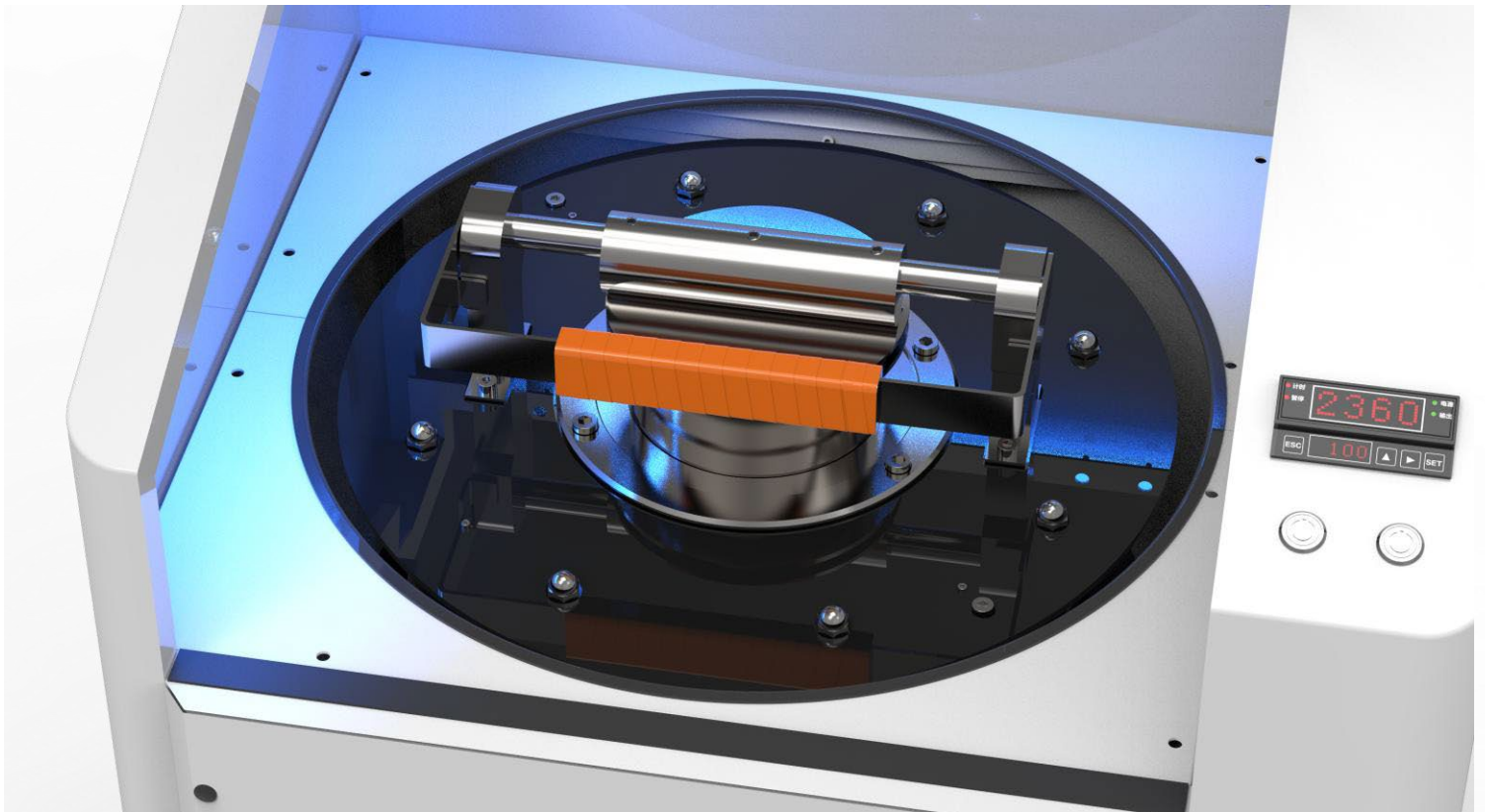


VIBRATORY DISC MILL

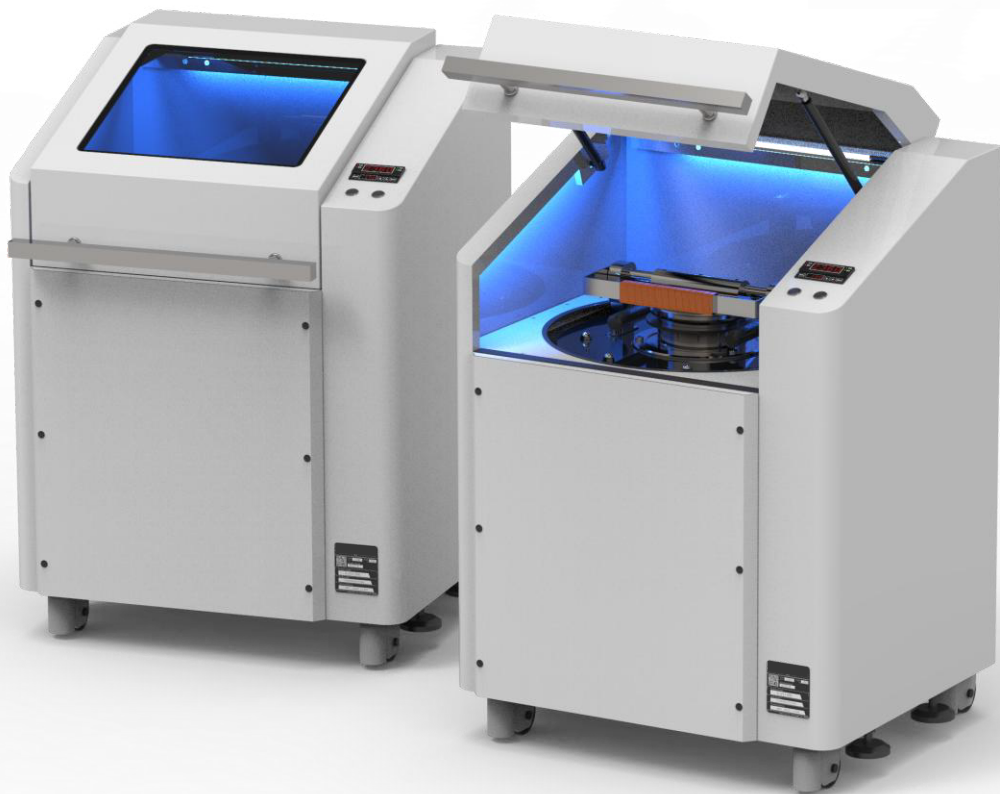
F-VD300 / F-VD600



PRODUCT INTRODUCTION

The Vibratory Disc Mill is suitable for the extremely quick, loss-free and fine grinding of medium-hard, hard, brittle, fibrous, and elastic materials with larger particle sizes to analytical fineness and purity. Dry grinding, wet grinding, cryogenic grinding, vacuum or inert gas protection grinding can be carried out.

The sample loaded into the grinding disc set is squeezed, collided and rubbed under the action of high-speed circular motion. The particle size change of the sample from 15 mm to 20 microns can be completed in 3-5 minutes, and the purity of the sample can be fully guaranteed.





Vibratory disc (cup) mills work by using the squeezing, impacting and frictional forces generated in motion. Grinding kits are fastened to the vibrating base plate by means of quick locking devices. The vibrating base plate and grinding kit make a circular vibratory motion on a horizontal plane. The abrasive elements in the grinding cup generate considerable pressure, impact and friction on the abrasive through this vibratory motion, thereby achieving fineness requirements within 1 to 3 minutes. A safety lock is designed in the closed and soundproof grinding chamber, which can only be opened when the instrument is in a stationary state.

PARAMETER

Name	Vibratory Disc Mill	
Model	F-VD300	F-VD600
Working principle	Pressure, friction	
Feed material	Medium-hard, hard, brittle, fibrous	
Applications	Size reduction, trituration	
Material feed size	< 15 mm	
Final fineness	< 20 um	
Batch size / feed quantity	15- 250 ml	15-500 ml
Grinding disc speed	1500 r/min	
Vacuum/Inert Protection	Yes	
Motion mode	Circular motion	
main functions	Continuous and intermittent operation, emergency stop, timing, power failure memory, overload and dangerous operation protection	
Additional function	LED Lighting, Observation Windows	
Setting of grinding time	9999min	
Number of grinding discs	1	
Volume of grinding discs	50 ml/100ml/250ml	100 ml/250ml/500ml
Material of grinding discs	Tungsten carbide / zirconia / agate / stainless steel and other materials are available.	
Grinding method	Dry grinding/wet grinding	
Power	380V,50-60Hz,1.5KW	
Power port	Chinese Standard/European Standard/British Standard/American Standard, etc.	
Net weight	218 kg	
Dimensions (W*D*H)	780*650*1080mm	
Protection code	IP65	
Standards	CE	
Configuration can be added	Low temperature liquid nitrogen cooling/touch operating system	





Main accessories

√: Available
×: Not available

		Materials	Type	50ml	100ml	250ml
F-VD300 Grinding Disc Kit (with Ring and Hammer) Recommended standard configuration volume: 250ml	Tungsten Carbide		Standard type	√	√	√
			Vacuum type	√	√	√
	Zirconia		Standard type	√	√	√
			Vacuum type	√	√	√
	Agate		Standard type	√	√	√
			Vacuum type	√	√	√
	Stainless steel		Standard type	√	√	√
			Vacuum type	√	√	√
	Stainless steel		Standard type	√	√	√
			Vacuum type	√	√	√

		Materials	Type	100ml	250ml	500ml
F-VD600 Grinding Disc Kit (with Ring and Hammer) Recommended standard configuration volume: 500ml	Tungsten Carbide		Standard type	√	√	√
			Vacuum type	√	√	√
	Zirconia		Standard type	√	√	√
			Vacuum type	√	√	√
	Agate		Standard type	√	√	√
			Vacuum type	√	√	√
	Stainless steel		Standard type	√	√	√
			Vacuum type	√	√	√
	Stainless steel		Standard type	√	√	√
			Vacuum type	√	√	√

The consumable accessories of planetary ball mill are ball mill jar and grinding ball. Ball mill jars with different volumes and materials can be selected, and the grinding balls also provide a variety of different material options.