

Mikro-Dismembrator S

The high-performance laboratory ball mill



Benefits

- ball mill for solid or frozen samples
- highest efficiency by top speed
- electronic control of speed and time

The Mikro-Dismembrator S is the most efficient instrument for homogenization of solid or frozen samples. Due to the high shaking frequency of 3000 min⁻¹, solid samples such as bone or deep-frozen tissue, e.g. from biopsies, are disintegrated to fine powder rapidly, often within less than a minute.

This effectively prevents decomposition of target molecules such as DNA, RNA or proteins by endogenous enzymes. Reproducibility of the process is guaranteed by digital control of shaking speed and time.

The sister instrument, Mikro-Dismembrator U, has a maximum shaking frequency of 2000 min⁻¹ and is used for less stringent applications. Both units are compatible with a large range of accessories such as shaking flasks, grinding balls or glass beads.

Technical specifications

Mechanical Data

Dimensions	W × H × D = 297 × 259 × 205 mm
Weight	19 kg
Housing	Steel construction
Protection	IP21

Electrical data

Connection	Class I cold socket, separate cable approx. 3 m
Protection class	I
Line voltage	230 V 50 Hz, 115 V 60 Hz, adjustable
Power	Approx. 100 W (S) or 75 W (U)
Fuses	2 × T1.0A at 230 V, 2 × T1.6A at 115 V
Interference	Class N according to EN 55014-2

Operating data

Shaking amplitude	16 mm (constant)
Shaking frequency	100 to 2.600 1/min (permanent)
Mikro-Dismembrator S	100 to 3.000 1/min (intermittent)
Shaking frequency	100 to 2.000 1/min
Mikro-Dismembrator U	
Accuracy	max. ±3% of final value
Setting / display	Alphanumeric key pad, LCD
Timing	0:01 to 98:59 min, continuous action at 99:00 min
Ambient temperature	+10°C to +35°C
Humidity	Avoid extreme humidity

Ordering information

BBI-8531609

Mikro-Dismembrator S
115 V/230 V/50–60 Hz, convertible

BBI-8531722

Mikro-Dismembrator U
230 V/50–60 Hz

BBI-8531730

Mikro-Dismembrator U
115 V/60 Hz

Accessories

All units are delivered without shaking flasks and other accessories.

Shaking flasks and grinding balls or glass beads are required for the grinding process.

Accessories



Reference

Description

	Shaking flasks made of stainless steel 1.4301
BBI-853 1803	Shaking flask, stainless steel 1.4301, volume approx. 3 ml, with PTFE gasket and cap
BBI-8531811	Shaking flask, stainless steel 1.4301, volume approx. 5 ml, with PTFE gasket and cap
BBI-853 1820	Shaking flask, stainless steel 1.4301, volume approx. 7 ml, with PTFE gasket and cap



	Shaking flasks made of PTFE
BBI-853 1838	Shaking flask, PTFE, volume approx. 3 ml, with cap
BBI-853 1846	Shaking flask, PTFE, volume approx. 5 ml, with cap
BBI-853 1854	Shaking flask, PTFE, volume approx. 7 ml, with cap
BBI-853 1862	Shaking flask, PTFE, volume approx. 20 ml, with cap

Holder 8531897 is required for using this shaking flask!

	Shaking flasks made of PTFE
BBI-853 1943	Shaking flask, PTFE, volume approx. 3 ml, with screw cap
BBI-853 1935	Shaking flask, PTFE, volume approx. 5 ml, with screw cap
BBI-853 1927	Shaking flask, PTFE, volume approx. 7 ml, with screw cap
BBI-853 1951	Shaking flask, PTFE, volume approx. 20 ml, with screw cap

Holder 8531897 is required for using this shaking flask!



	Containers for disposable tubes, holder
BBI-853 1889	Container for 3 disposable test tubes 2.2 ml \varnothing 10.8 x 37 mm, for instance Sarstedt no. 72.608
	Holder 8531897 is required for using this shaking flask!
BBI-853 1960	Container for 4 cryotubes
	Holder 8531897 is required for using this shaking flask!
BBI-853 1897	Holder for shaking flask 20 ml (8531951) and for the containers for disposable tubes (8531889, 8531960 and 8532001)
BBI-853 2001	Container for 4 cryotubes (Nalge 5011-0012)
	Holder BBI-8531897 is required for using this shaking flask!
BBI-853 2010	Adapters for cryotubes BBI-8532001
	pack of 8 (as spare parts)



	Special accessories
BBI-853 1900	Tray for microwell plates, capacity of 2 microwell plates with 96 borings, for using the Mikro-Dismembrator as a small shaker
BBI-853 1986	Adapter set for using Mikro-Dismembrator U/S flasks with the Mikro-Dismembrator II, for shaking flasks 3 ml, 5 ml, 7 ml

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Reference	Description
	Grinding balls
BBI-854 7505	Made of Brazilian agate Grinding ball made of Brazilian agate, Ø 10 mm, weight 1.4 g, package with 10 pieces
BBI-854 7602	Made of PTFE, with steel core Grinding ball made of PTFE with steel core, Ø 12 mm, weight 2 g, package of 2 pieces
BBI-854 6606	Made of chromium steel Grinding ball made of chromium steel, specific weight 7.85 g/ml, Ø 3 mm, package of 100 pieces
BBI-854 6703	Grinding ball made of chromium steel, specific weight 7.85 g/ml, Ø 5 mm, package of 100 pieces
BBI-854 6916	Grinding ball made of chromium steel, specific weight 7.85 g/ml, Ø 9 mm, package of 10 pieces
BBI-854 6800	Grinding ball made of chromium steel, specific weight 7.85 g/ml, Ø 10 mm, package of 10 pieces
BBI-854 7009	Made of Tungsten carbide Grinding ball made of Tungsten carbide, specific weight 14.5 g/ml, Ø 1mm, 1 piece
BBI-854 7106	Grinding ball made of Tungsten carbide, specific weight 14.5 g/ml, Ø 3 mm, 1 piece
BBI-854 7203	Grinding ball made of Tungsten carbide, specific weight 14.5 g/ml, Ø 5 mm, 1 piece
BBI-854 7408	Grinding ball made of Tungsten carbide, specific weight 14.5 g/ml, Ø 7 mm, 1 piece
BBI-854 7300	Grinding ball made of Tungsten carbide, specific weight 14.5 g/ml, Ø 10 mm, 1 piece
	Glass beads
BBI-854 1400	Glass beads Ø 0.10–0.11 mm, bottle, approx. 570 ml
BBI-854 1507	Glass beads Ø 0.17–0.18 mm, bottle, approx. 570 ml
BBI-854 1604	Glass beads Ø 0.25–0.30 mm, bottle, approx. 570 ml
BBI-854 1701	Glass beads Ø 0.40–0.60 mm, bottle, approx. 570 ml
BBI-854 1809	Glass beads Ø ca. 1 mm, bottle, approx. 570 ml