

EQM-400



Ball Mixer Mill

EQM-400 Ball Mixer Mixer



- Really quick
- Simple
- Highly convenient
- Grain sizes <math>< 10\mu</math>

- Obtain different analytical grain sizes in seconds
- Convenient and easy to use
- 5 working programs
- Admits a wide range of materials
- Quick and simple replacement of milling jars
- Convenient display

Thanks to its capacity to quickly crush, mix and homogenize small volumes of sample, the EQM-400 Mill is your great ally for the preparation of samples. This Mill has been designed for the final preparation of small volumes of hard, semi-hard and fragile samples – up to 15 g. -. It can prepare two samples simultaneously and reduce them parting from an initial size of 0.8 to 1.5 mm. until sizes of less than 10 µ in short periods of time – 1 to 4 minutes -.

Given its efficiency/price ratio, this mill is ideal for the final reduction in the sample preparation process by fusion – the use of grain sizes of 10 µ speeds up the homogenization of the sample in the flux, thus reducing noticeably the fusion times.- It is also specially recommended for preparing and mixing samples with additives for their subsequent analysis by X-Ray fluorescence.

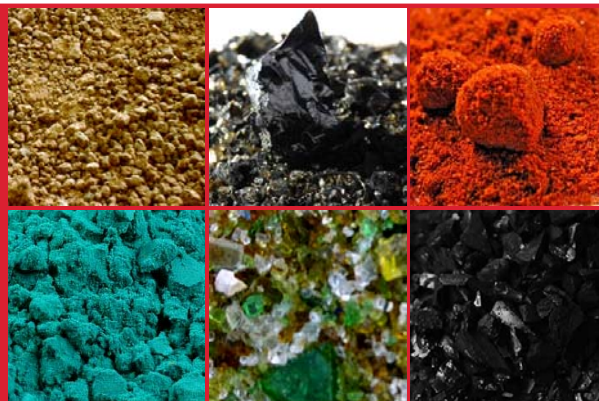
The EQM-400 Mill enables us to reduce dry samples to a final grain size of 10 µ in milling times of 1 to 4 minutes, in a compact desktop

design. Controlled by a microprocessor with 5 working programs in which you can choose – in a very convenient way, using the digital display –, independently, the speed and the time for the milling process.

The unit is composed of two sample containers, of easy and safe installation, connected to a small and powerful engine. A series of linkages allow for the power of the engine to be transferred to the containers in an oscillating arch trajectory. The milling, mixing and homogenizing happens in the containers, where the sample collides heavily against the milling balls.

Applications:

glass, earth, slag, coal, clinker, bones, coke, metallic oxides, ferroalloys, plastic, cement, ceramic materials, wood, minerals, silicates, electronic waste, chemical products, tobacco, cereals, geological and mineralogical samples.



Easy to use. The sample is placed inside the milling jar together with one or several balls depending on the sample type, initial size and target grain size. First the speed and time for the milling – between 100 and 2000 shakes per minute – is selected, then press «START». The oscillating motion of the jars causes the balls inside to move by inertia, colliding against one another and the walls of the jar, crushing, milling and mixing whatever they find in their way.

Technical specifications:

Method:	crushing, milling, friction, mixing and homogeneization
Applications:	hard, semi-hard and fragile materials such as coal, coke, slag, glass, minerals, earth, ceramics, silica, bones, plastic, wood, electronic waste, chemical products, tobacco, cereals, etc.
Programs:	five independent programs Speed: 100 to 2000 shakes/minute Time: 0 to 99 minutes
Power:	150 W
Engine:	220V – 150W
Power Source:	220V – 100W
Accessories:	50 ml and 25 ml jars CW balls: diam. 10 mm. / 15 mm. / 20 mm. / 25 mm.
Dimensions:	24 cm. (height) x 31.5 cm. (width) x 35 cm. (depth) Approx weight: 13kg

Jars and balls:

Jars	Initial Size	Recommended balls			
		10mm	15mm	20mm	25mm
25ml	25ml	2 to 4	2 to 4	1 to 2	-
50ml	50ml	6 to 8	4 to 6	1 to 2	1

Hardened steel jars ~ 63RC and Tungsten Carbide balls (WC).

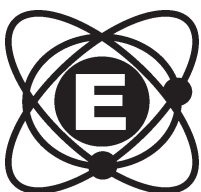


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Equilab, S.A.

Avda. Camino de lo Cortao, 21 - Nave 6
28703 - San Sebastián de los Reyes - Madrid
Tel.: 91 661 00 22 / Fax: 91 661 81 46
www.equilab.es
Atención al cliente: equilab@equilab.es



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