Inline dispersing & solid-liquid mixing

/// The details make all the difference!



ULTRA-TURRAX Inline | UTL 1000

/// Inexpensive inline disperser for homogenizing pre-mixes

The economic ULTRA TURRAX UTL 1000 machines are used for homogenizing and dispersing (emulsifying/suspending) pre-mixed liquid-liquid or liquid-solid substances. The machine has a pumping effect which conveys liquids with a viscosity of up to approx. 1,000 mPas. For higher viscosities, the use of a feeding pump is recommended. The dispersing tool is swappable and can be adapted to many different process requirements. The mixing chamber is mounted horizontally and the dispersing tool is directly coupled to the motor shaft.



2000 series - excellence is in the detail

/// Modular design for maximum flexibility

The 2000 Series – with a modular design – a system with a great future!

As diverse as the mixing technology and the requirements are in different industries, there are also many similarities. IKA realized this and in response developed a modular machine series. A basic drive unit can be fitted with a large number of different machine heads, providing a solution for almost every mixing application. Our engineers, in cooperation with our customers, combined their expertise to develop the most innovative machine program in the industry!



Advantages

- > Self draining thanks to vertical orientation
- > No dead spots
- > Surface finishes meet FDA, 3A and EHEDG requirements
- > GMP compliant versions available
- > Clean-in-place (CIP) and steam-in-place (SIP) compatible versions available
- > Extensive mixing tool options
- > Robust design thanks to a separate bearing assembly
- > Specially adapted designs for pharmaceuticals, food, cosmetics, and chemicals
- > Suitable for high pressures and temperatures
- > High-quality mechanical cartridge seal
- > Simple scalability for all sizes
- > Scale-up support provided by IKA
- > Many certificates/extensive documentation available (e.g. FDA, 3.1 material certificates, IQ/OQ, etc.)



IKA* UTL 2000/05

ULTRA-TURRAX Inline | UTL 2000

/// Single-stage dispersing machine

The UTL is a single-stage dispersing machine for producing emulsions and suspensions. A wide variety of rotor-stator combinations (generators) is available to adapt the machine to the application. The UTL runs at the same circumferential speed across all sizes and is therefore very easily scalable. A wide range of options, such as explosion protection (ATEX), different sealing materials and different flange types are available. Thanks to its high-quality surface finish and the design of the dispersing chamber, the ULTRA-TURRAX is easy to clean. The machine empties itself and is suitable for cleaning in place (CIP).

Example applications

> Sauces

> Fruit juices

> Jams

> Sugar solutions

> Binding agents

> Molten resins

> Lotions

> Adhesives

> Stabilizers

> Emulsions

> Suspensions

> Deagglomeration





^{*} Self pumping rate based on H₂O and standard tool configuration