IKA®

Dispersers

designed
to work perfectly

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 (H_2O) 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.

3 Year warranty*

CE

Protection class according to DIN EN 60529: IP 42

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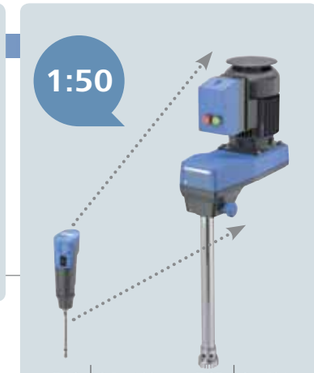
winner 2012

reddot design award
winner 2012

IKA®+

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.



reddot design award
winner 2012

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 **Digital display** for precise monitoring of set and actual speeds

Wide selection of dispersing tools to suit your application

Rotating knob for adjusting the speed

Protection **Motor protection** against overload

Quick-connect coupling to exchange dispersing tools easily

IKA®+

Trial devices

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

① **Plate stands**

R 1825	560 mm
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

② **R 182 Boss head clamp**

Ident. No.
0002657700

③ **Dispersing element**
S 25 N – 18 G

Ident. No.
0000593400

reddot design award winner 2012

reddot design award winner 2012

reddot design award winner 2012

Dispersing tools are not included in delivery

Technical data	T 10 basic	T 18 digital	T 25 digital
Motor rating input / output	125 / 75 W	500 / 300 W	800 / 500 W
Volume range (H_2O)	0.5 – 100 ml	1 – 1500 ml	1 – 2000 ml
Viscosity max.	5000 mPas	5000 mPas	5000 mPas
Speed range	8000 – 30,000 rpm	3000 – 25,000 rpm	3000 – 25,000 rpm
Speed display	scale	LED	LED
Speed control	stepless	stepless	stepless
Noise without element	65 dB(A)	75 dB(A)	75 dB(A)
Extension arm diameter	8 mm	13 mm	13 mm
Extension arm length	130 mm	160 mm	160 mm
Process type	batch	batch	batch
Dimensions (W x D x H)	56 x 66 x 178 mm	87 x 106 x 271 mm	87 x 106 x 271 mm
Weight	0.5 kg	2.5 kg	2.5 kg
Perm. ambient temperature	5 – 40 °C	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80 %	80 %	80 %
Protect. class DIN EN 60529	IP 30	IP 20	IP 20
Interface	no	no	no
Voltage	230 V	200 – 240 V	200 – 240 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
	Ident. No. 0003737000	**Ident. No. 0003720000**	**Ident. No. 0003725000**

Dispersing tools are not included in delivery

Technical data	T 50 digital	T 65 basic	T 65 digital
Motor rating input / output	1100 / 700 W	1800 / 1500 W	2600 / 2200 W
Volume range (H_2O)	0.25 – 30 l	2 – 50 l	2 – 50 l
Viscosity max.	5000 mPas	5000 mPas	5000 mPas
Speed range	600 – 10,000 rpm	7200 rpm (fixed)	1000 – 9500 rpm
Speed display	LED	–	LED
Speed control	stepless	fixed	stepless
Noise without element	72 dB(A)	75 dB(A)	75 dB(A)
Extension arm diameter	16 mm	flange	flange
Extension arm length	220 mm	flange	flange
Process type	batch	batch	batch
Dimensions (W x D x H)	115 x 139 x 355 mm	185 x 400 x 450 mm	300 x 400 x 390 mm
Weight	5.76 kg	26 kg	29 kg
Perm. ambient temperature	5 – 40 °C	5 – 40 °C	5 – 40 °C
Permissible relative moisture	80 %	80 %	80 %
Protect. class DIN EN 60529	IP 20	IP 54	IP 54
Interface	no	no	no
Voltage	200 – 240 V	3 x 400 V	3 x 400 V
Frequency	50/60 Hz	50 Hz	50/60 Hz
	Ident. No. 0003787000	**Ident. No. 0004023500**	**Ident. No. 0004234500**

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 quick-connect coupling facilitates the exchange of dispersing tools.

IKA® +

Special accessories!

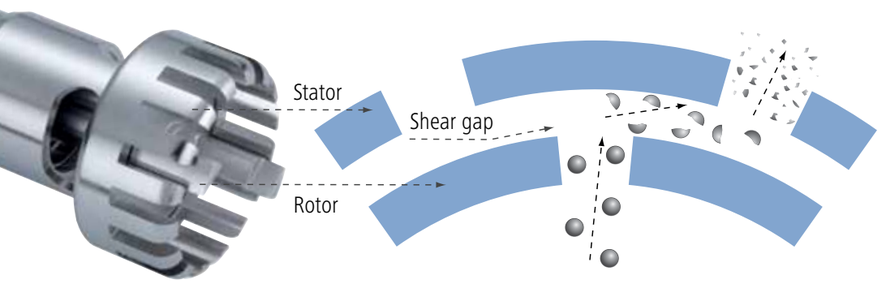
> Bronze bearings to serve in a variety of applications

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

For dispersing instrument	Dispersing element Shaft / Agitator shaft	With seal or bearing type*	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	–	8 / 10 / 18 / 19 / 25	G / F
T 50 digital	S / R 50	N	G / W	45 / 65 / 80	G / M / F
T 65 basic	S 65	KG – HH	G	65	G / M / F
T 65 digital	S 65	KG – HH	G	65	G / M / F

*N = PTFE bearing
KV = Ball bearing with vacuum-tight sliding-ring seal with silicon carbide seal rings
NK = PTFE bearing with additional ball bearing without seal
KG – HH = Ball bearing with sliding-ring seals of hard metal allow with FFPM seals rings

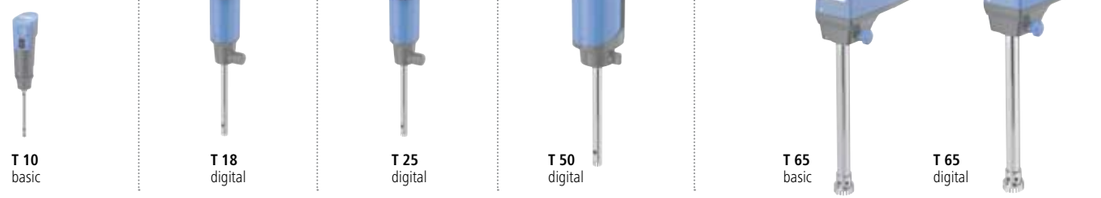
**G = Proved configuration
W = Special element
***G = Coarse
M = Medium
F = Fine



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.

Find the right dispersing tool to suit your application

	Volume Range Liter	10 ml	50 ml	100 ml	500 ml	2 l	10 l	20 l	50 l	Vacuum operation	Circumferential speed (m/s)	Ultimate fineness, suspensions (µm)	Ultimate fineness, emulsions (µm)
A	S 10 N – 5 G									No	6.0	5 – 25	1 – 10
A	S 10 N – 8 G									No	9.6	5 – 25	1 – 10
A	S 10 N – 10 G									No	11.9	5 – 25	1 – 10
A	S 10 D – 7 G – KS – 65									No	7.5	10 – 50	5 – 20
A	S 10 D – 7 G – KS – 110									No	7.5	10 – 50	5 – 20
B	S 18 N – 10 G									No	9.8	10 – 50	1 – 10
B	S 18 N – 19 G									No	16.6	10 – 50	1 – 10
B	S 18 D – 10 G – KS									No	8.8	10 – 50	5 – 20
B	S 18 D – 14 G – KS									No	12.4	10 – 50	5 – 20
C	S 25 N – 8 G									No	8	10 – 50	1 – 10
C	S 25 N – 10 G									No	9.8	10 – 50	1 – 10
C	S 25 N – 18 G									No	16.6	10 – 50	1 – 10
C	S 25 KV – 18 G									Yes	16.6	10 – 50	1 – 10
C	S 25 NK – 19 G									No	16.6	10 – 50	1 – 10
C	S 25 N – 25 G									No	22.3	15 – 50	1 – 10
C	S 25 KV – 25 G									Yes	22.3	15 – 50	1 – 10
C	S 25 N – 25 F									No	23.6	5 – 25	1 – 5
C	S 25 KV – 25 F									Yes	23.6	5 – 25	1 – 5
C	S 25 D – 10 G – KS									No	8.8	10 – 50	5 – 20
C	S 25 D – 14 G – KS									No	12.4	10 – 50	5 – 20
D	S 50 N – G 45 G									No	18.8	40 – 100	10 – 30
D	S 50 N – G 45 M									No	21.2	25 – 50	5 – 20
D	S 50 N – G 45 F									No	20.9	10 – 30	1 – 10
E	S 65 KG – HH – G 65 G									Yes	21.9 (28.8: T 65 digital)	25 – 75	5 – 25
E	S 65 KG – HH – G 65 M									Yes	21.9 (28.8: T 65 digital)	25 – 50	5 – 15
E	S 65 KG – HH – G 65 F									Yes	21.9 (28.8: T 65 digital)	5 – 20	1 – 10



T 10 basic — A
T 18 digital — B
T 25 digital — C
T 50 digital — D
T 65 basic
T 65 digital — E

S 10 D – 7 G – KS – 65

S 10 D – 7 G – KS – 110

S 25 D – 10 G – KS

S 18 D – 10 G – KS

D

IKA® +

Plastic disposable tools (D)

> Ideal for applications where cross-contamination is not permitted
> Disposable & single-use
> No cleaning required

S 10 N – 10 G

S 18 N – 19 G

S 25 KV – 25 F

S 50 N – G 45 G

S 65 KG – HH –G 65 G

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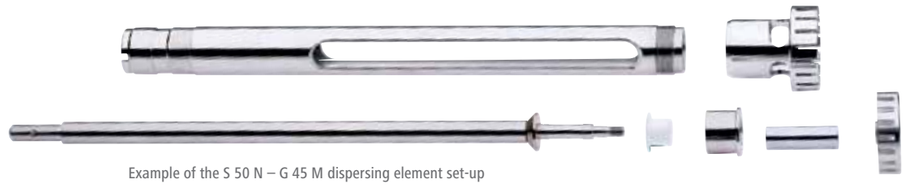
T 10 basic

Dispersing element	S 10 N – 5 G	S 10 N – 8 G	S 10 N – 10 G	S 10 D – 7 G – KS – 65	S 10 D – 7 G – KS – 110
Ident. No.	0003304000	0003305500	0003370100	0003433225	0003433325
Working range	0.5 – 10 ml	1 – 50 ml	1 – 100 ml	1 – 20 ml	1 – 40 ml
Stator diameter	5 mm	8 mm	10 mm	7 mm	7 mm
Rotor diameter	3.8 mm	6.1 mm	7.6 mm	4.8 mm	4.8 mm
Gap between rotor and stator	0.1 mm	0.25 mm	0.2 mm	0.3 mm	0.3 mm
Min. / max. immersion depth	20 / 75 mm	20 / 95 mm	20 / 100 mm	20 / 50 mm	20 / 90 mm
Shaft length	92 mm	115 mm	115 mm	65 mm	110 mm
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L	Polycarbonate (PC) Polysulfon (PSU)	Polycarbonate (PC) Polysulfon (PSU)
pH range	2 – 13	2 – 13	2 – 13	–	–
Suitable for solvents	yes	yes	yes	–	–
Max. temperature	180 °C	180 °C	180 °C	100 °C	100 °C
Sterilization methods	all methods	all methods	all methods	yes, autoclavable	yes, autoclavable
	1	2	3	4 D	5 D

T 18 digital

Dispersing element	S 18 N – 10 G	S 18 N – 19 G	S 18 D – 10 G – KS	S 18 D – 14 G – KS
Ident. No.	000L004639	000L004640	0003452400	0003452300
Working range	1 – 100 ml	10 – 1500 ml	10 – 100 ml	10 – 500 ml
Stator diameter	10 mm	19 mm	10 mm	14 mm
Rotor diameter	7.5 mm	12.7 mm	6.75 mm	9.5 mm
Gap between rotor and stator	0.35 mm	0.4 mm	0.25 mm	0.35 mm
Min. / max. immersion depth	25 / 70 mm	35 / 170 mm	15 / 85 mm	15 / 85 mm
Shaft length	108 mm	204 mm	150 mm	150 mm
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L	Polycarbonate (PC) Polyetheretherketon (PEEK)	Polycarbonate (PC) Polyetheretherketon (PEEK)
pH range	2 – 13	2 – 13	_	_
Suitable for solvents	yes	yes	_	_
Max. temperature	180 °C	180 °C	100 °C	100 °C
Sterilization methods	all methods	all methods	yes, autoclavable	yes, autoclavable
	6	7	8 D	9 D



Example of the S 50 N – G 45 M dispersing element set-up

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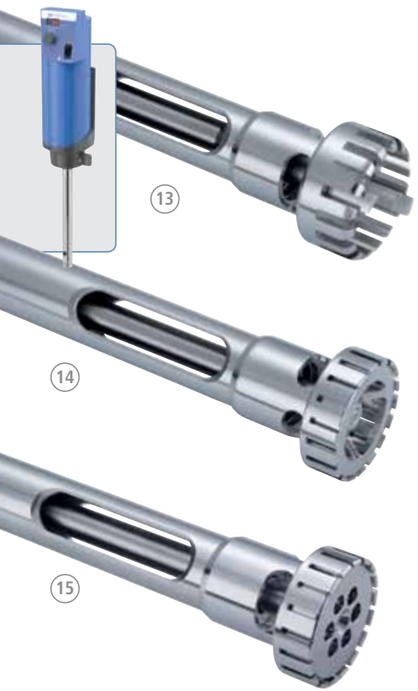
T 25 digital

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
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
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	–

10 | 11 | 12 | 12 | 12



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T 50 digital

Dispersing element	S 50 N – G 45 G	S 50 N – G 45 M	S 50 N – G 45 F
Ident. No.	0008003000	0008003300	0008003900
Working range	0.5 – 20 l	0.5 – 15 l	0.25 – 10 l
Stator 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
pH 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

13 | 14 | 15

16

17

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19

T 25 digital

S 25 N – 25 G	S 25 KV – 25 G	S 25 N – 25 F	S 25 KV – 25 F	S 25 D – 10 G – KS	S 25 D – 14 G – KS
0001713300	0002466900	0001713800	0002404000	0003452200	0003452100
50 – 2000 ml	50 – 2000 ml	100 – 2000 ml	100 – 2000 ml	10 – 100 ml	10 – 500 ml
25 mm	25 mm	25 mm	25 mm	10 mm	14 mm
17 mm	17 mm	18 mm	18 mm	6.75 mm	9.5 mm
0.5 mm	0.5 mm	0.5 mm	0.5 mm	0.25 mm	0.35 mm
40 / 165 mm	40 / 225 mm	40 / 165 mm	40 / 225 mm	15 / 85 mm	15 / 85 mm
194 mm	270 mm	194 mm	270 mm	150 mm	150 mm
PTFE, AISI 316L	FFPM / SIC, AISI 316L	PTFE, AISI 316L	FFPM / SIC, AISI 316L	Polycarbonate (PC) Polyetheretherketon (PEEK)	Polycarbonate (PC) Polyetheretherketon (PEEK)
2 – 13	2 – 13	2 – 13	2 – 13	–	–
yes	yes	yes	yes	–	–
180 °C	220 °C	180 °C	220 °C	100 °C	100 °C
all methods	wet chemical	all methods	wet chemical	yes, autoclavable	yes, autoclavable
–	1 mbar	–	1 mbar	–	–
–	6 bar	–	6 bar	–	–

16 | 17 | 18 D | 19 D

20

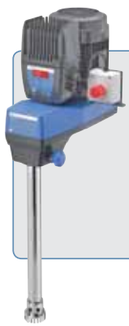
21

22

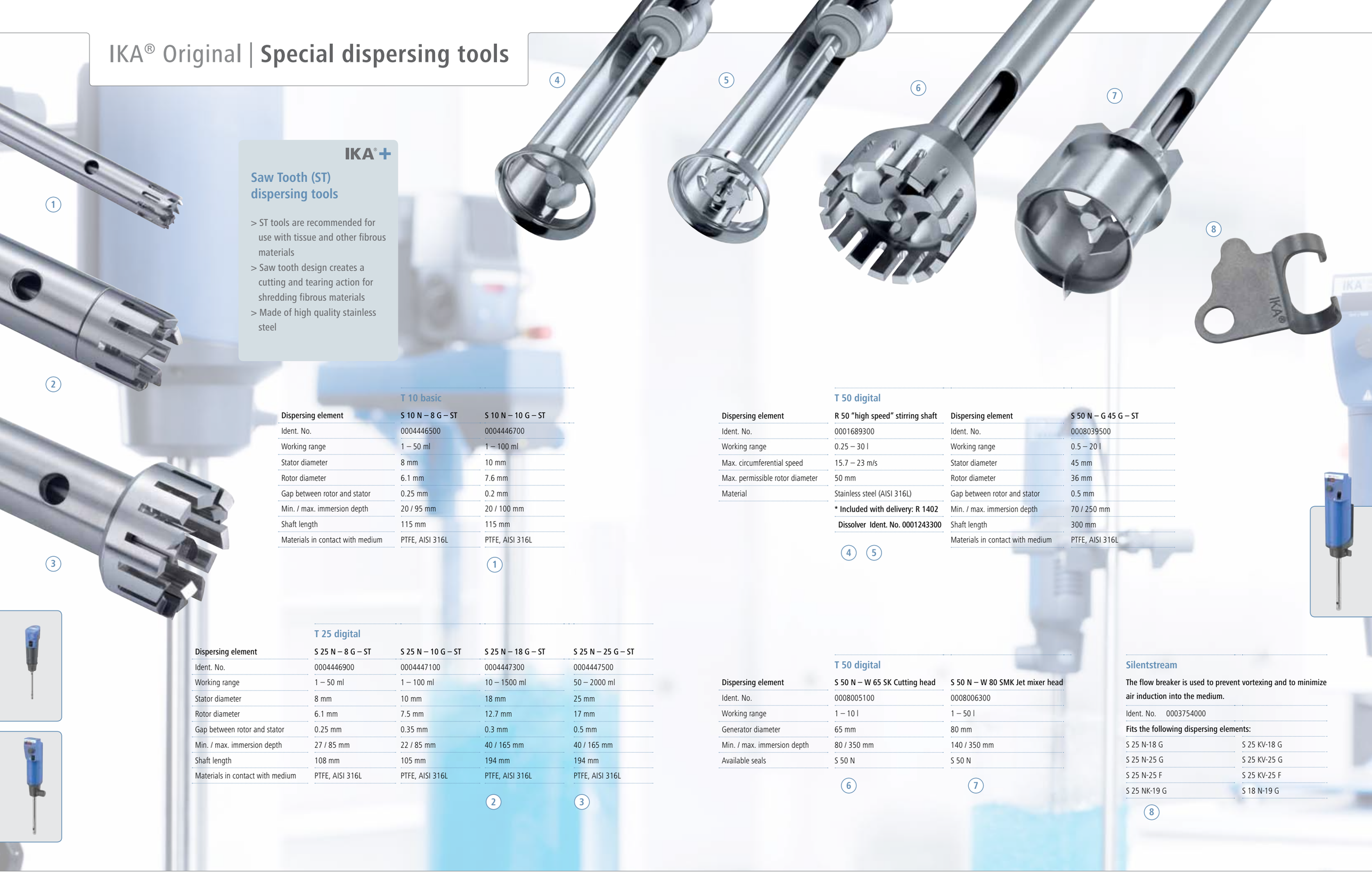
T 65 basic l digital

Dispersing element	S 65 KG – HH – G 65 G	S 65 KG – HH – G 65 M	S 65 KG – HH – G 65 F
Ident. 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

20 | 21 | 22



IKA® Original | **Special dispersing tools**



IKA®+

Saw Tooth (ST) dispersing tools

> ST tools are recommended for use with tissue and other fibrous materials
> Saw tooth design creates a cutting and tearing action for shredding fibrous materials
> Made of high quality stainless steel

T 10 basic

Dispersing element	S 10 N – 8 G – ST	S 10 N – 10 G – ST
Ident. No.	0004446500	0004446700
Working range	1 – 50 ml	1 – 100 ml
Stator diameter	8 mm	10 mm
Rotor diameter	6.1 mm	7.6 mm
Gap between rotor and stator	0.25 mm	0.2 mm
Min. / max. immersion depth	20 / 95 mm	20 / 100 mm
Shaft length	115 mm	115 mm
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L

1

T 25 digital

Dispersing element	S 25 N – 8 G – ST	S 25 N – 10 G – ST	S 25 N – 18 G – ST	S 25 N – 25 G – ST
Ident. No.	0004446900	0004447100	0004447300	0004447500
Working range	1 – 50 ml	1 – 100 ml	10 – 1500 ml	50 – 2000 ml
Stator diameter	8 mm	10 mm	18 mm	25 mm
Rotor diameter	6.1 mm	7.5 mm	12.7 mm	17 mm
Gap between rotor and stator	0.25 mm	0.35 mm	0.3 mm	0.5 mm
Min. / max. immersion depth	27 / 85 mm	22 / 85 mm	40 / 165 mm	40 / 165 mm
Shaft length	108 mm	105 mm	194 mm	194 mm
Materials in contact with medium	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L	PTFE, AISI 316L

2 3

T 50 digital

Dispersing element	R 50 "high speed" stirring shaft	Dispersing element	S 50 N – G 45 G – ST
Ident. No.	0001689300	Ident. No.	0008039500
Working range	0.25 – 30 l	Working range	0.5 – 20 l
Max. circumferential speed	15.7 – 23 m/s	Stator diameter	45 mm
Max. permissible rotor diameter	50 mm	Rotor diameter	36 mm
Material	Stainless steel (AISI 316L)	Gap between rotor and stator	0.5 mm
	* Included with delivery: R 1402 Dissolver Ident. No. 0001243300	Min. / max. immersion depth	70 / 250 mm
		Shaft length	300 mm
		Materials in contact with medium	PTFE, AISI 316L

4 5

T 50 digital

Dispersing element	S 50 N – W 65 SK Cutting head	S 50 N – W 80 SMK Jet mixer head
Ident. No.	0008005100	0008006300
Working range	1 – 10 l	1 – 50 l
Generator diameter	65 mm	80 mm
Min. / max. immersion depth	80 / 350 mm	140 / 350 mm
Available seals	S 50 N	S 50 N

6 7

Silentstream

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

8

UTTD | **ULTRA-TURRAX® Tube Drive control**

IKA® has created a milestone for entering a new era of "sample preparation" with a revolutionary discovery – the unique and patented ULTRA-TURRAX® Tube Drive (UTTD) system. Disperse, stir, homogenize and grind using a single drive unit. The UTTD provides high repeatability and reproducibility to cover a broad range of applications.

reddot design award
winner 2012

Turbo function for short time intensive mixing, homogenizing or grinding

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

Multilingual OLED display for simple and precise menu navigation

Rotating knob to vary the speed and the **pressing knob** for start/stop operation

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

Reverse rotation switch to optimize mixing and crushing performance

Technical data	ULTRA-TURRAX® Tube Drive control
Motor rating input / output	20 / 17 W
Speed range / Turbo speed	400 – 6000 rpm / 8000 rpm
Display	OLED
Speed display	digital
Timer	10 s – 30 min (infinitely adjustable)
Reverse rotation interval	10 – 60 s
Dimensions (W x D x H)	122 x 178 x 48 mm
Weight	1.0 kg
Protection class DIN EN 60529	IP 20
Interface	yes
Voltage	100 – 240 V
Frequency	50/60 Hz

Ident. No. 0004135300

IKA®+

Try our new reusable tube racks and single-tube holders! Please contact IKA® Service Department
E-Mail: service@ika.de

Accessories | **IKA® Tubes**

All tubes are also available with a pierceable membrane and gamma-sterilized

ST Tube with stirring device

Suitable for:
> Mixing
> Stirring
> Extractions
> Preparation of soil sample suspensions

	Ident. No.
ST-20	0003703000
ST-20-M gamma	0003700500
ST-50	0003699500
ST-50-M	0003629500
ST-50-M gamma	0003701500

1 DT Tube with rotor-stator element

Suitable for:
> Dispersion
> Homogenization
> Suspensions
> Pharmacokinetics
> Metabolism studies

	Ident. No.
DT-20	0003703100
DT-20-M gamma	0003700600
DT-50	0003699600
DT-50-M	0003629600
DT-50-M gamma	0003701600

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, colored pigments, tablets)
> Cell maceration
> Processing of materials mixed with fluids

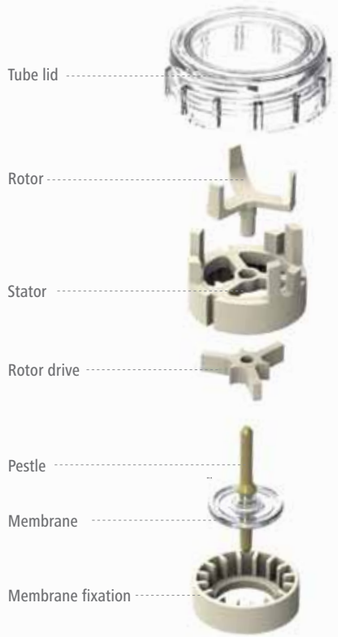
	Ident. No.
BMT-20-S	0003703200
BMT-20-S-M gamma	0003700700
BMT-20-G	0003703300
BMT-50-S	0003699700
BMT-50-S-M	0003629700
BMT-50-S-M gamma	0003701700
BMT-50-G	0003699800
BMT-50-G-M	0003629800

Covers

	Ident. No.
TC-50 (10 pieces)	0003749800
TC-20-M (25 pieces)	0003749900
TC-50-M (10 pieces)	0003750000

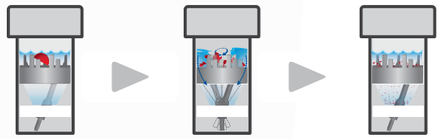
Balls

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



1 liquid + powder

2 liquid + sample



3 balls + sample

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

IKA®+

Special UTTD features

> Simple and safe disposal
> 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

The UTTD tube drive system, with its' universal, single use tubes is particularly suitable for processing infectious, toxic and high odor sample materials. Tests can be reproduced at any time with no risk of cross-contamination between individual samples.

Smooth changeover from laboratory to production

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

1 

Module DISPAX-REACTOR® DR

2 

Module MK/MKO
(Colloid Mill/Cone Mill)

3 

Module MHD
(mixing, homegenizing, dispersing)

4 

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 l

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

Technical data	magic LAB®
Motor power	900 W
Speed range (40 m/s)	3000 – 26,000 rpm
Operating voltage	220 – 240 V
Frequency	50 – 60 Hz
Process pressure	up to 2.5 bar
Product temperature in continuous operation	up to 80° C
In short time operation (up to 18 min/h)	up to 120° C
Materials in contact with the medium	Stainless steel (AISI 316L and AISI 316Ti)
Sealing material	PTFE-compound
Shaft sealing ring	Standard FPM
Elastomers in the working chamber	optional EPDM (FDA), FFPM
Dimensions (W x D x H)	170 x 270 x 215 mm
	Ident. No. 000U078310

magic LAB® with module UTC

> for dispersing/mixing in a batch operation

IKA®+

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

Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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