



process technology

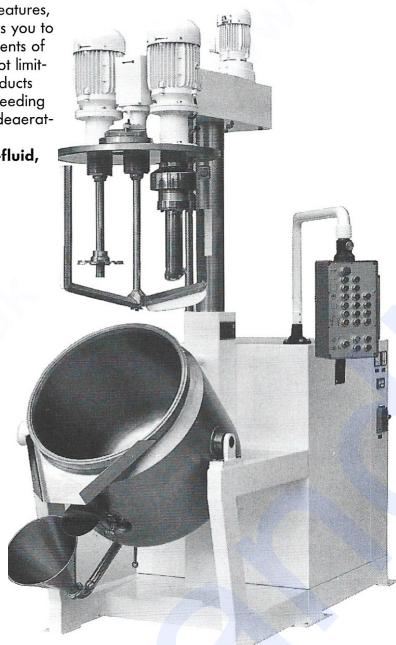
Processing Plant VME 400



Applications and uses of the Processing Plant VME

The ingenious combination of the colloid mill, the dissolver and the scraper-stirrer gives you a unique three-way mixing action. This basic conception together with the many optional features, the carefully selected controls and instrumentation allows you to adapt the FRYMA Processing Plant VME to the requirements of every product and process. Therefore, this machine is not limited to making emulsions, suspensions, homogeneous products etc., but covers the whole manufacturing process from feeding or metering of the various components to the finished, deaerated product ready for filling.

The model VME covers all processes of fluid, semi-fluid, viscous and pasty products.



The throughput of the built-in colloid mill (examples) (approx. figures in litres per minute)

	liquid up to approx. 1000 cP	semi-liquid to viscous 1000-30 000 cP	pasty, highly viscous > 30 000 cP
VME-400	120	45	25

Toothed colloid mill

The toothed colloid mill is the reason why the processing plant VME can

■ really grind and completely disperse active substances, pigments, fillers etc.

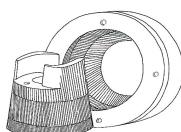
■ reduce the current production times by 30-70%.

The over-sized capacity of the toothed colloid mill is the main reason for the extremely short production times of the processing plant VME (see Fig. 2, item F).

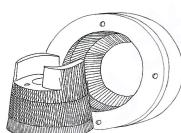
The capacity of the toothed colloid mill is sufficient even for highly viscous products, such as toothpaste, to obtain the required fineness and desired degree of dispersion in the shortest possible time (see Table 3).

The grinding gap can be infinitely varied by a handwheel even during operation.

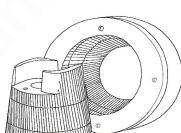
The toothed colloid mill model MZ is also available as a separate unit (with feed hopper or as an in-line mill). Ask for special bulletin ZA 1005.



normal-toothed grinding set as a standard multi-purpose fitting



crosswise-toothed grinding set for higher grinding and dispersing requirements



coarse-toothed grinding set for grinding large solids in suspensions

Technical Data

This table lists the most important technical data. All the elements marked with ■ are included in the standard machine, without extra charge.

□ means optional (normally supplied at extra charge), - means not available.

Technical modifications reserved.

	VME-	400
Vessel with lid	■	
tiltable	■	
interchangeable (*also mobile)	□*	
useful volume	400	
useful volume for strongly foaming products	300	
minimum useful volume	105	
total volume (when the vessel is closed)	480	
jacket	■	
illuminated sight glass with wiper	■	
inlet pipe with hopper and valve	■	
outlet valve	■	
Scraper-stirrer	■	
kW	1,5	
r.p.m.	20	
Colloid mill	■	
adjustable grinding gap	kW	5,5
	r.p.m.	3000
Dearation system	■	
vacuum pump including electrical control	■	
vacuum regulation valve	■	
automatic aeration of the vessel (when the lid is opened)	■	
vacuum gauge	■	
Hydraulic system	■	
for lifting and lowering the lid	■	
for tilting the vessel (*hand-operated)	■	
Miscellaneous	■	
Quality of the material:		
stainless steel AISI 304 (1.4301)	■	
automatic temperature control	■	
length	cm	274
width	cm	139
height	cm	198
height with lid open	cm	309
net weight	kg	2200
floor load	kg/m ²	500



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Fryma
VME-400

Alle mål i mm.
All measures in mm.

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