



Homogenisers

Version 1.0

Overview



At LabCo Scientific, we offer a wide range of high-performance IKA homogenisers designed for mixing, dispersing, emulsifying and cell and tissue homogenisation. The range can accommodate various sample sizes, ranging from 0.5mL up to 50L.

Our products range from compact handheld and cordless units, to medium-sized and larger pilot-scale benchtop units, as well as tube-drive systems, compatible with disposable tubes. All units feature variable speed control, robust assembly and are built from durable materials for reliable laboratory use.

T10 BASIC

A compact, handheld high-speed lab homogeniser with stepless speed control. It is designed for smaller volumes (0.5–100mL). Fitted with quick-connect coupling, quiet operation and suitable for a wide range of accessories.



T50

Robust, high-capacity benchtop lab homogeniser for large volumes (0.25–30L). The high motor power makes it ideal for larger batches in lab and pilot-scale preparation. With digital controls, LED display, a wide speed range and smooth start for easy laboratory use.



T10 BATTERY

A compact, cordless high-speed lab homogeniser with digital display, timer and counter function and numeric speed settings. Portable and designed for smaller volumes (0.5–100mL).



T65

Our most powerful benchtop lab homogeniser, the T65 is ideal for large batch work, up to 50L. Fitted with high motor power, advanced digital interface and a heavy-duty design. Overload protection, easy tool exchange and error diagnostics ensure stable and safe operation.



T25

Strong and durable benchtop homogeniser for medium volumes. Features digital speed control, overload protection, easy cleaning and quiet operation. Allows for a wide volume range (1–2,000mL).



TUBE DRIVE & P CONTROL WORKSTATION

A compact, multifunctional sample processing homogeniser, with hermetically sealable disposable tubes. Allows for safe handling of hazardous samples, with no cross-contamination.

The P Control Workstation offers advanced settings such as programmable test conditions, turbo mode, as well as reverse rotation for more precise control.



Contents

CONTENTS	PAGE NUMBER
OVERVIEW	2
PRODUCT COMPARISON GUIDE	4-5
T10 BASIC	6-7
TECHNICAL SPECIFICATIONS	7
T10 BATTERY PACKAGE	8-9
TECHNICAL SPECIFICATIONS	9
T10 ACCESSORIES	10-13
DISPERSING ELEMENTS	10-12
STANDS	13
T25 DIGITAL	14-16
T25 DIGITAL PACKAGE	15
TECHNICAL SPECIFICATIONS	16
T25 ACCESSORIES	17-23
DISPERSING ELEMENTS	18-21
STANDS	22
T50 DIGITAL	24-26
T50 DIGITAL PACKAGE	25
TECHNICAL SPECIFICATIONS	26
T50 ACCESSORIES	27-32
DISPERSING ELEMENTS	27-31
STANDS	32
T65 DIGITAL	33-35
T65 DIGITAL PACKAGE	34
TECHNICAL SPECIFICATIONS	35
T65 ACCESSORIES	36-37
DISPERSING ELEMENTS	36
STANDS	37
TUBE DRIVE (UNIT ONLY)	38-39
TECHNICAL SPECIFICATIONS	39
TUBE DRIVE P CONTROL WORKSTATION	40-41
TECHNICAL SPECIFICATIONS	41
TUBE ACCESSORIES	42-45
STIRRING TUBES	42
DISPERSING TUBES	43
BALL MILLING TUBES	44-45

Product Comparison Guide



SPECIFICATIONS	T10 BASIC	T10 BATTERY PACKAGE	T25 DIGITAL	T50 DIGITAL	T65 DIGITAL
PRODUCT CODE	0003737000I	0010015688I	0003725000I	0003787000I	0004234500I
MOTOR RATING INPUT	125W	30W	800W	1,100W	2,600W
MOTOR RATING OUTPUT	75W	25W	500W	700W	2,200W
VOLUME RANGE (H ₂ O)	0.5–100mL	0.5–100mL	1–2,000mL	0.25–30L	2–50L
VISCOSITY MAX.	5,000mPa.s	200mPa.s	5,000mPa.s		
SPEED RANGE	8,000–30,000rpm		3,000–25,000rpm	600–10,000rpm	1,000–9,500rpm
SPEED DEVIATION	-		1%		3%
SPEED DISPLAY	Scale	LCD	LED		7-Segment LED
SPEED ADJUSTMENT	Stepless				
NOISE WITHOUT ELEMENT	65dB(A)		75dB(A)	72dB(A)	75dB(A)
PROCESS TYPE	Batch				
EXTENSION ARM DIAMETER	8mm	-	13mm	16mm	-
EXTENSION ARM LENGTH	100mm	-	160mm	220mm	-
TIMER	-	Yes	-		
TIMER DISPLAY	-	LCD	-		
DIMENSIONS (WxHxD)	56 x 178 x 66mm	53 x 239 x 70mm	87 x 271 x 106mm	115 x 355 x 139mm	300 x 420 x 400mm
WEIGHT	610g	500g	2.5kg	5.85kg	35kg
PROTECTION CLASS	IP30		IP20		IP54

Product Comparison Guide



SPECIFICATIONS	TUBE DRIVE HOMOGENISER (UNIT ONLY)	TUBE DRIVE P CONTROL WORKSTATION HOMOGENISER
PRODUCT CODE	0003646000I	0025005836I
MOTOR RATING INPUT	20W	36W
MOTOR RATING OUTPUT	17W	28W
SPEED DISPLAY	Scale	OLED
VISCOSITY MAX.	5,000mPa.s	
SPEED RANGE	300–6,000rpm	400–8,000rpm
SPEED DEVIATION	10%	3%
SPEED ADJUSTMENT	Stepless	10rpm steps
TIMER	-	Yes
TIMER DISPLAY	-	OLED
NOISE WITHOUT ELEMENT	50dB(A)	
PROCESS TYPE	Batch	
REVERSIBLE DIRECTION OF ROTATION	-	Yes
DIMENSIONS (WxHxD)	100 x 40 x 160mm	122 x 54 x 178mm
WEIGHT	750g	1.5kg
PROTECTION CLASS	IP20	
USB INTERFACE	-	USB-B

T10 Basic



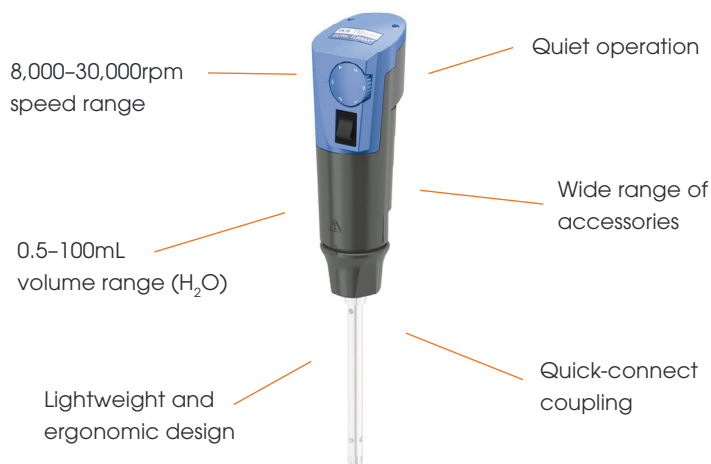
A compact, handheld high-speed lab homogeniser with stepless speed control. Quiet operation and a wide range of accessories, it is designed for smaller volumes (0.5-100mL). The speed range of 8,000-30,000rpm enables work at high circumferential speeds, even with small rotor diameters.



FEATURES + BENEFITS

- Lightweight and ergonomic design
- Quick-connect coupling for changing dispersing elements easily
- Highly portable due to direct line power (no transformer required)
- Stainless steel dispersing elements can be easily cleaned
- PCR analysis compatible with plastic disposable dispersing elements
- High-performance drive ensures high-speed stability
- Quiet operation

OPERATION



Supplied with:

- T10 Homogeniser
- R200 Clamp

T10 Basic

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DESCRIPTION
MOTOR RATING INPUT	125W
MOTOR RATING OUTPUT	75W
VOLUME RANGE (H ₂ O)	0.5–100mL
VISCOSITY MAX.	5,000mPa.s
SPEED RANGE	8,000–30,000rpm
SPEED DISPLAY	Scale
SPEED ADJUSTMENT	Stepless
NOISE WITHOUT ELEMENT	65dB(A)
EXTENSION ARM DIAMETER	8mm
EXTENSION ARM LENGTH	100mm
PROCESS TYPE	Batch
DIMENSIONS (WxHxD)	56 x 178 x 66mm
WEIGHT	610g
PROTECTION CLASS	IP30



Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003737000I	T10 Basic Homogeniser	Each

T10 Battery Package

A compact, cordless high-speed lab homogeniser with digital display, timer and counter function and numeric speed settings. Portable and designed for smaller volumes (0.5-100mL).

Supplied with a reusable stainless steel dispersing tool (5mm), a stand and clamp.

FEATURES + BENEFITS

- Large LCD display
- Precise speed setting with numerical values
- Timer and counter functions for reproducible and precise operation
- Rechargeable battery with two charging options: either directly through a USB-C cable or via a charging clamp
- Labworldsoft® compatible for remote control and data export and documentation
- Quiet operation



OPERATION



Supplied with:

- T10 Battery Homogeniser
- S10N-5G Dispersion Tool
- H44 Bosshead
- R104 H Stand

T10 Battery Package

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DESCRIPTION
MOTOR RATING INPUT	30W
MOTOR RATING OUTPUT	25W
VOLUME RANGE (H ₂ O)	0.5–100mL
VISCOSITY MAX.	200mPa·s
SPEED RANGE	8,000–30,000rpm
SPEED DISPLAY	LCD
SPEED ADJUSTMENT	Stepless
NOISE WITHOUT ELEMENT	65dB(A)
PROCESS TYPE	Batch
DIMENSIONS (WxHxD)	53 x 239 x 70mm
WEIGHT	500g
POWER ON TIME	10min
POWER OFF TIME	5min
TIMER	Yes
TIMER DISPLAY	LCD
PROTECTION CLASS	IP30



Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0010015688	T10 Battery Homogeniser Package	Each

T10 Accessories

DISPERSING ELEMENTS

Suitable for T10 Basic and T10 Battery dispersing instruments.



Technical Specifications

SPECIFICATIONS	S10N-5G	S10N-8G	S10N-10G
VOLUME RANGE (H ₂ O)	0.5–10mL	1–50mL	1–100mL
STATOR DIAMETER	5mm	8mm	10mm
ROTOR DIAMETER	3.8mm	6.1mm	7.6mm
GAP BETWEEN ROTOR AND STATOR	0.1mm	0.25mm	0.2mm
CIRCUMFERENTIAL SPEED MAX.	6m/s	9.6m/s	11.9m/s
IMMERSION DEPTH	20–75mm	20–95mm	20–100mm
SHAFT LENGTH	92mm	115mm	
MATERIAL IN CONTACT WITH MEDIUM	PTFE, AISI 316L		
PH RANGE	2–13		
SUITABLE FOR SOLVENTS	Yes		
SUITABLE FOR ABRASIVE SUBSTANCES	Yes		
WORKING TEMPERATURE RANGE	180°C		
STERILISATION METHODS	All methods		
ULTIMATE FINENESS, SUSPENSIONS	5–25µm		
ULTIMATE FINENESS, EMULSIONS	1–10µm		
WEIGHT	0.086kg	0.358kg	0.366kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003304000	T10 S10N-5G Dispersion Tool	Each
0003305500	T10 S10N-8G Dispersion Tool	Each
0003370100	T10 S10N-10G Dispersion Tool	Each

T10 Accessories

DISPERSING ELEMENTS

Suitable for T10 Basic and T10 Battery dispersing instruments.
ST tools are recommended for use with tissue and other fibrous materials.



Technical Specifications

SPECIFICATIONS	S10N-8G-ST	S10N-10G-ST
VOLUME RANGE (H ₂ O)	1–50mL	1–100mL
STATOR DIAMETER	8mm	10mm
ROTOR DIAMETER	6.1mm	7.5mm
GAP BETWEEN ROTOR AND STATOR	0.25mm	
ALLOWABLE SPEED MAX.	30,000rpm	
CIRCUMFERENTIAL SPEED MAX.	9.6m/s	11.8m/s
IMMERSION DEPTH	22–95mm	23–100mm
SHAFT LENGTH	115mm	
MATERIAL IN CONTACT WITH MEDIUM	PTFE, AISI 316L	
PH RANGE	2–13	
SUITABLE FOR SOLVENTS	Yes	
SUITABLE FOR ABRASIVE SUBSTANCES	Yes	
WORKING TEMPERATURE RANGE	180°C	
STERILISATION METHODS	All methods	
ULTIMATE FINENESS, SUSPENSIONS	5–25µm	
ULTIMATE FINENESS, EMULSIONS	1–10µm	
WEIGHT	0.063kg	0.075kg

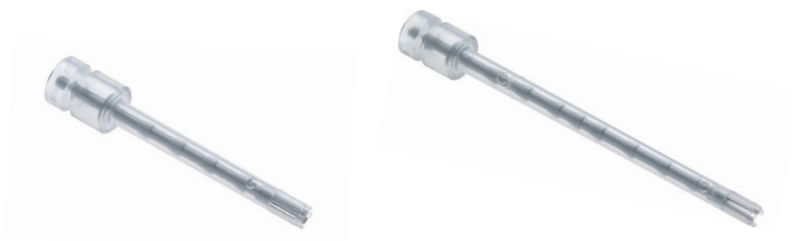
Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0004446500	T10 S10N-8G-ST Saw Tooth Dispersion Tool	Each
0004446700	T10 S10N-10G-ST Saw Tooth Dispersion Tool	Each

T10 Accessories

DISPERSING ELEMENTS

Plastic dispersing elements suitable for T10 Basic and T10 Battery.



Technical Specifications

SPECIFICATIONS	S10D-7G-KS-65	S10D-7G-KS-110
VOLUME RANGE	1–20mL	1–40mL
STATOR DIAMETER	7mm	
ROTOR DIAMETER	4.8mm	
CIRCUMFERENTIAL SPEED MAX.	7.5m/s	
IMMERSION DEPTH	20–45mm	20–90mm
SHAFT LENGTH	65mm	110mm
MATERIAL IN CONTACT WITH MEDIUM	Polycarbonate, Polysulfone	
WORKING TEMPERATURE MAX.	100°C	
STERILISATION METHODS	Autoclavable	
WEIGHT	0.144kg	0.192kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0020002076	T10 S10D-7G-KS-65 Plastic Disposable Dispersion Tool	PK24
0020002075	T10 S10D-7G-KS-110 Plastic Disposable Dispersion Tool	PK24

T10 Accessories

STANDS

R104 H Stand

Small stand for T10 homogeniser.



Technical Specifications

SPECIFICATIONS	DESCRIPTION
PLATE DIMENSIONS	242 x 355mm
ROD DIMENSIONS	370 x 10mm
MAXIMUM LOAD	0.7kg
WEIGHT	0.878kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003386000I	R104 H Stand	Each

H44 Bosshead

For fastening the R200 clamp support to the R104 H stand.



Technical Specifications

SPECIFICATIONS	DESCRIPTION
CLAMPING RANGE - STAND	10-11mm
CLAMPING RANGE - EXTENSION ARM	11mm
MATERIAL	Cast Aluminium

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0002437700I	H44 Bosshead	Each

R200 Clamp Support

For fastening the T10 Basic to the R104 stand (included with delivery of T10 Basic).



Technical Specifications

SPECIFICATIONS	DESCRIPTION
DIA. OF EXTENSION ARM	8mm
LENGTH OF EXTENSION ARM	130mm

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003372000I	R200 Clamp Support	Each

BC1000 Beaker Cap

Suitable for 600mL and 1,000mL beakers for dispersing and stirring. The beaker cap prevents splashing, as well as reduces the noise level.

It is resistant to most acidic and alkaline solutions.



Technical Specifications

SPECIFICATIONS	DESCRIPTION
DIAMETER	130mm
MATERIAL	Silicone

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0020003417I	BC1000 Beaker Cap	Each

T25 Digital

Strong and durable benchtop homogeniser for medium volumes. Features digital speed control, overload protection, easy cleaning and quiet operation. Allows for a wide volume range (1–2,000mL). It offers a speed range from 3,000–25,000rpm that enables work at high circumferential speeds, even with small rotor diameters.

Various dispersing elements enable a range of applications, including homogenising waste water samples, use in laboratory reactors, dispersion tasks under vacuum/pressure and sample preparation in medical research and more.



FEATURES + BENEFITS

- Digital speed display
- Electronic speed control and smooth start
- Electronic overload protection
- Stainless steel dispersing elements are easily cleaned
- Error code display
- Quiet operation

OPERATION



Supplied with:

- T25 Digital Homogeniser

T25 Digital Package

The T25 Digital Package provides a complete solution for benchtop dispersing.

All the features of the T25 Digital, supplied with the S25N-18G dispersion tool, bosshead clamp and support stand.

FEATURES + BENEFITS

- Digital speed display
- Electronic speed control and smooth start
- Electronic overload protection
- Stainless steel dispersing elements are easily cleaned
- Error code display
- Quiet operation



OPERATION



Supplied with:

- T25 Digital Homogeniser
- S25N-18G Dispersion Tool
- R182 Bosshead
- R1826 Stand

T25 Digital

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DESCRIPTION
MOTOR RATING INPUT	800W
MOTOR RATING OUTPUT	500W
VOLUME RANGE (H ₂ O)	1–2,000mL
VISCOSITY MAX.	5,000mPa.s
SPEED RANGE	3,000–25,000rpm
SPEED DEVIATION	1%
SPEED DISPLAY	LED
SPEED ADJUSTMENT	Stepless
NOISE WITHOUT ELEMENT	75dB(A)
EXTENSION ARM DIAMETER	13mm
EXTENSION ARM LENGTH	160mm
PROCESS TYPE	Batch
DIMENSIONS (WxHxD)	87 x 271 x 106mm
WEIGHT	2.5kg
PROTECTION CLASS	IP20

Ordering Information

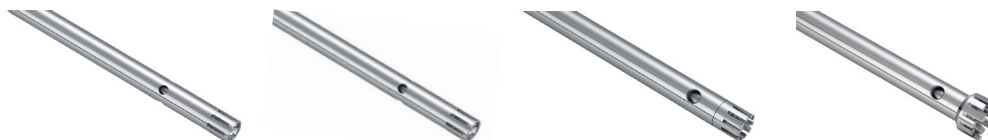
PRODUCT CODE	DESCRIPTION	PACK SIZE
0003725000I	T25 Digital Homogeniser	Each
0009024200I	T25 Digital Homogeniser Package	Each



T25 Accessories

DISPERSING ELEMENTS

Suitable for dispersing instrument T25.



Technical Specifications

SPECIFICATIONS	S25N-8G	S25N-10G	S25N-18G	S25N-25G
VOLUME RANGE (H ₂ O)	1–50mL	1–100mL	10–1,500mL	50–2,000mL
STATOR DIAMETER	8mm	10mm	18mm	25mm
ROTOR DIAMETER	6.1mm	7.5mm	12.7mm	17mm
GAP BETWEEN ROTOR AND STATOR	0.25mm	0.35mm	0.3mm	0.5mm
ALLOWABLE SPEED MAX.	25,000rpm			
CIRCUMFERENTIAL SPEED MAX.	8m/s	9.8m/s	16.6m/s	22.2m/s
IMMERSION DEPTH	27–85mm		40–165mm	
SHAFT LENGTH	108mm	105mm	194mm	
MATERIAL IN CONTACT WITH MEDIUM	PTFE, AISI 316L			
PH RANGE	2–13			
SUITABLE FOR SOLVENTS	Yes			
SUITABLE FOR ABRASIVE SUBSTANCES	Yes			
WORKING TEMPERATURE RANGE	180°C			
STERILISATION METHODS	All methods			
ULTIMATE FINENESS, SUSPENSIONS	10–50µm			15–50µm
ULTIMATE FINENESS, EMULSIONS	1–10µm			
WEIGHT	0.1kg	0.152kg	0.4kg	0.416kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0001024200	T25 S25N-8G Dispersion Tool	Each
0000594000	T25 S25N-10G Dispersion Tool	Each
0000593400	T25 S25N-18G Dispersion Tool	Each
0001713300	T25 S25N-25G Dispersion Tool	Each

T25 Accessories

DISPERSING ELEMENTS

Suitable for dispersing instrument T25. ST tools are recommended for use with tissue and other fibrous materials.



Technical Specifications

SPECIFICATIONS	S25N-8G-ST	S25N-10G-ST	S25N-18G-ST	S25N-25G-ST
VOLUME RANGE (H ₂ O)	1–50mL	1–100mL	10–1,500mL	50–2,000mL
STATOR DIAMETER	8mm	10mm	18mm	25mm
ROTOR DIAMETER	6.1mm	7.5mm	13.4mm	20mm
GAP BETWEEN ROTOR AND STATOR	0.25mm	0.35mm	0.25mm	0.5mm
ALLOWABLE SPEED MAX.	25,000rpm			
CIRCUMFERENTIAL SPEED MAX.	8m/s	9.8m/s	17.5m/s	26.2m/s
IMMERSION DEPTH	27–85mm	22–85mm	40–165mm	
SHAFT LENGTH	108mm	105mm	194mm	
MATERIAL IN CONTACT WITH MEDIUM	PTFE, AISI 316L			
PH RANGE	2–13			
SUITABLE FOR SOLVENTS	Yes			
SUITABLE FOR ABRASIVE SUBSTANCES	Yes			
WORKING TEMPERATURE RANGE	180°C			
STERILISATION METHODS	All methods			
ULTIMATE FINENESS, SUSPENSIONS	10–50µm			15–50µm
ULTIMATE FINENESS, EMULSIONS	1–10µm			
WEIGHT	0.12kg	0.392kg	0.65kg	0.4138kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0004446900	T25 S25N-8G-ST Saw Tooth Dispersion Tool	Each
0004447100	T25 S25N-10G-ST Saw Tooth Dispersion Tool	Each
0004447300	T25 S25N-18G-ST Saw Tooth Dispersion Tool	Each
0004447500	T25 S25N-25G-ST Saw Tooth Dispersion Tool	Each

T25 Accessories

DISPERSING ELEMENTS

Suitable for dispersing instrument T25.



Technical Specifications

SPECIFICATIONS	S25N-25F
VOLUME RANGE (H ₂ O)	100–2,000mL
STATOR DIAMETER	25mm
ROTOR DIAMETER	18mm
GAP BETWEEN ROTOR AND STATOR	0.5mm
ALLOWABLE SPEED MAX.	25,000rpm
CIRCUMFERENTIAL SPEED MAX.	23.6m/s
IMMERSION DEPTH	40–165mm
SHAFT LENGTH	194mm
MATERIAL IN CONTACT WITH MEDIUM	PTFE, AISI 316L
PH RANGE	2–13
SUITABLE FOR SOLVENTS	Yes
SUITABLE FOR ABRASIVE SUBSTANCES	Yes
WORKING TEMPERATURE RANGE	180°C
STERILISATION METHODS	All methods
ULTIMATE FINENESS, SUSPENSIONS	5–25µm
ULTIMATE FINENESS, EMULSIONS	1–5µm
WEIGHT	0.4204kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0001713800	T25 S25N-25F Dispersion Tool	Each

T25 Accessories

DISPERSING ELEMENTS

Suitable for dispersing instrument T25.



Technical Specifications

SPECIFICATIONS	S25KV-18G	S25KV-25G	S25KV-25F
VOLUME RANGE (H ₂ O)	10–1,500mL	50–2,000mL	100–2,000mL
STATOR DIAMETER	18mm	25mm	
ROTOR DIAMETER	12.7mm	17mm	18mm
GAP BETWEEN ROTOR AND STATOR	0.25mm	0.5mm	
ALLOWABLE SPEED MAX.	25,000rpm		
CIRCUMFERENTIAL SPEED MAX.	16.6m/s	22.2m/s	23.6m/s
IMMERSION DEPTH	40–225mm		
SHAFT LENGTH	270mm		
MATERIAL IN CONTACT WITH MEDIUM	FFPM / SIC, AISI 316L, AISI 302		
PH RANGE	2–13		
SUITABLE FOR SOLVENTS	Yes		
WORKING TEMPERATURE RANGE	220°C		
STERILISATION METHODS	All methods		
VACUUM	1mbar		
PRESSURE	6bar		
ULTIMATE FINENESS, SUSPENSIONS	10–50µm	15–50µm	5–25µm
ULTIMATE FINENESS, EMULSIONS	1–10µm		1–5µm
WEIGHT	0.5514kg	0.6kg	0.622kg

Ordering Information



PRODUCT CODE	DESCRIPTION	PACK SIZE
0002348000	T25 S25KV-18G Dispersion Tool	Each
0002466900	T25 S25KV-25G Dispersion Tool	Each
0002404000	T25 S25KV-25F Dispersion Tool	Each

T25 Accessories

DISPERSING ELEMENTS

Suitable for dispersing instrument T25.



Technical Specifications

SPECIFICATIONS	S25D-10G-KS	S25D-14G-KS
VOLUME RANGE (H ₂ O)	1–100mL	1–500mL
STATOR DIAMETER	10mm	14mm
ROTOR DIAMETER	6.75mm	9.5mm
CIRCUMFERENTIAL SPEED MAX.	8.5m/s	12m/s
IMMERSION DEPTH	15–85mm	
SHAFT LENGTH	150mm	
MATERIAL IN CONTACT WITH MEDIUM	Polycarbonate / Polyether ether ketone (PEEK)	
WORKING TEMPERATURE RANGE	100°C	
STERILISATION METHODS	Autoclavable	
WEIGHT	0.192kg	0.222kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003452200	T25 S25D-10G-KS Plastic Disposable Dispersion Tool	PK12
0003452100	T25 S25D-14G-KS Plastic Disposable Dispersion Tool	PK12

T25 Accessories

STANDS

R1826 - Plate Stand

With slip resistant mat.



Technical Specifications

SPECIFICATIONS	DESCRIPTION
PLATE DIMENSIONS	200 x 316mm
ROD DIMENSIONS	800 x 16mm
MAXIMUM LOAD	5kg
WEIGHT	6.06kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003160100I	R1826 - Plate Stand	Each

R1827 - Plate Stand

With slip resistant mat.



Technical Specifications

SPECIFICATIONS	DESCRIPTION
PLATE DIMENSIONS	200 x 316mm
ROD DIMENSIONS	1,000 x 16mm
MAXIMUM LOAD	5kg
WEIGHT	6.326kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003160200I	R1827 - Plate Stand	Each

R182 Bosshead

Clamp for use in laboratory setups, compatible with R1826/R1827 stands.



Technical Specifications

SPECIFICATIONS	DESCRIPTION
CLAMPING RANGE - STAND	6-16mm
CLAMPING RANGE - EXTENSION ARM	6-16mm
MATERIAL	Cast Aluminium

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0002657700I	R182 Bosshead	Each

RH3 Clamp Support

For securing vessels against walls or for synchronised rotation during stirring or dispersing. Compatible with R1826/R1827 stands.



Technical Specifications

SPECIFICATIONS	DESCRIPTION
STAND DIAMETER	8-16mm
VESSEL DIAMETER	40-300mm

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003008600I	RH3 Clamp Support	Each

T25 Accessories

Silentstream Flow Breaker

The Silentstream Flow Breaker is used to prevent vortexing and to minimize air induction into the medium. It enables the dispersing instrument to be positioned centrally into the vessel without the bearing system running dry. Through this system, even small volumes can be dispersed and processed at a high speed. The flow breaker can be adjusted axially on the dispersing instrument, which enables an optimal alignment with the vessel.

PEEK (Polyether ether ketone) allows for sterilisation (with all current methods) or a simple cleaning process in the dishwasher. It has a weight of 6.8g.

The flow breaker has high chemical resistance and can be permanently used in temperatures up to 260°C.

Fits the following dispersing elements:

- S25N-18G
- S25KV-25G
- S25N-25G
- S25KV-25F
- S25N-25F
- S18N-19G
- S25NK-19G
- S25N-18G-ST
- S25KV-18G
- S25N-25G-ST



Technical Specifications

SPECIFICATIONS	DESCRIPTION
MAX. TEMPERATURE	260°C
MATERIAL	PEEK (Polyether Ether Ketone)
WEIGHT	0.0068kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003754000I	Silentstream Flow Breaker	Each

BC1000 Beaker Cap

Suitable for 600mL and 1,000mL beakers for dispersing and stirring. The beaker cap prevents splashing, as well as reduces the noise level.

It is resistant to most acidic and alkaline solutions.



Technical Specifications

SPECIFICATIONS	DESCRIPTION
DIAMETER	130mm
MATERIAL	Silicone

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0020003417I	BC1000 Beaker Cap	Each

50mL Dispersion Tube

The 50mL dispersion tube is designed for safe sample dispersion in a closed system thanks to its splash guard design.

Compatible with S18D and S25D series plastic tools.



Technical Specifications

SPECIFICATIONS	DESCRIPTION
MATERIAL	Polypropylene (PP)
WEIGHT	0.014kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003452500I	50mL Dispersion Tube	Each

T50 Digital



Robust, high-capacity benchtop lab homogeniser for large volumes (0.25–30L). The high motor power makes it ideal for larger batches in lab and pilot-scale preparation. With digital controls, LED display and smooth start for easy laboratory use.

It offers a wide speed range from 600–10,000rpm that enables work at high circumferential speeds, even with small rotor diameters. Reproducible results due to constant speed, even with changes in viscosity. Plus the wide range of dispersing elements allows for various applications.



FEATURES + BENEFITS

- Digital speed display
- Electronic speed control
- Electronic overload protection
- Stainless steel dispersing elements are easily cleaned
- Smooth start
- Error code display

OPERATION



Supplied with:

- T50 Homogeniser
- Shaft Key
- Generator Key

T50 Digital Package

The T50 Digital Package provides a complete solution for benchtop dispersing.

All the features of the T50 Digital, supplied with the S50N-G45G dispersion tool, bosshead clamp and support stand.

FEATURES + BENEFITS

- Digital speed display
- Electronic speed control
- Electronic overload protection
- Stainless steel dispersing elements are easily cleaned
- Smooth start
- Error code display



OPERATION



Supplied with:

- T50 Digital Homogeniser
- S50N-G45G Dispersion Tool
- R271 Bosshead Clamp
- R2723 Telescopic Stand

T50 Digital

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DESCRIPTION
MOTOR RATING INPUT	1,100W
MOTOR RATING OUTPUT	700W
VOLUME RANGE (H ₂ O)	0.25–30L
VISCOSITY MAX.	5,000mPa.s
SPEED RANGE	600–10,000rpm
SPEED DEVIATION	1%
SPEED DISPLAY	LED
SPEED ADJUSTMENT	Stepless
NOISE WITHOUT ELEMENT	72dB(A)
EXTENSION ARM DIAMETER	16mm
EXTENSION ARM LENGTH	220mm
PROCESS TYPE	Batch
DIMENSIONS (WxHxD)	115 x 355 x 139mm
WEIGHT	5.85kg
PROTECTION CLASS	IP20

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003787000	T50 Digital Homogeniser	Each
0009024500	T50 Digital Homogeniser Package	Each



T50 Accessories

DISPERSING ELEMENTS

Suitable for dispersing instrument T50.

ST tool recommended for use with tissue and other fibrous materials.



Technical Specifications

SPECIFICATIONS	S50N-G45G	S50N-G45M	S50N-G45F	S50N-G45G-ST
VOLUME RANGE (H ₂ O)	0.5–20L	0.5–15L	0.25–10L	0.5–20L
STATOR DIAMETER	45mm			
ROTOR DIAMETER	36mm	40.5mm	40mm	38mm
GAP BETWEEN ROTOR AND STATOR	-	0.25mm	0.5mm	
ALLOWABLE SPEED MAX.	10,000rpm		-	10,000rpm
CIRCUMFERENTIAL SPEED MAX.	18.8m/s	21.2m/s	20.9m/s	19.9m/s
IMMERSION DEPTH	70–250mm			
SHAFT LENGTH	304mm	298mm	290mm	300mm
MATERIAL IN CONTACT WITH MEDIUM	PTFE, AISI 316L			
PH RANGE	2–13			
SUITABLE FOR SOLVENTS	Yes			
SUITABLE FOR ABRASIVE SUBSTANCES	Yes			
WORKING TEMPERATURE RANGE	180°C			
STERILISATION METHODS	All methods			
ULTIMATE FINENESS, SUSPENSIONS	40–100µm	25–50µm	10–30µm	40–100µm
ULTIMATE FINENESS, EMULSIONS	10–30µm	5–20µm	1–10µm	10–30µm
WEIGHT	1kg	0.95kg	0.929kg	0.967kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0008003000	T50 S50N-G45G Dispersion Tool	Each
0008003300	T50 S50N-G45M Dispersion Tool	Each
0008003900	T50 S50N-G45F Dispersion Tool	Each
0008039500	T50 S50N-G45G-ST Saw Dispersion Tool	Each

T50 Accessories

DISPERSING ELEMENTS

Suitable for dispersing instrument T50.



Technical Specifications

SPECIFICATIONS	S50KG-HH-G45G	S50KG-HH-G45M	S50KG-HH-G45F
VOLUME RANGE (H ₂ O)	0.5–20L	0.5–15L	0.25–10L
STATOR DIAMETER	45mm		
ROTOR DIAMETER	36mm	40.5mm	40mm
CIRCUMFERENTIAL SPEED MAX.	18.8m/s	21.2m/s	20.9m/s
IMMERSION DEPTH	70–260mm	70–250mm	
SHAFT LENGTH	300mm		290mm
MATERIAL IN CONTACT WITH MEDIUM	FFPM / WC, AISI 316L		
PH RANGE	2–13		
SUITABLE FOR SOLVENTS	Yes		
WORKING TEMPERATURE RANGE	150°C		
STERILISATION METHODS	Wet chemical		
VACUUM	1mbar		
PRESSURE	6bar		
ULTIMATE FINENESS, SUSPENSIONS	40–100µm	25–50µm	10–30µm
ULTIMATE FINENESS, EMULSIONS	10–30µm	5–20µm	1–10µm
WEIGHT	0.552kg	0.52kg	0.51kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0008003200	T50 S50KG-HH-G45G Dispersion Tool	Each
0008003500	T50 S50KG-HH-G45M Dispersion Tool	Each
0008004100	T50 S50KG-HH-G45F Dispersion Tool	Each

T50 Accessories

DISPERSING ELEMENTS

Suitable for dispersing instrument T50.



To crush large pieces (up to 50mm) of fibrous materials, such as vegetation, vegetables and fruit.



For shortening mixing and dissolving times. The vertical flow and the high circumferential speed up to 10,000rpm ensure intensive mixing.

The head is used for adding gases or liquid, for lump free suspension of difficult to dissolve powders or for dissolving sedimented, already hardened substances.

Technical Specifications

SPECIFICATIONS	S50N-W65SK	S50N-W80SMK
VOLUME RANGE (H ₂ O)	1–10L	1–50L
STATOR DIAMETER	65mm	80mm
ROTOR DIAMETER	55mm	34mm
ALLOWABLE SPEED MAX.	10,000rpm	
CIRCUMFERENTIAL SPEED MAX.	28.8m/s	17.8m/s
IMMERSION DEPTH	80–250mm	140–350mm
MATERIAL IN CONTACT WITH MEDIUM	PTFE, AISI 316L, AISI 301	PTFE, AISI 316L, AISI 304
PH RANGE	2–13	
SUITABLE FOR SOLVENTS	Yes	
WORKING TEMPERATURE RANGE	180°C	
STERILISATION METHODS	All methods	
ULTIMATE FINENESS, SUSPENSIONS	50–200µm	-
ULTIMATE FINENESS, EMULSIONS	5–15µm	-
WEIGHT	1.5457kg	0.521kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0008005100	T50 S50N-W65SK Cutting Head Dispersion Tool	Each
0008006300	T50 S50N-W80SMK Jet Mixer Head Dispersion Tool	Each

T50 Accessories

DISPERSING ELEMENTS

R50 Stirring Element

With the R50 Stirring Element, the T50 Digital can be converted into a high speed stirrer. This configuration is recommended for applications that require medium to high shearing forces.

The dissolver disk design of the mixing head coupled with high speed results in rapid mixing, dissolving and disagglomeration. A protective cage is fitted around the mixing head and shaft to ensure safe operation. The R1402 dissolver head is included in scope of delivery.

Alternatively, the mixing head can be changed to the R1405 propeller design to facilitate low to medium mixing viscosities under low shear at high speed.



Convert your T50 into a high speed stirrer!

Technical Specifications

SPECIFICATIONS	DESCRIPTION
VOLUME RANGE (H ₂ O)	0.25–30L
STATOR DIAMETER	40mm
ALLOWABLE SPEED MAX.	10,000rpm
CIRCUMFERENTIAL SPEED MAX.	23.6m/s
IMMERSION DEPTH	50–180mm
SHAFT LENGTH	323mm
MATERIAL IN CONTACT WITH MEDIUM	AISI 316L, AISI 304
PH RANGE	2–13
SUITABLE FOR SOLVENTS	Yes
SUITABLE FOR ABRASIVE SUBSTANCES	Yes
WORKING TEMPERATURE RANGE	150°C
DRY OPERATIONS	Yes
WEIGHT	1.25kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0001689300	T50 R50 Stirring Element Dispersion Tool	Each

T50 Accessories

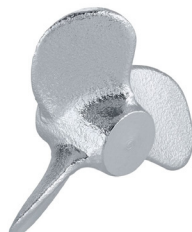
DISPERSING ELEMENTS

R1405 3 Blade Paddle

To be used with R50 stirring shaft.

Features + Benefits

- Flow efficient design
- For drawing the material to be mixed from the top and the bottom
- Minimum shearing forces
- Used at medium to high speeds



Technical Specifications

SPECIFICATIONS	DESCRIPTION
STIRRER DIAMETER	45mm
SHAFT DIAMETER	8mm
SHAFT LENGTH	350mm
SPEED MAX.	2,000rpm
MATERIAL IN CONTACT WITH MEDIUM	AISI 316L
WEIGHT	0.0261kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0001289800	R1405 3 Blade Paddle	Each

R1402 Dissolver Paddle

To be used with R50 stirring shaft.

Features + Benefits

- For radial flow patterns at high speed
- Ideal for low to medium mixing viscosities
- Suitable for medium to high shearing forces



Technical Specifications

SPECIFICATIONS	DESCRIPTION
WORKING RANGE	1-30L
ROTOR DIAMETER	40mm
WEIGHT	0.024kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0001243300	R1402 Dissolver Paddle	Each

T50 Accessories

STANDS

R2722 H Stand

- Sturdy stand with H-shaped base which prevents tipping
- Designed for larger, heavier instruments and attachments
- Adjustable screw compensates for uneven laboratory surfaces



Technical Specifications

SPECIFICATIONS	DESCRIPTION
PLATE DIMENSIONS	460 x 420mm
ROD DIMENSIONS	1,010 x 34mm
MAXIMUM LOAD	10kg
WEIGHT	4.558kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0001412000I	R2722 H Stand	Each

R2723 H Telescopic Stand

- Sturdy stand with H-shaped base which prevents tipping
- Pneumatic spring stand rod allows smooth raising and lowering of heavy instruments/attachments
- Adjustable screw compensates for uneven laboratory surfaces



Technical Specifications

SPECIFICATIONS	DESCRIPTION
PLATE DIMENSIONS	460 x 420mm
ROD DIMENSIONS	620–1,010 x 34mm
STROKE	390mm
MAXIMUM LOAD	10kg
WEIGHT	5.081kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0001412100I	R2723 H Telescopic Stand	Each

R271 Bosshead

Specialised clamp with openings for the R2722 and R2723 stands, as well as extensions with Ø16mm.



Technical Specifications

SPECIFICATIONS	DESCRIPTION
CLAMPING RANGE - STAND	34mm
CLAMPING RANGE - EXTENSION ARM	16mm
MATERIAL	Cast Aluminium

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0002664000I	R271 Bosshead	Each

RH5 Clamp Support

For securing vessels against walls or for synchronised rotation during stirring or dispersing, including R270 bosshead clamp.



Suitable for R2722 and R2723 stands.

Technical Specifications

SPECIFICATIONS	DESCRIPTION
STAND DIAMETER	25–36mm
VESSEL DIAMETER	40–300mm

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003159000I	RH5 Clamp Support	Each

T65 Digital

Our most powerful benchtop lab homogeniser, the T65 is ideal for large batch work, up to 50L. Fitted with high motor power, advanced digital interface and a heavy-duty design. Overload protection, easy tool exchange and error diagnostics ensure stable and safe operation.

It offers a wide speed range from 1,000–9,500rpm that enables work at high circumferential speeds, even with small rotor diameters.

Three rotor-stator configurations guarantee a wide range of applications. Reproducible results due to constant speed, even with changes in viscosity.



FEATURES + BENEFITS

- Digital speed display
- Electronic speed control
- Electronic overload protection
- Plug-in connectors facilitate exchange of dispersing elements
- Optional stainless steel dispersing elements for use under vacuum and pressure
- Error code display
- Mains cable (2.5m) and SI400 safety switch are available as accessories (not included with delivery)

OPERATION



Supplied with:

- T65 Digital Homogeniser
- Rotor wrench
- Hook wrench
- Shaft wrench
- 2x cable glands for switch cable
- Hexagon L-wrench

The device requires a three-phase electricity supply in order to operate.
The connection of the unit to the power supply must be done by a qualified electrician.
Wiring diagrams are included in the manual for reference.

T65 Digital Package

The T65 Digital Package provides a complete solution for large batch dispersing.

All the features of the T65 Digital, supplied with the S65KG-HH-G65G dispersion tool, T653 stand and essential tools.

FEATURES + BENEFITS

- Digital speed display
- Electronic speed control
- Electronic overload protection
- Plug-in connectors facilitate exchange of dispersing elements
- Optional stainless steel dispersing elements for use under vacuum and pressure
- Error code display
- Mains cable (2.5m) and SI400 safety switch are available as accessories (not included with delivery)



OPERATION



Supplied with:

- T65 Digital Homogeniser
- S65KG-HH-G65G Dispersion Tool
- T653 Stand
- Rotor wrench
- Hook wrench
- Shaft wrench
- 2x cable glands for switch cable
- Hexagon L-wrench

The device requires a three-phase electricity supply in order to operate.
The connection of the unit to the power supply must be done by a qualified electrician.
Wiring diagrams are included in the manual for reference.

T65 Digital

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DESCRIPTION
MOTOR RATING INPUT	2,600W
MOTOR RATING OUTPUT	2,200W
VOLUME RANGE (H ₂ O)	2–50L
VISCOSITY MAX.	5,000mPa.s
SPEED RANGE	1,000–9,500rpm
SPEED DEVIATION	3%
SPEED DISPLAY	7-Segment LED
SPEED ADJUSTMENT	Stepless
NOISE WITHOUT ELEMENT	75dB(A)
PROCESS TYPE	Batch
DIMENSIONS (WxHxD)	300 x 420 x 400mm
WEIGHT	35kg
PROTECTION CLASS	IP54

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0004234500I	T65 Digital Homogeniser	Each
0009023500I	T65 Digital Homogeniser Package	Each



T65 Accessories

DISPERSING ELEMENTS

Suitable for dispersing instrument T65.



Technical Specifications

SPECIFICATIONS	S65KG-HH-G65G	S65KG-HH-G65M	S65KG-HH-G65F
VOLUME RANGE (H ₂ O)	2–50L	2–40L	2–30L
STATOR DIAMETER	65mm		
ROTOR DIAMETER	53mm	58mm	
GAP BETWEEN ROTOR AND STATOR	0.5mm		
ALLOWABLE SPEED MAX.	9,500rpm		-
CIRCUMFERENTIAL SPEED MAX.	26.4m/s	28.8m/s	
IMMERSION DEPTH	90–450mm	80–450mm	
SHAFT LENGTH	520mm	510mm	
MATERIAL IN CONTACT WITH MEDIUM	FFPM / WC / AISI 316L		
PH RANGE	2–13		
SUITABLE FOR SOLVENTS	Yes		
WORKING TEMPERATURE RANGE	170°C		
STERILISATION METHODS	All methods		
VACUUM	1mbar		
PRESSURE MAX.	6bar		
ULTIMATE FINENESS, SUSPENSIONS	25–75µm	20–50µm	5–20µm
ULTIMATE FINENESS, EMULSIONS	5–25µm	5–15µm	1–10µm
DIMENSIONS	65 x 560 x 65mm		
WEIGHT	4.03kg	4.41kg	4.45kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0010010765	T65 S65KG-HH-G65G Dispersion Tool	Each
0010010767	T65 S65KG-HH-G65M Dispersion Tool	Each
0010010768	T65 S65KG-HH-G65F Dispersion Tool	Each

T65 Accessories

STANDS

T653 Telescopic Plate Stand

Specially designed for the dispersing instrument T65 Digital. The stand is equipped with a pneumatic spring which enables effortless raising and lowering of the dispersion unit.

Technical Specifications

SPECIFICATIONS	DESCRIPTION
SEATING PLATE DIMENSIONS	500 x 425mm
DIAMETER OF ROD	48mm
STROKE MAX.	1,000mm
OVERALL DIMENSIONS (WxHxD)	500 x 1,185 x 575mm
WEIGHT	25.25kg

Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0001608000	T653 Telescopic Plate Stand	Each



Tube Drive (Unit Only)

The Tube Drive is a unique and universal system for dispersing, stirring, homogenising and grinding with sealable disposable sample tubes. Offers protection and security for infectious sample materials, toxic substances, high-odour substances under defined conditions (time/energy/volume).



FEATURES + BENEFITS

- Disperse, stir, homogenise and grind using a single drive unit
- No possibility of cross-contamination
- Sealable disposable sample tubes
- No cleaning required
- High level of user safety
- Suitable for individual use and use in series
- Gamma-sterilised tubes
- Tubes with pierceable membrane covers
- Tubes with 2–15mL and 15–50mL
- Reproducible tests
- Patented design
- Quiet operation

OPERATION



Supplied with:

- Tube Drive Homogeniser
- Removal hook

Tube Drive (Unit Only)

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DESCRIPTION
MOTOR RATING INPUT	20W
MOTOR RATING OUTPUT	17W
SPEED DISPLAY	Scale
VISCOSITY MAX.	5,000mPa.s
SPEED RANGE	300–6,000rpm
SPEED DEVIATION	10%
SPEED ADJUSTMENT	Stepless
NOISE WITHOUT ELEMENT	50dB(A)
PROCESS TYPE	Batch
DIMENSIONS (WxHxD)	100 x 40 x 160mm
WEIGHT	750g
PROTECTION CLASS	IP20



Ordering Information



PRODUCT CODE	DESCRIPTION	PACK SIZE
0003646000	Tube Drive Homogeniser (Unit Only)	Each

Tube Drive P Control Workstation

The advanced P Control Workstation assures the best stirring, dispersing, grinding and homogenisation results.

Designed for the safe processing of infectious, toxic or high-odour samples. With a wide speed range of 400–8,000rpm and designed with programmable test conditions, adjustable direction of rotation and turbo mode, it guarantees high throughput and reproducible results.



FEATURES + BENEFITS

Disposable tubes

- The sealable, disposable tubes reduce the amount of cleaning required and rule out any risk of cross-contamination.

Programmable test conditions

- Specify and systematically program the test conditions and store frequently used parameters in your library (time, energy, volume).

Adjustable change in direction of rotation

- When and how often the direction of rotation should be changed is easily set using the clear and multilingual menu.

Turbo button

- For higher intensity mixing, dispersing or grinding. The turbo button is best used for short periods, where rotational speeds of up to 8,000rpm can be achieved.

OPERATION



Supplied with:

- Tube Drive Homogeniser
- 3x ST-20 Stirring tubes, 20mL
- DT-20 Dispersing tube, 20mL
- Glass balls (6mm) for BMT tubes
- Stainless steel balls (5mm) for BMT tubes
- Removal hook
- Plastic hose for drainage
- USB A-B cable

Tube Drive P Control Workstation

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DESCRIPTION
MOTOR RATING INPUT	36W
MOTOR RATING OUTPUT	28W
SPEED DISPLAY	OLED
VISCOSITY MAX.	5,000mPa.s
SPEED RANGE	400–8,000rpm
SPEED DEVIATION	3%
SPEED ADJUSTMENT	10rpm steps
TIMER	Yes
TIMER DISPLAY	OLED
NOISE WITHOUT ELEMENT	50dB(A)
PROCESS TYPE	Batch
REVERSIBLE DIRECTION OF ROTATION	Yes
DIMENSIONS (WxHxD)	122 x 54 x 178mm
WEIGHT	1.5kg
PROTECTION CLASS	IP20
USB INTERFACE	USB-B



Ordering Information



PRODUCT CODE	DESCRIPTION	PACK SIZE
00250058361	Tube Drive P Control Workstation Homogeniser	Each

STIRRING TUBES

Applications: Mixing, stirring, extractions and preparation of soil sample suspensions, solubility testing for medication.

Further applications for **non-sterile**:

- Additional media quantities may be used during operation
- Sampling during operation

Further applications for **sterile**:

- Additional media quantities may be used during operation
- Sampling during operation
- Sample preparation under sterile conditions
- Germ-free conservation of samples (tissue, blood, etc)



Technical Specifications

SPECIFICATIONS	ST-20	ST-20-M-GAMMA	ST-50	ST-50-M-GAMMA
VOLUME RANGE (H ₂ O)	2–15mL		15–50mL	
TUBE DIAMETER	29mm		48mm	
VOLUME TUBE	20mL		50mL	
DRY OPERATION	Yes			
MATERIAL MEMBRANE	PP			
MATERIAL TESTING VESSEL AND CAP	PP			
MATERIAL GYRATE STICK	PEEK			
STERILE	-	Yes	-	Yes
WEIGHT	0.345kg	0.3806kg	0.382kg	0.4307kg

Ordering Information



PRODUCT CODE	DESCRIPTION	VOLUME	PACK SIZE
0003703000I	ST-20 Stirring Device Dispersion Tube	20mL	PK25
0003700500I	ST-20-M-Gamma Stirring Device Dispersion Tube - Gamma-sterile	20mL	PK20
0003699500I	ST-50 Stirring Device Dispersion Tube	50mL	PK10
0003701500I	ST-50-M-Gamma Stirring Device Dispersion Tube - Gamma-sterile	50mL	PK10

Tube Accessories

DISPERSING TUBES

Applications: Dispersion, homogenisation and suspensions.

Further applications for **non-sterile**:

- Additional media quantities may be used during operation
- Sampling during operation

Further applications for **sterile**:

- Additional media quantities may be used during operation
- Sampling during operation
- Sample preparation under sterile conditions
- Germ-free conservation of samples (tissue, blood, etc)



Technical Specifications

SPECIFICATIONS	DT-20	DT-20-M-GAMMA	DT-50	DT-50-M-GAMMA
VOLUME RANGE (H ₂ O)	5–15mL		15–50mL	
STATOR DIAMETER	22mm			
ROTOR DIAMETER	21.5mm			
GAP BETWEEN ROTOR AND STATOR	0.25mm			
TUBE DIAMETER	29mm		48mm	
CIRCUMFERENTIAL SPEED AT 6,000RPM	6.7m/s			
VOLUME TUBE	20mL		50mL	
DRY OPERATION	Yes			
MATERIAL DISPERSING UNIT	PEEK + PTFE			
MATERIAL MEMBRANE	PP			
MATERIAL TESTING VESSEL AND CAP	PP			
MATERIAL GYRATE STICK	PEEK			
STERILE	-	Yes	-	Yes
WEIGHT	0.432kg	0.45kg	0.409kg	0.47kg

Ordering Information



PRODUCT CODE	DESCRIPTION	VOLUME	PACK SIZE
0003703100I	DT-20 Rotor/Stator Dispersion Tube	20mL	PK25
0003700600I	DT-20-M-Gamma Rotor/Stator Dispersion Tube - Gamma-sterile	20mL	PK20
0003699600I	DT-50 Rotor/Stator Dispersion Tube	50mL	PK10
0003701600I	DT-50-M-Gamma Rotor/Stator Dispersion Tube - Gamma-sterile	50mL	PK10

Tube Accessories

BALL MILLING TUBES

Applications: Dry milling of dry and brittle samples (e.g. kaolin, gypsum, coloured pigments, tablets), cell maceration, processing of materials mixed with fluids.

Further applications for **non-sterile**:

- Additional media quantities may be used during operation
- Sampling during operation

Further applications for **sterile**:

- Additional media quantities may be used during operation
- Sampling during operation
- Sample preparation under sterile conditions
- Germ-free conservation of samples (tissue, blood, etc)



Technical Specifications

SPECIFICATIONS	BMT-20-S	BMT-20-S-M-GAMMA	BMT-20-G	BMT-50-S	BMT-50-S-M-GAMMA	BMT-50-G
VOLUME RANGE (H ₂ O)	2–15mL			20–50mL		15–50mL
TUBE DIAMETER	29mm			48mm		
VOLUME TUBE	20mL			50mL		
DRY OPERATION	Yes					
MATERIAL BALLS	Stainless steel		Soda lime glass	Stainless steel		Soda lime glass
MATERIAL MEMBRANE	PP					
MATERIAL TESTING VESSEL AND CAP	PP					
MATERIAL GYRATE STICK	PEEK					
STERILE	-	Yes	-		Yes	-
WEIGHT	0.594kg	0.484kg	0.564kg	0.643kg	0.4896kg	0.643kg

Ordering Information



PRODUCT CODE	DESCRIPTION	MATERIAL	VOLUME	PACK SIZE
0003703200I	BMT-20-S Milling Dispersion Tube	Stainless Steel Balls	20mL	PK25
0003700701I	BMT-20-S-M-Gamma Milling Dispersion Tube - Gamma-sterile	Stainless Steel Balls	20mL	PK20
0003703300I	BMT-20-G Milling Dispersion Tube	Glass Balls	20mL	PK25
0003699700I	BMT-50-S Milling Dispersion Tube	Stainless Steel Balls	50mL	PK10
0003701700I	BMT-50-S-M-Gamma Milling Dispersion Tube - Gamma-sterile	Stainless Steel Balls	50mL	PK10
0003699800I	BMT-50-G Milling Dispersion Tube	Glass Balls	50mL	PK10

Tube Accessories

BALL MILLING TUBES

TC-20-M Spare Tube Lid

Lid with pierceable membrane for 20mL tubes, suitable for:

- Additional media quantities may be added during operation
- Sampling during operation



Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003749900	Spare Lid TC-20-M Dispersion Tube	PK25

TC-50-M Spare Tube Lid

Lid with pierceable membrane for 50mL tubes, suitable for:

- Additional media quantities may be added during operation
- Sampling during operation



Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003750000	Spare Lid TC-50-M Dispersion Tube	PK25

Replacement Glass Balls, 6mm

- 6mm glass balls for BMT tubes
- 250g glass balls
- Approximately 250 per pack



Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003599200	Dispersion Tube Replacement Glass Balls, 6mm	250g

Replacement Stainless Steel Balls, 5mm

- 5mm stainless steel balls for BMT tubes
- 250g stainless steel balls
- Approximately 480 per pack



Ordering Information

PRODUCT CODE	DESCRIPTION	PACK SIZE
0003599300	Dispersion Tube Replacement Stainless Steel Balls, 5mm	250g



Printed technical specifications are subject to change without notification.
LabCo® is a registered trademark.

See the full product range online.

1800 052 226
sales@labcoscientific.com.au
labcoscientific.com.au