

## Data Sheet

Crushing / Dispersers



### ULTRA-TURRAX® Tube Drive control Workstation

Workstation consists of ULTRA-TURRAX® Tube Drive control , 1 x ST-20, 1 x DT-20 incl. 1 removal hook for removal the rotor-stator unit, 2 x BMT-20 G / S, power supply.

Unique and universal dispersing, stirring, homogenizing and grinding system with hermetically sealable disposable sample tubes. Protection and security for: Infectious sample materials, toxic substances, high-odor substances under defined conditions (time, energy, volume).

The sample containers (tubes) are easily attached to the drive unit. Desired speed and duration are set, then the test is started. An acoustic signal indicates completion of experiment. The tests are any time reproducible and there is no cross-contamination between the samples.

- USB interface for control and documentation
- Collecting tray for protection against leaking liquids
- Simple and precise menu navigation thanks to the OLED display
- Programmable sample conditions (library)
- Adjustable reverse operation
- Turbo-button for short time intensive mixing, homogenizing or grinding
- Multilingual menu
- Digital display for all functions
- Disperse, stir, homogenize and grind using a single drive unit
- No possibility of cross-contamination
- Hermetically sealable disposable sample tubes
- No cleaning required
- High level of user safety
- Suitable for individual use and use in series
- Gamma-sterilized tubes
- Tubes with pierceable membrane covers
- Tubes with 2 - 15 ml and 15 - 50 ml
- Anti-locking function
- Increases safety due to low voltage (24 V)
- Chemical-resistant plastic
- Simple and safe disposal
- Worldwide service guaranteed by IKA
- Reproducible tests
- Patented

Application areas: Human medicine, pathology, veterinary medicine, animal hygiene institutes, Clinical diagnosis research, Foodstuffs testing laboratories, Diagnostic laboratories, Toxicology, Medical research, Pharmaceutical research, Biological research, Tumour biology, Immunology, Chemistry, Cosmetics

Accessories: ST-20 Tube with stirring device (25x), DT-20 Tube with rotor-stator element (25x),

| Technical Data                             |                |
|--------------------------------------------|----------------|
| Motor rating input [W]                     | 28             |
| Motor rating output [W]                    | 17             |
| Viscosity max. [mPas]                      | 5000           |
| Speed range [rpm]                          | 400 - 8000     |
| Reversible direction of rotation           | yes            |
| Speed deviation [%]                        | 1              |
| Speed display                              | OLED           |
| Speed control                              | 10 RPM Steps   |
| Noise without element [dB(A)]              | 50             |
| Process type                               | batch          |
| Timer                                      | yes            |
| Timer display                              | OLED           |
| Dimensions (W x H x D) [mm]                | 122 x 54 x 178 |
| Weight [kg]                                | 0.9            |
| Permissible ambient temperature [°C]       | 5 - 40         |
| Permissible relative moisture [%]          | 80             |
| Protection class according to DIN EN 60529 | IP 20          |
| USB interface                              | yes            |
| Voltage [V]                                | 100 - 240      |
| Frequency [Hz]                             | 50/60          |
| Power input [W]                            | 20             |
| DC Voltage [V=]                            | 24             |
| Power input [mA]                           | 800            |
| Ident. No.                                 | 3827500        |

BMT-20-S Tube for grinding with stainless steel balls (25x), BMT-20-G Tube for grinding with glass balls (25x), ST-20-M Tube with stirring device (25x), DT-20-M Tube with rotor-stator element (25x), BMT-20-S-M Tube for grinding with stainless steel balls (25x), BMT-20-G-M Tube for grinding with glass balls (25x), ST-20-M-gamma Tube with stirring device (20x), DT-20-M-gamma Tube with rotor-stator element (20x), BMT-20-S-M-gamma Tube for grinding with stainless steel balls (20x), ST-50 Tube with stirring device (10x), DT-50 Tube with rotor-stator element (10x), BMT-50-S Tube for grinding with stainless steel balls (10x), BMT-50-G Tube for grinding with glass balls (10x), ST-50-M Tube with stirring device (10x), DT-50-M Tube with rotor-stator element (10x), BMT-50-S-M Tube for grinding with stainless steel balls (10x), BMT-50-G-M Tube for grinding with glass balls (10x), ST-50-M-gamma Tube with stirring device (10x), DT-50-M-gamma Tube with rotor-stator element (10x), BMT-50-S-M-gamma Tube for grinding with stainless steel balls (10x), TC-20 Cover, TC-50 Cover, TC-20-M Cover with pierceable membran, TC-50-M Cover with pierceable membran, Glass balls for BMT tubes, Stainless steel balls for BMT tubes, labworldsoft®