

## Data Sheet

UTC 150/KT



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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
- 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

### Technical Data

|                           |                     |
|---------------------------|---------------------|
| Batch size max. (H2O)     | 1700 l              |
| Viscosity, max.           | 5000 mPas           |
| Process pressure (max.)   | 0 bar               |
| Vacuum, max               | 100 mbar            |
| Process temperature, max. | 120 °C              |
| Dispersing tool           | rotor-stator        |
| Tip speed                 | 21 m/s              |
| Rotor rotational speed    | 3000 rpm            |
| Motor power, standard     | 5.5 kW              |
| Motor power max.          | 13 kW               |
| Type of seal              | lip seal            |
| Built-in length, standard | 965 mm              |
| Built-in length, max.     | 1600 mm             |
| Weight approx.            | 80 kg               |
| <b>Ident. No.</b>         | <b>000UTC150-KT</b> |

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):