



KINEMATICA

Homogenizing perfected.



MICROTRON®

LABORATORY LINE

MICROTRON® MB 950 G and MB 950 S

Laboratory mixer, homogenizing and mixing technology for cuttable, dry or liquid samples

MICROTRON[®] MB 950 G and MB 950 S

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.

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 950 G with the volumes 125 ml, 250 ml, 500 ml and 1000 ml. Larger volumes up to 2 or 4 liters can be processed using the MB 950 S with 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. If stones or similar materials are accidentally mixed, the user will be protected by a Plexiglas protection cover.

Both devices comply with CE regulations for industrial machines.

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.

NEW TOUCHSCREEN

With self-explanatory functions at your fingertips, operations have never been easier with the new touchscreen feature.

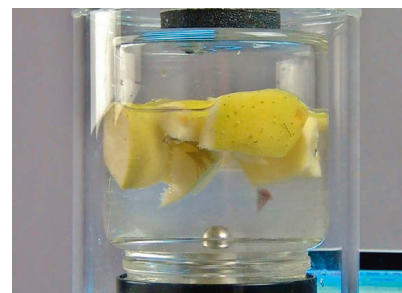
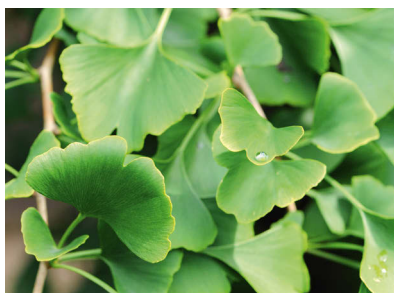
Timer, stopwatch, pulse, and other automatic functions are intuitively designed for fast and easy digital processing commands while the conventional rotary knob is still in place to serve manual preferences.

ERGONOMICS

- Smooth rotational speed adjustment with integrated on- and off switch
- Load compensated rotational speed adjustment
- Switching of mixing attachment and protection cover without tools
- 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
- Handling: mounting of mixing attachment and protection cover without tools
- Durability: a Swiss virtue





TECHNICAL INFORMATION

Working volumes	MB 950 G: 125, 250, 500, 1000 ml MB 950 S: 2000 ml or 4000 ml
Motor	Collector motor (Class H) Gearless direct drive Security system auto-off
Drive power	950 Watt to max 1700 Watt
Speed range	1,000 to 17,000 rpm
Sound level	ca. 72 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)	226 mm / ø194 mm
Weight (drive unit)	5,8 kg
Directives	2006/42/EC, 2014/30/EU, 1935/2004/EC
Standards	EN 12852, EN 60335-1, EN 55014-1, EN55014-2, EN 61000-3-2:1995, EN 61000-3-3, EN 6100-4-2
Safety norm	Protection Class 1 according to EN 60335-1



USERS /APPLICATION RANGES

- Mixing, dispersing, homogenizing, emulsifying with liquids
- Mixing of cuttable materials
- Sample preparation for content analysis in quality control and /or quality assurance
- Prevention of excessive aeration due to closed system (MB 950 G)
- Pollutant analysis (e.g. foodstuffs)

This list provides a small selection of possible applications.

Mixing attachments and blade heads.

Your requirements are our standard.

A selection of diverse vessels with integrated safety systems offers the perfect solution for processing cuttable materials in various volumes.



BOROSILICATE GLASS MIXING ATTACHMENTS AND PROTECTION COVERS (MICROTRON® MB 950 G)

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.

Protection cover

The protection covers are for the various MBA mixing attachments. For safety reasons, it is not possible to start the MB 950 G mixer without a protection cover. The 5 mm thick Plexiglas 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 950 G.



MIXING ATTACHMENTS OF STAINLESS STEEL (MICROTRON® MB 950 S)

Mixing attachments

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.

The blade head can be easily unscrewed for cleaning purposes.

These mixing attachments can only be used with the MB 950 S.



HIGH-PERFORMANCE STAINLESS STEEL CUTTING BLADE ASSEMBLY (MICROTRON® MB 950 G AND MB 950 S)

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, or viton are also available.

Order information and accessories.

Authorized extension of your system.

The laboratory mixers MB 950 G and MB 950 S 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.

LABORATORY MIXER

Sales No.	Product	Description
MICROTRON® MB 950 G drive unit without mixing attachment and protective cover		
36010150	MB 950 G, 230 V	EU-power cable
36010151	MB 950 G, 230 V	CH-power cable
36010152	MB 950 G, 230 V	UK-power cable
36010153	MB 950 G, 100 - 120 V	Power cable
MICROTRON® MB 950 S drive unit without mixing attachment		
36010160	MB 950 S, 230 V	EU-power cable
36010161	MB 950 S, 230 V	CH-power cable
36010162	MB 950 S, 230 V	UK-power cable
36010163	MB 950 S, 100 - 120 V	Power cable



MIXING ATTACHMENTS (MICROTRON® MB 950 G)

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

Sales No.	Product	Description
36050005	MBA 125	Working volumes: 125 ml
36050010	MBA 250	Working volumes: 250 ml
36050015	MBA 500	Working volumes: 500 ml
36050020	MBA 1000	Working volumes: 1000 ml



PROTECTIVE COVERS (MICROTRON® MB 950 G)

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

Sales No.	Product	Description
36050025	MBH 125	Height: 86 mm
36050030	MBH 250	Height: 128 mm
36050035	MBH 500	Height: 149 mm
36050040	MBH 1000	Height: 228 mm



LABORATORY MIXER (MICROTRON® MB 950 S)

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

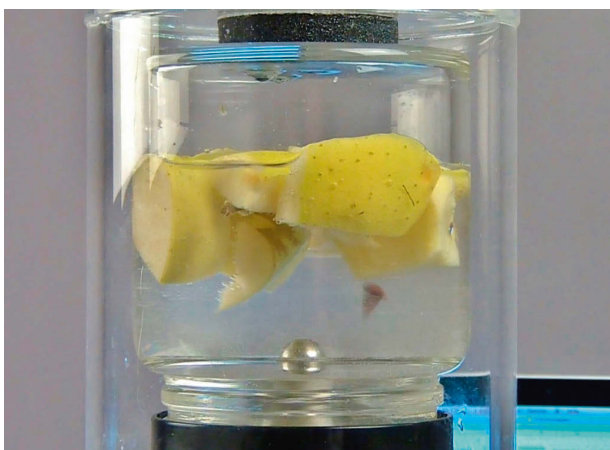
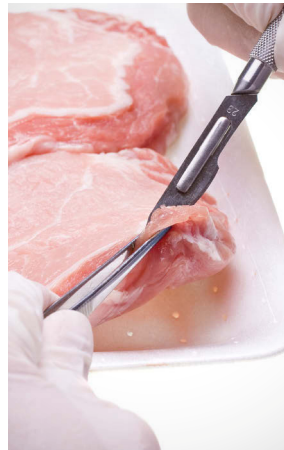
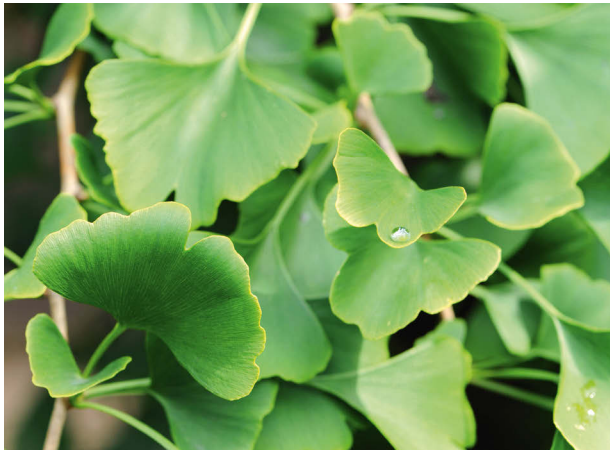
Sales No.	Product	Description
36050050	MBA 2000	Working volumes: 2000 ml
36050055	MBA 4000	Working volumes: 4000 ml



Users / application ranges.

Best solution for every application.

Since 1962 we are a leading supplier of dispersing solutions for applications in the chemical, biotechnology, pharmaceutical, cosmetics and food industries. Due to our close relationships with our customers we detect new trends early and we always look for ways to find an ideal solution for you.





Our mission. Your solution.

Homogenizing perfected: for every industry.

Kinematica's broad portfolio of solutions can address almost every dispersing application for the pharmaceutical, cosmetic, chemical, food, and biotech industry. Innovative powder-induction systems, solutions for completely sterile environments, or fully-compliant ATEX architecture are just some examples of the broad portfolio that Kinematica can offer with true scalability from pilot-plant to large plant configurations.

Our state-of-the-art technology, in addition to a professional consulting and engineering suite of services, can address a variety of processes such as blending / mixing / stirring, emulsifying, deagglomerating, foaming, crushing, and homogenizing with particle size reduction from a few micrometers down to nanometers in size: the proprietary design and innovative geometry of our aggregates / generators can downsize and provide perfect statistical particle distribution for the finest emulsions / suspensions and foam dispersions.



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PHARMA



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