

BM-5

Stainless Steel Ball Mill

The stainless steel BM-5 Ball Mill is used for grinding and mixing of solid and crystalline substances. The ball mill is suitable for size reduction in both, dry and wet operation, for solids as well as for slurries.



BM-5 attached directly to UAM



Construction and Components

The BM-5 Ball Mill consists of three main parts: a double roller track drive unit on an adjustable metal support, which is attached directly to the UAM Universal Motor Drive, a stainless steel mixing drum and stainless steel (optionally porcelain) milling balls. The stainless steel drum, cover and the stainless steel (optional porcelain) milling balls are made of GMP compliant materials that may be sterilized in accordance with GMP.



Easy connection

The double roller track drive unit can be connected directly to the UAM Universal Motor Drive and has an adjustable height to be levelled at the work bench. The drum lays on a double roller track and the rotation speed can be smoothly adjusted via the UAM Universal Motor Drive. The cover of the drum is fixed by a knurled screw and a support set, which forces it against a rubber gasket creating thus an air-tight sealing mechanism.



Advantages

- » Versatile application in grinding & mixing
- » Good solution for R&D and small batch production
- » Corrosion resistant, medical & food grade contact parts

Features

- » Used for dry or wet grinding
- » GMP compliant

Standard Scope of Supply

The BM-5 (part. no. 40-01165) comes with the following standard scope of supply:

- » BM-5 L316 Stainless Steel Milling Drum (part. no. 426-1167)
- » Adjustable Metal Support with Complete Mechanism (part. no. 426-4402324)
- » L316 SS Milling Balls 35xPc. Ø 20mm (part. no. 426-1161)
- » L316 SS Milling Balls 20xPc. Ø 25mm (part. no.426-1160).

Options

- » Available optional milling balls size: Ø 10 – 50mm
- » Available optional milling balls material: L316 Stainless Steel or Porcelain

Application Specifications

Parameter	Specification
Operation principle	Tumbling milling
Process range	» Dry milling (solid/solid) » Wet milling & mixing (solid/liquid)
Feed characteristics	» Solid particles, crystalline particles, powders, pellets, slugs, tabs, tablets » Slurries and wetted powders
Range of applications	Pharmaceutical, herbal & alternative medicine, chemicals & fine chemicals, food, agriculture, cement & ceramics, cosmetics and detergents, paints & pigments

Technical Specifications

Parameter	Specification
Total capacity	5 l
Operation capacity	Up to 2 l Depends on feed properties, instrument and process parameters
Rotation speed	5-45 rpm
Instrument dimensions	Approx. 500 x 500 x 380 mm (width x depth x height)
Packaging dimensions	Approx. 600 x 620 x 480 mm (width x depth x height)
Net / Gross Weight	Approx. 48 / 50 kg

We reserve the right to make technical changes without any prior notice.