EQM-402

Mixer Mill

EQM-402 **Ball Mixer Mill**

The EQM-402 Ball Mixer Mill is your great ally for the preparation of samples for analysis, as it can crush, mix and homogenize small volumes of sample in very short time. It has been specially designed for the final preparation of hard, semi-hard and fragile samples – up to 50 ml. -. The mill can process two samples simultaneously and can reduce them, parting from an initial gran size of 0.8 to 1.5 mm., to sizes of less than 10µ, in practically no time – 1 to 4 minutes -.

The excellent efficiency-time ratio of this unit makes it the ideal help for the final reduction of grain size to prepare samples for fusion processes – using grains of less than 10µ speeds up the homogenization of the sample with the flux, shortening the fusion times noticeably -. It is also specially recommended for preparing and mixing samples with binding agents in order to make disks/pellets by pressure, for analyzing those later under X-Ray.

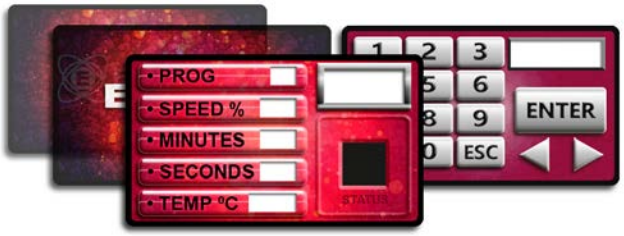
The **EQM-402 Mixer Mill** allows us to reduce samples in dry to a final grain size of 10µ in 1 to 4 minutes milling times, just with a desktop unit. Simple to manage thanks to a visual software and a touchscreen from which you can control the microprocessor, that stores 5 working programs whose parameters can be reset at wish, such as the speed and milling time.

The unit has got two sample containers, easy and safe to fix, connected to a powerful engine. A series of hinges transfer the power of the engine to the milling jars, in order to produce a strong agitation. Within the jars, the sample collides heavily against the milling balls, of different diameters.

Very easy to use. The sample is placed in the milling jars together with several balls, depending on the type and initial size of the sample and the final grain size sought. Then select a program and press “start”. The oscillating movement of the jars causes the impact of the balls with the sample, crushing, milling and mixing all within. The combination of balls of different diameters lets you achieve different final grain sizes, according to your milling needs.

- **Obtain different analytical grain sizes in seconds.**
- **User friendly**
- **Takes a wide range of materials**
- **5 working programs**
- **Simple and quick replacement of milling jars**
- **Comfortable visual software controlled by a touchscreen**

• *Different editable menus via the touchscreen*



Aplications:
glass, earths, slags, coal, clinker, bones, coke, metallic oxides, ferroalloys, plastics, cement, ceramic materials, wood, minerals, silicates, electronic waste, chemical products, tobacco, cereals, geological and mineralogical samples

Front view of the mill
with the cover up.

View of the milling jars with
their fixing system and easy opening

Technical specifications:

Method:	crushing, milling, friction, mixing and homogenization
Applications:	hard, semi hard and fragile materials, such as coal, coke, glass, slags, minerals, earths, ceramics, silica, bones, plastic, wood, electronic waste, chemical products, tobacco, cereals, etc.
Programs:	five independent working programs speed %: 5 to 100 minutes: 0 to 59 seconds: 0 to 59 temperature in the engine ºC: 60ºC maximum
Power:	150W
Engine:	220V – 100W
Power source:	220V – 150W
Safety:	detection system of the working process built in the door
Accessories:	stainless steel jars of 50 ml. CW balls: Ø 10mm / Ø 15mm / Ø 20mm / Ø 25mm
Dimensions: Approx. weight:	31 cm. (height) x 36.5 cm. (width) x 47 cm. (depth) 25 kg.

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