



V VIBROMAC
Technology Solutions

BASKET MILL FOR BATCH GRINDING IN LIQUID PHASE SUBMILL®

Industrial varnishes, car finishing, wood varnishes, coil coating, coloured pastes and concentrated pastes for tinting systems

Flexographic inks, inks for rotogravures, UV, ceramics, for digital printing and magnetic inks

Dyes for textiles and tanning pigments

Agrochemical products

Food industry:
chocolate, spreads, and ice cream mixes

Beauty industry:
lipsticks, foundation creams, nail polishes



ADVANTAGES OF SUBMILL®

- 1 Grinding under hermetically sealed conditions and/or under vacuum
- 2 Grinding with maximum colorimetric fidelity of the pigment and brilliance
- 3 Very narrow particle size spectrum without clumps
- 4 Replicability of results
- 5 Double cooling circuit to ensure maintenance of the desired temperature
- 6 Grinding micro-elements with high specific weight and high resistance to wear
- 7 Unlike all traditional mills, it does not require painstaking predispersion
- 8 Single vessel for dispersion and grinding
- 9 Easy to clean and to maintain

THE SUBMILL®

The SUBMILL® makes it possible to achieve a batch production in an automated continuous process and as a sealed unit.

Unlike traditional mills, discontinuous production in a continuous process provides several benefits, including the constant monitoring of the output quality, the uniformity of the final product, as well as the ability to intervene on each individual batch thus maximizing output.

The SUBMILL® is equipped with PLC for the setting of operational parameters.

GRINDING

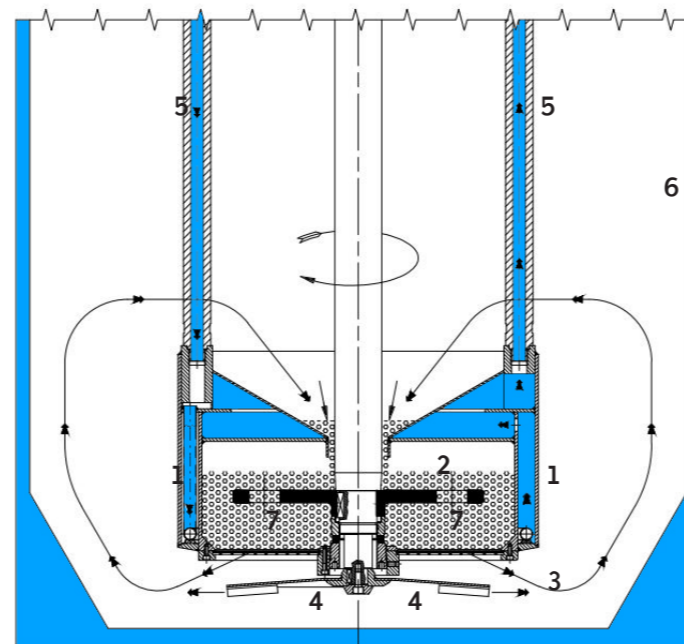
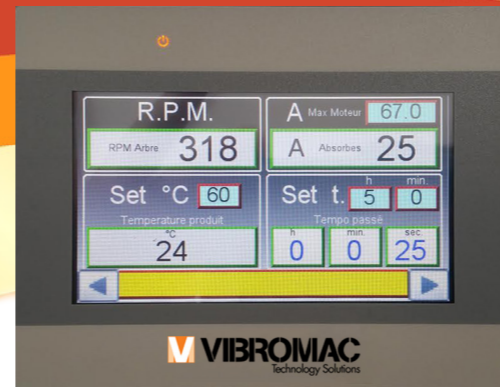
The recirculation of the product, generated by an impeller located beneath the grinding chamber, creates an upward flow along the basket's walls.

The product is continuously sucked into and expelled out of the grinding chamber housing the grinding beads that are set into motion at a pre-set speed by an impeller; the product is then gradually milled.

Milling times for most processes are shorter than with continuous mills in the various application fields.

At the end of the process, the particle size spectrum is very narrow and free of clumps.

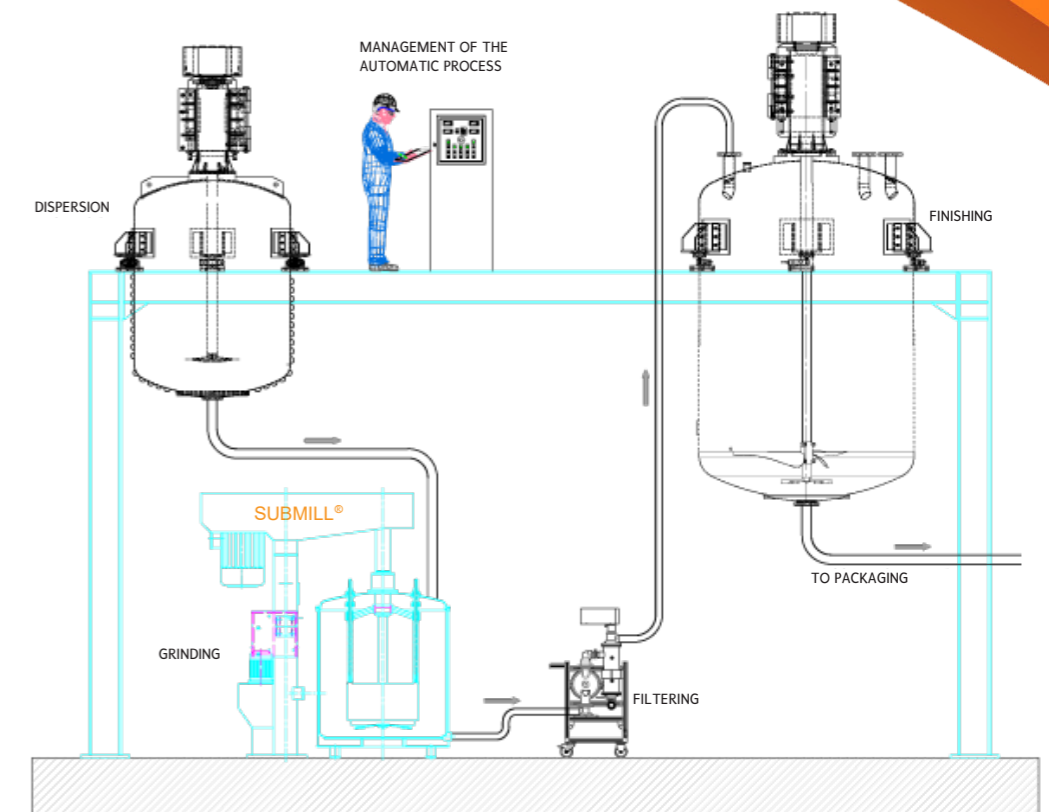
The mirror-polished grinding chamber is fitted with a jacket for the circulation of the liquid used to cool or warm up the product to be ground.



Legend

1. Grinding chamber
2. Grinding impeller
3. Separation filter
4. Bottom impeller
5. Cooling/warming circuit
6. Grinding pan
7. Grinding beads

CONTINUOUS AUTOMATIC



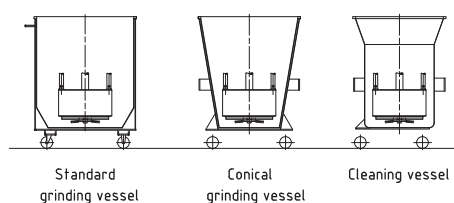
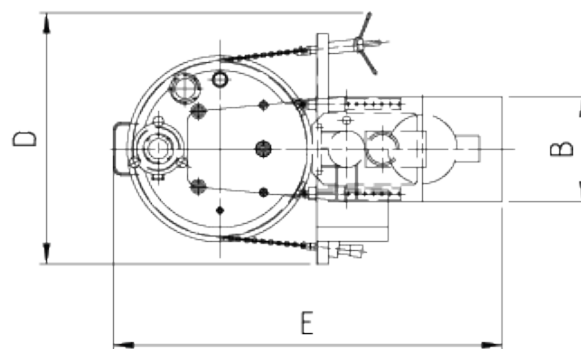
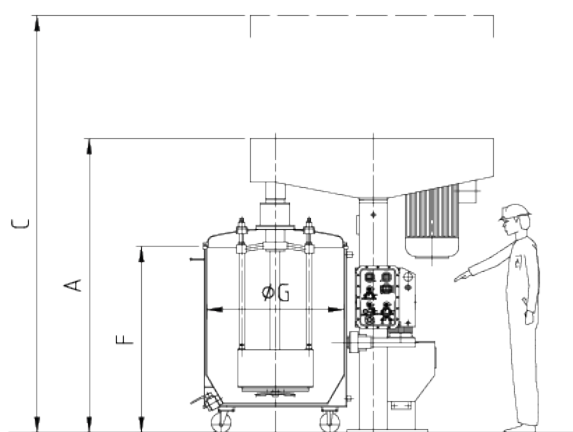
TECHNICAL SPECIFICATIONS

ITEMS AND TECHNICAL DATA

	SMPILLOT	SM10	SM20	SM30	SM50	SM75	SM100
HORSE POWER HP	3	10	20	30	50	75	100
STANDARD VESSEL (lt) MIN/MAX CAPACITY	5,5/12,5	35/85	140/240	200/400	330/800	730/1350	730/1350
REDUCED VESSEL (lt) MIN/MAX CAPACITY	2,5/6	25/65	80/145	110/220	170/340	250/620	250/620

WEIGHTS AND SIZES

WEIGHT (KG)	240	700	700	1300	2000	2500	2500
A (mm)	1825	1990	1680	2000	2250	2720	2720
B (mm)	610	440	440	520	620	620	620
C (mm)	2275	2990	2480	3100	3550	4220	4220
D (mm)	890	1500	1500	1500	1500	1500	1500
E (mm)	700	1880	1750	2090	2400	2600	2600
F (mm)	354	850	923	1156	1426	1530	1530



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