



## *KAPPAVITA*<sup>®</sup> Homogenizing Mixer

for liquid to semi-solid Products



# *KAPPAVITA*® Homogenizing Mixer

## Quality in every detail

For economic production in a highly competitive environment, you need the highest level of quality and reliability, as provided by the NETZSCH Vakumix *KAPPAVITA*® VHM, HM and HMS series homogenization tanks.

The design of these machines guarantees repeatable production results with maximum efficiency for processing liquid to semi-solid products.

- Mixing
- Homogenization
- Dispersion
- Degassing

## Models

Model	Description
HM	<ul style="list-style-type: none"><li>▪ Machine with cover that is raised and lowered hydraulically</li><li>▪ Pressure range: -1 to 2 bar</li></ul>
HMS	<ul style="list-style-type: none"><li>▪ Machine with bolted cover</li><li>▪ Pressure range: -1 to 2 bar</li></ul>
VHM	<ul style="list-style-type: none"><li>▪ Machine with cover that is raised and lowered hydraulically</li><li>▪ Pressure range: -1 to ambient pressure</li></ul>



# KAPPAVITA<sup>®</sup> Homogenizing Mixer

## Technical Features

### Technical Features

- GMP-compliant machine design
- Scalability
- CIP- and, optionally, SIP-capable machine design
- All product-wetted parts in high-quality stainless steel (316L)
- Uniform homogeneity of the vessel contents due to external circulation line
- Stepless control of the agitator and homogenizer speeds
- Bi-directional operation of anchor agitator with patented double-sided scraper system (EP 0761296 - HM; DE 19742648 - HMS)
- Efficient radial and vertical mixing of the product due to special baffle positioning on the agitator
- Homogenizer mounted at the center of the vessel bottom with multi-rim rotor/stator system
- High-performance homogenization within the vessel and in circulation operation due to the circulation line for products with higher viscosities (EP 0760 254 B1)
- Patented homogenizer protection system protects against extraneous materials (EP 0988 887)
- Virtually complete emptying of the machine via the homogenizer
- Fast CIP processes with homogenizer
- Additional measuring probe assembly in the homogenizer chamber possible (temperature, pH value, pressure, etc.)
- Various suction options for solids and liquids in a closed system
- Can be heated/cooled via energy modules with features and media to meet customer requirements
- Vacuum operation via water ring vacuum pumps
- Various machine control and automation models available
- Can be combined with *GAMMAVITA*<sup>®</sup> batch tanks as *SYSTEMVITA*



# and Sizes

Series HM	Series HMS	Series VHM
Effective volume* [Liter]	Effective volume* [Liter]	Effective volume* [Liter]
2	1100	50
5	2000	100
10	2500	200
15	3000	300
35	4000	500
65	5000	1000
115	6000	
180	10000	
250		
275		
300		
375		
475		
500		
1100		
2000		
2500		
3000		
4000		
5000		
6000		
10000		

\* other sizes upon request



Schematic representation of *KAPPAVITA*®

# KAPPAVITA<sup>®</sup> Laboratory Homogenizing Machine Design

- GMP-compliant design
- Available with 2.5 or 10 liter effective volume
- Scale-up to larger machines and production plant
- Cover-lifting mechanism
- Anchor agitator with baffle and scrapers
- Integrated vacuum pump and heating/cooling control
- Homogenizer in 4-rim design
- Mobile and robust machine design
- Control and visualization via color touch panel in multi-language version
- Ready-to-connect unit
- Various accessory options
- Available as loan unit

Testing of your product possible any time in the  
NETZSCH Technical Center.



# xer Features



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