

## Dispertex Dispersion system

With the new developed DISPERTEX dispersion system powders can be charged and dispersed in liquids, i. e. Wetted and loss free and effectively dispersed either continuously or in a batch process. This System works according to the rotor- stator- pinciple and is especially characterized by a high powder suction capacity at large throughput rates. The high efficient rotor - our patented component of the powder dispersion system - avoids powder sticking due to its outstanding geometry and its **defined** wetting zone.

An adjustable stator system - optionally even during operation - allows the adoption of the inner geometry with the varying viscosities in a large range of aup to 2.500 mPas. Beyond that the usable viscosity range of the system can be extended by the integration of a pump installation on discharge side for up to 50.000 mPas.

The operation of the system is effected by a touch panel. Manual or automatic operations are possible.

The system is used in applications, especially for powders difficult to be wetted and dispersed, with tendency of foaming and, increasing the consistency.



Motor powers	2 up to 22 kW
Speed	3000 up to 6000 min <sup>-1</sup>
Tip speed of the rotor	up to 35 m/s
Pumb capacity / water	up to 25 m <sup>3</sup> /h
Suction capacity / powder	2 - 250 kg/min
Solid matter portion in the dispersion	up to 70 %
Suction vacuum	35 mbar abs.
Suction head	4 barg
Max. viscosity without pumb	2.500 mPas
Max. viscosity with add. pumb	50.000 mPas
Material, in contact with product	1.4571, options: 1.4404 / 1.4539 and others
Shaft sealing	double mechanical seal
Seal material in contact with product	AP 540 / EPDM options: PTFE / Silikon / NBR
Powder connection	flexible tube, options: hopper, big bag, container