



# Laboratory Ring Mill Model LM2

**Vibratory mill for rapidly preparing up to 1.8kg of ore for mineral for analysis (with the extra power of a 2.2kW shaft drive)**



The vibratory head of the model LM2 is driven by a universal shaft powered by vee-belts from a standard, stationary (non-vibrating) 2.2kW electric motor. This drive arrangement delivers more power to the grinding bowl and optimises motor life (because it is not exposed to direct vibration as happens in traditional integral vibratory motor driven mills). The mill also differs from traditional integral vibratory motor driven mills). The mill also differs from traditional mills because of it's ability to be fitted with a unique 800cc, 1000cc or 2000cc single puck type grinding bowl in addition to any standard size of ring and roller grinding bowl.

The LM2 mill is used for pulverising ores, minerals, metallurgical samples, ceramics, soils, aggregates, chemicals and similar particulate. Typically, samples can be ground to 95% minus 75 micron in approximately 3 minutes depending upon their mass and physical characteristics.

The model LM2 is well suited to high volume mineral laboratories regularly preparing large samples in the unique Essa single puck style of bowl or to any laboratory remote from the specialised repair services typically required for integral vibratory motor driven mills.

## Standard Features:

- Pneumatic bowl clamping
- 2.2kW stationary electric motor drive
- 415 Volt, 50hz, 3 phase power
- Good looking, easy to clean fibreglass cabinet with sound reducing foam lining
- External control box with start & stop push button, motor overload protection, electronic run cycle timer and pneumatic failure protection
- Lid safety switch de-energises mill when cabinet lid opened
- Integrated Emergency Stop button

## Options:

- Wide choice of bowls
- Other power supply connections
- MillMate™ pneumatic lifting device for “weightless” handling of the heavier bowls
- Separate floor mounted stand for control box

## Technical Data

Power requirement	415 Volt, 50hz, 3 phase is standard but a full range of 3 phase power requirements available
Clean, dry air service required for pneumatic bowl clamping	450 to 600 Kpa (65 to 90 psi): 1 litre per minute maximum flow
Space required (approx. only - with lid closed)	Standard machine: 720 mm wide x 600 mm deep footprint x 1000 mm high With optional MillMate™: 860 mm wide x 630 mm deep footprint x 1500 mm high
Shipping Mass	280 kg (350 kg with optional MillMate™)



[www.essa.com.au](http://www.essa.com.au)

Essa Australia Limited, PO Box 362, Belmont, WA 6984 AUSTRALIA

phone +61 8 9475 3000 fax +61 8 9477 3544 email mail@essa.com.au