

IKA® Crushing

Dispersers (batch operation)

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**NEW!****BMT-50-S-M**

Now more types of tube!

Technical data	
Rating input	20 W
Rating output	17 W
Speed range, infinitely adjustable	300 – 6.000 rpm
Timer	
1 – 59 s	(300 – 6.000 rpm)
1 – 29 min	(300 – 4.000 rpm)
Display timer	digital
Dimensions (W x D x H)	100 x 160 x 40 mm
Volume 20 ml Tube	2 - 20 ml
50 ml Tube	15 - 50 ml
Weight	0,75 kg
Protection class acc. to DIN EN 60529	IP 20

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, tumor biology, immunology, chemistry, cosmetics

ULTRA-TURRAX® Workstation

Included with delivery (page):
 1 x ULTRA-TURRAX® Tube Drive (71),
 2 x ST-20 Tube with stirring device (72),
 2 x DT-20 Tube with rotor-stator element (72),
 2 x BMT-20 G / S Tube for grinding with glass balls (G) or with stainless steel balls (S) (72),
 1 x removal hook for removal the rotor-stator unit, power supply

ULTRA-TURRAX® Tube Drive

A unique, universal, single-use dispersing system with hermetically sealable sample vessels. Protection and security for: Infectious sample materials, toxic substances, high-odour substances.
 new: Gamma-sterilised tubes
 new: Tubes with piercable membrane covers
 new: Tubes with 50 ml volume

- Disperse, stir and grind using a single drive unit
- No possibility of cross-contamination
- Hermetically sealable disposable sample tubes
- High level of user safety
- Suitable for individual use and use in series
- Anti-locking function
- Increases safety due to low voltage (24 V)
- Chemical-resistant plastic
- Simple and safe disposal
- Worldwide service guaranteed by IKA®
- Patented



Ident. No.
3646000 100 – 240 V 50/60 Hz

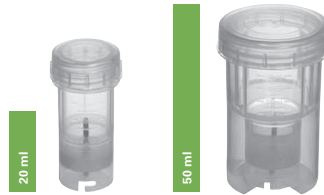


Ident. No.
3645000 100 – 240 V 50/60 Hz

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72 Accessories Dispenser (Tube Drive)

ST

**Tube with stirring device**

Suitable for:

- Mixing
- Stirring
- Extractions
- Preparation of soil sample suspensions

Application examples for the ST Tube

- Dissolving properties of drugs
- Incorporation of coloured pigments into a solvent
- Accelerated dissolution of sugar solutions
- Extraction of plant substances
- Accelerated dissolution of tablets, dragées, suppositories and capsules
- Mixing of fluids with higher viscosities

DT

**Tube with rotor-stator element**

Suitable for:

- Dispersion
- Homogenisation
- Suspensions
- Pharmacokinetics
- Metabolism studies
- Diagnosis

Application examples for the DT Tube

- Homogenisation of tissue samples including brain, liver, muscle tissue, kidney and lung
- Milling of plant samples including rosemary, rapeseed, tomato seeds, grapes, potatoes, cress, leaves and roots
- Production of O/W and W/O emulsions
- Homogenisation of effluent samples

BMT G/S

**Tube for grinding with glass balls (G) or with stainless steel balls (S)**

Suitable for:

- Dry milling of dry and brittle samples (e.g. kaolin, gypsum, coloured pigments, tablets)
- Cell maceration
- Processing of materials mixed with fluids

Application examples for the BMT G/S Tube

- Decomposition of animal, plant and human cells
- Dry milling of e.g. pigments, building materials and coal samples
- Dry milling of freeze-dried samples
- Milling of samples to determine water content

M

**Tube with pierceable membrane**

Suitable for:

- Introduction of media during the stirring, dispersing or milling process
- Sample extraction during the stirring, dispersing or milling process

Application examples for the M Tube

- Sample extraction from dissolved pharmaceuticals
- Addition of a reaction partner, e.g. for pigment reactions
- Storage of samples in the tube, with option to remove material from the closed container at any time
- No contamination when removing samples of materials hazardous to health

gamma

**gamma sterilised tube**

Suitable for:

- Grinding, mixing and dispersing under sterile conditions
- Aseptic storage of samples (tissue, blood, etc.)

Application examples for the gamma tube

- Homogenisation of sterile samples e.g. for medical, pathology and pharmaceutical use
- Storage of sterile sample material after preparation directly in the sample vessel (even at temperatures down to -20 °C)
- Simple handling during preparation of aseptic samples in the laboratory



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73 Accessories Dispenser (Tube Drive)

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74 Accessories Disperser (Tube Drive)

20 ml				
Ident. No.	Product description	With pierceable membrane	Gamma sterilised	Quantity per pack
3703000	ST-20	-	-	25
3703100	DT-20	-	-	25
3703200	BMT-20-S	-	-	25
3703300	BMT-20-G	-	-	25
3749300	ST-20-gamma	-	+	20
3749400	DT-20-gamma	-	+	20
3749500	BMT-20-S-gamma	-	+	20
3749700	TC-20	-	-	25
3702500	ST-20-M	+	-	25
3702600	DT-20-M	+	-	25
3702700	BMT-20-S-M	+	-	25
3702800	BMT-20-G-M	+	-	25
3700500	ST-20-M-gamma	+	+	20
3700600	DT-20-M-gamma	+	+	20
3700700	BMT-20-S-M-gamma	+	+	20
3749900	TC-20-M	+	-	25

50 ml				
Ident. No.	Product description	With pierceable membrane	Gamma sterilised	Quantity per pack
3699500	ST-50	-	-	10
3699600	DT-50	-	-	10
3699700	BMT-50-S	-	-	10
3699800	BMT-50-G	-	-	10
3799500	ST-50-gamma	-	+	10
3799600	DT-50-gamma	-	+	10
3799700	BMT-50-S-gamma	-	+	10
3749800	TC-50	-	-	25
3629500	ST-50-M	+	-	10
3629600	DT-50-M	+	-	10
3629700	BMT-50-S-M	+	-	10
3629800	BMT-50-G-M	+	-	10
3701500	ST-50-M-gamma	+	+	10
3701600	DT-50-M-gamma	+	+	10
3701700	BMT-50-S-M-gamma	+	+	10
3750000	TC-50-M	+	-	25

BMT		
Ident. No.	Product description	Quantity per pack
3599200	Glass balls Ø 6 mm	250 g
3599300	Stainless steel balls Ø 6 mm	250 g



Dispersion example: liver

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Dispersers (batch operation)

75

Technical data	
Motor rating input	125 W
Motor rating output	75 W
Volume range (H ₂ O)	0,5 – 100 ml
Max. viscosity	5.000 mPas
Speed adjustment	stepless
Speed range	8.000 – 30.000 rpm
Speed stability	< 6 %
Speed display	scale
Noise without dispersing element	65 dB (A)
Overload protection	yes
Permitted ON-time (ON / OFF)	max. 10 min / min. 5 min
General data	
Dimensions (W x D x H)	46 x 57 x 201 mm
Weight	0,4 kg
Permissible ambient temperature	5 – 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 30

T 10 basic ULTRA-TURRAX®

Competitively priced dispersing instrument for volumes of 0,5 to 100 ml. A wide speed range allows you to work at high circumferential speeds even with small rotor diameters. Perfect ergonomic finish.

- **Quick-release coupling makes changing the dispersing elements easy**
- Immense speed stability with various materials due to high performance 125 Watt drive
- Ideal for manual operation due to its light weight and ergonomic form
- Extremely mobile due to direct line power (no transformer required)
- Stainless steel dispersing elements (5 mm, 8 mm and 10 mm diameter) can be cleaned quickly and easily as they can be dismounted without tools
- Plastic disposable dispersing elements in two sizes, particularly suitable for PCR analysis
- Included with delivery: empty storage case (for drive, clamp, dispersing elements) and spare seals and clamp R 200



Ident. No.	230 V 50/60 Hz
3420000	230 V 50/60 Hz
3420001	115 V 50/60 Hz

Accessories (page):

R 200 Clamp (126), R 104 Stand (124), H 44 Boss head clamp (126), Dispersing elements (82): S 10 N – 5 G, S 10 N – 8 G, S 10 N – 10 G, Plastic dispersing elements (84): S 10 D – 7 G – KS – 65, S 10 D – 7 G – KS – 110