

MICROTRON® MB 550 / MB 800



HOMOGENIZING AND MIXING TECHNOLOGY FOR CUTTABLE, DRY OR LIQUID SAMPLES IN THE LABORATORY





MICROTRON® - Laboratory mixer

Analysis and quality control requires equipment that is flexible for preparing samples and easy to work with. These mixers are well suited for intense mixing, dispersing, homogenizing, emulsifying and mincing operations for cuttable materials. Simple handling, high user safety and efficiency are just a few advantages offered by these mixers.

TECHNICAL DATA

Working volumes MB 550: 125, 250, 500, 1000 ml MB 800: 2000 or 4000 ml

Motor Collector motor (Class H) Gearless direct drive Security system auto-off

Drive power MB 550: 550 Watt MB 800: 800 Watt

Speed range MB 550: 1'000 to 15'000 rpm MB 800: 1'000 to 17'000 rpm

Sound level MB 550: ca. 72 dB(A) at 15'000 rpm MB 800: ca. 79 dB(A) at 17'000 rpm

Supply voltage 230 V ± 10%, 50Hz / 60Hz 120 V ± 10%, 60Hz

Maximum relative humidity 80 % in storage 80 % during operation

Operating temperature 0 – 40 °C

Protection Class according to DIN IP 20

Drive dimensions (H / ø) MB 550: 245mm / ø 190mm MB 800: 245mm / ø 190mm

Weight MB 550: 4,4 kg MB 800: 5,3 kg

Standard EMC EN 60335-1:1988, EN 60335-2-64:1993, EN 55014:1993, EN 55104:1995,

EN 55014:1993, EN 55104:1995, EN 61000-3-2:1995, EN 61000-3-3:1995, prEN 60335-2-64:1997

Safety norm Protection Class 1 according to EN 60335-1



PROCESSING VOLUMES

The robust design allows for high stability and a long service life, even when using high rotational speeds. There are four different attachments for the MB 550 with the volumes 125 ml, 250 ml, 500 ml and 1000 ml. Larger volumes up to 2 or 4 liters can be processed with the M800 and the associated stainless steel mixing cups.

SAFETY SYSTEM

The safety system prevents uncontrolled operation. Both models can only be operated with properly attached protective covers (MB550) or with a lid (MB800). If stones or similar materials are accidentally mixed, the user will be protected by a plexiglass protection cover (MB550). After unscrewing the blade unit, the borosilicate glass sample container can be used in its full functionality for other analysis purposes or for sample storage.

Both devices comply with CE regulations for industrial machines.

ERGONOMICS

- Smooth rotational speed adjustment with integrated onand off switch
- Load compensated rotational speed adjustment
- Switching of mixing- and protection cover attachment without tools
- Mixing attachment made from dishwasher compatible materials
- Operation only possible with security cover and lid in place
- Variety of sample container designs
- Vibration dampening quick coupling
- Very quiet motor with integrated ventilation cooling
- Integrated load, heat and blockage protection

RESULTS ARE CRUCIAL

PRODUCTION OF VERY FINE PARTICLE SIZES IN BOTH LIQUID AND DRY MEDIUMS

Precise analyses require homogeneous samples

EFFICIENT SAMPLE PREPARATION Through high rotational speeds

FLEXIBILITY Various sample volumes with different mixing attachments

CLEANING Dishwasher compatible attachments

HANDLING Mounting of mixing attachment and protection cover without tools

LONGEVITY, a Swiss virtue

Applications/Operating range





Pollutant analysis (e.g. foodstuffs)

Order information and accessories

The laboratory mixers MB 550 and MB 800 can be expanded with functional accessories according to your wishes and requirements. Our experts will gladly assist you if you have any application related questions.

	1		LABORATORY MIXER
		Order no.	Designation
			MICROTRON® MB 550 without mixing attachment and protective cover
		36010005	MICROTRON [®] MB 550, 230 V / EU -plug
		36010005	CH- or UK plug can be mounted upon request; please indicate this when ordering.
		36010010	MICROTRON [®] MB 550, 100-120 V / US -plug
			MICROTRON® MB 800 without mixing attachment
		36010003	MICROTRON [®] MB 800, 230 V / EU -plug
		36010003	CH- or UK plug can be mounted upon request; please indicate this when ordering.
MB 550	MB 800	36010004	MICROTRON® MB 800, 100-120 V / US -plug

MIXING ATTACHMENTS (MICROTRON® MB 550)

Designation	MBA 125	MBA 250	MBA 500	MBA 1000
Arbeitsvolumen	125 ml	250 ml	500 ml	1000 ml
Order no.	36050005	36050010	36050015	36050020

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Description
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Mixing attachments MBA 125 to MBA 1000 consist of borosilicate glass, gasket and blade head.



Plexiglass protection glass is absolutely required when using MBA mixing attachment.

MBH 1000
MIDH 1000
228 mm
36050040

Description









MIXING ATTACHMENTS (MICROTRON® MB 800)		
Designation	MBA 2000	MBA 4000
Working volumes	2'000 ml	4′000 ml
Order no.	36050050	36050055

Description

Mixing attachment consists of premium steel, gasket and blade head as well as lid with opening for material addition.





Mixing attachments and blade heads

BOROSILICATE GLASS MIXING ATTACHMENTS AND PROTECTION COVERS (MICROTRON® MB 550)

MIXING ATTACHMENTS

After sample preparation the mixing attachments from heat resistant borosilicate glass MBA 125 to MBA 1000 can be used for further laboratory tasks without the need to transfer contents. The vessels are simply screwed to the blade head with a glass thread and spacer ring.

All parts are dishwasher compatible and made from stainless materials.

PROTECTION COVER

The protection covers are for the various MBA mixing attachments. For safety reasons, it is not possible to start the MB550 mixer without a protection cover. The 5mm thick plexiglass cover also protects the operator in case of glass breakage when stones or similar solid materials are accidentally mixed.

These mixing attachments and protection covers can only be used with the MB 550.

MIXING ATTACHMENTS OF STAINLESS STEEL (MICROTRON® MB 800)

MIXING ATTACHMENT

MBA 2000 and MBA 4000, made of stainless steel, allow processing of larger amounts. Due to safety reasons, it is not possible to start the machine when the lid is open or open the machine when it is running. Additional sample material can be added during operation only via the integrated opening in the lid.

All parts are made from dishwasher compatible and stainless materials. The blade head can be easily unscrewed for cleaning purposes.

These mixing attachments can only be used with the MB 800.

HIGH-PERFORMANCE STAINLESS STEEL CUTTING BLADE ASSEMBLY (MICROTRON® MB 550 AND MB 800)

THE CUTTING BLADE ASSEMBLY

The six polished premium steel rotor blades have been optimized for intense and quick processing for all types of samples. All parts that touch the product are made from stainless steel and can be easily detached and cleaned. Integrated stainless steel ball bearings ensure ease of movement and a perfectly true run. Power transmission occurs via a rubber cushioned plug coupling.

GASKETS

The standard gaskets are made from NBR material. Upon request, gaskets from EPDM, silicone or viton are also available.







YOUR APPLICATION IS OUR FOCUS!

KINEMATICA is a leading manufacturer of dispersing and mixing technology for standard and customized applications in the lab, pilot plant and production areas of pharmaceutical, chemical, food, cosmetic and biotech or life science companies worldwide.

Our POLYTRON[®] batch and MEGATRON[®] In-line Homogenizers are suitable for many applications:

- Dispersing of-non soluble liquids or solids into liquids to finest emulsions/ multiple emulsions or suspensions
- Induction and dispersion of powders into liquids
- Foaming by gas induction into liquids
- Disintegration of tissue samples for preparation in further analysis
- Dispersing of various samples for quality control

We also deliver POLYMIX[®] Micro Dry Grinding Mills and a variety of POLYMIX[®] and MICROTRON[®] Overhead Stirrers and Mixers.

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Viscometers







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Dispersing and Mixing recimon

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