



# Leica Flex Arm Stand Manual

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# Safety Instructions

# Symbols used in this operating manual

## Warning! Safety hazard!



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

## Warning of hazardous electrical voltage



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

## Important information



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

# Important Notes

## User Manual

This user manual includes important instructions related to operating safety, maintenance and accessories.



A User Manual CD-ROM for your Leica Flex Arm stand is included in the delivery of your Leica stereomicroscope. Keep it in a safe place, and readily accessible to the user. You can also download user manuals and updates from our website at [www.leica-microsystems.com](http://www.leica-microsystems.com)

## Legal regulations

Adhere to general and local regulations relating to accident prevention and environmental protection.

## EC Declaration of Conformity

Electrically operated accessories are constructed based on the state of the art of technology and are provided with an EC Declaration of Conformity.

## Intended use

The Leica Flex Arm Stand serves as a flexible holder for the Leica stereomicroscopes.

The flex arm stand must be placed on a solid substrate.

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



Always position the flex arm stand so that you can disconnect the stereomicroscope from the power supply at any time. The power cable of the stereomicroscope must remain accessible at all times, because it is intended as a power disconnect device.

## Instructions on use

### Place of use

The flex arm stand can be used in any location that is also suitable for the stereomicroscope. Observe the instructions in this regard included in the stereomicroscope manual.

### Non-intended use



Using the flex 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 Leica affiliate must be consulted whenever the flex arm stand is modified or used in conjunction with non-Leica components that are outside of the scope of this manual!



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

## Instructions on use (continued)

### Transport

If at all possible, use the original packaging for shipping or transporting individual modules.

In order to prevent damage from the swinging flex arm stand, the customer should disassemble all moving parts according to the user manual and pack them separately.

### Disposal

Disposal must comply with locally applicable laws and regulations.

### Use with third-party products

The following must be observed if the flex arm stand is used with non-Leica Microsystems 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.

# Health risks and dangers of use

## Health risks



Workplaces with stereomicroscopes facilitate and improve the viewing task, but they also impose high demands on the eyes and holding muscles of the user. Depending on the duration of uninterrupted work at such a workplace, impaired vision and problems with the musculoskeletal system may occur. For this reason, appropriate measures for reduction of the workload must be taken:

- Optimum workplace layout
- Frequent changes of activity
- Thorough training of the personnel, giving consideration to ergonomic and organizational aspects

## Dangers during use

- Please observe the notes on dangers during use included in the manual for your stereomicroscope.



## Directions for the person responsible for the instrument

### Directions for the person responsible for the instrument

- Ensure that the flex arm stand is used only by persons qualified to do so.
- Ensure that this manual is always available at the place where the flex arm stand is in use.
- Carry out regular inspections to make certain that the authorized users are adhering to safety requirements.
- When instructing new users, do so thoroughly and explain the meanings of the warning signs and messages.
- Allocate responsibilities for commissioning, operation and maintenance. Monitor compliance with this.
- Inform your Leica representative or Leica Microsystems (Schweiz) AG, Industry Division, 9435 Heerbrugg, Switzerland, immediately of any product defect that could potentially cause injury or harm.
- If you use accessories from other manufacturers with the stereomicroscope, make sure that these manufacturers confirm that the combination is safe to use. Follow the instructions in the user manual for those accessories.
- Modifications to or service on the flex arm stand may be carried out only by technicians who are explicitly authorized by Leica to do so.
- Only original Leica replacement parts may be used in servicing the product.
- If the flex arm stand is modified by unauthorized personnel, if the equipment is improperly maintained or if the instrument has been operated improperly, Leica disclaims all liability.

# Maintenance and cleaning, accessories, repair

## Maintenance and Cleaning



The flex 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.
- Clinging dirt can be removed using petroleum ether or alcohol.



Acetone, xylene or nitro-containing thinners must NOT be used.

## Accessories

Only the following accessories may be used with the flex arm stand:

- The Leica accessories described in this user manual.
- Other accessories, provided that these have been expressly approved by Leica Microsystems as being technically safe in this context.

## Repairs and service work

- Only original Leica Microsystems spare parts may be used.
- Before any repair, the power must be shut off for all instruments and the power cables have to be disconnected.

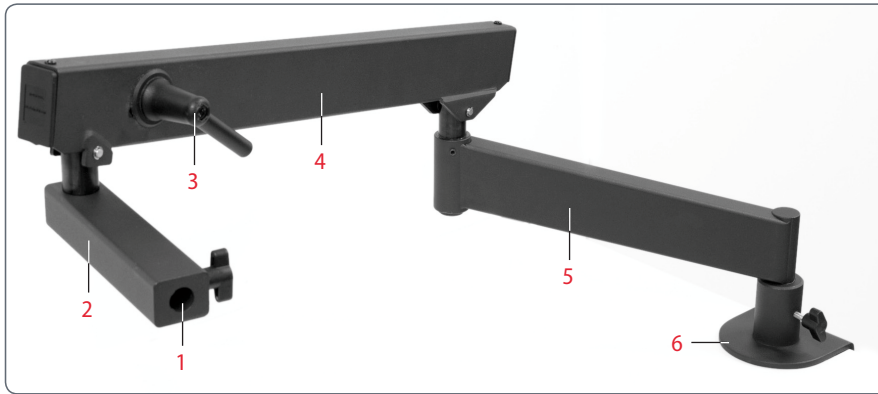
# The Leica Flex Arm Stand

## Congratulations!

You have just purchased a Leica Flex Arm Stand - an excellent choice! Its outstanding features are its sturdy design and absolutely maintenance-free performance. The flex arm stand is equally solid and flexible; therefore, it can adapt easily to your requirements while still ensuring vibration-free observation for manufacturing tasks, materials testing, quality control and other industrial applications.

We have placed great emphasis on simple, self-explanatory 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 so that you can use them to their best advantage. Should you have any questions, please consult your local Leica representative. We are gladly at your service!

## An Overview of the Leica Flex Arm Stand



### 1 Connection to the focusing arm

- Allows connection of focusing arms with standard pin diameter of 15.8 mm (5/8")

### 2 Horizontal arm

### 3 Fastening lever for height adjustment

### 4 Flexible arm

- Can be rotated 360°
- Weight balance: 1.5 – 7 kg (factory setting 2.6 kg)
- 470 mm height adjustment
- Easy-glide adjustment

### 5 Rotatable arm

- Can be rotated 360°
- Fixed, angled by 15° to improve freedom of movement of the specimen


### 6 Table clamp


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

# 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 assembly, ensure that the selected tabletop can carry the weight. Otherwise persons can be injured and the stereomicroscope and the specimen can be damaged.

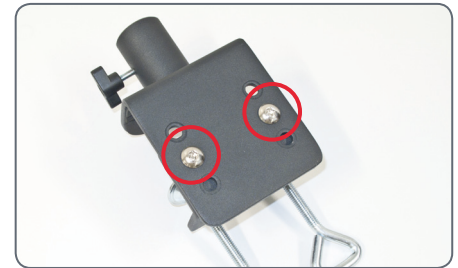
## Assembling the Table Clamp

1. Push the table clamp over the tabletop as far as it will go.
2. Tighten the two screws.
3. Insert the flex arm into the table clamp.



## Adjusting the Table Clamp

If the table clamp does not fit the thickness of the tabletop, it can be adjusted. To do so, unscrew the two screws and move the loose part of the clamp upwards or downwards.



# Flex Arm Stand and Focusing Arm

## Load capacity



The flex arm stand can be adjusted in the range of 1.5–7 kg so that it can keep the stereomicroscope in balance – without the need to tighten the fastening lever to do so.



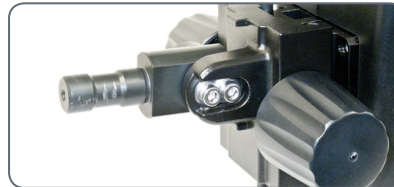
You can lock the working height if necessary by tightening the fastening lever.

## Assembly

1. Unscrew both clamping screws on the connecting pin.



2. Tilt the connecting pin backwards by 90°.



3. Retighten both Allen screws on the connecting pin of the focusing arm. This also locks the tilt.



4. Insert the connecting pins from the front into the bore of the horizontal arm.

5. Tighten the side clamping screw on the horizontal arm.

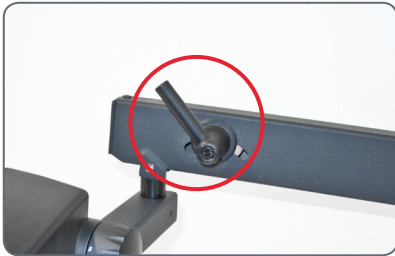




# Adjusting the Working Height

## Adjusting the working height

1. Move the flex arm to the desired height.
2. Tighten the fastening lever if necessary to protect the stereomicroscope from accidental height adjustment.



# Adjusting the Spring Force

## Required tools

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

## Factory settings



The spring force for the flex arm is factory-set to approx. 2.6 kg and can be changed by turning the screw.

## Adjusting the spring force

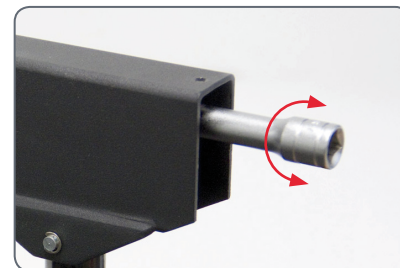
1. Remove the screw above the cover.
2. Remove the cover.



3. Unscrew the fastening lever.

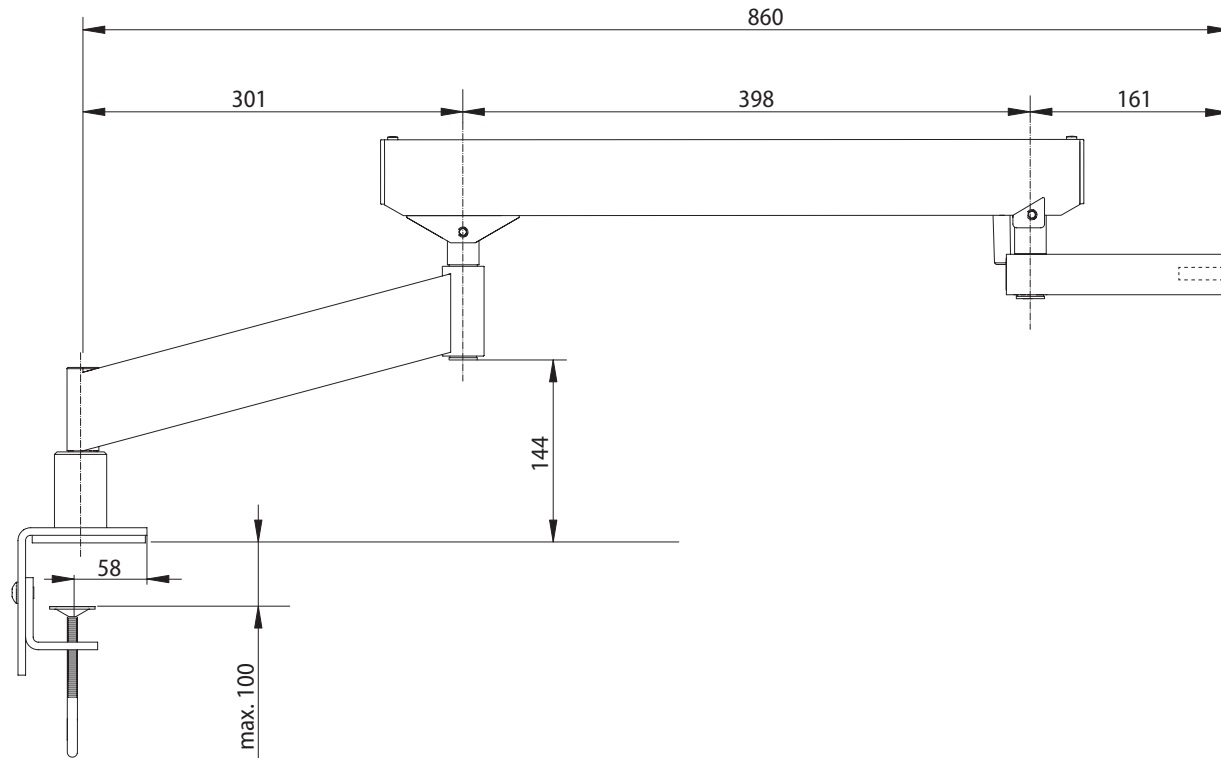


4. Change the spring force using the screw in the interior.



# Dimensions

# Dimensions



## Dimensions

