Operation.....

TDS induction mixers induct the powder into the liquid. Simultaneously they mix and disperse the product in the vessel. They work according to the principle of a Jetsream mixer and provide all of its advantages. Sedimentation is avoided and absolute homogeneity is guaranteed during the whole process. Using a Dispermix-TDS machine offers additional dispersing effect during induction and mixing.

Principle

Powder is inducted through an induction bose and brought into the liquid below the surface. It is fine-ly distributed and immediately wetted and dispersed. The required vacuum to induct the powder is created in the mixing bead of the machine itself according to the Venturi principle. The fine distribution of the powder when it comes in contact with the liquid results in spontaneous and complete wetting of all powder particles.

Installation.....

TDS induction mixers or TDS Dispermix are installed on a flange or a transom on top of a tank. When several vessels have to be used, the machine may be attached to a portable lifting device.

Construction.....

The machine has a two speed motor, high speed for induction and low speed for mixing and dispersing the product after induction. A spearate cleaning connection allows the inner parts of the machine to be cleaned. The TDS machine works without bearings and seals in the medium. Motor and shaft may be separated very easily and all rotating parts are protected against accidental contact. The machine is certified by The Employer's Liability Insurance Association.

Advantages.....

No dust is produced during induction. Inducting directly from paper bags facilitates and speeds up the bandling of the powder and avoids barmful dust in the air. Crusts on the walls of the vessel and along the mixing shaft are not created. If no powder has to be inducted, the machine can be used as a standard testream mixer or Dispermix.



TDS INDUCTION MIXER

TECHNICAL DATA 1,1 - 25 kW

r | 1,1 - 25 kW e | 230 / 400 V, 50 Hz, special voltages available on request | 1,500 / 3,000 rbm

Stepless from 360 - 3.600 rpm (with a frequency converter)
learing flange coated aluminium, stainless steel

Immersed parts stainless steel 1.4571, 1.43539

aling lip seal or mechanical seal depending on the application

ixing bead 135 - 350 mm diameter

Immersion depth up to 1.200 mm, with foot bearing up to 1.600 mm

Ball valve 3/4" to 13/4", full bore, manually or automatically operated aduction bose light vacuum proof induction bose with copper trace to avoid

static surcharge

The ystral program

Jetstream mixers

Dispersing mixers Batch dispersers

Inline dispersers
Powder wetting machines
Laboratory dispersers

Stands

Processing systems



ystral gmbh maschinenbau + processlechn Wettelbrumer Straße 7 D-79382 Ballrechten-Dollingen Telephone (...7634) 5603-99 e-mail: ystral@ystral.de bttp://tevus.ystral.de



