



Tripod

for MAS-100[®] Microbiological Air Sampler

HARDWARE MANUAL



THANK YOU VERY MUCH!

Dear customer

congratulations and thank you very much for choosing a product from MBV AG. We are pleased to make a contribution to your success.



MBV AG develops and produces precision microbial air samplers for more than 20 years. Our uncompromising quest for the best possible quality has convinced globally leading companies to rely on our solutions for their most demanding applications. Our superior product quality is backed by global availability of application and service support.

For best performance of your product please read this instruction manual carefully. The manual will provide you with the necessary information for correct and safe use of your new product.

If you need additional technical or application information, do not hesitate to contact us at welcome@mbv.ch or find more information on www.mbv.ch.

DISTRIBUTOR

MBV AG
Industriestrasse 9
CH-8712 Stäfa
Switzerland



Note

Up-to-date product information – such as Service Information Letters (SIL) – are available in the Customer Center area of the MBV AG website www.mbv.ch.

There, important product after-sales information about changes, issues, instructions and news is provided to customers.

DOCUMENT HISTORY

Version	Released	History
1.0	13.05.2019	- Initial release
		-

TRADEMARKS

The following product names are used for identification purposes only. They remain the exclusive property of their respective owners.

MBV AG	
MAS-100®	Switzerland
MAS-100 Eco®	Switzerland
MAS-100 VF®	Switzerland and other countries
MAS-100 NT®	Switzerland and other countries
MAS-100 NT Ex®	Switzerland and other countries
MAS-100 Iso NT®	Switzerland and other countries
MAS-100 Iso MH®	Switzerland and other countries
MAS-100 CG Ex®	Switzerland
DA-100®	Switzerland and other countries
DA-100 NT®	Switzerland and other countries

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ABBREVIATIONS

The MAS-100 air sampler are designated hereafter as «instrument».

APPLICABILITY

The information in this manual is valid for the following configurations:

Component	Version
MAS-100 Eco®	Only with tripod adapter (02.2055.01)
MAS-100 VF®	All
MAS-100 NT®	All
MAS-100 NT Ex®	All

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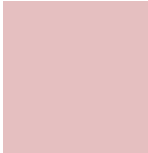
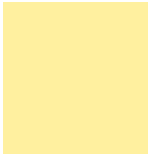

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1. GENERAL INFORMATION







This chapter provides information of general interest regarding the accessory.


1.1. SAFETY INFORMATION

1.1.1. SEVERITY LEVELS

	Warning Symbols in red boxes indicate hazardous situations which could result in danger to life and/or serious injury and/or irreparable damage to the instrument.
	Attention Symbols in yellow boxes indicate critical situations which could result in light injuries and/or damage to the equipment and/or unreliable air sampling results.
	Note Symbols in green boxes indicate information which may be of major interest for the user.

1.1.2. SPECIFIC SAFETY INFORMATION FOR THE TRIPOD

	Hazard of falling instrument Ensure that the instrument is mounted correctly on the tripod.
	Hazard of falling instrument When retracting the center column, hold it firmly by hand.
	Hazard of falling instrument Use the bigger thread to mount the instrument on the tripod.
	Hazard of tipping over when extending the center column Ensure that tripod is placed on stable and non-slippery ground.
	Hazard of sliding down of the extracts After extending the center column, tighten the locking knob well.
	Hazard of falling instrument While using the tripod, follow the safety instructions.

	<p>Hazard of sliding down of the instrument After extending the legs, tighten the foot bracket with the lever well.</p>
	<p>Hazard of pinching the hand When retracting the center column.</p>
	<p>Hazard of pinching the hand When folding the legs.</p>
	<p>Hazard of damaging the instrument and/or other objects For transportation of the tripod, remove the instrument from it.</p>
	<p>Note Attach the instrument to the tripod according to the manual.</p>
	<p>Note The working area has to be secured in a 4-meter radius. Third parties have to be kept outside the working area. Do not leave the tripod unattended.</p>
	<p>Note From a height of 1.5 meters and above there is a risk for tip over of the tripod. We recommend further actions, like putting weight on the tripod at the brace.</p>
	<p>Note Wearing head protection is recommended for your own safety, during use of tripod.</p>
	<p>Note Wearing safety-toe footwear is recommended for your own safety, during use of tripod.</p>
	<p>Note Only trained, qualified and authorized personnel are allowed to use the tripod. MBV AG assumes no liability for improper use.</p>

1.2. OPERATION

1.2.1. PERSONNEL QUALIFICATION

The device is intended for industrial and laboratory use only. Its use must be restricted to authorized personnel only.

1.2.2. INTENDED PRODUCT USE

The device is intended solely for lifting up handheld air samplers of the MAS-100 product family.

1.3. WARRANTY

This chapter informs about the warranty of the accessory and the procedures to follow if the accessory isn't working as described in the user manual.

For products listed in this publication purchased directly from MBV AG the applicable warranty may be found at: www.mbv.ch/gtc_20-en.html.

1.4. PRODUCT LABELING

The label on the tripod suggests to read the manual before using it.

SIGNIFICANCE OF THE SYMBOLS ON THE LABEL



Read the instructions before using the accessory.

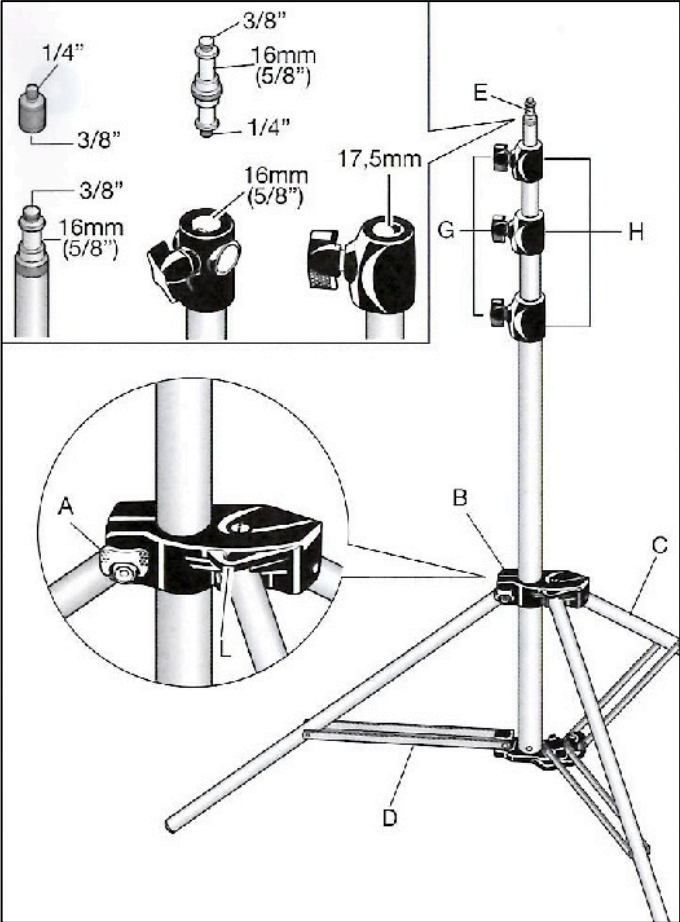


Read the specific safety information for the tripod

2. HARDWARE DESCRIPTION

2.1. PARTS DESIGNATION

The figure below shows the main components of the tripod.





- "A" lever
- "B" foot bracket
- "C" leg
- "D" leg brace
- "E" mounting stud
- "G" center column locking knob
- "H" center column



2.2. SCOPE OF DELIVERY

Unpack the accessory carefully and verify whether all items listed below are present in the portable case.

Contact your local representative immediately if items are missing or show signs of defect.

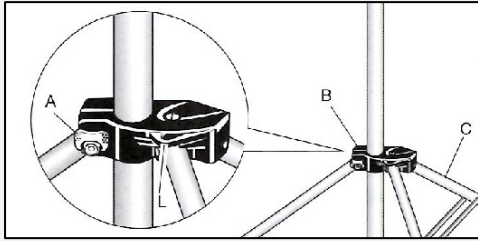


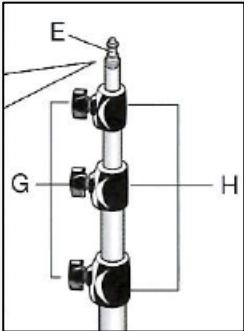
Description	Article No.		Picture
	Merck KGaA	MBV AG	
Manual for Tripod	-	-	
Tripod for MAS-100 /Ex/Eco/VF/NT/NT Ex	N/A	06.6054.03	

2.3. RECOMMENDED ACCESSORIES

Description	Article No.		Picture
	Merck KGaA	MBV AG	
Quick change adapter for tripod	1.09223.0001	06.6055.02	
Tripod adapter (only for MAS-100 Eco)	1.09127.0001	02.2055.01	

3. OPERATION



3.1. USING THE TRIPOD

Description	Location
<p>Follow the safety instructions featured in the Safety Data Sheet of the tripod</p>	<p>Page 6 Chapter 1.1 (Of this document)</p>
<p>Opening the tripod legs. Unlock lever “A”, press foot bracket “B” down to the maximum and spread the legs “C” outwards. Lock the legs and foot bracket in place by screwing tight lever “A”.</p>	
<p>Place the tripod on horizontal, flat ground. The interface screw on the air samplers’ bottom plate allows two different screw sizes ($\frac{1}{4}$" or $\frac{3}{8}$""). Choose the bigger one and remove the smaller screw inserted (when you are not using the quick change adapter otherwise read chapter 3.2 first).</p>	
<p>Fasten the air sampler to the tripod, either directly by screwing in clockwise or using the quick change adapter.</p>	
<p>Use the three extensions to set the desired height. Start with the top extension, use the bottom extension last. Locking knobs “G” on the castings “H” are used to secure the columns in place. Push the column with a downward force to check the extension is securely locked once the height has been adjusted and knob “G” tightened.</p>	
<p>Note:</p> <p>For MAS-100® Eco: Instead of the quick change adapter the tripod adapter (02.2055.01) must be used. The adapter is mounted on the handle of the instrument and fixed with the screw on the tripod.</p>	


3.2. ASSAMBLING OF THE QUICK CHANGE ADAPTER

Description	Location
<p>The assembly of the Quick Change adapter system begins with the attachment of the adapter plate via screw nut with the bottom of the air sampler.</p> <p>The adapter plate is designed to remain permanently attached to the air sampler.</p> <p>No part of the bottom plate at the air sampler needs to be removed.</p>	
<p>Turn in the screw clockwise with a screwdriver or a coin on the bottom plate.</p> <p>Align the adapter plate such that the warranty seal is accessible.</p>	
<p>Screw the Quick Change adapter on the tripod socket clockwise.</p>	
<p>Ensure that the Quick Change adapter on the mounting stud is tightened.</p>	

3.3. ATTACH THE AIR SAMPLER ON THE QUICK CHANGE ADAPTER

Description	Location
<p>Press the safety lever up to release the lever. Push the lever to the right.</p>	
<p>Place the instrument on the tripod. Afterwards ensure that the instrument is mounted correctly.</p>	

3.4. DETACH THE AIR SAMPLER FROM THE QUICK CHANGE ADAPTER

Description	Location
<p>To remove the instrument from the tripod it is necessary to rotate the safety lever fully in the direction of the arrow after rotate the lever until the peg clicks, opens and releases the plate.</p> <p>Hold the lever and take the instrument off the tripod.</p>	

The mounted adapter plate can remain on the instrument, it fits in the hygiene inspection case.

We recommend to take off the Quick Change adapter from the tripod for transport. There is a dedicated storing space in the hygiene inspection case.

4. CARE AND MAINTENANCE

4.1. GENERAL

The accessory does not require specific maintenance.

The equipment does not require regular lubrication.

4.2. CLEANING AND DECONTAMINATION

Use a commercial product or a 70-90 % ethanol/water solution (or isopropanol/water).

Spray the solution directly on the tripods exterior, then wipe with a sterile towel or spray the towel, then wipe.

5. TECHNICAL SPECIFICATIONS

General	
Weight	6.61 lbs / 3 kg
Air Cushioned	yes
Mounting Options	1/4"-20 Male Thread 3/8"-16 Male Thread 5/8" Stud
Collapsed Height	42.1" / 107 cm
Finish	Black
Column Diameter	0.79" / 2 cm 0.98" / 2.5 cm 1.18" / 3 cm 1.38" / 3.5 cm
Footprint Diameter	41.73" / 106 cm
Leg Shape	Round
Number of Sections	4
Material	Aluminum
Minimum Working Height	48.8" / 124 cm
Maximum Working Height	12' / 366 cm
Load Capacity	19.8 lb / 9 kg



MBV AG
www.mbv.ch
Industriestrasse 9
CH-8712 Stäfa
Switzerland