DYNO®-MILL ECO 5  
*Horizontal agitator bead mill*

Dispersion and ultra-fine wet grinding for small-scale production practical and cost-effective
For many decades WAB has been the undisputed specialist in dispersion and milling technology with its world-renowned DYNO®-MILL. The stringent requirements placed on the finished product also demand the highest standards of quality and abrasion resistance from the mill components. WAB’s extensive mill programme enables it to supply the perfect mill for both your product and your process.

The features of the DYNO®-MILL ECO 5

- Ideal for passage mode with constant efficiency and for the attainment of the narrowest possible granulate size ranges in the micron order
- The optimum configuration for every product with an extremely wide choice of materials for components coming into contact with the product – including hardened steel, stainless steel, hard chrome plated stainless steel and polyurethane
- Maximum operating safety – the basic model already complies with CE and ATEX (II 2 G Ex IIB T3)
- Small process volume and optimum cooling characteristics with compulsory flow of the cooling water in the outer jacket enable processing of temperature-sensitive products
- Easy to use – the DYNO®-MILL ECO 5 can be taken apart in just a few steps, allowing rapid change-over to a different mill configuration
- Simple operation and easy setting of operating parameters
- Consistent milling concept enables scaling-up to all production mills in the DYNO®-MILL type KD series
- Low operating and maintenance costs

The practical small-scale production mill DYNO®-MILL ECO 5 is used for continuous dispersion and wet grinding of low to high viscosity pumpable products in the micron order.
Low operating and maintenance costs  thoroughly practical and cost-effective

The DYNO®-MILL ECO 5 is equipped with the traditional KD agitator discs. Easily interchangeable agitator discs, mounted on a shaft, transfer the energy required for dispersion and grinding to the grinding beads. An external pump feeds the product into the mill.

Grinding bead separation
The grinding beads are retained in the mill by means of a dynamic gap separator with rotor and stator of tungsten carbide. The gap width is adjusted with setting pieces corresponding to the grinding bead size. Gridding beads of different materials and sizes (0.5 – 2.5 mm) can be used.

Shaft seal
The shaft seal is achieved with the single acting mechanical seal developed by WAB. The compact design of this seal enables quick and easy replacement. The shaft seal is lubricated with a product-compatible rinsing liquid in a closed cycle.

High-speed maintenance and cleaning
The design of the DYNO®-MILL ECO 5 has been carefully thought out and can be precisely adapted to suit every user’s need. Operation, cleaning and opening-up for maintenance work are extremely easy. Cleaning is carried out with the minimum of solvent/detergent, product loss is minimal and switching to a different product very easy.

Scaling-up to production
The geometry of the grinding system corresponds to that of the production mills, with the result that the dispersion and grinding results obtained are highly reproducible on the larger DYNO®-MILL type KD mills.

An overview of the DYNO®-MILL ECO 5

<table>
<thead>
<tr>
<th>TYPE</th>
<th>GRINDING CHAMBER VOLUME</th>
<th>CAPACITY RANGE l/h</th>
<th>MILL DRIVE kW</th>
<th>COOLING WATER CONSUMPTION l/h</th>
<th>WEIGHT kg</th>
<th>DIMENSIONS L/W/H mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 5</td>
<td>5</td>
<td>20–200</td>
<td>10</td>
<td>800–1000</td>
<td>250–300</td>
<td>1001×797×654</td>
</tr>
</tbody>
</table>

Changes in design reserved. The performance data quoted is intended solely as a guide and is dependent on the product to be processed.
Top performance for your product
The best in class

- Paints and varnishes
- Printing inks
- Coatings
- Pigments and dyes
- Automobile paints
- Food industry

- Filling and coatings
- Agrochemicals
- Paper industry
- Life sciences
- Biotechnology

Test the performance of the future
Experience the future live in our technical centre. Test the DYNO®-MILL ECO 5 and see its amazing performance potential for yourself. We will be pleased to arrange an appointment for you and provide assistance with any process engineering questions.

WAB global: our service and sales network
Our worldwide network with more than 40 sales and service points is available to our customers for expert advice and efficient support. It ensures a quick response and minimum production downtime. In addition to the comprehensive stock at our head office, the subsidiaries and other sales and service points maintain well-stocked spare parts stores.

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