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## Workstation: Always Ready to Use



### ULTRA-TURRAX® Workstation

Included with delivery:

1 x removal hook for removal of the rotor-stator unit, power supply

1 x ULTRA-TURRAX® Tube Drive

1 x case

2 x ST-20 Tube with stirring device,  
 2 x DT-20 Tube with rotor-stator element,  
 2 x BMT-20 G / S Tube for grinding with glass balls (G) or with stainless steel balls (S)

### 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

### Technical data

Rating input / output	20 W / 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
<b>General data</b>	
Dimensions Tube Drive (W x D x H)	100 x 180 x 40 mm
Weight Tube Drive	0,75 kg
Permissible ambient temperature	5 - 40 °C
Permissible relative humidity	80 %
Protection class acc. to DIN EN 60529	IP 20
Ident. No. Tube Drive	3645000
Ident. No. Workstation	3645000

## Overview: Tubes

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

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



Designed to work perfect

Subject to technical changes.  
 Indications not binding for delivery.



Designed to work perfect

## ULTRA-TURRAX® Tube Drive

The single-use wonder disperser: one device - many applications



2008 NEW: NOW WITH MORE TYPES OF TUBE

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**IKA®**

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## 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 pierceable membrane in the lid
- New: 20 ml and 50 ml tubes
- 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



## and the right accessories -



- ST**  
**Tube with stirring device**  
 Suitable for:
- Mixing
  - Stirring
  - Extractions
  - Preparation of soil sample suspensions



- DT**  
**Tube with rotor-stator element**  
 Suitable for:
- Dispersion
  - Homogenisation
  - Suspensions
  - Pharmacokinetics
  - Metabolism studies
  - Diagnosis



- 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



- 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



- gamma**  
 **$\gamma$ -sterilised tube**  
 Suitable for:
- Grinding, mixing and dispersing under sterile conditions
  - Aseptic storage of samples (tissue, blood, etc.)

## for every application.



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



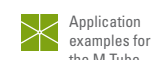
Application examples for the DT Tube

- 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



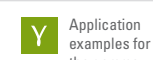
Application examples for the BMT G/S Tube

- 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



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



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