

MICRONET

MICRO-BALL DISCONTINUOUS MILL

MICRONET microballs mills are machines for high vacuum milling from 10 to 0 microns (refining) for all of those composites normally produced by the cosmetic and pharmaceutical industry, even with a high pigments concentration. They guarantee a fast and effective refining with the possibility of preparing the mixture in the milling chamber.



ADVANTAGES

- Original design allows two-in-one dispersion and grinding process
- Simultaneous mixing and milling in the same cylinder
- Possibility of preparing the mixture in the milling chamber
- Exceptional refining degree and homogeneity up to zero residue
- Quick and easy washing
- Easy replacment of parts subject to wear

TECHNICAL FEATURES

- Metal supporting structure with anti-vibration reinforcements
- Direct or V-belt transmission with increased performance
- AISI 304 stainless steel structure
- High thickness lid with total or partial opening and upper bleed valve
- Conical or cylindrical upper mixing chamber in polished AISI 304 stainless steel for quick washing
- AISI 304 stainless steel Cowles type toothed impeller located in the mixing chamber
- AISI 304 stainless steel Turbo type toothed impeller with internal blades located in the mixing chamber
- External wall equipped with cavities for cooling through forced circulation of water
- AISI 304 stainless steel or wear-resistant milling chamber and moving parts
- Highly wear-resistant special steel grinding chamber bottom
- Micro-balls discharge cap and product discharge valve mounted on the bottom of the cylinder
- Work cycle timer
- Electronic speed variation with inverter
- Also available in ATEX version

ACCESSORIES

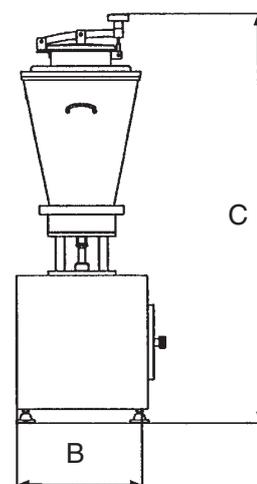
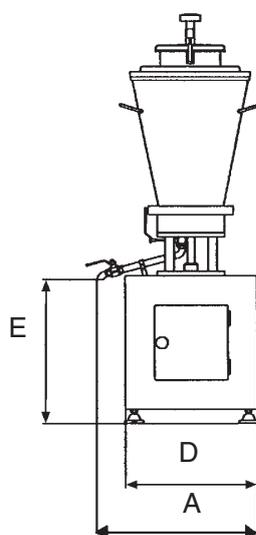
- Mirror polished outer surface
- Electrical cover lifting device
- Lateral piston valve for loading powders
- AISI 304 stainless steel funnel for loading additives
- Vacuum pump
- Tubular steel structure with inspection gallery

OPERATING PRINCIPLE

The product being mixed in the upper chamber (1) is sucked and pushed into the bottom refining chamber (2) in which a charge of moving micro-balls micronizes it. The product re-circulates continuously between the two chambers for the necessary time for the particles to come into contact with the micro-balls and therefore reach the grade of fineness required. Each machine is equipped with a timing system which, having been previously set, determines the duration of each refining process. The reproducibility of the formulations is guaranteed by the continuous rotation of the product.



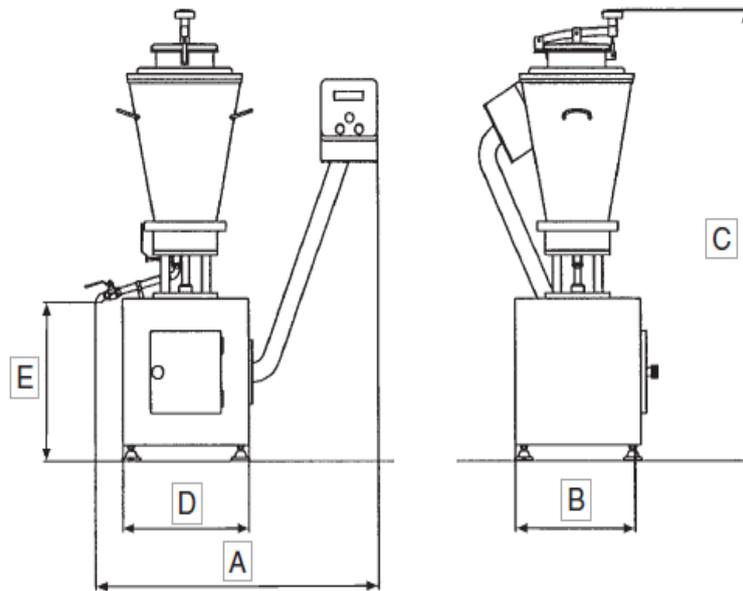
TECHNICAL DATA



Model	Milling engine power (Hp)	Maximum volume (lt)	Minimum useful volume (lt)	Maximum useful volume (lt)	Microballs charge volume (lt)	Machine dimensions (mm)				
						A	B	C	D	E
MCOSM 1	1.5	1	0.3	0.8	0.2	370	720	530	-	-
MCOSM 8	4	8	3	6	1.5	580	450	1140	450	495

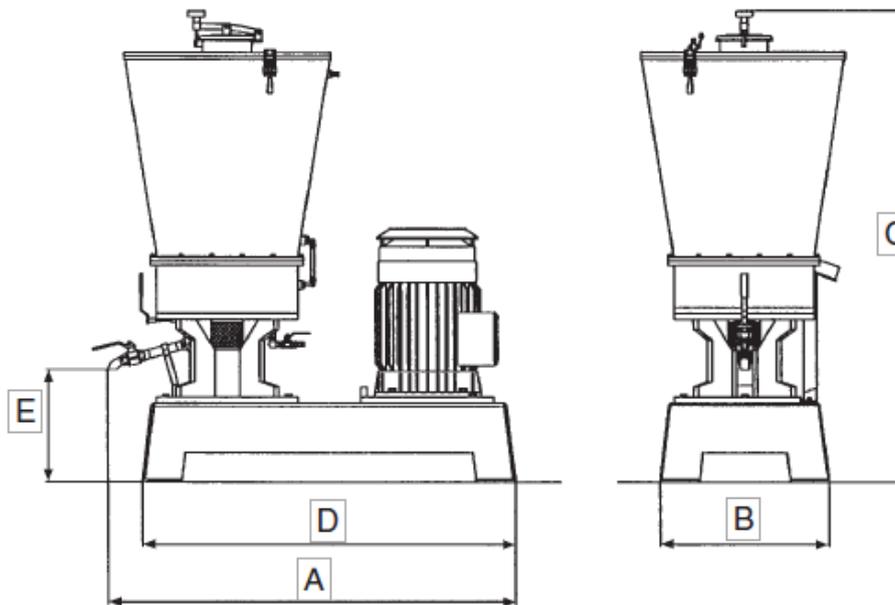
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MCOSM 25	5.5	25	3	22	1.5	910	450	1300	450	495
MCOSM 50	15	50	15	45	45	1240	500	1400	1100	340
MCOSM 100	15	100	15	90	90	1340	500	1720	1400	430
MCOSM 250	25	250	30	220	220	1540	640	1990	1400	430
MCOSM 500	50	500	100	90	450	1340	500	2265	1810	485

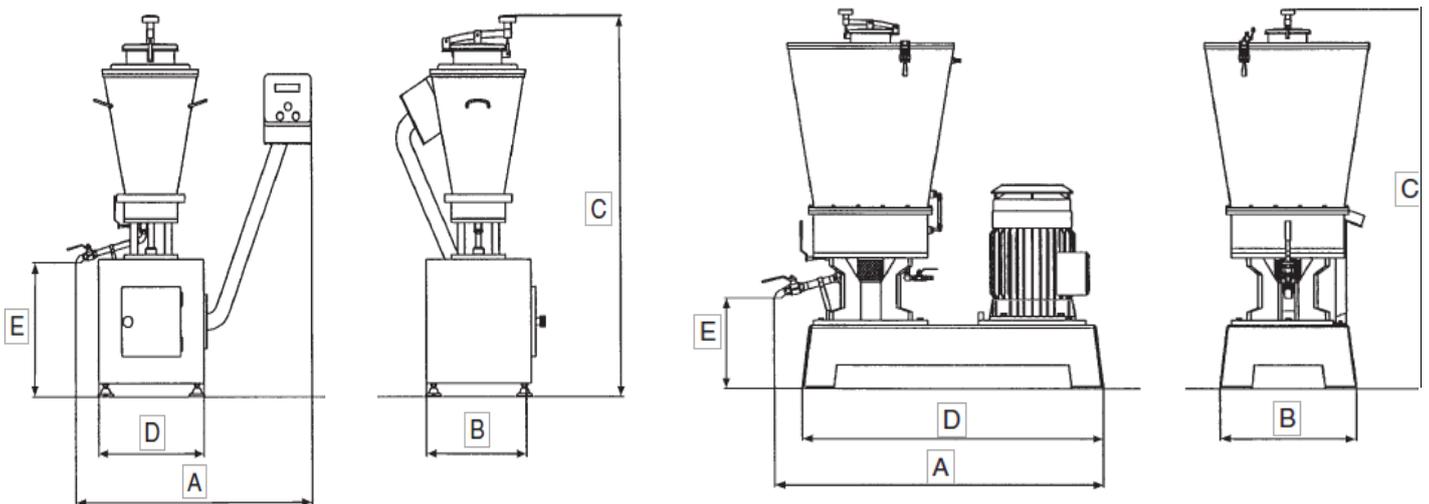
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MICRONET TECHNOLOGY FOR COSMETICS

Dedicated equipment is suitable for many applications for a stable dispersion of oils into water, for adding pigments and glues and for mixing colorants into products including small batch products like nail lacquers.

Over the years, we have concentrated our efforts on developing and continuously improving a must-have for cosmetic products manufacturers: **Micronet**.

An important process step in the manufacture of cosmetic products is mixing and dispersing: the development of Micronet technology has created the ability to disperse and mill at the same time, leading to a reduction of the cycle and halting cleaning operations, without giving up to a fast and effective refining. The most significant benefits can be measured in a reduction of downtime and increase in productivity.



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