

Data Sheet

UTC 300/KD



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The ULTRA-TURRAX® UTC is a high-performance dispersing machine used for the production of a variety of emulsions and suspensions in batch operations. Using the rotor-stator principle, the UTC is best suited for applications that cannot be accomplished using conventional stirring methods. The UTC machine stator is mounted to the shaft tube and is capable of processing of media with a viscosity of up to 5.000 mPas. The preferred installation positions for the UTC are: diagonal from above, diagonal from the side or vertical off-centre.

The UTC series is available with two different types of flanges KT for installation on open vessels and KD for closed vessels. The UTC for open vessels can be offered with suitable floor, wall or mobile stands.

The rotating shaft is sealed with either a lip (KT) or mechanical (KD) seal. For operations under pressures of up to 10 bar or for the processing of abrasive media, the ULTRA-TURRAX® is equipped with a mechanical seal.

The description of the machine contains the following information:

- Machine type
- Generator type
- Size of the machine (outer diameter of the dispersing tool)
- Number of toothed rings of the dispersing tool
- Type of seal
- Type of flange

Example: The UTC TP 115/4-KT/KD is an ULTRA-TURRAX® UTC machine with a TP 115/4 generator (four toothed rings, outer diameter of 115 mm). This machine is equipped with a lip seal (KT) and designed for mounting on closed vessels (KD).

Advantages of the ULTRA-TURRAX® UTC machine:

- Simple and robust design
- Can be adapted to most mixing and dispersing tasks because of the wide variety of available generators

Technical Data

Batch size max. (H2O)	4000 l
Viscosity, max.	5000 mPas
Process pressure (max.)	10 bar
Vacuum, max	100 mbar
Process temperature, max.	120 °C
Dispersing tool	rotor-stator
Tip speed	21 m/s
Rotor rotational speed	1500 rpm
Motor power, standard	30 kW
Motor power max.	36 kW
Type of seal	single acting mechanical seal
Built-in length, standard	1500 mm
Built-in length, max.	2300 mm
Weight approx.	400 kg
Ident. No.	000UTC300-KD

Capable of operating under pressures of up to 10 bar
When using special materials, capable of operating with temperatures up to approximately 160°C
Comes in various different sizes for batch volumes from 50 to 6.000 litres
Infinite speed control available (option)
All parts that come in contact with the product are made of stainless steel
Special materials and top-quality surface finishes are possible
ATEX-approved, explosion-proof versions of the machines are available (option)
A pharmaceutical version of the machine is available - the UTS model (no seals in the actual product)

IKA application experts are available to assist you with product selection regarding type of machine/tool and installation position.

Technical data for the ULTRA-TURRAX® UTC

(KT - for open or pressureless vessels, KD - for closed and pressure vessels):