

Dispersers



Dispersers | From Invention to Innovation

Proven and precise technology for 60 years

ULTRA-TURRAX® - the epitome of first-rate dispersing devices enable the best possible results whether used for homogenization, emulsification or suspensions. The IKA® range of dispersers are used for volumes ranging from 0.5 to 50,000 ml (H₂O) and come equipped with a digital display. These dispersers offer a wide speed range up to 30,000 rpm that enables users to work at high circumferential speeds even with small rotor diameters. The high-performance drive ensures immense speed stability. Due to their broad spectrum of dispersing tools, IKA® dispersers are highly effective for a variety of uses.

The unique and patented ULTRA-TURRAX® Tube Drive system is the world's first disperser system with disposable and sealed sample tubes. Multiple tube styles are available for mixing, homogenizing and grinding for a variety of applications.

The magic LAB® is a unique and multi-functional small-scale laboratory machine. It is designed for mixing, dispersing, wet milling and for the incorporation of powders into liquids. The magic LAB® is most frequently used for the development of new products or for optimizing existing process techniques. It is an ideal machine for continuous, circulating and batch processing with interchangeable modules.







Scale-up principle

IKA® dispersers have a high degree of flexibility and scalability. Therefore, ensuring reliable scale-up by offering the possibility to work with the same method from formulation development to production.

Patented





Protection class according to DIN EN 60529: IP 42



imLab









winner 2012

reddot design award

T-series | Innovative solutions for dispersion technology



T-series range of dispersers are designed for mixing and dispersing of products with a wide range of viscosities. This series of dispersers enables the best possible results for any application with improved product quality and better stability.



Digital display for precise monitoring of set and actual speeds



Wide selection of dispersing tools to suit your application



Rotating knob for adjusting



Quick-connect coupling to exchange dispersing tools easily

Motor protection against



2+1 year after registering



Trial devices

You may request demo units in order to experience our high-quality disperser offerings first hand.









1 Plate stands

R 1825 R 1826 800 mm R 1827 1000 mm

With slip resistant foil.



Ident. No.		
0003160000	R 1825	560 mm
0003160100	R 1826	800 mm
0003160200	R 1827	1000 mm

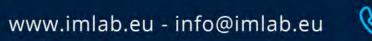


0002657700

0000593400



IKA°+







Technical data | T-series ULTRA-TURRAX® Dispersers





reddot design award winner 2012

T10 standard PCR Kit Includes:

- > T 10 basic
- > Clamp R 200
- > Storage case
- > Dispersing elements
- > S 10 D 7 G KS 65 > S 10 D - 7 G - KS - 110



Dispersing tools are not included in delivery

Technical data
Motor rating input / output
Volume range (H ₂ O)
Viscosity max.
Speed range
Speed display
Speed control
Noise without element
Extension arm diameter
Extension arm length
Process type
Dimensions (W x D x H)
Weight
Perm. ambient temperature
Permissible relative moisture
Protect. class DIN EN 60529
Interface
Voltage

Frequency

T 10 basic | T 10 standard PCR kit

125 / 75 W
0.5 - 100 ml
5000 mPas
8000 — 30,000 8,000 - 26,000 rpm
scale
stepless
65 dB(A)
8 mm
130 mm
batch
56 x 66 x 178 mm
0.5 kg
5 – 40 °C
80 %
IP 30
no
230 V



T 18 digital

	500 / 300 W
	1 – 1500 ml
	5000 mPas
	3000 – 25,000 rpm
	LED
	stepless
	75 dB(A)
	13 mm
	160 mm
	batch
-	87 x 106 x 271 mm
	2.5 kg
	5 – 40 °C
	80 %
-	IP 20
	no
	200 – 240 V
-	50/60 Hz
-	

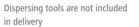




T 25 digital

800 / 500 W	
1 – 2000 ml	
5000 mPas	
3000 – 25,000 rpm	
LED	
stepless	
75 dB(A)	
13 mm	
160 mm	
batch	
87 x 106 x 271 mm	
2.5 kg	
5 – 40 °C	
80 %	
IP 20	
no	
200 – 240 V	
50/60 Hz	





Te	chnical data
M	otor rating input / output
Vc	olume range (H₂O)
Vi	scosity max.
Sp	eed range
Sp	eed display
Sp	eed control
No	oise without element
Ех	tension arm diameter
Ex	tension arm length
Pr	ocess type
Di	mensions (W x D x H)
W	eight
Pe	rm. ambient temperature
Pe	rmissible relative moisture
Pr	otect. class DIN EN 60529
In	terface
Vc	ltage
Fr	equency



T 50 digital

1100 / 700 W
0.25 – 30
5000 mPas
600 — 10,000 rpm
LED
stepless
72 dB(A)
16 mm
220 mm
batch
115 x 139 x 355 mm
5.76 kg
5 – 40 °C
80 %
IP 20
no
200 – 240 V
50/60 Hz



1	800 / 1500 W
2	2 – 50 l
5	6000 mPas
7	200 rpm (fixed)
-	-
f	ixed
7	'5 dB(A)
f	lange
f	lange
b	patch
1	85 x 400 x 450 mm
2	!6 kg
5	5 – 40 °C
8	30 %
I	P 54
r	10
3	3 x 400 V
5	60 Hz

Ident. No. 0003787000



T 65 digital

2600 / 2200 W
2 — 50 l
5000 mPas
1000 — 9500 rpm
LED
stepless
75 dB(A)
flange
flange
batch
300 x 400 x 390 mm
29 kg
5 – 40 °C
80 %
IP 54
no
3 x 400 V
50/60 Hz

Ident. No. 0004234500





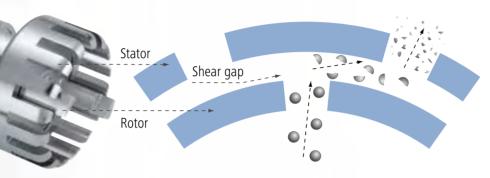


Ident. No. 0004023500

IKA® Original | **Dispersing tools**

IKA® dispersing technology works by using the rotor-stator principle. The system consists of a rotor within a stationary stator. Due to the high circumferential speed, the medium to be processed is drawn axially into the dispersion head and then forced radially through the slots in the rotor-stator arrangement. The high speed and minimal gap between the rotor and stator produces extremely strong shear forces which results in better dispersion.

A wide variety of rotor-stator configurations and seals are required to process different mediums. In order to make the device adaptable to the user's specific needs, it is sometimes necessary to use two dispersing tools to achieve from coarse to fine particle size reduction. The guick-connect coupling facilitates the exchange of dispersing tools.



IKA°+ **Special accessories!**

> Bronze bearings to serve

in a variety of applications

> FDA-variant KV shafts are only available through special order

basic | standard

(A)

For dispersing instrument	Dispersing element Shaft / Agitator shaft		Generator or element**	With outer diameter (mm)	Degree of fineness achieved***
T 10 basic	S 10	N	-	5/8/10	G
T 18 digital	S 18	N	-	10 / 19	G
T 25 digital	S 25	N / KV / NK / KR	-	8 / 10 / 18 / 19 / 25	
T 50 digital	S / R 50	N / B / KR	G/W	45 / 65 / 80	G/M/F
T 65 basic	S 65	KG – HH / KR	G	65	G/M/F
T 65 digital	S 65	KG - HH / KR	G	65	G/M/F

= PTFE bearing

= Ball bearing with vacuum-tight sliding-ring seal with silicon carbide seal rings

= PTFE bearing with additional ball bearing without seal KG – HH = Ball bearing with sliding-ring seals of hard metal allow with FFPM seals rings

= Bronze bearing

T 18

digital

KR = Ball bearing with FKM or FFPM seal

> = Proved configuration = Special element

***G = Coarse

= Medium

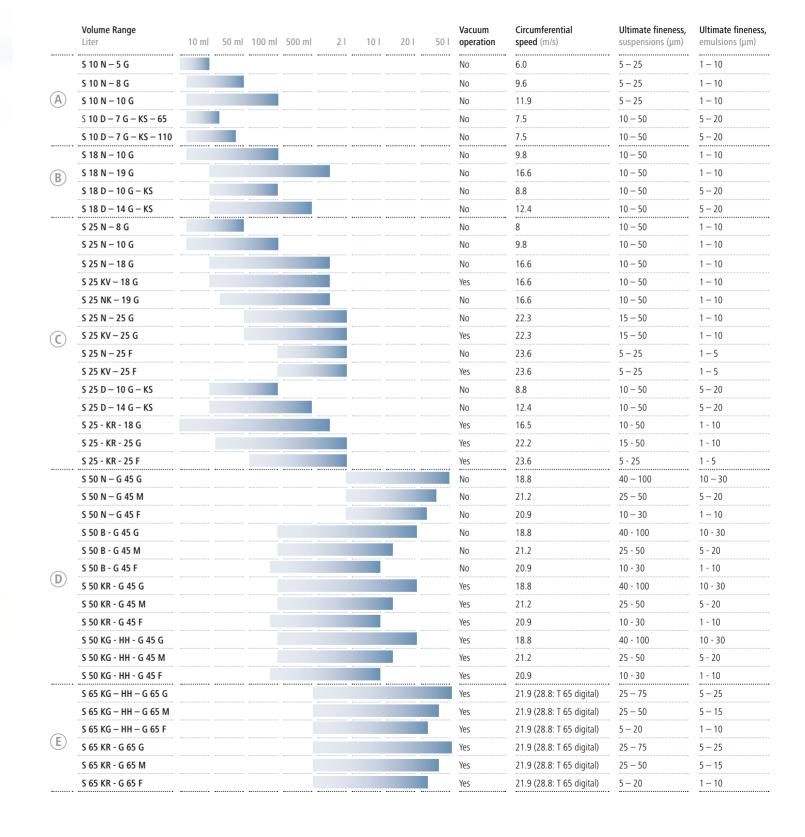
**G

W

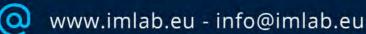
= Fine

T 25 T 50 T 65 T 65 digital digital basic

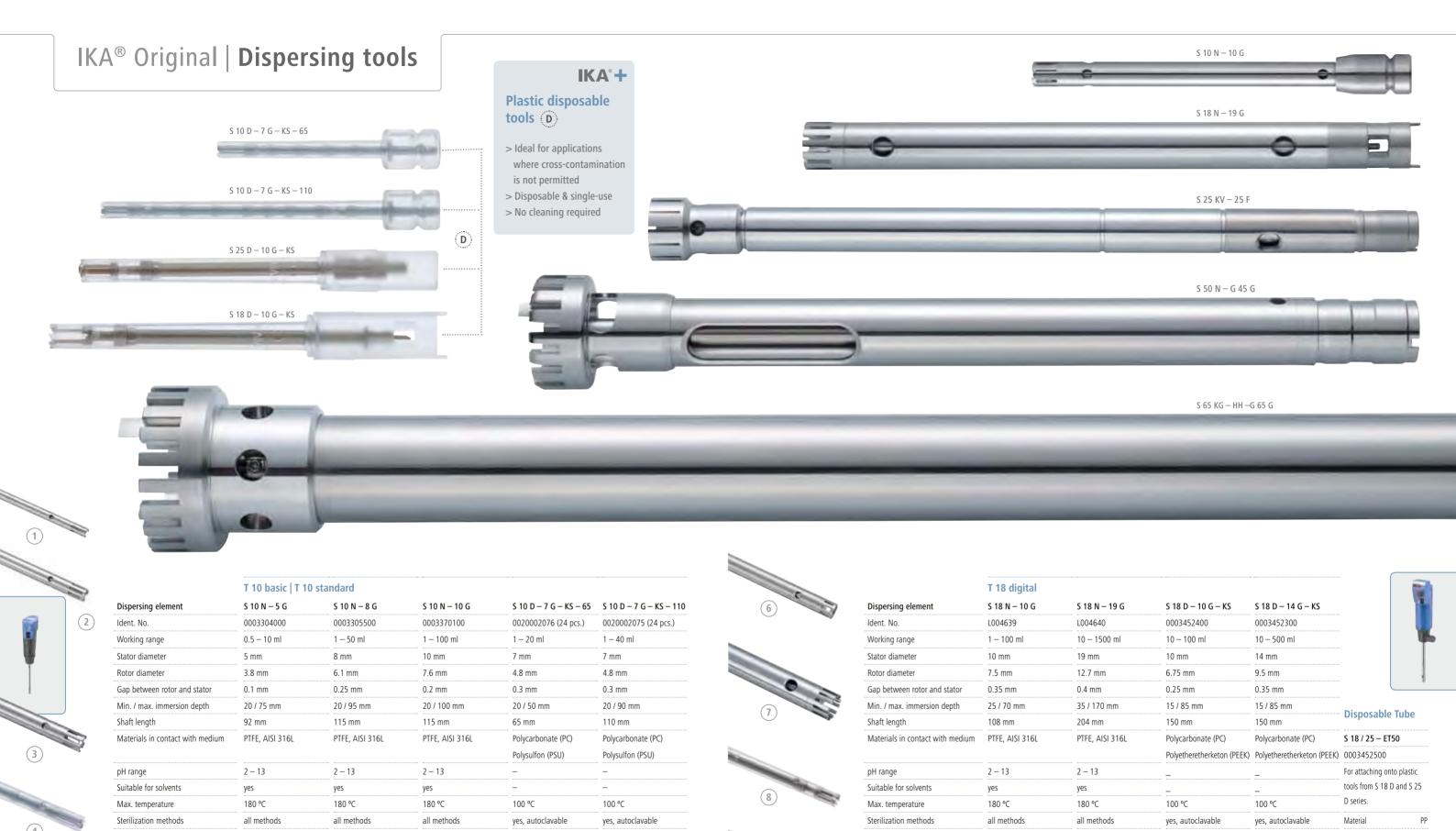
Find the right dispersing tool to suit your application













(1)

5



(3)





(6)

(7)

(2)

(8) (**D**)

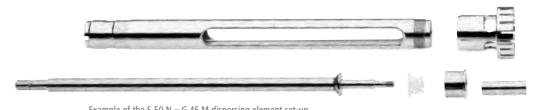
(4) (**D**)

(5) **D**

(10)

9 **D**

IKA® Original | **Dispersing tools**





		T 25 digital				
	Dispersing element	S 25 N - 8 G	S 25 N - 10 G	S 25 N - 18 G	S 25 KV – 18 G	S 25 NK – 19 G
	Ident. No.	0001024200	0000594000	0000593400	0002348000	0002494700
	Working range	1 – 50 ml	1 – 100 ml	10 - 1500 ml	10 – 1500 ml	25 — 1500 ml
	Stator diameter	8 mm	10 mm	18 mm	18 mm	19 mm
10	Rotor diameter	6.1 mm	7.5 mm	12.7 mm	12.7 mm	12.7 mm
	Gap between rotor and stator	0.25 mm	0.35 mm	0.3 mm	0.3 mm	0.3 mm
	Min. / max. immersion depth	27 / 85 mm	22 / 85 mm	40 / 165 mm	40 / 225	40 / 165 mm
	Shaft length	108 mm	105 mm	194 mm	270 mm	194 mm
	Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L	FFPM / SIC, AISI 316L	PTFE, AISI 316L
(11)	pH range	2 – 13	2 – 13	2 – 13	2 – 13	2 – 13
	Suitable for solvents	yes	yes	yes	yes	yes
	Max. temperature	180 °C	180 °C	180 °C	220 °C	120 °C
	Sterilization methods	all methods	all methods	all methods	wet chemical	wet chemical
	Min. vacuum	_	_	_	1 mbar	_
	Max. pressure	-		-	6 bar	_

(11)

(12)

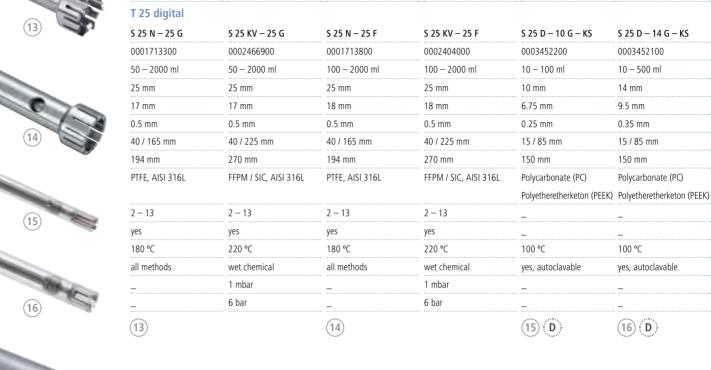
	T 25 digital		
Dispersing element	S 25 – KR – 18 G	S 25 – KR – 25 G	S 25 – KR – 25 F
Ident. No.	0020002971	0020002972	0020002975
Working range	10 – 1500 ml	50 – 2000 ml	100 — 2000 ml
Stator diameter	18 mm	25 mm	25 mm
Rotor diameter	12.7 mm	17 mm	18 mm
Gap between rotor and stator	0.3 mm	0.5 mm	0.5 mm
Min. / max. immersion depth	40 – 185 mm	40 — 185 mm	40 — 185 mm
Shaft length	194 mm	194 mm	194 mm
Materials in contact with medium	FKM, PTFE, AISI 316L	FKM, PTFE, AISI 316L	FKM, PTFE, AISI 316L
pH range	2 – 13	2 – 13	2 – 13
Suitable for solvents	no	no	no
Max. temperature	110 °C	110 °C	110 ℃
Sterilization methods	wet chemical	wet chemical	wet chemical
Min. vacuum	50 mbar	50 mbar	50 mbar

(10)



Cleaning tool for cleaning three dispersing elements. The cleaning tool consists of an aluminum stand, three cleaning tubes (PP) and three covers with openings (PP).

Material tubes	PP	
Material lid	PP	
Material stand	aluminum anodized	
Ident. No. 0020003013		
Fits the following elements:	ng dispersing	
S25N-18G/18G-ST		
S25N-25G/F/25G-ST		





	T 50 digital		
Dispersing element	S 50 N – G 45 G	S 50 N - G 45 M	S 50 N – G 45 F
dent. No.	0008003000	0008003300	0008003900
Norking range	0.5 – 20 l	0.5 — 15 l	0.25 – 10 l
itator diameter	45 mm	45 mm	45 mm
Rotor diameter	36 mm	40.5 mm	40 mm
Gap between rotor and stator	0.5 mm	0.25 mm	0.5 mm
Min. / max. immersion depth	70 / 250 mm	70 / 250 mm	70 / 250 mm
Shaft length	300 mm	290 mm	290 mm
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L
oH range	2 – 13	2 – 13	2 – 13
Suitable for solvents	yes	yes	yes
Max. temperature	180 °C	180 °C	180 °C
Sterilization methods	all methods	all methods	all methods
	(17)	(18)	(19)











S25KR-18G/18G-ST S25KR-25G/25F/25G-ST S25KV-18G/25G/25F



	T 65 basic I digital		
Dispersing element	S 65 KG – HH – G 65 G	S 65 KG – HH – G 65 M	S 65 KG – HH – G 65 F
ldent. No.	0008005500	0008005700	0008005900
Working range	2 – 50 l	2 – 40 l	2 – 30 l
Stator diameter	65 mm	65 mm	65 mm
Rotor diameter	58 mm	58 mm	58 mm
Gap between rotor and stator	0.5 mm	0.5 mm	0.5 mm
Min. / max. immersion depth	90 / 450 mm	80 / 450 mm	80 / 450 mm
Shaft length	520 mm	510 mm	500 mm
Materials in contact with medium	FFPM / SIC, AISI 316L	FFPM / SIC, AISI 316L	FFPM / SIC, AISI 316L
pH range	2 – 13	2 – 13	2 – 13
Suitable for solvents	yes	yes	yes
Max. temperature	180 °C	180 °C	180 °C
Sterilization methods	wet chemical	wet chemical	wet chemical
Min. vacuum	1 mbar	1 mbar	1 mbar
Max. pressure	6 bar	6 bar	6 bar

T 50 digital

S 50 B – G 45 G	S 50 B – G 45 M	S 50 B – G 45 F	S 50 KR – G 45 G	S 50 KR – G 45 M	S 50 KR – G 45 F
0010000633	0010000634	0010000635	0010000629	0010000630	0010000631
0.5 – 20 l	0.5 – 15	0.25 – 10	0.5 – 20	0.5 – 15	0.25 – 10 l
45 mm	45 mm	45 mm	45 mm	45 mm	45 mm
36 mm	40.5 mm	40 mm	36 mm	40.5 mm	40 mm
0.5 mm	0.25 mm	0.5 mm	0.5 mm	0.25 mm	0.5 mm
70 – 250 mm	70 – 250 mm	70 – 250 mm	70 – 260 mm	70 – 260 mm	70 – 260 mm
300 mm	300 mm	300 mm	300 mm	300 mm	300 mm
AISI 316L, bronze	AISI 316L, bronze	AISI 316L, bronze	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L
2 – 13	2 – 13	2 – 13	2 – 13	2 – 13	2 – 13
yes	yes	yes	no	no	no
180 °C	220 °C	180 °C	110 °C	110 °C	110 °C
all methods	all methods	all methods	wet chemical	wet chemical	wet chemical
_			100 mbar	100 mbar	100 mbar
	_	_	_	_	_

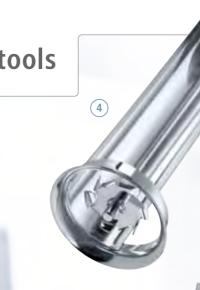
T 65	hasic	l dinita

Dispersing element	S 65 KR – G 65 G	S 65 KR – G 65 M	S 65 KR – G 65 F
Ident. No.	0010000641	0010000642	0010000643
Working range	2 – 50 l	2 – 40 l	2 – 30 l
Stator diameter	65 mm	65 mm	65 mm
Rotor diameter	53 mm	58 mm	58 mm
Gap between rotor and stator	0.5 mm	0.5 mm	0.5 mm
Min. / max. immersion depth	90 – 450 mm	80 – 450 mm	80 – 450 mm
Shaft length	520 mm	510 mm	500 mm
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L
pH range	2 – 13	2 – 13	2 – 13
Suitable for solvents	no	no	no
Max. temperature	80 °C	80 °C	80 °C
Sterilization methods	wet chemical	wet chemical	wet chemical
Min. vacuum	100 mbar	100 mbar	100 mbar
Max. pressure	_	_	_













S 25 NK-19 G

The flow breaker is used to prevent vortexing and to minimize air induction into the medium.

Ident. No. 0003754000

Fits the following dispersing elements: S 25 KV-18 G S 25 N-18 G S 25 N-25 G S 25 KV-25 G

S 25 KV-25 F S 25 N-25 F S 18 N-19 G

T 10 basic

Dispersing element	S 10 N - 8 G - ST	S 10 N – 10 G – ST
dent. No.	0004446500	0004446700
Vorking range	1 – 50 ml	1 – 100 ml
tator diameter	8 mm	10 mm
otor diameter	6.1 mm	7.6 mm
ap between rotor and stator	0.25 mm	0.2 mm
/lin. / max. immersion depth	20 / 95 mm	20 / 100 mm
haft length	115 mm	115 mm
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L

S 50 N - W 65 SK



S 50 N - W 80 SMK

Jet mixer head 0008006300

1 – 50 l

T 25 basic

S 25 N - 8 G - ST	S 25 N - 10 G - ST	S 25 N - 18 G - ST	S 25 N - 25 G - ST	S 25 – KR – 18 G – ST	S 25 – KR – 25 G – ST
0004446900	0004447100	0004447300	0004447500	0020002973	0020002974
1 – 50 ml	1 – 100 ml	10 – 1500 ml	50 – 2000 ml	10 — 1500 ml	50 – 2000 ml
8 mm	10 mm	18 mm	25 mm	18 mm	25 mm
6.1 mm	7.5 mm	12.7 mm	17 mm	13.4 mm	20 mm
0.25 mm	0.35 mm	0.3 mm	0.5 mm	0.25 mm	0.5 mm
27 / 85 mm	22 / 85 mm	40 / 165 mm	40 / 165 mm	40 – 185 mm	40 – 185 mm
108 mm	105 mm	194 mm	194 mm	194 mm	194 mm
PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L	FKM, PTFE, AISI 316L	FKM, PTFE, AISI 316L



2



T 50 digital

Dispersing element	S 50 N - G 45 G - ST	S 50 B – G 45 G – ST	S 50 KR – G 45 G – ST	S 50 KG - HH - G 45 G - ST S 50 KG - HH - G 45 G - ST, FDA
Ident. No.	0008039500	0010000636	0010000632	0010000648 0010000640
Working range	0.5 – 20 l	0.5 – 15 l	0.5 – 20 l	0.5 – 20 l
Stator diameter	45 mm	45 mm	45 mm	45 mm
Rotor diameter	36 mm	38 mm	38 mm	38 mm
Gap between rotor and stator	0.5 mm	0.5 mm	0.5 mm	0.5 mm
Min. / max. immersion depth	70 / 250 mm	70 – 250 mm	70 – 260 mm	70 – 260 mm
Shaft length	300 mm	300 mm	300 mm	300 mm
Materials in contact with medium	PTFE, AISI 316L	AISI 316L, bronze	PTFE, AISI 316L	PTFE, AISI 316L
pH range	_	2 – 13	2 – 13	2 – 13
Suitable for solvents	_	yes	no	no
Max. temperature	_	180 °C	110 °C	110 °C
Sterilization methods	_	all methods	wet chemical	wet chemical

T 50 digital

shredding fibrous materials

> Made of high quality stainless

Dispersing element	R 50 "high s _l stirring shaft
Ident. No.	0001689300
Working range	0.25 – 30 l
Max. circumferential speed	15.7 – 23 m/s
Max. permissible rotor diameter	50 mm
Material	Stainless steel
Generator diameter	_
Min. / max. immersion depth	_
Available seals	_

Cutting head 0008005100 1 - 10 | el (AISI 316L) 65 mm 80 / 350 mm S 50 N

80 mm 140 / 350 mm S 50 N (6)

(5)

* Included with delivery: R 1402 Dissolver Ident. No. 0001243300

AVAILABLE 06/2015









UTTD | ULTRA-TURRAX® Tube Drive control



USB interface to control and document all the parameters using labworldsoft® software and for updating your firmware



Turbo function for short time intensive mixing, homogenizing or grinding



Multilingual OLED display for simple and precise menu navigation



Built-in program library for tests to be repeated under identical conditions



Reverse rotation switch to optimize mixing and crushing performance

Protection class DIN EN 60529





red<mark>dot</mark> design award winner 2012





	UTTD ULTRA-TURRAX® Tube Drive	UTTD ULTRA-TURRAX® Tube Drive control
Technical data		
Motor rating input / output	20 / 17 W	20 / 17 W
Speed range / Turbo speed	300 — 6000 rpm / —	400 — 6000 rpm / 8000 rpm
Display / Speed display	LED (timer) / scale	OLED / digital
Timer	1 s – 29 min	10 s — 30 min (infinitely adjustable)
Reverse rotation interval	_	10 — 60 s
Dimensions (W x D x H)	100 x 40 x 160 mm	122 x 178 x 48 mm
Weight	0.75 kg	1.0 kg

IP 20

100 - 240 V

50/60 Hz

Ident. No. 0003646000	Ident. No. 0004135300

	UTTD Workstation	UTTD control Workstation
Included with delivery		
ULTRA-TURRAX® Tube Drive control	1	1
ST-20 Tube with stirring device	2	1
DT-20 Tube with rotor-stator element	2	1
BMT-20 G /S Tube for grinding with glass (G) or stainless steel balls (S)	2	2
Removal hook for removal of rotor-stator	1	1
Power supply	1	1
	Ident. No. 0003645000	Ident. No. 0003827500

Accessories | IKA® Tubes

ST Tube with stirring devices



	Ident. No
T-20 (pack of 25)	0003703000
T-20-M-gamma (pack of 20)	0003700500
T-50 (pack of 10)	0003699500
T-50-M (pack of 10)	0003629500
T-50-M-gamma (pack of 10)	0003701500

DT Tube with rotor-stator element



	Ident. No.
DT-20 (pack of 25)*	0003703100
DT-20-M-gamma (pack of 20)*	0003700600
DT-20 eco (pack of 25)**	0020003207
DT-50 (pack of 10)*	0003699600
DT-50-M (pack of 10)*	0003629600
DT-50-M-gamma (pack of 10)*	0003701600
DT-50 eco (pack of 10)**	0020003213

- * Rotor-stator element made with PEEK
- ** Rotor-stator element made with PSU

BMT-S/G Tube for grinding with stainless steel (S) or glass (G) balls



	idelli. Ito.
BMT-20-S (pack of 25)	0003703200
BMT-20-G (pack of 25)	0003703300
BMT-20-S-M-gamma (pack of 20)	0003700700
BMT-50-S (pack of 10)	0003699700
BMT-50-G (pack of 10)	0003699800
BMT-50-S-M (pack of 10)	0003629700
BMT-50-G-M (pack of 10)	0003629800
BMT-50-S-M-gamma (pack of 10)	0003701700

Cover for BMT tube



	ident. No.
TC-50; for 50 ml tubes (10 pcs.)	0003749800
TC-20-M; with pierceable membrane for 20 ml tubes (25 pcs.)	0003749900
TC-50-M; with pierceable membrane for 50 ml tubes (10 pcs.)	0003750000

Balls for BMT tube

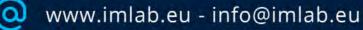
	ldent. No.
Glass balls Ø 6 mm (250 g)	0003599200
Stainless steel balls Ø 5 mm (250 g)	0003599300

IP 20

100 - 240 V

50/60 Hz

yes



Voltage

Frequency

UTTD | ULTRA-TURRAX® Tube Drive control



UTTD is ideal for preparing samples in an easier, faster, simpler and safer method.

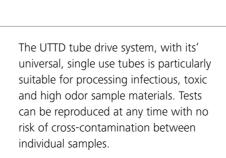


IKA°+



- > Sealed disposable sample tubes
- > No cross-contamination
- > No cleaning required
- > Reproducible tests supports GLP and GMP reporting
- > Chemical resistant plastic
- > Patented
- > Available sterile
- > Available with pierceable lids
- > Batch traceability ensured







IKA



magic LAB® | Exceptional and flexible scalability

Smooth changeover from laboratory to production

One machine for numerous mixing and homogenization tasks. Same working modules for laboratory and production.



Module DISPAX-REACTOR® DR



Module MK/MKO (Colloid Mill/Cone Mill)



(mixing, homegenizing, dispersing)



Module CMS



magic LAB® with module UTL



magic LAB® with module CMS and accessories

> for powder/granule incorporation into liquids in recirculation mode



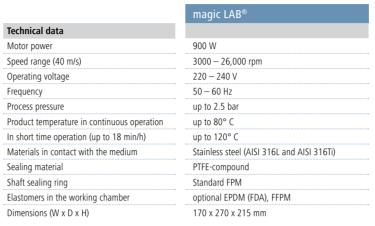
magic LAB® with module Micro-Plant 1 l

> with exchangeable modules (UTL/DR/MK/MKO)



magic LAB® with module Micro-Plant 2 I

> with exchangeable modules (UTL/DR/MK/MKO)



Ident. No. 000U078310



magic LAB® with module UTC

> for dispersing/mixing in a batch operation



Multifunction storage and transportation box

magic LAB®

- > Designed for mixing, dispersing, wet milling and for the incorporation of powders into liquids
- > Ideal machine for continuous, circulating and batch processing with interchangeable modules
- > Ensures reliable scale-up from formulation development to mass production
- > Optimal results due to rotor tip speed up to 40 m/s
- > Simple heating or cooling of all modules
- > Easy and quick exchange of each module
- > Flexibility and ease of use: one machine suits for many applications







Industries & Applications

> Food

food paste fruit juice concentrate orange peel vegetables cheese pork meat salami spices









> Chemistry fuel oil crude oil waste water calcium carbonate polymer solution dishwasher tabs surfactant manganese dioxide



> Building material ceramic glaze wood clay powder loam glass fiber engobe powder bentonite wall paint

iron mica

> Environment

soil samples compost algae roots resin disposal waste biogas mud plant leaves animal excrements







> Medicine & Pharmacy

Medicine analeptic capsules tablets acetate muscle tissue collagen granules pills calcium phosphate





> Cosmetics ointments

baby cream body lotion collagen flavors carnival make-up day cream showering gel shaving gel



FAQ

What does "continuous operation" mean for dispersers? Are 4 hours OK?

4 hours equates to continuous operation! A further particle size reduction with rotor-stator systems does not happen after more than 15 mins. Only heat (due to friction) is transferred into the medium. For the drive itself, continuous operation is not a problem.

Due to the technical data, the ambient temperature of a disperser is 5 - 40 °C. What can be done, if the sample requires higher temperatures?

The prescribed ambient temperature of 5 – 40 °C is only valid for the drive. Of course, it is possible to work in mediums with higher temperatures, e.g. a dispersing element with "N" (PTFE) bearing can be used in mediums up to 180 °C.

Is it possible to disperse an abrasive material such as sand, glass or similar material?

In general, it is possible to disperse abrasive material, but a frequent change of the bearing is necessary. In addition, the shaft and spindle can wear off very quickly under these conditions.

Is it possible to disperse frozen samples?

Yes, in general this is possible if the sample is treated in some liquid. However, it is not possible to work with liquid nitrogen.

The teflon seal (PTFE) of my dispersing element is ripped. Can a new one be ordered?

Those PTFE parts are slotted and it is not a defect. They are used as a bearing. However, a new seal may be ordered from the spare parts list.

How often can we use disposable dispersing elements for the T 10 basic, T 18 basic and T 25 digital?

The disposable dispersing tools are designed for single use only.

Does IKA® offer high pressure dispersers?

Yes, it is possible to work under a pressure of up to 6 bar with dispersing tools having "KV" in their product description. IKA® also offers High Pressure Homogenizer system.

How does one avoid foam generation during dispersing?

To avoid this scenario, a ULTRA-TURRAX® disperser with "KV" tools are recommended. These tools are closed systems, which avoid the generation of foam.

The ULTRA-TURRAX® dispersing elements should not run dry. Does that mean that the bottom bore hole has to be in the medium?

Yes, the circulation hole should be in the medium on all accounts. This is the only way to guarantee the optimum cooling effect on the bearing.

Which is the right dispersing tool to crush vegetables and fruits? How should one clean this properly

The new Saw Tooth (ST) dispersing tools and a T 50 digital with cutting head S 50 N - W 65 SK would be suitable for this application. This tool can be cleaned. e.g. with acetone or every commonly used sterilization method.













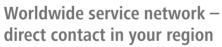
quality, not only with well-trained and experienced personnel, but also with standardized processes

The assembly of the printed circuit boards is fully automated and includes an automated 100% quality control check of every PCB.



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Should you not find the appropriate device in our standard product range, please send us your requested specifications through the online form. Our team will determine its feasibility and offer a solution to you.



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For spare parts IKA® guarantees 10 years of



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