

High-Performance-Dissolver

for pilot scale or pilot plant scale

- » Powerful vertical Dissolver
- » The ideal solution for dispersing flowable products
- » Heavy-duty Butterfly Mixer
- » The ideal solution for homogenizing thixotropic and viscous products
- » Wall-mounted scraper can be used optionally



In dispersion, the interaction of mass acceleration and friction forms the basis for the product-specific, ideal shear rate. The proven adjustment of mixing tool, geometry, speed and vessel dimensions produces a highly efficient mixing effect. A large-volume recirculation ensures that the solids are drawn in quickly.

Characteristics

- » stationary mixing container with an integrated lift for opening the container
- » very good accessibility into the container (cleaning)
- » integrated powder suction from a connectable fluidizing container (powder feed)
- » simple filling, gravimetric via scale, or with metered discharge via a pump
- » Butterfly: The set-up of the machine resembles a floor-mounted Dissolver but is executed sturdier due to the higher mixing forces
- » Use of a
 - a. Fine-toothed disc creates a strong shear rate between the (dissolver) disc and the vessel wall
 - b. Coarse-toothed disc for breaking up larger agglomerates and the use of abrasive products
 - c. Combi disc with additional wings for increased circulation
 - d. Multi-suction disc for maximum energy input due to parallel coupled disc(s) with shock loss-free connecting webs



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Design Options

- » **Drive Power** for laboratory applications and 1.1 to 160 kW for pilot plant and production machines
- » **Vessel Sizes** for laboratory applications and 5.0 to 1200 l for pilot plant and production machines
- » Operating Pressures from 0.05 to 1.2 bar abs.
- » Lift adjustment for customised vessel sizes
- » **Drive Power according to product characteristics** and scheduled quantity
- » **Removable mixing tools**
- » **Vacuum-sealed hood**
- » **Vacuum Design** with vacuum system and vacuum control
- » Single-arm wall scraper with own drive unit
- » Mobile **exchangeable vessel** (with/without double jacket/double bottom)
- » **Tempering System** (heating and/or cooling)
- » **Power loading below the product level** by means of vacuum suction
- » **FDA-, GMP- or SIL-compliant design**
- » **Explosion protection** according to **ATEX/Directive 2014/34/EU**
- » **Digital pressure gauge, temperature display, level and / or performance indication**
- » Automatic **speed regulation**
- » Hard-wired **relay control, compact controller or memory programmable controller (PLC)**
- » **Automatic mixing sequence** with variable time, rotation speed and vacuum setting
- » **Recipe management and dosing control**
- » **Batch-related logging of the operating, process and production data**
- » Touch screen operating panel with process visualization
- » Remote maintenance and remote diagnosis

Possible applications

Wide range of applications in the chemical, pharmaceutical, plastics processing as well as the paint, coatings and building materials industries.

A typical application is the production of:

- » Primers
- » Adhesives
- » Plastic compound
- » Printing colours
- » Coatings
- » Creams and ointments etc.

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