider for the processing industries, using and handling fine and ultra-fine powders all over Europe.

A system is only as good as the service that stands behind it. Although each system is custom-designed to perform as specified, preventative maintenance and good service will keep it running for a long time. Our systems are designed to produce 24/7.

This is why we provide a service that is unparalleled in the industry.



The Micron Systeme Program

Products:

Airclassifier Mills
Whirl Mills
Turbo Mills
Jet Mills
Pin Mills
Universal Mills
Crushers
Air-Classifiers
Turbo-Classifiers
Process Filters
Jet Filters
Handling Equipment
Complete Processing Systems
Bagging Machines

Program

Design and manufacturing
Research and development
Production scale testing

System solutions for:

Micronizing
Air classifying
Air filtration
Material handling

Micron Systeme sarl.
16, Place Jaques Brel
91130 Ris Orangis
France
Phone +33 (0) 16902 7333
Fax +33 (0) 16925 8064

Micron Systeme sarl.
Wolfslochstraße 51
66482 Zweibrücken
Germany
Phone +49 (0) 6332 802 140
Fax +49 (0) 6332 802 520

Micron Systeme sarl.
36 Atlantic Way
Clifton NJ 07012
USA
Phone +1 973 471 9135
Fax +1 973 471 7152

Micron Systeme sarl.
Av. Presidente Juscelino, 11 56
09950-370 Diadema S.P.
Brasil
Phone +55 11 4075 3044
Fax +55 11 4075 4968

Your contact:

www.micron-systeme.eu

E-mail: info@micron-systeme.eu