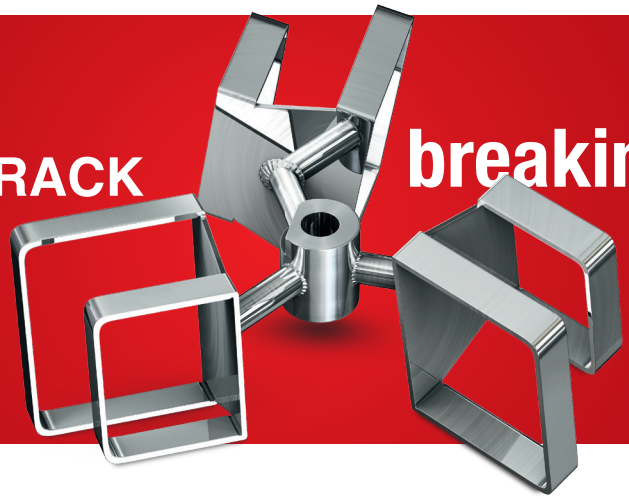
VISCO JET® CRACK

Ground-breakingly good



The Application

Dispersions are essential components of the manufacturing process, especially in the paint and varnish sectors, in the production of ceramic components and the manufacturing of resins or putties, as well as in food production. In this process, agglomerates are broken up by the application of shear forces and are evenly wetted with the liquid or pasty phase, usually an additive.

For a successful agitating process, two successive process steps are often used. The agglomerates are first broken up with a dispersing disc and afterwards homogenized with a second impeller. This has the following disadvantages for the manufacturer:

- ⊗ extended process times due to two successive agitating processes
- ⊗ higher energy consumption due to the use of dispersion discs with high speeds
- ⊗ inconstant product quality due to a multi-stage agitating process

Problem solver

Due to its geometry, the VISCO JET® CRACK achieves both a dissolving of the agglomerates and a simultaneous homogenization in the liquid phase. Combination of the two processes into one leads to a significant improvement of efficiency in the production processes of our customers.

The following features characterise the VISCO JET® CRACK:

- ✓ suitable for media with viscosities of up to 200.000 mPas
- ✓ the square design of the impeller and the leading breaking edges at the inlet serve to efficiently break up the agglomerates (coherent primary particles).
- ✓ the conical profile of the impeller is used to create the typical VISCO JET® flow characteristics. These create a self-induced dynamic mixing movement through accelerated laminar flows at the impeller outlet and turbulence at the inlet.
- ✓ comparatively low speeds for an energy-efficient agitating process

The details

- 2-fold or 3-fold version of impeller cones
- ∅ standard versions with diameters up to 2000 mm
- material: 1.4301, 1.4404, 1.4571

Options:

- ground version with Ra < 0,8 µm or Ra < 0,4 µm
- installation in combination with different impeller levels and residual impeller
- ✓ individual material according to customer requirements, e.g. Super-duplex or Hastelloy
- individual coatings for an long service life
- ∅ individual impeller sizes
- Tornado version for application in IBC

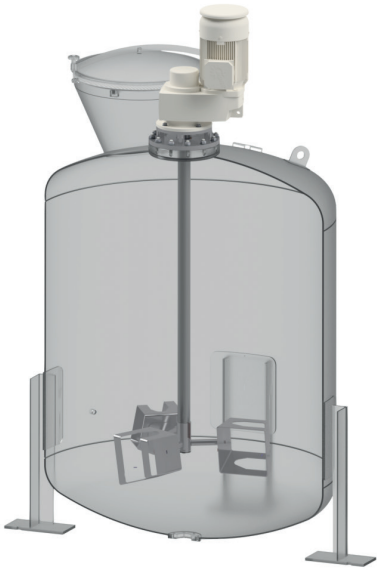
Sustainable in every detail

Product quality
Constant and excellent product quality due to a high degree of dispersion of the agglomerates as well as homogeneous distribution in the liquid or pasty phase

Sustainability
Sustainable processes due to lower drive powers

Process costs
Reduction of process costs due to lower wear and comparatively lower energy consumption of the agitator

Process efficiency
Improving process efficiency through simultaneous dispersion and homogenisation with one impeller



VISCO JET

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