

NETZSCH Plant Engineering

- Connection for suction of small quantities of liquid
- Drainage of residual quantities
- All optional connections can be operated manually or automatically
- Explosion-proof models for gas, dust and conductive dusts
- Integration into the customer's process control system
- Individual programming and process integration possible
- Remote maintenance service
- Noise protection housing
- GMP design



Proven Excellence.

Business Unit Grinding & Dispersing – The World's Leading Grinding Technology

NETZSCH-Feinmahltechnik | Germany
NETZSCH Trockenmahltechnik | Germany
NETZSCH Vakumix | Germany
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NETZSCH Mastermix | Great Britain
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NETZSCH Vakumix GmbH
Zeppelinstraße 1
28844 Weyhe-Dreye
Germany
Tel.: +49 421 8 49 56 0
Fax: +49 421 8 49 56 90
info.nvm@netzsch.com

NETZSCH
www.netzsch.com

G&D - EpsilonVita - EN - 04/21 - Technical specifications are subject to change.

NETZSCH
VAKUMIX 



EpsilonVita Inline Disperser

Suction of powder from large quantities made easy!

The unique System

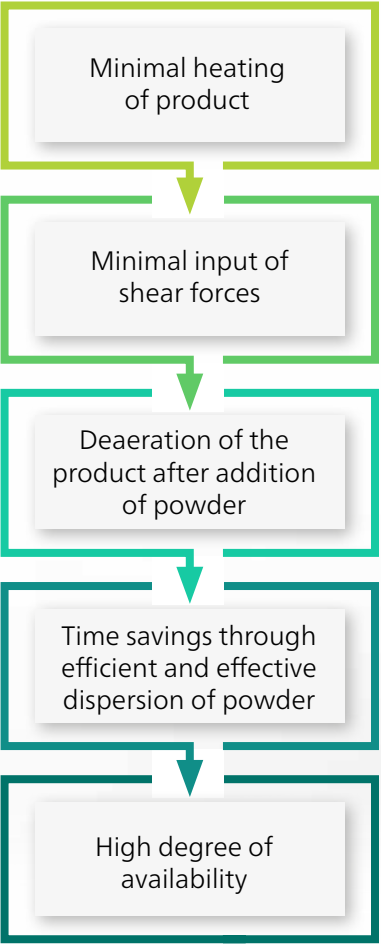
FOR DISPERSING SOLIDS IN LIQUIDS

For the best possible wetting and dispersion of the powdered solids in liquid, the pressure differences created by the pumping and centrifugal action of the rotor are utilized. Air contained in the powder expands in the negative pressure of the suction area and the powder enters the liquid, which is pressed into the core of the powder structure in the positive pressure area of the rotor.

Powders wetted in this way can be finely dispersed with considerably less energy input. As a result, products that do not require further grinding can be manufactured with permanently reproducible quality. Products that require further homogenization in a rotor/stator or further grinding in an agitator bead mill can be processed with optimized parameters, such as higher throughput or smaller grinding media. Here, the consistent quality of the predispersion has a positive effect on the reproducibility of the grinding result.

That is why the *EPSILONVITA* can be combined with the *GAMMAVITA*®, *KAPPAVITA*® and *LAMBDAVITA*® model series as System *VITA*.

YOUR ADVANTAGE



1 Sack Chute 2 Circulation tank *GAMMAVITA* or *KAPPAVITA* 3 *EPSILONVITA*

Technical Data	<i>EPSILON 30</i>	<i>EPSILON 90</i>
Solids intake [kg/h]	50 - 5 000	150 - 12 000
Suspension flow with solids intake [m³/h]	15 - 30	40 - 80
Max. suspension flow with circulation [m³/h]	67 (water)	130 (water)
Drive capacity [kW]	30 / 37	75 / 90 / 110
Max. speed [1/min]	3 600	3 600
Max. discharge pressure [bar]	5	5
Min. inlet pressure [bar]	0.1 - 0.5	0.1 - 0.5

Application Examples



Toothpaste, concealer and sunscreen

- Increase in production output through rapid introduction of powder and optimal dispersion of the solid in the liquid
- Can be combined with the *KAPPAVITA* homogenizing mixer



Pharmaceutical Applications

- Dispersion of active ingredient in liquid
- Problem-free compliance with the temperature limits
- Deaeration of the product, example: cough syrup



Pre-dispersion of products for homogenization

- Use as a pre-disperser for intermediate product
- For example for dispersing xanthan, gum or CMC

YOUR BENEFIT

Dispersion Quality	Handling & Cleaning	Dust & Emission Free	Process Safety
<ul style="list-style-type: none">▪ Permanently reproducible product quality▪ Best wetting of the solid surface▪ Gentle processing of sensitive formulation components	<ul style="list-style-type: none">▪ Process free of manual influences▪ Quick and easy to clean, good accessibility▪ No adhesion of powder dust in the process tank	<ul style="list-style-type: none">▪ Closed process housing▪ Separate intake of solids and liquids▪ Loss-free introduction of solids	<ul style="list-style-type: none">▪ Automatic operation eliminates operator error▪ Explosionproof design