

CRUSHING

1. Dispersers

A. Compact Lab Scale Dispersers

a. T 25 mini control ULTRA-TURRAX, Cat.No., 0025006650



The T 25 mini control is a high-performance dispersing instrument with a wide speed range of 600 - 25,000 rpm for working volumes of up to 1.5 liters (H₂O). A broad choice of dispersing elements guarantee a wide range of applications for efficient emulsification, homogenization, dispersing and suspending as well as reduction of particle sizes to the micrometer range.

Technical Data

- Motor rating input : 210 W
- Motor rating output : 160 W
- Volume range (H₂O) : 0.001 - 1.5 l
- Viscosity max. : 2000 mPas
- Speed range : 600 - 25000 rpm
- Deviation of speed measurement $n > 3000\text{rpm}$: $\pm 3 \%$
- Deviation of speed measurement $n < 3000\text{rpm}$: $\leq \pm 100 \text{ rpm}$
- Speed display : LED
- Speed adjustment : stepless
- Noise without element : 75 dB(A)
- Motor principle : Brushless DC
- Extension arm diameter : 13 mm
- Extension arm length : 160 mm
- Process type : batch
- Temperature display : yes
- Temperature measuring range : 0 - 125 °C
- Temperature measurement resolution : 0.1 K
- Accuracy of temperature measurement : $\pm 1 \text{ K}$
- Timer : yes
- Timer display : LED
- Permissible ON time : 100 %
- Dimensions (W x H x D) : 66 x 186 x 100 mm
- Weight : 1.8 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80 %

- Protection class according to DIN EN 60529 : IP 30
- RS 232 interface : yes
- USB interface : USB-C
- WPAN interface : yes
- WiFi Interface : yes
- Ethernet interface : yes
- Voltage : 100 - 240 V
- Frequency : 50/60 Hz
- Power input : 210 W
- Power input max. : 250 W
- Power input standby : 3 W
- DC Voltage : 48 V=
- Current consumption : 4500 mA

b. T 18 mini digital ULTRA-TURRAX, Cat.No., 0025005828



T 18 mini digital is an economical high-performance dispersing instrument with a wide speed range of 3000 - 25,000 rpm for working volumes of up to 1.5 liters (H₂O).

Technical Data

- Motor rating input : 210 W
- Motor rating output : 160 W
- Volume range (H₂O) : 0.001 - 1.5 l
- Viscosity max. : 2000 mPas
- Speed range : 3000 - 25000 rpm
- Speed deviation : 3 %
- Speed display : LED
- Speed adjustment : stepless
- Noise without element : 75 dB(A)
- Motor principle : Brushless DC
- Extension arm diameter : 13 mm
- Extension arm length : 160 mm
- Process type : batch
- Timer : yes
- Timer display : LED
- Permissible ON time : 100 %
- Dimensions (W x H x D) : 66 x 186 x 100 mm

- Weight : 1.8 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80 %
- Protection class according to DIN EN 60529 : IP 30
- USB interface : USB-C
- Voltage : 100 - 240 V
- Frequency : 50/60 Hz
- Power input : 210 W
- Power input max. : 250 W
- Power input standby : 3 W
- DC Voltage : 48 V=
- Current consumption : 4500 mA

B. LAB Scale Dispersers

a. T 25 Digital Package, Cat.No., 0009024200



This T25 Digital Package contains T 25 digital ULTRA-TURRAX® - Disperser (1), S 25 N - 18 G - Dispersing Element Ø18 mm (1), 1 * R1826 Plate stand, H800 mm (1), and R 182 Boss head clamp, clamping range Ø6-16 mm (1).

Technical Data

- Motor rating input : 800 W
- Motor rating output : 500 W
- Volume range (H₂O) : 0.001 - 2 l
- Viscosity max. : 5000 mPas
- Speed range : 3000 - 25000 rpm
- Speed deviation : 1 %
- Speed display : LED
- Speed adjustment : stepless
- Noise without element : 75 dB(A)
- Extension arm diameter : 13 mm
- Extension arm length : 160 mm
- Process type : batch
- Permissible ON time : 100 %
- Dimensions (W x H x D) : 87 x 271 x 106 mm
- Weight : 2.5 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80% (up to 31°C), decreasing linearly to max. 50 (@40°C)
- Protection class according to DIN EN 60529 : IP 20

- Voltage : 220 - 240 V
- Frequency : 50/60 Hz
- Power input : 800 W

b. T 18 Digital Package, Cat.No., 0009024700



Scope of delivery

- T 18 digital ULTRA-TURRAX®
- S 18 N - 19 G Dispersing tool
- R 1826 Plate stand
- R 182 Boss head clamp

Technical Data

- Motor rating input : 500 W
- Motor rating output : 300 W
- Volume range (H₂O) : 0.001 – 1.5 l
- Viscosity max. : 5000 mPas
- Speed range : 3000 - 25000 rpm
- Speed deviation : 1 %
- Speed display : LED
- Speed adjustment : stepless
- Noise without element : 75 dB(A)
- Extension arm diameter : 13 mm
- Extension arm length : 160 mm
- Process type : batch
- Permissible ON time : 100 %
- Dimensions (W x H x D) : 87 x 271 x 106 mm
- Weight : 2.5 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80% (up to 31°C), decreasing linearly to max. 50 (@40°C)
- Protection class according to DIN EN 60529 : IP 20
- Voltage : 220 - 240 V
- Frequency : 50/60 Hz
- Power input : 500 W

c. T 10 basic ULTRA-TURRAX, Cat.No., 00037370000



Small dispersing instrument for volumes from 0.5 - 100 ml (H₂O). It offers a wide speed range from 8000 – 30,000 rpm that enables users to work at high circumferential speeds even with small rotor diameters.

Scope of delivery

- T 10 basic ULTRA-TURRAX®
- R 200 Clamp

Technical Data

- Motor rating input : 125 W
- Motor rating output : 75 W
- Volume range (H₂O) : 0.0005 – 0.1 l
- Viscosity max. : 5000 mPas
- Speed range : 8000 - 30000 rpm
- Speed display : stepless
- Speed adjustment : scale
- Noise without element : 65 dB(A)
- Extension arm diameter : 8 mm
- Extension arm length : 100 mm
- Process type : batch
- Power-ON time : 10 min
- Power-OFF time : 5 min
- Dimensions (W x H x D) : 56 x 178 x 66 mm
- Weight : 0.61 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80%
- Protection class according to DIN EN 60529 : IP 30
- Voltage : 230 V
- Frequency : 50/60 Hz
- Power input : 125 W

d. T 18 brushless digital ULTRA-TURRAX, Cat.No., 0020102476



The T 18 brushless digital is an economical high performance dispersing instrument with a wide speed range of 3000 - 25 000 rpm for working volumes of up to 1.500 ml (H₂O).

Scope of delivery

- T 18 brushless digital ULTRA-TURRAX®

Technical Data

- Motor rating input : 400 W
- Motor rating output : 300 W
- Volume range (H₂O) : 0.001 – 1.5 l
- Viscosity max. : 5000 mPas
- Speed range : 3000 - 25000 rpm
- Speed deviation : 2 %
- Speed display : LED
- Speed adjustment : stepless
- Noise without element : 70 dB(A)
- Motor principle : Brushless DC
- Extension arm diameter : 13 mm
- Extension arm length : 160 mm
- Process type : batch
- Timer : yes
- Timer display : LED
- Permissible ON time : 100 %
- Dimensions (W x H x D) : 89 x 270 x 161 mm
- Weight : 3 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80%
- Protection class according to DIN EN 60529 : IP 30
- USB interface : Micro-USB
- Voltage : 220 - 240 V
- Frequency : 50/60 Hz
- Power input : 400 W

e. T 18 digital ULTRA-TURRAX, Cat.No., 0003720000



Competitively priced dispersing instrument for volumes from 1 – 1500 ml (H₂O) with digital speed display. It offers a wide speed range from 3000 – 25,000 rpm that enables users to work at high circumferential speeds even with small rotor diameters.

Scope of delivery

- T 18 digital ULTRA-TURRAX®

Technical Data

- Motor rating input : 500 W
- Motor rating output : 300 W
- Volume range (H₂O) : 0.001 – 1.5 l
- Viscosity max. : 5000 mPas
- Speed range : 3000 - 25000 rpm
- Speed deviation : 1 %
- Speed display : stepless
- Speed adjustment : LED
- Noise without element : 75 dB(A)
- Extension arm diameter : 13 mm
- Extension arm length : 160 mm
- Process type : batch
- Permissible ON time : 100 %
- Dimensions (W x H x D) : 87 x 271 x 106 mm
- Weight : 2.5 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80% (up to 31°C), decreasing linearly to max. 50 (@40°C)
- Protection class according to DIN EN 60529 : IP 20
- Voltage : 220 - 240 V
- Frequency : 50/60 Hz
- Power input : 500 W

f. T25 easy clean digital ULTRA TURRAX, Cat.No., 0025002560

The T 25 easy clean digital is a high-performance dispersing instrument with electronic speed control from 3.000 – 25.000 rpm for working volumes of 1 – 2.000 ml (H₂O). A wide choice of S 25 dispersing elements, which are available as accessories, allow the T 25 to be used in many fields of application - whether it is homogenizing of medical samples, emulsifying of cosmetics or the suspension of coatings.

Scope of delivery

- T 25 easy clean digital ULTRA-TURRAX®
- USB Cable - USB A to Micro-B, 2 m

Technical Data

- Motor rating input : 500 W

- Motor rating output : 400 W
- Volume range (H₂O) : 0.001 – 2 l
- Viscosity max. : 5000 mPas
- Speed range : 3000 - 25000 rpm
- Speed deviation : 2 %
- Speed display : LED
- Speed adjustment : stepless
- Noise without element : 70 dB(A)
- Motor principle : Brushless DC
- Extension arm diameter : 13 mm
- Extension arm length : 160 mm
- Process type : batch
- Timer : yes
- Timer display : LED
- Permissible ON time : 100 %
- Dimensions (W x H x D) : 89 x 270 x 161 mm
- Weight : 3 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80%
- Protection class according to DIN EN 60529 : IP 30
- USB interface : Micro-USB
- Voltage : 220 - 240 V
- Frequency : 50/60 Hz
- Power input : 500 W

g. T25 easy clean control ULTRA TURRAX, Cat.No., 0025002500



The T 25 easy clean control is a high-performance dispersing instrument with electronic speed control from 3,000 - 25,000 rpm for working volumes of 1 - 2,000 ml (H₂O). The new tool S 25 EC-T-C-18G-ST allows temperature measurement and operation time detection through RFID. Device overheating is prevented by continuous temperature monitoring and the setting of temperature limits. The detection of operation time serves to guarantee regular maintenance.

Scope of delivery

- T 25 easy clean control ULTRA-TURRAX®
- USB Cable - USB A to Micro-B, 2 m

Technical Data

- Motor rating input : 500 W
- Motor rating output : 400 W
- Volume range (H₂O) : 0.001 – 2 l
- Viscosity max. : 5000 mPas
- Speed range : 3000 - 25000 rpm
- Speed deviation : 2 %
- Speed display : LED
- Speed adjustment : stepless
- Noise without element : 70 dB(A)
- Motor principle : Brushless DC
- Extension arm diameter : 13 mm
- Extension arm length : 160 mm
- Process type : batch
- Temperature display : yes
- Temperature measuring range : 0 - 125 °C
- Temperature measurement resolution : 0.1 K
- Accuracy of temperature measurement : ± 1 K
- Timer : yes
- Timer display : LED
- Permissible ON time : 100 %
- Dimensions (W x H x D) : 89 x 270 x 161 mm
- Weight : 3 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80%
- Protection class according to DIN EN 60529 : IP 30
- USB interface : Micro-USB
- Voltage : 220 - 240 V
- Frequency : 50/60 Hz
- Power input : 500 W

h. T25 digital ULTRA Turrax, Cat.No., 0003725000



High-performance dispersing instrument for volumes from 1 – 2000 ml (H₂O) with digital speed display. It offers a wide speed range from 3000 – 25,000 rpm that enables users to work at high circumferential speeds even with small rotor diameters.

Scope of delivery

- T 25 digital ULTRA-TURRAX®

Technical Data

- Motor rating input : 800 W
- Motor rating output : 500 W
- Volume range (H₂O) : 0.001 – 2 l
- Viscosity max. : 5000 mPas
- Speed range : 3000 - 25000 rpm
- Speed deviation : 1 %
- Speed display : stepless
- Speed adjustment : LED
- Noise without element : 75 dB(A)
- Extension arm diameter : 13 mm
- Extension arm length : 160 mm
- Process type : batch
- Permissible ON time : 100 %
- Dimensions (W x H x D) : 87 x 271 x 106 mm
- Weight : 2.5 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80% (up to 31°C), decreasing linearly to max. 50 (@40°C)
- Protection class according to DIN EN 60529 : IP 20
- Voltage : 220 - 240 V
- Frequency : 50/60 Hz
- Power input : 800 W

2. Mills**A. Batch Mills****a. MultiDrive basic, Cat.No., 0025002638**

IKA MultiDrive crusher can perform a wide range of crushing tasks involving coarse and fine crushing, thanks to the variety of vessels available (vessels not included in delivery). With MultiDrive basic it is possible to mix or grind. There is a USB interface available for easy actuation and documentation. Excellent crushing performance is guaranteed by a combination of variable rotational speeds, ranging from 3000 rpm to 20 000 rpm, and a 1000 Watt output.

Scope of delivery

- IKA MultiDrive basic
- Socket wrench

- Disassembly tool 1
- Disassembly tool 2
- Cleaning brush
- USB Cable - USB A to Micro-B, 2 m

Technical Data

- Process type : batch
- Operating principle : cutting/impact/blending/dispersing
- Motor rating input : 1000 W
- Motor rating output : 800 W
- Speed range : 3000 - 20000 rpm
- Speed deviation : ± 5 %
- Power-ON time : 5 min
- Power-OFF time : 10 min
- Motor principle : Brushless DC
- Display : 7 segment LED
- Vessels detection : yes
- Dimensions (W x H x D) : 300 x 350 x 250 mm
- Weight : 8.5 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80 %
- Protection class according to DIN EN 60529 : IP 31
- USB interface : Micro-USB
- Voltage : 220 - 240 V
- Frequency : 50/60 Hz
- Power input : 1000 W

b. MultiDrive Control, Cat.No., 0025002643



Scope of delivery

- IKA MultiDrive control
- Socket wrench
- Disassembly tool 1
- Disassembly tool 2
- Cleaning brush
- USB Cable - USB A to Micro-B, 2 m

Technical Data

- Process type : batch
- Operating principle : cutting/impact/blending/dispersing
- Motor rating input : 1000 W

- Motor rating output : 800 W
- Speed range : 3000 - 20000 rpm
- Speed deviation : ± 5 %
- Power-ON time : 5 min
- Power-OFF time : 10 min
- Motor principle : Brushless DC
- Display : TFT
- RFID reader/writer unit : yes
- Temperature display : yes
- Temperature measurement resolution : 0.1 K
- Accuracy of temperature measurement : ± 1 K
- Temperature limit min. : -50 °C
- Temperature limit max. : 120 °C
- Monitoring maintain time : yes
- Weighing function : yes
- Weighing range : 5 - 4000 g
- Weighing resolution : 1 g
- Load capacity weighing function max. : 4 kg
- Weighing accuracy : $\pm(0.3\%+2)$ g
- Vessels detection : yes
- Ramp programming : yes
- Dimensions (W x H x D) : 300 x 350 x 250 mm
- Weight : 8.5 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80 %
- Protection class according to DIN EN 60529 : IP 31
- USB interface : Micro-USB
- WPAN interface : yes
- Voltage : 220 - 240 V
- Frequency : 50/60 Hz
- Power input : 1000 W

c. MultiDrive Control BT Package, Cat.No., 0010007086



Crushing without cross-contamination - this is possible with the MultiDrive control package including autoclavable and disposable tubes BT 250 for wet samples. BT 250 is a disposable tube with a cross-shaped stainless steel beater and flow breakers.

Scope of delivery

- IKA MultiDrive control
- MultiDrive TC 1 Protective housing
- MultiDrive BT 250.5 Blending tube, autoclavable

Technical Data

- Process type : batch
- Operating principle : cutting/impact/blending/dispersing
- Motor rating input : 1000 W
- Motor rating output : 800 W
- Speed range : 3000 - 20000 rpm
- Speed deviation : ± 5 %
- Power-ON time : 5 min
- Power-OFF time : 10 min
- Motor principle : Brushless DC
- Display : TFT
- RFID reader/writer unit : yes
- Temperature display : yes
- Temperature measurement resolution : 0.1 K
- Accuracy of temperature measurement : ± 1 K
- Temperature limit min. : -50 °C
- Temperature limit max. : 120 °C
- Monitoring maintain time : yes
- Weighing function : yes
- Weighing range : 5 - 4000 g
- Weighing resolution : 1 g
- Load capacity weighing function max. : 4 kg
- Weighing accuracy : $\pm(0.3\%+2)$ g
- Vessels detection : yes
- Ramp programming : yes
- Dimensions (W x H x D) : 300 x 350 x 250 mm
- Weight : 8.5 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80 %
- Protection class according to DIN EN 60529 : IP 31
- USB interface : Micro-USB
- WPAN interface : yes
- Voltage : 220 - 240 V
- Frequency : 50/60 Hz
- Power input : 1000 W

d. MultiDrive control MT Package, Cat.No., 0010007083



Crushing without cross-contamination - this is possible with the MultiDrive control package including autoclavable disposable tubes MT 150 for dry samples. MT 150 is a disposable tube with a typical stainless steel beater. The plastic milling tube can be autoclaved.

Scope of delivery

- IKA MultiDrive control
- MultiDrive TC 1 Protective housing
- MultiDrive MT 150.5 Milling tube, autoclavable

Technical Data

- Process type : batch
- Operating principle : cutting/impact/blending/dispersing
- Motor rating input : 1000 W
- Motor rating output : 800 W
- Speed range : 3000 - 20000 rpm
- Speed deviation : ± 5 %
- Power-ON time : 5 min
- Power-OFF time : 10 min
- Motor principle : Brushless DC
- Display : TFT
- RFID reader/writer unit : yes
- Temperature display : yes
- Temperature measurement resolution : 0.1 K
- Accuracy of temperature measurement : ± 1 K
- Temperature limit min. : -50 °C
- Temperature limit max. : 120 °C
- Monitoring maintain time : yes
- Weighing function : yes
- Weighing range : 5 - 4000 g
- Weighing resolution : 1 g
- Load capacity weighing function max. : 4 kg
- Weighing accuracy : $\pm(0.3\%+2)$ g
- Vessels detection : yes
- Ramp programming : yes
- Dimensions (W x H x D) : 300 x 350 x 250 mm
- Weight : 8.5 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80 %

- Protection class according to DIN EN 60529 : IP 31
 - USB interface : Micro-USB
 - WPAN interface : yes
 - Voltage : 220 - 240 V
 - Frequency : 50/60 Hz
 - Power input : 1000 W
- e. **A 10 basic**, Cat.No., 0004020700



The redesigned batch mill grinds hard, brittle, soft and fibrous materials for volumes up to 50 ml. Because samples may be embrittled directly in the grinding chamber; tough, oily and aqueous samples can also be grinded.

Scope of delivery

- A 10 basic
- A 10.1 Stainless steel cutter
- A 10.4 Grinding chamber reduction
- Clips for cooling hose (2 pcs.)
- Felt rings (2 pcs.)
- Tool kit

Technical Data

- Process type : batch
- Operating principle : cutting/impact
- Motor rating input : 300 W
- Motor rating output : 240 W
- Speed max. : 25000 rpm
- Speed deviation : ± 500 rpm
- Circumferential speed max. : 73 m/s
- Useable volume max. : 50 ml
- Feed hardness max. : 5 Mohs
- Feed grain size max. : 6 mm
- Material beater/cutter : stainless steel 1.4034
- Material milling chamber : stainless steel 1.4301
- Power-ON time : 5 min
- Power-OFF time : 10 min
- Milling chamber, can be cooled with water : yes
- Mill feed can be cooled in milling chamber with dry ice : yes
- Dimensions (W x H x D) : 130 x 250 x 145 mm
- Weight : 3.13 kg

- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80 %
- Protection class according to DIN EN 60529 : IP 41
- Voltage : 220 - 240 V
- Frequency : 50/60 Hz
- Power input : 300 W

f. A 11 basic Analytical Mill, Cat.No., 0002900000



Impact grinding of hard, brittle or non-elastic grinding materials with high-grade stainless steel beater. This beater can be used for a Mohs hardness up to 6 (incl. with delivery).

Scope of delivery

- A 11 basic Analytical mill
- A 11.1 Spare beater

Technical Data

- Process type : batch
- Operating principle : cutting/impact
- Motor rating input : 300 W
- Motor rating output : 240 W
- Speed max. : 25000 rpm
- Circumferential speed max. : 53 m/s
- Useable volume max. : 80 ml
- Feed hardness max. : 6 Mohs
- Feed grain size max. : 10 mm
- Material beater/cutter : stainless steel 1.4034
- Material milling chamber : stainless steel 1.4571
- Power-ON time : 1 min
- Power-OFF time : 10 min
- Mill feed can be cooled in milling chamber with dry ice : yes
- Mill feed can be cooled in milling chamber with liquid nitrogen : yes
- Dimensions (W x H x D) : 85 x 240 x 85 mm
- Weight : 1.5 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80 %
- Protection class according to DIN EN 60529 : IP 43
- Voltage : 220 - 230 V
- Frequency : 50/60 Hz
- Power input : 160 W

3. Single-Use Crushing

A. Dispersers

a. ULTRA-TURRAX Tube Drive P control, Cat.No., 0025005981



The disperser assures the best stirring, dispersing, grinding and homogenisation results and has been devised in particular for the safe processing of infectious, toxic or odour-intensive samples. Even more intensive mixing, dispersing or grinding at your fingertips: All of this is achieved with the turbo button. Over short periods, rotational speeds of up to 8,000 rpm can be achieved.

Scope of delivery

- Removal hook
- Plastic hose for drainage
- USB A-B Cable

Technical Data

- Motor rating input : 36 W
- Motor rating output : 28 W
- Speed display : OLED
- Speed range : 400 - 8000 rpm
- Viscosity max. : 5000 mPas
- Timer : yes
- Timer display : OLED
- Speed deviation : 3 %
- Speed adjustment : 10 RPM Steps
- Noise without element : 50 dB(A)
- Process type : batch
- Reversible direction of rotation : yes
- Dimensions (W x H x D) : 122 x 54 x 178 mm
- Weight : 1.3 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80 %
- Protection class according to DIN EN 60529 : IP 20
- USB interface : USB-B
- Voltage : 100 - 240 V
- Frequency : 50/60 Hz
- Power input : 36 W
- DC Voltage : 24 V=

- Current consumption : 1500 mA

b. ULTRA-TURRAX Tube Drive, Cat.No., 0003646000



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

Scope of delivery

Removal hook

Technical Data

- Motor rating input : 20 W
- Motor rating output : 17 W
- Speed display : scale
- Speed range : 300 - 6000 rpm
- Viscosity max. : 5000 mPas
- Speed deviation : 10 %
- Speed adjustment : stepless
- Noise without element : 50 dB(A)
- Process type : batch
- Dimensions (W x H x D) : 100 x 40 x 160 mm
- Weight : 0.75 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80 %
- Protection class according to DIN EN 60529 : IP 20
- Voltage : 100 - 240 V
- Frequency : 50/60 Hz
- Power input : 20 W
- DC Voltage : 24 V=
- Current consumption : 800 mA

c. UTTD control Pharma Solution, Cat.No., 0010013297



Crushing and dissolving of tablets for subsequent analysis. Many standardized test procedures in the pharmaceutical industry, such as the pharmacopoeia tests described in official compendia (United States Pharmacopoeia (USP 905), European Pharmacopoeia (PhEur 2.9.40), etc.), require the crushing and dissolution of tablets as a first step before further analysis. The challenges in sample preparation include the avoidance of cross-contamination between sample batches, time-consuming cleaning and the often small sample quantities. The UTTD control Pharma Solution has been specially developed by the IKA product experts to overcome these challenges.

Scope of delivery

- ULTRA-TURRAX® Tube Drive P control
- DIS-300-S-M.10 Dissolver tube, 300 ml, 10 pcs.

Technical Data

- Motor rating input : 36 W
- Motor rating output : 28 W
- Speed display : OLED
- Speed range : 400 - 8000 rpm
- Viscosity max. : 5000 mPas
- Timer : yes
- Timer display : OLED
- Speed deviation : 3 %
- Speed adjustment : 10 RPM Steps
- Noise without element : 50 dB(A)
- Process type : batch
- Reversible direction of rotation : yes
- Dimensions (W x H x D) : 122 x 54 x 178 mm
- Weight : 1.3 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80 %
- Protection class according to DIN EN 60529 : IP 20
- USB interface : USB-B
- Voltage : 100 - 240 V
- Frequency : 50/60 Hz
- Power input : 36 W
- DC Voltage : 24 V=
- Current consumption : 1500 mA

B. Mills

a. Tube Mill 100 control, Cat.No., 0020007144



The Tube Mill 100 control accommodates larger grinding chambers with a maximum volume of 100 ml (MT 100) . The grinding chamber and cover are made of a transparent material so grinding tests can be observed at any time. The mill can be used for hard (Mohs hardness up to 5), dry and brittle materials. It is especially suitable for grinding seeds, such as corn and wheat.

Scope of delivery

- MT 100 milling tube, 100 ml
- MT 40 milling tube, 40 ml
- MMT 40.1 Multi-use milling tube
- Coupling extractor
- USB A-B Cable

Technical Data

- Motor rating input : 100 W
- Motor rating output : 80 W
- Speed range : 5000 - 25000 rpm
- Process type : batch
- Circumferential speed max. : 65 m/s
- Useable volume max. : 100 ml
- Feed hardness max. : 5 Mohs
- Feed grain size max. : 10 mm
- Power-ON time : 3 min
- Mill feed can be cooled in milling chamber with dry ice : yes
- Operating principle : cutting/impact
- Speed deviation : ± 2 %
- Dimensions (W x H x D) : 180 x 212 x 300 mm
- Weight : 2.8 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80 %
- Protection class according to DIN EN 60529 : IP 30
- USB interface : USB-B
- Voltage : 220 - 240 V
- Frequency : 50/60 Hz
- Power input : 100 W

b. Tube Mill control, Cat.No., 0004180000



The mill can be used for hard (Mohs hardness up to 5), dry and brittle materials. It is especially suitable for grinding seeds, such as corn and wheat. During development of the mill, particular emphasis was placed on security. The mill will only start when the hood is closed. When the grinding chamber is

not inserted properly or not closed properly, the drive unit will display an error message and the drive will not start.

Scope of delivery

- MT 40 milling tube, 40 ml
- MMT 40.1 Multi-use milling tube
- Coupling extractor
- USB A-B Cable

Technical Data

- Motor rating input : 100 W
- Motor rating output : 80 W
- Speed range : 5000 - 25000 rpm
- Process type : batch
- Circumferential speed max. : 65 m/s
- Useable volume max. : 40 ml
- Feed hardness max. : 5 Mohs
- Feed grain size max. : 10 mm
- Power-ON time : 3 min
- Mill feed can be cooled in milling chamber with dry ice : yes
- Operating principle : cutting/impact
- Speed deviation : ± 2 %
- Dimensions (W x H x D) : 180 x 170 x 300 mm
- Weight : 2.7 kg
- Permissible ambient temperature : 5 - 40 °C
- Permissible relative humidity : 80 %
- Protection class according to DIN EN 60529 : IP 30
- USB interface : USB-B
- Voltage : 220 - 240 V
- Frequency : 50/60 Hz
- Power input : 100 W