

## FrymaKoruma VME

Where efficiency meets production



## VME

The efficient and reliable FrymaKoruma vacuum-mixing-unit VME adapts to any product and work process thanks to an ingenious combination of working tools and the number of available auxiliary systems as well as its control and monitoring facilities. Its application is therefore not limited to the area of emulsions, suspensions, homogenates, etc. but comprises the entire manufacturing process of a product from the filling of individual raw material components to the deaerated, ready-to-fill final product.

### How it works

The vacuum feed allows the speedy suction of large volumes of powder and liquids. The MZ toothed colloid mill protruding into the container is the workhorse of the grinding machines and allows effective grinding. For dispersing and emulsifying, the effect is to shorten the duration of the process.

A dissolver supports the MZ in processing large volumes of powder, and the opposing scraper agitator leads to the steady circulation of the entire product batch and to an efficient heating and cooling process. As the mixing elements are installed from above, there are no seals in the product area. This design is therefore ideally suited to sterilization processes. There are also various work tools available (helical mixer, turbo homogenizer, jet stream mixer) which can be selected to meet the customer's requirements.

- Standard Dissolver  
For processes with shear energy  
Suitable for highly viscous products
- Double-dissolver  
For processes with even more shear energy
- Sinus mixer  
For processes without shear energy
- Propeller agitator  
For easy mixing of liquids



- 1 Powder intake
- 2 Liquid intake
- 3 Small dosage intake
- 4 Scraper agitator
- 5 Dissolver
- 6 Toothed colloid mill

## Applications

Tooth paste

Soup concentrates

Lotions and pastes

Soaps

Suppositories

Sealants

Creams

Eye-liner and lipstick masses

## Options

Thanks to modular upgrade the FrymaKoruma VME can be customized to meet your specific needs:

- Different working tools
- Tilttable container
- Shaft sealing ring or mechanical seal design
- 3 automation levels and additional modules

- Weighing cells and dosing system
- Qualification
- ATEX/US-EX designs
- Sterile designs
- Further options on request





## Key benefits

Significant short batch times due to

- efficient disperser with controlled shear energy
- thin-layer deaeration system

Consistently high product quality through

- outstanding temperature control
- perfect monitoring of the size of particles and drops
- highly effective product deaeration

Genuine grinding thanks to

- built-in toothed colloid mill

High reproducibility through

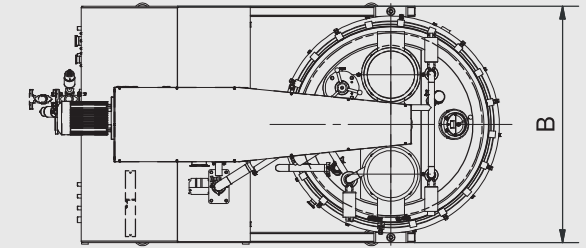
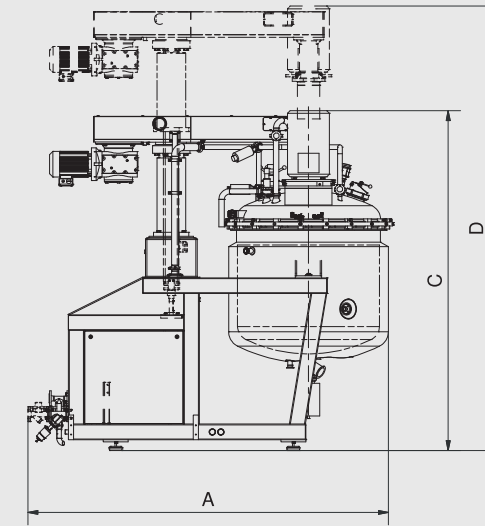
- automated cleaning (CIP)
- production recipe driven

High flexibility due to

- working tools individually selectable
- different batch sizes

Low service effort

- all wearing parts are readily accessible
- no seals in the product area



	Usable volume (l) min. / max.	Installed power (kW), approx.	Dimensions (mm)				Weight (kg), approx.
			Length A	Width B	Height C	Height* D	
VME-12	4-14	2	990	580	1720	-	205
VME-50	22-50	5	1350	800	2050	-	490
VME-120	50-120	11	2480	1090	1740	2575	1300
VME-400	100-400	15	2740	1390	1980	3140	2200
VME-700	325-700	30	3300	1660	2430	3730	2700
VME-2400	1230-2400	80	3670	1600	3570	4920	5000
VME-5000	2000-5000	220	6910	2790	5720	7820	18000

\*with open lid

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- Make the best investment decision
- Reduce time to market
- Lower your break even point
- Fulfil your customer demands
- Increase your profitability
- Remain competitive

### Our area of expertise:

- Consulting / Analysis / Research
- Speed / Quality / Compliance / Precision
- Efficiency / Safety / Hygiene / Automation
- Productivity / Sustainability
- Troubleshooting / Emergency / Used Machines
- Knowledge / Education

Let's aim for your targets, together!



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