

Function.....

tor-stator-system. A high shear gradient is produced by the narrow gap between rotor and stator and the high peripheral speed of the rotor. The product passes through the slots of the rotor teeth into the shearing zone and leaves it through the slots of the stator. In low and medium viscosity products the machine performs the pumping action itself. The multi-tooth system of the rotor and stator apply other mechanical forces to the product to increase the rate of

Principle

The product is forced through the rotor-stator-system. The inner rotor ring accelerates the product to maximum speed. The stator reduces the speed of the product to zero and then it is again accelerated by the next rotor ring. This results in very effective particle size reduction and an homogenous distribution of the particles in the liquid

Application.....

sing in a recirculating system or an inline system in single pass between two processing vessels. In a batch operation the product is circulated through the machine until the required particle size is achieved. When pumping the product through the inline machine to the next processing step, an additional dispersing process is applied. A multiple stage machine can improve this process. All machines may be operated in borizontal or vertical position.

Technology.....

The dispersing head is connected to the motor via a coupling. The rotor-stator-system may, depending on the treated product, be equipped with up to six dispersing rings for each stage. The size of the slots are determined by the pro-cess and may vary from stage to stage. If necessary, the mixing chamber can be equipped with a cooling or hea-

Sealing

Depending on the application, different types of sealing may be installed. Single seals or tandem double seals, cooled and lubricated by the product itself or by a separate cooling or thermo-siphon system, may be used according to the specific application.

Advantages.....

different slots and diameters allow adaptation to any pos-sible change in a process. A closed dispersing system offers air free dispersion. The use of a frequency converter in-creases the range of application by using variable speed. The machine is easy to disassemble and to clean.

TECHNICAL INFORMATION Separate bearing system for motor and dispersing shaft Fixed speed or stepless adjustment by a frequency converter Modular system allows individual customising to dispersing tasks High reliability for continuous operation 2.4 - 55 kW 230/400, 50 Hz, special voltages upon request Pole switchable 1.500/3.000 rpm, stepless up to 3.600 by a frequency controller 6.000/12.000 rpm for Z66 Aluminium, coated aluminium, coated steel, stainless steel 1.4541 / 1.4571 Stainless steel 1.4571 / 1.4539 / special material upon request Mechanical seal, single acting or double acting depending on application Diameter of rolor 50 to 300 mm 200 to 25.000 l/b Peripheral speed 10 - 54 m/sec

Jetstream mixers

Dispermix mixers

Batch dispersers Inline dispersers

Powder wetting machines Lab dispersing equipment

Design of processing plant Supply of processing plant

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