Hosokawa Micron - A Division of Hosokawa Alpine AG is a member of the Hosokawa Micron Group, responding to global needs through emphasis on materials science and engineering. The Group is an international provider of equipment and technology for powder and particle processing, plastics processing and confectionery products. The Group maintains facilities for research, engineering, manufacturing and service in each of the world’s major industrial markets.
**The Mikro ACM Mill - An Unparalleled All-Rounder for Fine and Ultrafine Grinding**

**Design Philosophy**

The Mikro ACM classifier mill is available in four different design variants, meaning that the right mill type is available for just about every application. This extremely flexible design concept makes the Mikro ACM classifier mill an unparalleled all-rounder. The decades of further development and continuous improvement have made it possible to optimise important performance features for all the Mikro ACM mill types:

- The pneumatic product feed method ensures maximum throughput rates and facilitates a flexible configuration.
- Mikro ACM classifier mills are pressure-shock-resistant to 11 bar overpressure, thus achieving the highest possible degree of explosion protection.
- All our products are certified in accordance with ATEX to match your requirements in production.
- The tangential air inlet ensures optimum flow conditions, reduces the pressure drop of the mill and prevents product deposits underneath the grinding disc.
- Low-noise design brought about by noise control measures ensures minimum noise emission.
- With the optional air-rinsed classifying wheel gap, oversize particles are reliably prevented, especially in the case of ultrafine grinding. The extremely sharp top cut results in an optimum product quality.

**Important Features**

- Grinding and classifying with one single machine
- Compact and space-saving design
- Cool and low-intensity grinding
- Steep particle size distributions
- Exact topsize limitation
- Steplessly adjustable cut point
- Simple to clean and maintain
- High availability
- Low noise emission
- Low specific energy requirements
- Pressure-shock-resistant and wear-protected
- Suitable for impact drying

**Grinding Chamber**

The product-contact grinding chamber and the fittings comprise:

- Grinding disc
- Shroud ring
- Lining
- Classifier wheel

and are made of cast iron, mild steel or stainless steel. The surfaces can be treated and polished to match individual requirements. The grinding chamber is also available in pressure-shock-resistant design to 11 bar overpressure.

**Maintenance and Cleaning**

The compact mill design ensures excellent accessibility to the inside of the mill. The fastening system of the grinding chamber cover can be released without any trouble and, dependent on the design, the cover can be opened either manually or by means of an electric drive. This makes the cleaning and maintenance procedures necessary when the product is changed or when worn grinding elements are exchanged, etc. extremely simple. The entire rotor bearing can be removed quickly and easily after releasing the bolts in the grinding chamber housing. The availability of the Mikro ACM is particularly high as a result of this ease of cleaning and maintenance.

**Wear Protection**

An individual wear-protection concept is elaborated for every problem specification, whereby a great variety of special materials are available to choose from:

- Spherical graphite cast iron, HARDDOX®
- Hardened stainless steel, Tungsten carbide
- Cast basalt, Zirconia

**Process Technologies for Tomorrow®**
**DESIGN AND TECHNOLOGY**

The coaxial bearing unit allows both classifier and grinding disc shafts to be driven from underneath the mill, thus making a vertical product discharge possible. Depending on the application and set-up, the elimination of bends at the mill outlet is advantageous because it enables the ACM to handle products which might otherwise build up and block the discharge.

The one-piece mill housing is equipped with a cover that can be opened manually or electrically and is installed together with the two drive motors on a common base frame. The power transmission to the drive shaft is via V-belts. They are installed inside the base frame and are easy to access, making maintenance and exchange child’s play. To ensure reliable transmission of the high drive power in the case of the ACM 500 and 600, an angular gear unit with oil circulation lubrication system is used.

**FLOW SIMULATION OF AN ACM 10 CX**

**IMPORTANT FEATURES**

- Compact design
- Classifier and grinding disc drive equipped with coaxial bearing
- Tangential air inlet

**MIKRO ACM CX**

**OUR STANDARD**

**MIKRO ACM CL**

**WITH DIRECT CLASSIFIER DRIVE**

**DESIGN AND TECHNOLOGY**

The Mikro ACM CL with separate bearings for classifier and grinding disc is ideal for all those applications where the preferred configuration is a product discharge duct that is horizontal with the shortest possible connection to downstream system sections. This is advantageous, for example if regular cleaning of the product-contact system components is necessary and consequently a compact set-up with short product discharge ducts is needed. The separate bearings of the drive shafts and the associated improved heat dissipation allows service lives to be achieved which permit continuous operation even under rough conditions. The direct classifier drive via a motor mounted on the mill cover makes drive elements such as V-belts and belt pulleys superfluous. In the case of the grinding disc, however, the established bearing with belt drive is employed.

**IMPORTANT FEATURES**

- Separate bearings for classifying wheel and grinding disc with directly driven classifying wheel
- Horizontal product discharge
- Compact combination with MikroClassifier or cyclone possible
- Especially suitable for temperature-sensitive products
- Tangential air inlet

**MIKRO ACM 40 CL WITH OPEN CHAMBER COVER**

**MIKRO ACM 40 CL WITH DIRECT CLASSIFIER DRIVE**

**MIKRO ACM 40 CL**

**WITH OPEN CHAMBER COVER**

**FLOW SIMULATION**

**IMPORTANT FEATURES**

- Separate bearings for classifying wheel and grinding disc with directly driven classifying wheel
- Horizontal product discharge
- Compact combination with MikroClassifier or cyclone possible
- Especially suitable for temperature-sensitive products
- Tangential air inlet

**MIKRO ACM 60 CX WITH OPEN CHAMBER COVER**

**FLOW SIMULATION OF AN ACM 10 CX**

**IMPORTANT FEATURES**

- Compact design
- Classifier and grinding disc drive equipped with coaxial bearing
- Tangential air inlet

**MIKRO ACM CX**

**OUR STANDARD**

**MIKRO ACM CL**

**WITH DIRECT CLASSIFIER DRIVE**

**DESIGN AND TECHNOLOGY**

A special feature of the Mikro ACM classifier mill is the coaxial arrangement of the classifier and grinding disc drive shafts. The shaft bearing is equipped with a proven sealing system which prevents both product ingress and the discharge of lubricant. This guarantees a long service life and prevents product contamination. Bearings equipped with sealing air or cooling are available for special applications.

**DUCT DESIGN**

The coaxial bearing unit allows both classifier and grinding disc shafts to be driven from underneath the mill, thus making a vertical product discharge possible. Depending on the application and set-up, the elimination of bends at the mill outlet is advantageous because it enables the ACM to handle products which might otherwise build up and block the discharge.

The one-piece mill housing is equipped with a cover that can be opened manually or electrically and is installed together with the two drive motors on a common base frame. The power transmission to the drive shaft is via V-belts. They are installed inside the base frame and are easy to access, making maintenance and exchange child’s play. To ensure reliable transmission of the high drive power in the case of the ACM 500 and 600, an angular gear unit with oil circulation lubrication system is used.
THE MIKRO ACM EC (easy Clean) was developed to meet the demands for quick and easy cleaning. This is especially important for those branches of industry where the product is changed frequently or for batch production. The Mikro ACM EC is tailor-made for these applications. The mill housing is designed as a two-chamber system. Because the inside components are not welded or bolted to the housing, they can be simply removed once the grinding chamber cover has been hinged back. Dependent on the machine size, the grinding chamber is made up of several segments, thus reducing the weight of the individual elements to a maximum of 25 kg. This makes cleaning and maintenance procedures especially user-friendly, and the legal requirements regarding occupational safety are fulfilled without exception.

With the newly developed easy-clean concept, the Mikro ACM machine sizes 2 and 5 offer a high degree of user-friendliness. Reducing the cleaning effort of this mill type to an absolute minimum when changing products was one of the most important development objectives. This philosophy has also been realised with all other components of this compact mill system.

APPLICATIONS
• Production of mini batches for sampling and tests
• Determination of the setpoint and optimisation parameters for other Mikro ACM machine sizes.

IMPORTANT FEATURES
• Tailored to the production of powder coatings, pharmaceuticals and foodstuffs
• Especially suitable for frequent product changes
• 50% time savings when cleaning
• High availability
• Enormous cost savings
• Quiet in operation
• Also available in Cl design. The combination of the Mikro ACM EC with the design features of the Cl model unites all the advantages of these two mill types in one single machine.
• Tangential air inlet
• Air-cooled liner for temperature-sensitive products

DESIGN
The Mikro ACM 2/5 EC grinding system is supplied either as a compact unit or in a configuration to suit the customer’s individual requirements. With a space requirement of only 15 m², this mobile system can be set up almost anywhere where there is a mains power socket and a compressed air connection. The system comprises mill, cyclone or MikroClassifier, residual dust filter, air intake system, side-channel fan, feed metering and discharge units. The components are available in both explosion-pressure-shock-resistant design (PSR 11) or non-PSR design.

IMPORTANT FEATURES
• Easy to clean
• Easy to open
• Extremely compact
• On wheels, and thus mobile
• Throughputs up to 80 kg/h and 150 kg/h
• Quiet in operation
• Classifying wheel gap rinsing
• Operation via touch screen
Although also suitable for coarse comminution, Mikro ACM classifier mills are especially ideal for the fine and ultrafine comminution of products to a hardness of 4 on the Mohs' scale. The sophisticated overall concept with high air throughput, favourable material flow and optimised grinding chamber geometry permits the size reduction of even heat-sensitive products and those that tend to deposit and build up.

**GRINDING DISC DRIVE AND CLASSIFIER DRIVE**

Both the grinding disc drive and the classifier drive are available with speed control. The speeds and thus the particle size distribution of the end product can be adjusted steplessly during operation.

**COMPETENCE FROM A - Z**

<table>
<thead>
<tr>
<th>Product</th>
<th>Fineness 95% μm</th>
<th>Throughput kg/h ACM 10</th>
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</thead>
<tbody>
<tr>
<td>Ammonium phosphate</td>
<td>71</td>
<td>110</td>
</tr>
<tr>
<td>Bisphenol A</td>
<td>63</td>
<td>370</td>
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<tr>
<td>Calcium stearate</td>
<td>71</td>
<td>375</td>
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<tr>
<td>Dextrose</td>
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<td>9.3</td>
</tr>
<tr>
<td>E-PVC</td>
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<td>200</td>
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<tr>
<td>Fish meal</td>
<td>100</td>
<td>100</td>
</tr>
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<td>Ginger</td>
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<td>Herbicide</td>
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<td>240</td>
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<td>Iron oxide</td>
<td>5</td>
<td>60</td>
</tr>
<tr>
<td>Jellification agent</td>
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<td>170</td>
</tr>
<tr>
<td>Kaolin</td>
<td>50</td>
<td>180</td>
</tr>
<tr>
<td>Lead oxide</td>
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<td>280</td>
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<tr>
<td>Melamin resin</td>
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<td>Nickel hydroxide</td>
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<td>Organic pigments</td>
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<td>Powder Coating</td>
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<td>Quinoline dyestuff</td>
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<td>Silicagel</td>
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<td>Talcum</td>
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<td>Xanthan</td>
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<td>27</td>
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<tr>
<td>Yohimbin</td>
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<td>25</td>
</tr>
<tr>
<td>Zeolite</td>
<td>40</td>
<td>1,305</td>
</tr>
</tbody>
</table>

Prior to the planning stage, we investigate the special demands of your production sequence as well as the restrictions created by the supply network, the environmental conditions (e.g. system or control cabinet in a potentially explosive atmosphere, i.e. gas and/or dust), and then systematically convert this knowledge into a viable concept.

**CONTROL CABINET**

State of the art are PLC units operated via touch panels which are either integrated into the main cabinet or can be installed next to the operator. The control cabinets are completely wired and contain all the operating elements necessary to control the system. External units such as screening machines or parking systems can also be factored into the configuration. As a standard feature, every control cabinet is equipped with three different operating modes: automatic mode, which allows the system to be started up and shut down automatically; manual mode, which allows components to be switched on and off individually; and cleaning mode, during which for example, the flap valves automatically open and the fan runs at low power.

We offer control systems that improve the stability of the production process and make it even more independent of operator intervention.

**COMMUNICATION INTERFACES**

There are a number of different options available for communicating with higher-order process visualisation systems, for example Ethernet, TCP/IP or digital and analogue inputs and outputs.

An optional modem makes it possible for us here at HOSOKAWA MICRON to set up a connection to your production system as a point-to-point connection via the telephone network (analogue or ISDN). This method ensures that the data security and access security of your system remains uncompromised: all you need to do to effectively break any external connection with your system is to pull the telephone jack out of the socket.
HOsOKAWA MiCRON offers a complete and comprehensive engineering service. This makes things a lot easier for you, because not only do you not need to concern yourself with such elaborate tasks as project planning and design, but we also take care of the complete order processing, scheduling and deadline control. As a result of our extensive experience, the individual components can be assembled by HOsOKAWA MiCRON to form a complete package reliably and quickly. The first step is to discuss the process sequence and clarify technical details as well as establish the interfaces. The customer thereby determines the scope of delivery and services to be provided by HOsOKAWA MiCRON. for us, system engineering means the engineering, supply and performance warranty of every stage that is relevant for the grinding and classifying technology: upstream, in between and downstream of HOsOKAWA MiCRON’s well-proven units.

MIKRO ACM MACHINE SIZES

The Mikro ACM is available in 19 machine sizes with drive power values of between 3 and 450 kW. The grinding chamber and grinding elements as well as air flow rates, classifier and grinding disc speeds are exactly matched and enable a direct comparison of the entire product line. The grinding results of one mill size can thus be scaled up (or down) to the other machine sizes.

<table>
<thead>
<tr>
<th>Machine Size</th>
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<tr>
<td>Motor rotor kW</td>
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<td>5.5</td>
<td>7.5</td>
<td>11</td>
<td>15</td>
<td>18.5</td>
<td>22</td>
<td>30</td>
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<td>45</td>
<td>55</td>
<td>75</td>
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<td>160</td>
<td>250</td>
<td>315</td>
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<tr>
<td>Motor classifier kW</td>
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<td>1.1</td>
<td>2.2</td>
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<td>4</td>
<td>4</td>
<td>5.5</td>
<td>7.5</td>
<td>11</td>
<td>11</td>
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<tr>
<td>Speed h</td>
<td>1/min</td>
<td>10660</td>
<td>9400</td>
<td>6215</td>
<td>6215</td>
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<td>Mill max. kW</td>
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<td>8880</td>
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<td>6590</td>
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<td>1200</td>
<td>700</td>
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</table>

MIKRO ACM TYPES

The Mikro ACM is available in 4 different designs for almost all the machine sizes.

<table>
<thead>
<tr>
<th>ACM Typ</th>
<th>Features</th>
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<tbody>
<tr>
<td>EK</td>
<td>coxial rotor-bearing</td>
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<td>En</td>
<td>direct classifier drive</td>
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<tr>
<td>EC</td>
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<td>●</td>
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<td>●</td>
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</tr>
</tbody>
</table>

Customer satisfaction is the goal towards which we orient our entire business. We endeavour to achieve this goal on the one hand with machines and systems of the highest technical quality, and on the other hand by providing our customers with the best possible service. Our strategy is to supply our customers with grinding and classifying systems which deliver product quality to specifications. At the same time we take great pains to ensure that our systems and components are not only user-friendly, but also easy to clean and maintain. We furthermore invest a great deal in the continual improvement of our machines so that we can remain on the leading edge of technology.

DOTOMATIC PHILOSOPHY

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MIKRO ACM PRODUCT LINE

MICRO ENGİNEERİNG serviCE

HOSOKAWA MiCRON offers a complete and comprehensive engineering service. This makes things a lot easier for you, because not only do you not need to concern yourself with such elaborate tasks as project planning and design, but we also take care of the complete order processing, scheduling and deadline control. As a result of our extensive experience, the individual components can be assembled by HOsOKAWA MiCRON to form a complete package reliably and quickly. The first step is to discuss the process sequence and clarify technical details as well as establish the interfaces. The customer thereby determines the scope of delivery and services to be provided by HOsOKAWA MiCRON. for us, system engineering means the engineering, supply and performance warranty of every stage that is relevant for the grinding and classifying technology: upstream, in between and downstream of HOsOKAWA MiCRON’s well-proven units.

AFTER-SALES SERVICE

We supply complete turnkey systems to include installation, commissioning and personnel training. Our after-sales service is your guarantee of optimum service and technical support around the world, as well as the supply of spare parts throughout the entire lifetime of the system.

• Installation
• Commissioning
• Maintenance
• Upgrading
• Training

SPARE PARTS

Only the speedy supply of spare parts will ensure smooth production operations. Upon request, we will stock the necessary parts for you so that we can make an overnight delivery when necessary.

APPLICATION TESTING CENTRE

HOSOKAWA MiCRON operates an application testing centre in Cologne which is also used for customer trials. We test your products with the aim of finding the optimum operating parameters. When planning new systems, these results are used to determine the optimum system size and configuration.

FLEXIBILITY IS THE PERFECT SOLUTION FOR EVERY APPLICATION

...WE OFFER FULL SERVICE