

Flexible Arm Stand F 360

User Manual



To ensure proper use of this instrument as well as to avoid injury while operating instrument, understanding this manual completely before use is highly recommended.

Flexible Arm Stand User Manual

For purchasing a Labomed Flexible Arm Stand F 360 - an excellent choice! With outstanding features of sturdy design and absolutely maintenance-free performance. It is easily adaptable for all your requirements ensuring vibration-free observation due to its solid and flexible design. You may use it for different requirements like manufacturing tasks, testing, quality control and other industrial applications.

We have placed great emphasis on simple, intuitive operation. However, please take the time to read the user manual and the notes on operating safety to learn about all the features and capabilities to use them to your best advantage. Should you have any questions, please consult your local Labomed representative. We are glad to be at your service!

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1**IMPORTANT NOTES AND BRIEF DESCRIPTION**

This user manual provides important instructions for operational safety, maintenance and accessories.

Adhere to local regulations related to accident prevention and environmental protection.

Electrically operated accessories are compliant to EC Declaration of Conformity.

The Labomed Flexible Arm Stand serves as a flexible holder for the Labomed stereomicroscopes 6z and 6i UMS (Universal Mounting System) models.

The flexible arm stand must be placed on a solid vibration free substrate.

The flexible arm stand can be used in clean rooms without any problems.

2 SAFETY INSTRUCTIONS

Symbols used in this operating manual



This symbol indicates especially important information that is mandatory to read and observe.

Failure to comply can cause the following:

Hazards to personnel

Instrument malfunctions and damage



This symbol indicates especially important information that is mandatory to read and observe.

Failure to comply can cause the following:

Hazards to personnel

Instrument malfunctions and damage



This symbol indicates additional information or explanations that are intended to provide clarity.

Non-intended use



Using the flexible arm stand in any way other than that described in the user manual may result in personal injury or damage to property. Doing so can impair the functions of the protective measures provided.



The instruments and accessories described in this user manual have been tested for safety and potential hazards.



The responsible Labomed affiliate must be consulted whenever the flexible arm stand is modified or used in conjunction with non-Labomed components that are outside of the scope of this manual!



Unauthorized alterations or non compliant use shall void all rights to any warranty claims.

SAFETY INSTRUCTIONS (continued)

For use of the original packaging recommended for shipping or transporting individual modules.

In order to prevent damage follow instructions according to this user manual.

For disposal must comply with locally applicable laws and regulations.

If the flexible arm stand is used with non-Labomed products: The manufacturer of the complete system or the person putting it on the market is responsible for adhering to applicable safety regulations, laws and guidelines.



Use of Stereomicroscope helps in improving the viewing task, but it may also cause stress on eyes and posture holding muscles depending upon using chairs. To overcome this, appropriate measures related to work layout, training and working time duration must be taken.

Kindly follow notes on safety during use by referring microscope manual.

3 DIRECTIONS FOR USE

- Use of this flexible arm stand is used only by persons qualified to do so.
- Always ensure availability of this manual at work place.
- Carry out regular audits to ensure that trained and authorized users are following required safety procedures.
- For new users, explain thoroughly the meanings of the warning signs and messages.
- Allocate responsibilities for commissioning, operation and maintenance. compliance with this.
- Inform your Labomed representative immediately of any product defect that could potentially cause injury or harm.
- The use of accessories or cables other than those specified, with the exception of those sold by the manufacturer as replacement parts for the immunity of the equipment or system is not recommended.
- If this instrument is modified, appropriate inspection and testing must be conducted to ensure continued safe use of this instrument.
- Only original Labomed replacement parts may be used in servicing the product.
- Modifications to this instrument are not allowed. Any modification to this unit must be authorized by Labomed or serious injury to the operator may occur.

4 MAINTENANCE, CLEANING, ACCESSORIES AND REPAIR



The flexible arm stand is absolutely maintenance-free.

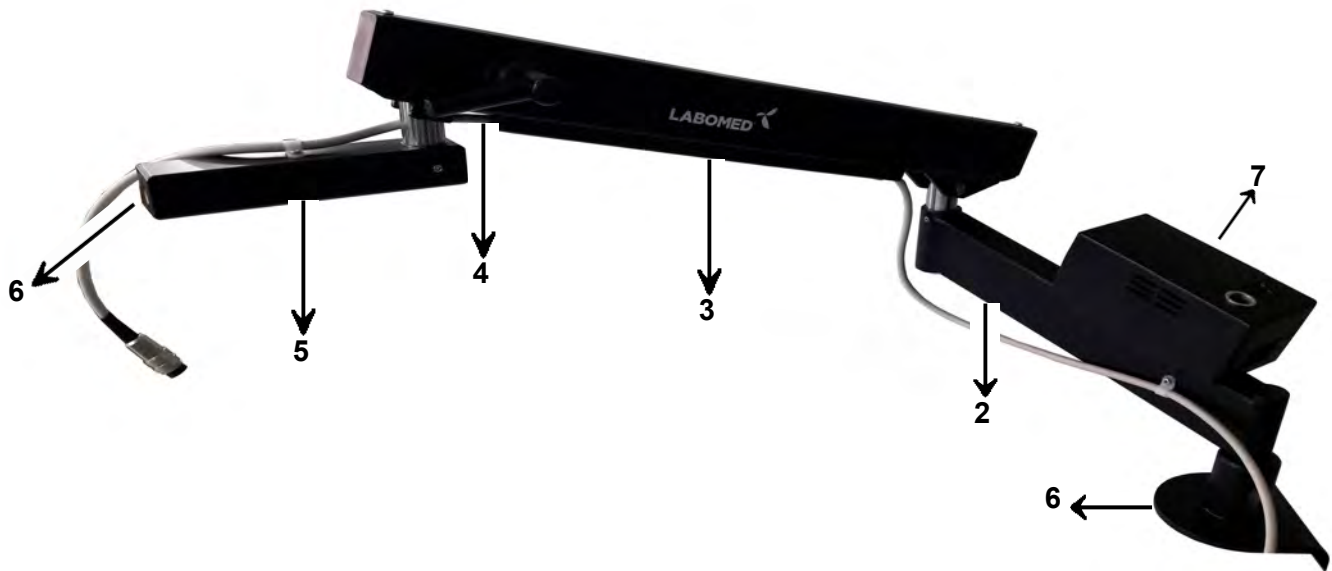
- For Maintenance and repair, only OEM spare parts may be used.
- Remove coarse debris with a moistened disposable cloth.
- Dirt can be removed using petroleum ether or alcohol.



Acetone, Xylene or nitro-containing thinners must not be used.

- Use only Labomed recommended accessories with this flexible arm stand.
- Use only original Labomed spare parts.
- Before any repair, the power must be shut off and the power cables disconnected.

5 OVERVIEW OF LABOMED FLEXIBLE ARM STAND F 360



1. Table clamp

- Tabletop thickness up to 100 mm
- Min. space required on table: 100×105 mm

2. Rotatable arm

- Can be rotated 360°
- Fixed at 15° angle to facilitate freedom of movement of specimen.

3. Flexible arm

- Can be rotated 360°
- Weight balance: 1.5 – 7 kg (factory setting 2.7 kg)
- 470 mm height adjustment
- Smooth guide adjustment

4. Fastening lever for height adjustment

5. Horizontal Arm

6. Connection to the focusing arm

- Allows connection of focusing arms with standard pin diameter of of 16 mm.

7. Power Supply

- Output - 24 Volts
- Input - 100 - 240 V Universal Power Supply

6 ASSEMBLY AND USE

Table clamp

Instructions for safe assembly



The table clamp is designed for tabletops with a thickness of up to 100 mm.



Before installation, ensure that the selected tabletop is strong enough to carry the weight. Otherwise the microscope may not function properly or user may get injured and damage to microscope specimen may happen.

Assembling the Table Clamp

1. Push the table clamp over the tabletop completely.
2. Tighten the two clamping screws shown as **(a)** referring Fig. 1.
3. Insert the flexible arm into the table clamp.
4. Tighten the clamping knob shown as **(c)** referring Fig. 2.

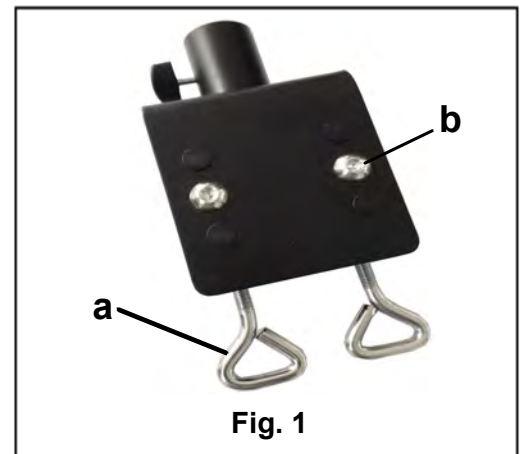


Fig. 1

Adjusting the Table Clamp

Table clamp has 6 holes (4 are covered with a hole plug) to adjust according to table thickness. If the table clamp does not fit the thickness of the tabletop, you can adjust it by unscrewing the two screws shown as **(b)** and move the loose part of the clamp as required and refix the hole plug referring Fig. 1.

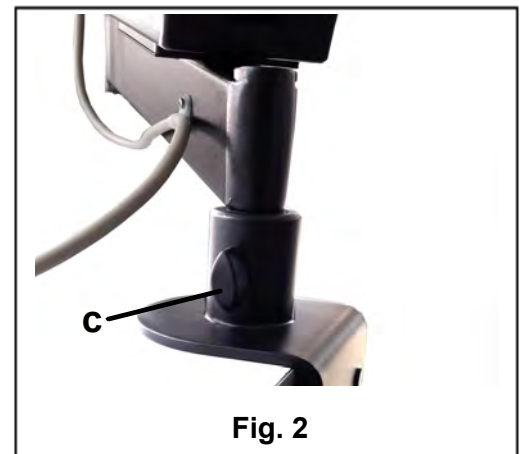




Fig. 2

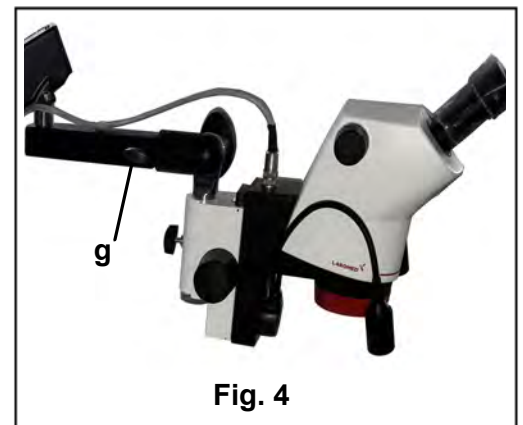
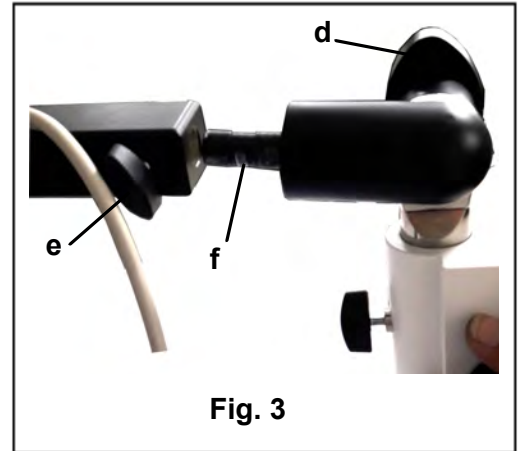
ASSEMBLY AND USE (continued)**Flexible Arm Stand and Focusing Arm****Load capacity**

 This flexible arm stand is designed for a load capacity of ranging 1.5–7 kg to keep the stereomicroscope in balance without tightening the fastening lever.

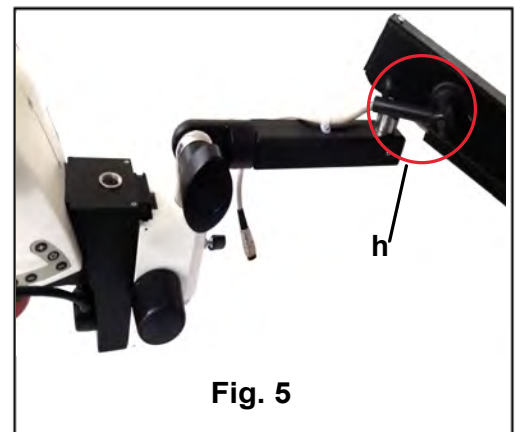
 You can lock the working height if necessary by tightening the fastening lever.

Assembly

1. Unscrew clamping knob (e) on the horizontal arm.
2. Loosen the knob (d) of UMS and tilt the connecting pin (f) in 90° as shown as Fig. 3.
3. Push in the connecting pin (f) completely and clamp the knob (e) as shown in Fig. 4.

**Working Height Adjustment**

1. Move the flexible arm to the desired height according to the object under inspection.
2. Tighten the fastening lever (**h**) if necessary to protect the stereomicroscope from unwanted height adjustment as shown in Fig. 5.




7 SPRING TENSION ADJUSTMENT

Tool Requirement

- 13 millimeter socket wrench
(not included in the delivery package)

Factory settings

 The spring force for the flexible arm is factory set to approx. 2.7 kg and can be adjusted by turning screw clockwise referring Fig. 8.

Adjusting the spring force

1. Remove the socket screw **(a)** above the cover by using allen wrench 2.5mm as shown in Fig. 6.
2. Remove the cover.
3. Unscrew the fastening lever shown as **(b)** in Fig. 7.
4. Change the spring force using the screw in the interior as shown in Fig.8.

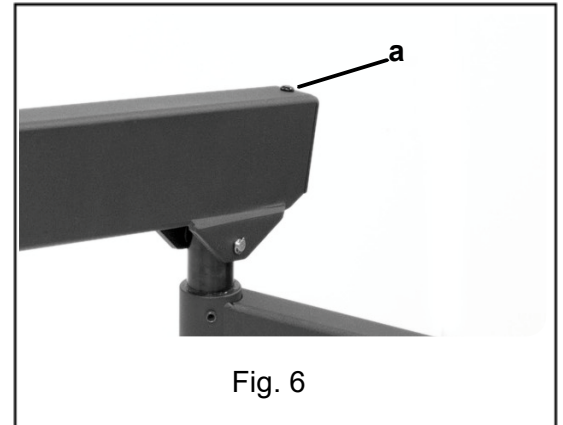


Fig. 6

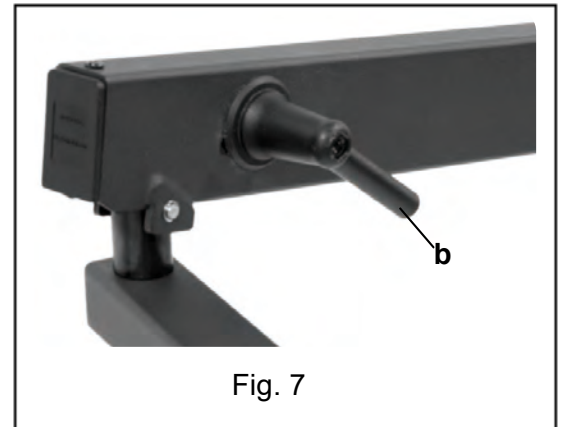


Fig. 7

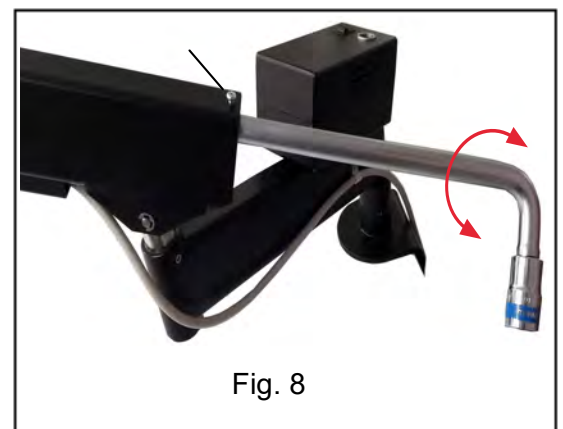
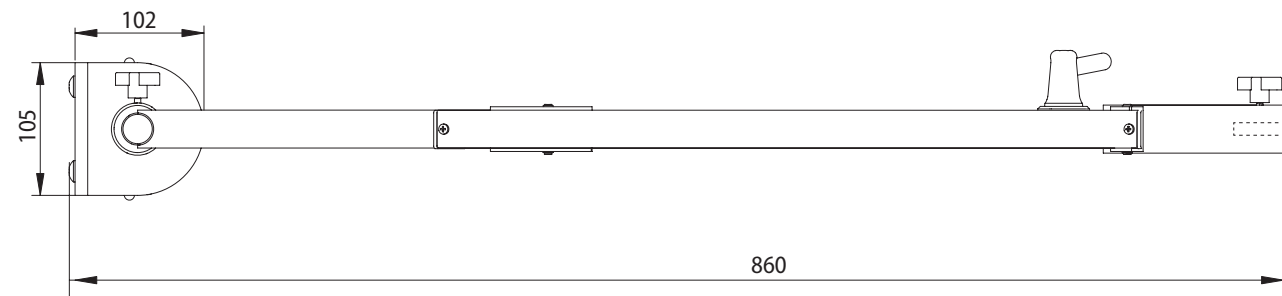
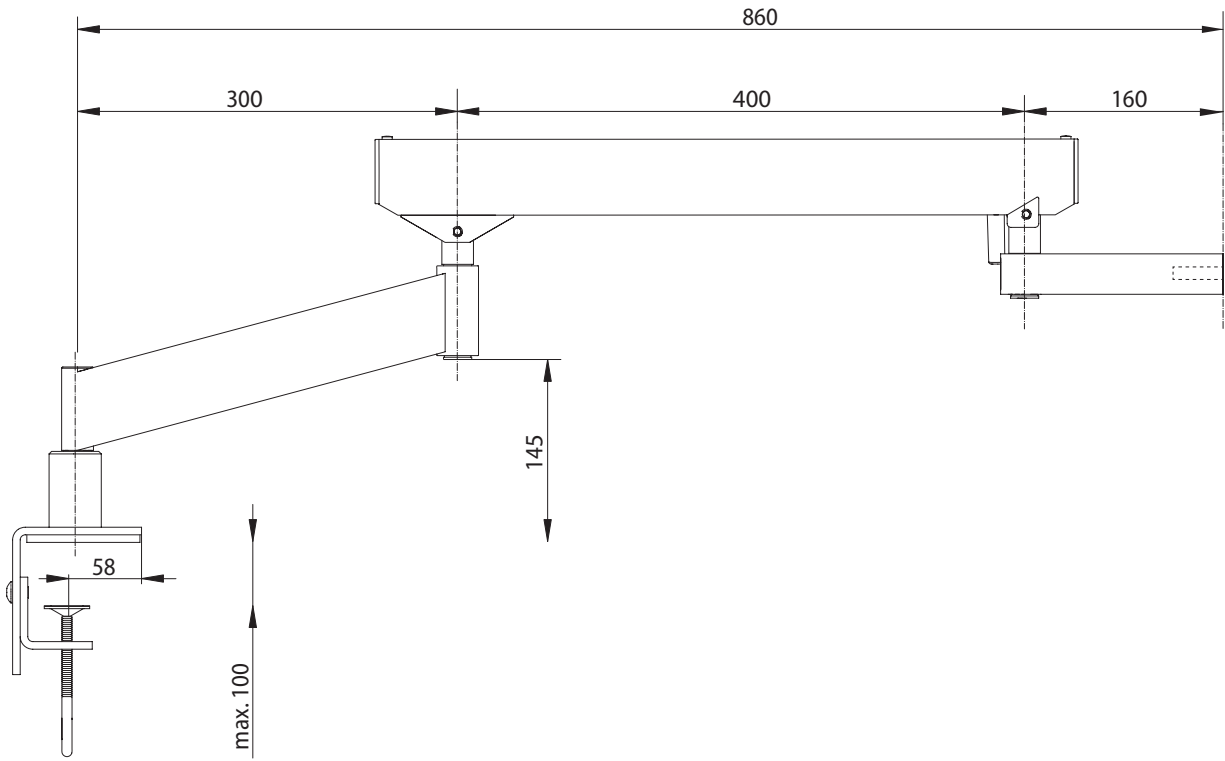


Fig. 8

DIMENSIONS





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Labo America Inc.
920 Auburn Court
Fremont, CA 94538

U.S.A.
Telephone: 510 445 1257
Fax: 510 445 1317
sales@laboamerica.com



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