

POWTEQ PRODUCTS

Please keep contact with POWTEQ if you have any further questions.



Cryo Grinder LM200



Micro Ball Mill GT300



Planetary Ball Mill BM40



Planetary Ball Mill BM6Pro



Mortar Grinder MG200



Twister TW100



Multi-functional Mill CM100M



Portable Cutting Mill CM50



Cutting Mill CM200



Ultra Centrifugal Mill FM200



Knife Mill HM100



Knife Mill HM300



Jaw Crusher JC5



Jaw Crusher JC6



Disc Mill DP100



Vibratory Disc Mill VM3



Sample Divider SD200



Vibratory Sieve Shaker SS2000



3D Mixer M10



Smart Graphite Digester

* Technical improvements will be made without prior notice
* The warranty period of the hosts is two years

Company Headquarter

Address: Rm 513, Bldg 2#, Taihua longqi Plaza, No.19
Huangping Road, Huilongguan, Changping District, Beijing
Tel: +86 (0) 10-82363427
E-mail: oversea.sale@powteq.cn
Website: www.powteq.com

POWTEQ KOREA

Tel: +82-42-825-2689
Fax: +82-42-367-3993
E-mail: sales@powteq-korea.com

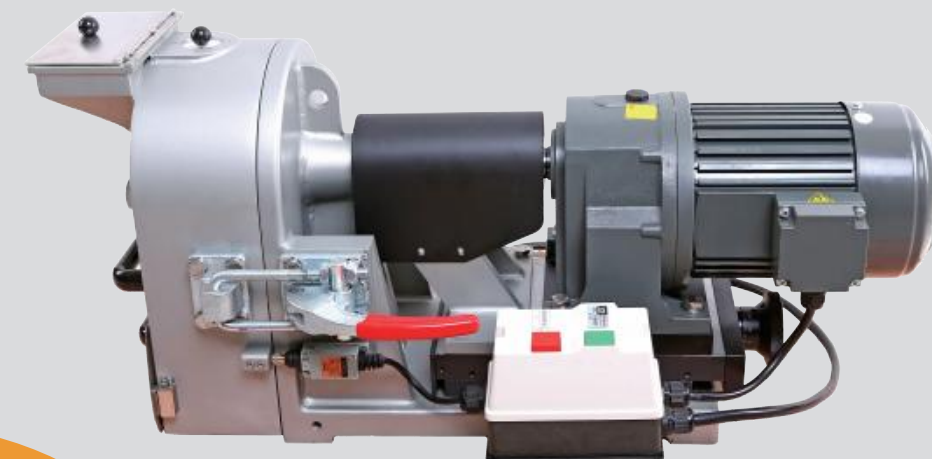
Orbiting Scientific & Technology Sdn Bhd (Malaysia)

Tel: +603-9058 6581
Fax: +603-9058 1373
E-mail: enquiry@orbitingscientific.com

Vilitek LLC (Russia)

Tel: +7 495 545-07-08(105)
Fax: +7 495 221-05-76
E-mail: office@vilitek.ru

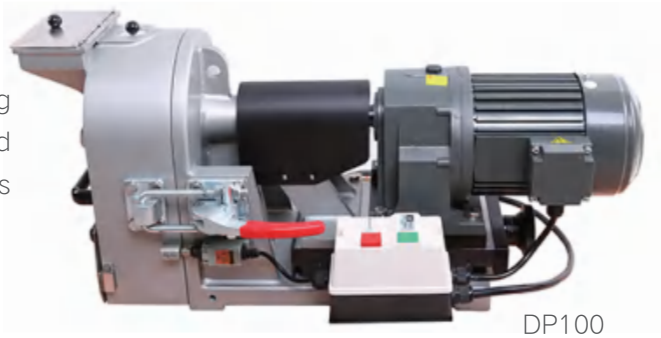
POWTEQ®



Disc Mill **DP100**

◇ Disc Mill DP100

DP100 is firm and durable, applicable to pre-grinding and fine grinding for medium hard, hard and brittle solid materials. It can grind samples into 100μm particles very quickly.



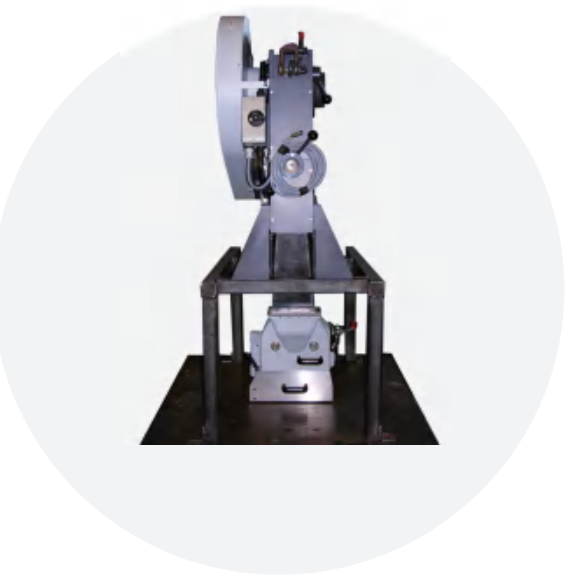
○ Applications

Concrete, building debris, granite, basalt, silicate, gypsum, dry soil samples, depositional sludge, quartz, coal, coke, lime mud, refractory clay, glass and ceramics for dentistry and so on.



○ Working principle

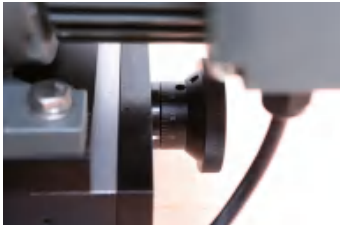
The samples are grinded via the pressure and frictional force generated between a rotating disc and another fixed disc. After the sample enters into grinding chamber, the progressively arranged teeth of the grinding disc first subject the sample to preliminary crushing, centrifugal force then moves it to the outer regions of the grinding discs where fine grinding takes place. The ground sample falls into the sample receiver via the gap of the grinding discs.



You can use a frame to combine the disc mill DP100 and jaw crusher JC5 to realize one-step milling from 90mm-100μm, which can greatly improve the efficiency.

◇ Features and advantages

- Simple operation, easy cleaning.
- The sample feed size up to 20mm.
- Large processing capacity of samples.
- The gap of grinding discs can be adjusted continuously.
- Efficient sample treatment, extreme size reduction can be reached in a short time.
- Grinding discs made of various materials are available for selection and wear-resistant.
- Dust discharge connector design can prevent sample powders from polluting environment.



○ Information on material of grinding discs

Material	Main components	Wear-resisting property	Sample characteristic
Hardened steel	Cr,Fe	good	Hard, brittle
Manganese steel	Mn,Fe	good	Extremely hard, brittle
Tungsten carbide	WC 96%,Co4%	Extremely good	Extremely hard, easy to grind samples
Zirconium oxide	ZrO ₂ 99%	good	Medium-hard,brittle,heavy-metal -free
Heavy-metal free steel	Cr,Fe	good	hard,brittle

*Two grinding discs shall be made of the same material and their hardness must be higher than the grinded samples. In addition, the cross contamination between the disc material and the elements to be tested shall be considered.

○ Technical data

Feed size	< 20mm
Final fineness	< 100μm
Speed	470rpm
The gap setting	0.1~5mm
Collector capacity	2.5L
Rated power	1.5KW
Power supply	380V , 50/60Hz
Instrument size	410*880*420mm
Package size	600*1160*625mm
Net weight	136kg

