



Product Guide for Stereomicroscopes

Living up to Life

Leica
MICROSYSTEMS

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Introduction

I. Information



At Leica, we take pride in our product line and of the modularity of our products. We have continued to strengthen our product offering by adding the right items to meet the needs and demands of the market. While we would like to make a single product that meets all needs, there are some applications that need special attention. Thus the reason for this Special Offering Guide.

The purpose of this guide is to present you with some of our existing special solutions that may offer you a solution for a special need. In addition, this guide may provide you with some ideas of how our products can be used in unique applications.

This guide is divided into five main sections:

- **Adapters** – presents many of those hard to find adapters that can help you match up an older system to a new system.
- **Accessories** – presents many extra items that complete a system such as; stages, objective sliders, extension tubes, etc.
- **System Solutions** – shows you some common systems solutions such as floor stands, video inspection or repro stands
- **OEM Solutions** – For special situations, Leica can also work with OEM applications. This is done on a case by case basis. Contact your local Leica Representative for more information.
- **Reference** – this section is a collection of miscellaneous information that you might find useful for your application.

We have tried to provide you this information in a complete catalogue; however as we are often adding new item or replacing items, the content and availability of the products in this document can change. Therefore the items presented in this catalogue are not guaranteed to be available for order. If there are changes, we will do our best to keep this document updated of such updates.

Enjoy the catalogue and should you have questions, please contact your local Leica Representative for details.

II. Tips for using this catalogue

1. Get the latest version of Acrobat Reader

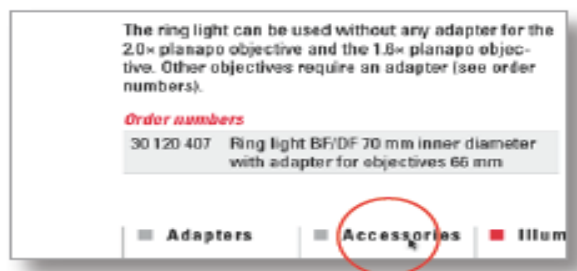
Every version of Acrobat Reader has more features and sometime the updates provide a better screen rendering, which optimizes the display of text and graphics.

Click [here](#) to get latest version of the free Acrobat Reader.

Use the table below to find the mounting thread of the microscope you are using. The table to the right is a good reference for nearly all objectives that we recently had or have in our program.

2. Use hyperlinks for navigation

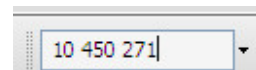
The chapter titles at the bottom of the screen are hyperlinks, as are the page numbers in the Table of Contents. This is the fastest way to jump to a specific product page.



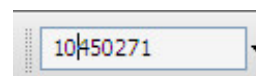
3. Use Acrobat's search function

If you already know an article number, you can use it in conjunction with the Acrobat «Find» function. Choose "Edit ► Find", type in the article number and hit «Return».

Important: you also need to include any spaces - otherwise Acrobat won't be able to find a match.



Wrong



Right

III. Need our Support?

- Check the User Manual, the Technical Guide or the Brochures.
- Check the on-line resources at our Industry Division Business Web. There you can browse the Spectrum or our ID FAQ.
- If you did not find what you were looking for then, review the relevant hot-lines on this page and select the one most relevant to get a faster response

Industry Division Products (Hardware related)

For SMS Products – Stereo / Macro Microscopes (non-Fluorescence)

Contact ***SMS.Hotline@leica-microsystems.com***

Industry Division Products (Software related)

For Leica Cameras and Software – (LAS, IM, Qwin)

Contact ***DI.Support@leica-microsystems.com***

License Registration:

LAS Module Registration / License Files

Contact ***LASConfcent@leica-microsystems.com***

IM1000 Registration / License Files

Contact ***IM1000confcent@leica-microsystems.com***

1. Non Group Adapters

Content

- 1.1 Objective Adapters
- 1.2 Universal carrier 80 mm to 120 mm
- 1.3 Older TL Bases
- 1.4 Adapter for M3
- 1.5 Illumination holding arms

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

1.1 Objective Adapters

Information

Many of our customers have older microscopes that still work great for their needs. However, over time, objectives may be damaged or scratched over the years and are indeed of replacement. Or, perhaps one may simply just like to upgrade to the improved optics of our current offering.

To do this of course, will in most cases, require an adapter to mount the objective. This section presents several tables with the information you need to find out which adapter you need to mount another objective.

Usage/Tips

1. Look up the connecting thread of the objective you are using in the yellow column in the table to the right. If you do not know the connecting thread of the objective, see the reference table on the following page.
2. Look up the connecting thread of the Microscope in the green section.
3. Find at the intersection of this columns the adapter(s), if any, that you need. Please note the special cases (MZ7.5, MZ9.5, MZ12.5).

Adapter Article Numbers

- 10445771 M50 Microscope to M50 obj.
- 10446172 M50 Microscope to M65 obj.
- 10446300 M50 Microscope to M50 obj.
- 10446393 M65 Microscope to M50 obj.
- 10450243 M60 Microscope to M65 obj.
- 10450244 M50 Microscope to M60 obj.
- 10450296 M60 Microscope to M65 obj.
- 10450308 M60 Microscope to M50 obj.
- 10450332 M50 Microscope to M42 obj.
- 10450551 M50 Microscope to M60 obj.
- 10450552 M65 Microscope to M60 obj.

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

Objective Thread Cross Reference Tables

Normal	Objective Thread		
Microscope Thread	M50	M60	M65
M50	-	10450551	1x 10450551 1x 10450243
M60	10450308	-	10450243
M65	10446393	10450552	-

Special Cases	Objective Thread		
Microscope	M50	M60	M65
Z-Series	10450332 10450308	10450332	-
MZ7.5/MZ8	-	10450551	2x 10450551 1x 10450308 1x 10450243
MZ9.5	10446393	10450552	-
MZ12.5	10446393	10450552	-
MZ10F/MZ FLIII	No Adapter Will not fit	10450552	-

Note: Not all items are available, some items may have been discontinued.
This information is presented for reference only.

1.1 Objective Adapters

Information

Use the table below to determine the mounting thread of the microscope you are using. The table to the right is a good reference for most of our objectives that we had or currently still have in our program

Microscope	Carrier Thread
M125	M65
M165C	M65
M165FC	M65
M205A	M65
M205C	M65
M205FA	M65
M50	M60
M60	M60
M80	M60
MS5	M50
MZ10F/MZ FLIII	M65
MZ10F	M65
MZ12.5	M65
MZ16	M65
M3B/C/Z	M50
MZ6	M50
MZ7.5/MZ8	M50
MZ9.5	M65
Z-Series	M42

Part Number	Objective	Objective Thread
10382162	Achromatic F=200	M65
10382168	Achromatic F=300	M65
10382172	Achromatic F=400	M65
10407743	Achromatic F=250	M65
10411589	Achromat 1.0X	M50
10411597	Achromatic F=100	M65
10422562	Achromat 1.5x	M50
10422563	Achromat 0.5x	M50
10422564	Achromat 0.32x	M50
10431692	Achromatic F=175	M65
10431693	Achromatic F=350	M65
10441787	Achromatic F=150	M65
10445199	Manual F=250	M65
10445201	Achromat 0.63x	M50
10445360	Manual F=300	M65
10445819	Plan 1.0x	M65
10446157	Plan 0.5x	M65
10446230	PlanApo 1.0x	M65
10446236	PlanApo 0.63x	M65
10446275	Plan 1.0x	M50
10447050	PlanApo 1.6x	M65
10447051	PlanApo 0.63x	M65
10447075	Plan 0.8x	M65
10447081	Achromat 2.0x	M50
10447148	ErgoLens	M50
10450027	PlanApo 0.63x M Series	M65
10450028	PlanApo 1.0x M Series	M65
10450029	PlanApo 1.6x M Series	M65
10450030	PlanApo 2.0x M Series	M65
10450159	Achromat 1.0x	M60
10450160	Achromat 0.63x	M60
10450161	Achromat 0.80x	M60
10450162	Achromat 1.25x	M60
10450163	Achromat 1.6x	M60
10450164	Achromat 2.0x	M60
10450165	Plan 0.8x	M60
10450166	Plan 1.6x	M60
10450167	Plan 1.0x	M60
10450191	Achromat 0.32x	M60
10450192	Achromat 0.50x	M60
10473832	Achromat 0.8x	M50

Note: Not all items are available, some items may have been discontinued.
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1.2 Universal carrier 80 mm to 120 mm

Information

Older stereomicroscopes were based on stage accessories with 80 mm diameter (interface). Incident and transmitted light bases had 80 mm inner diameter for the stage plate or additional accessories. Leica's new accessories have 120 mm diameter and cannot be used directly with older stereomicroscopes. This adapter will let you use our 120 mm accessories on an 80 mm interface.

Applications

The universal carrier allows the attachment of several stages like gliding stages, cup stages etc. with a mounting diameter of 120 mm. The carrier fits to older incident-light bases with an inner diameter of 80 mm (some Wild microscope bases are a good example).

Usage/Tips

The adapter ring can be used with the gliding stage (10446301), cup stage (10446303), polarization glass plate (10446228) and the polarization stage (10446302).

Please note that the ring cannot be used together with our old dark field base, because the light angle of the dark field illumination is too flat and will not reach the specimen level.

Article Number

- 35000137 Universal Carrier 80 mm to 120 mm



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1.3 Older TL Bases

Information

We often have customers who would like to retrofit their stereomicroscopes with our new transmitted light bases.

The following adapters offer one the possibility to fit stereomicroscopes with 25 mm columns or our older trapezoid column of the M3-/M10-series to our current transmitted light bases TL3000 ST, TL4000 BF/DF, TL4000 RC and TL4000 RCI.

Applications

This may offer a solution to those customers who have found a good use for their working older microscope and are simply looking for a new base.

Usage/Tips

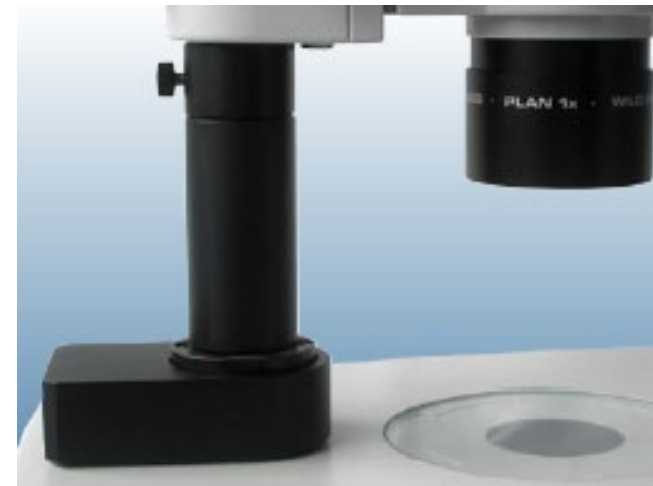
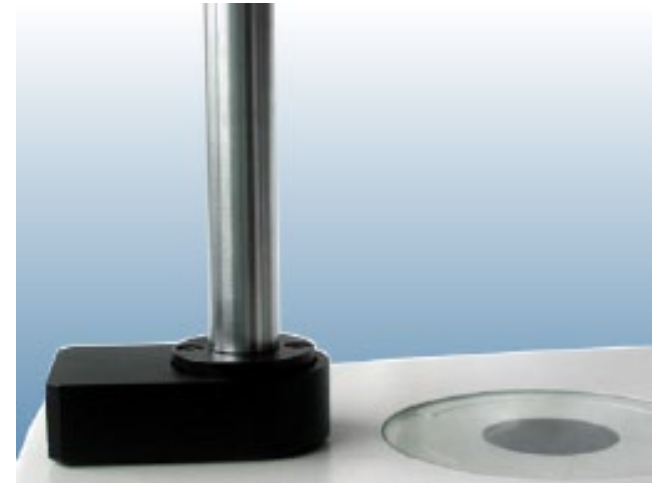
In case that a customer will retrofit an older stereomicroscope with the old transmitted light bases 10445363, 10445367, 10445387 or 10446359 the following adapters are available:

- 10447121 Adapter for 25 mm column (M7, M7A, M8, M400, M410)
- 10445659 Adapter for trapezoid column (M3B/C/Z, M10)

Article Number

- 10447473 Adapter for 25 mm column (M7, M7A, M8, M400, M410)
- 10447474 Adapter for trapezoid column (M3B/C/Z, M10)

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1.4 Adapter for M3

Information

The Wild M3B, M3C and M3Z stereomicroscope was a popular model and many of our customers are still using these instruments. Many would like to update the M3 stereomicroscope with new stands, but the M3 bodies do not have an objective thread as did the M55 or MZ6.

This adapter enables one to mount the M3 stereomicroscopes directly to our current microscope carriers with 76 mm inner diameter interface.

Applications

The adapter is suitable for all Leica microscope carriers with 76 mm inner diameter and can be used for the M3 stereomicroscopes together with the discussion bridge.

Usage/Tips

The adapter provides a M50 connection for use with the older achromatic objectives. For use with the objectives used with the M50, M60 and M80 and additional adapter is needed.

Article Number

- 10446232 Adapter M3/Microscope carrier
- 10450551 Adapter for M50 Thread to M60 Thread



Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

1.5 Illumination holding arms

Information

The microscope carriers from the Leica S-Series, MZ-Series and the routine new M-Series have M5 threads for mounting accessories such as goosenecks or articulating arms. However many of our accessories have M6 threads and will not fit directly to the microscope carrier.

The following adapters are available offer a solution so you can mount additional lamp holders, articulated arms etc.

Applications

Useful in most routine and high-end applications where it is necessary to mount the light source directly to the microscope carrier or focus arm

Usage/Tips

Please keep in mind the distance from the column to the work area when column clamps or the universal light guide clamp.

Article Number

- 35000214 Adapter M5 thread with M6 threaded hole
- 30157104 Adapter M8 thread with M6 threaded hole
- 10446421 Adapter for lampholder with M5 thread
- 30157103 Fiber light guide holder
- 10450265 Articulating arm M5 and M6 threads
- 30143005 Adapter for combination light guide angled
- 10450570 Universal light guide holder for routine M-Series
- 10450205 Universal light guide holder for high-end M-Series



35000214



30157104



10446421



30157103



10450265



30143005

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

1.5 Illumination holding arms

Article Number

- 35000214 Adapter M5 thread with M6 threaded hole
- 30157104 Adapter M8 thread with M6 threaded hole
- 10446421 Adapter for lampholder with M5 thread
- 30157103 Fiber light guide holder
- 10450265 Articulating arm M5 and M6 threads
- 30143005 Adapter for combination light guide angled
- 10450570 Universal light guide holder for routine M-Series
- 10450205 Universal light guide holder for high-end M-Series
- 30221015 Adapter for combination light guide 25-35 mm



10450570



10450205



30221015

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

2. Accessories

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- 2.1 Universal protection glass
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- 2.3 Large Gliding Stages
- 2.4 Mountable XL Gliding Stage
- 2.5 Industrial Measurement Stages
- 2.6 Cup Stages
- 2.7 Articulating arms / Jointed Couplers
- 2.8 Light Guide Mounting Adapters
- 2.9 Illumination Mounts for Bases
- 2.10 Illumination Mounts for Boom Stand
- 2.11 Extension for MAT S Heating Stage
- 2.12 Duel Port Coupler

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

2.1 Universal protection glass

Information

Leica microscopes are used in many different working environments, some clean, some are very dirty. To help protect your investment in those “dirty” areas, we offer a protection glass holder for all objectives with 58 mm and 66 mm external diameter.

We currently offer two versions, one is specific for our 58 mm diameter objectives and one can be used on a 58 mm or a 66 mm objective. Depending on your needs, you can choose the right protection glass to meet your requirements.

Application

The protection glass is well suited for harsh or dirty environments such as soldering or grinding where air borne particles can damage the objective coatings.

Usage/Tips

- Protection glass holders for the 58/66 mm glass can accommodate 66 mm diameter accessories such as ring lights.
- The 58/66 mm version also has two M5 threaded holes to mount accessories such as articulating arms or jointed couplers.
- Protection glass holders for the 58 mm glass do not allow the use of ring lights as there is not an interface to mount them.

Article Numbers

- 35000031 Universal protection glass holder 58 mm
- 35000033 Protection glass 58mm (5 pieces)
- 35000032 Universal protection glass holder 58/66 mm
- 35000034 Protection glass 66mm (5 pieces)

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.



35000034



35000035

2.2 Extension for M- and MZ-Series

Information

This extension tube allows the user to ergonomically view your specimen through a Leica Stereo Microscope. (Routine M-Series or MZ-Series).

Large elements can be viewed without strain from a sitting position.

Application

These are well suited for working in containment hoods.

Usage/Tips

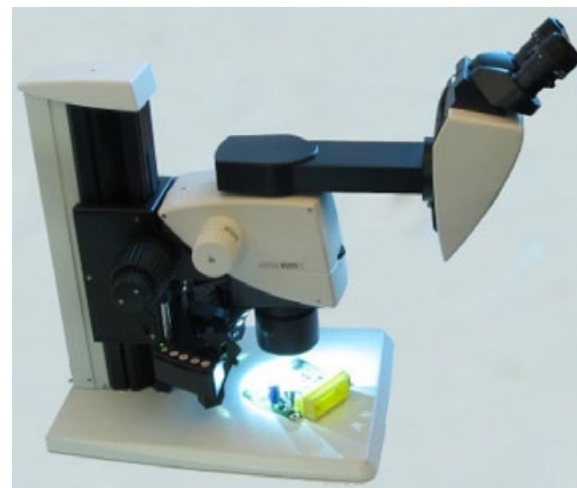
Please note that the magnification factors are different for each extension tube.

Trinocular tubes are not recommended.

Other accessories like coaxial illuminator or ID80 HD camera must be mounted directly to the microscope and below the extension tube.

Article Numbers

- 120 mm Extension (mag 1.5x) 35000037
- 220 mm Extension (mag 1.0x) 35000038



Mounted with on our M125, the extension can increase the user comfort by bringing the binoc closer to the user



Bottom and side view of the extension tube for Leica M-Series microscopes. Actual product may be slightly different than shown.

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

2.3 Large Gliding Stages

Information

For smooth control of large flat specimens, (e.g. electronic boards) Leica offers several gliding stages. These stages enable the user to have precise positioning and allow for reproducible inspection workflow that can increase the effectiveness of your operation.

Features

- Compact x/y gliding stage
- Rubber feet for stable positioning on any surface
- Fixable in both directions with locking screw
- Solid construction and smooth running

Height

- Gliding stage 100 × 100 mm 58 mm
- Gliding stage 200 × 200 mm 91 mm
- Gliding stage 300 × 150 mm 96 mm
- Gliding stage 400 × 250 mm 96 mm

Application

For inspection of large samples such as PC boards, paper documents, geological samples and other large specimen types.

Usage/Tips

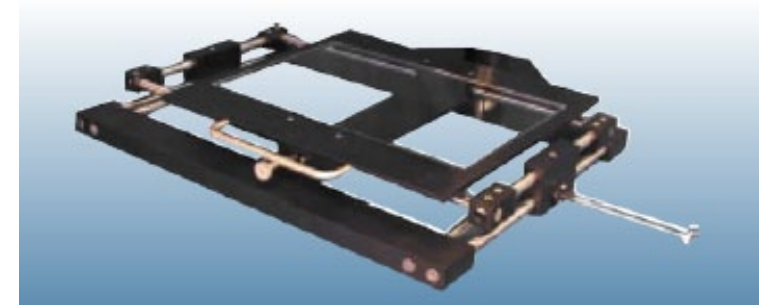
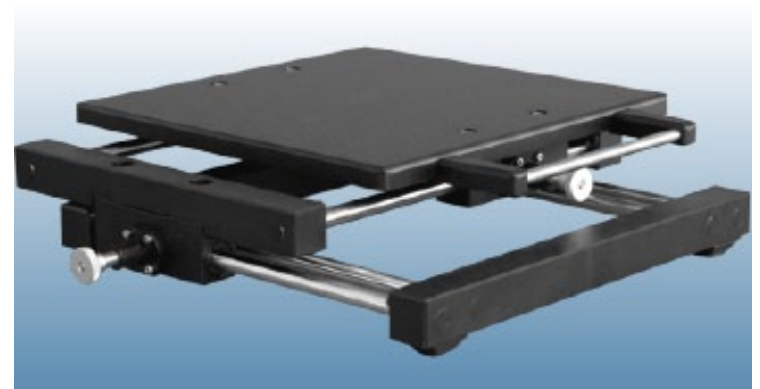
The gliding stage is clampable in both directions.

The largest two gliding stages are independent from the microscope base and therefore, can be used as stand alone or with a large boom stand as well.

Article Numbers

- 33000591 Gliding Stage clampable – Travel Range 100 × 100 mm
- 33000592 Gliding Stage clampable – Travel Range 200 × 200 mm
- 33000593 Gliding Stage clampable – Travel Range 300 × 150 mm
- 33000594 Gliding Stage clampable – Travel Range 400 × 250 mm

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.



2.4 Mountable XL Gliding Stage

Information

For the control of large flat specimen, (e.g. electronic boards) we advice the use a gliding stage. A precise positioning and reproducible inspection workflow increases the effectiveness of operations.

Features

- Fine adjustment (1.5mm/1 rev)
- Free movement (press release bar)
- ESD mat (2 mm gray, 107 Ohm (point to point) EN 61340-2-3)
- Fixable in both directions with locking screw
- Mounts to Universal Base , XL
- Solid construction and smooth running
- 300 mm x 300 mm travel range
- Dimensions: 400 mm x 455 mm

Applications

- Inspection of large PCBs. i.e. PCBs with layout before cutting
- Inspection of complete wafers up to 12" size

Usage/Tips

The gliding stage is clampable in both directions.

The gliding stage is independent from any microscope base and can be used with a large boom stand as well.

Article Number

- 33000595 Gliding Stage 300 × 300 mm
- 10450260 Universal Base, XL
- 1450 XXX Leica motorized focus column - long

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.



Large XL base, gliding stage , motor focus, SmartTouch combined with a M205 makes for a perfect inspection system.

2.5 Industrial Measurement Stages

Information

These pre-configured sets include all you need to mount a XY-measurement table directly on a Leica base. They can be equipped with standard mechanical micrometer screws or highly sophisticated digital micrometer screws. The traveling ranges are 25 × 25 or 50 × 50 mm.

These stages come with a glass plate so that they can be also used in transmitted light applications as well as incident light.

- Cover plate 135 × 135 mm
- Stage height 35 mm
- Maximum load 10 kg
- Measurement range 25 mm
- Resolution with analogue micrometer spindles 0.01 mm
- Resolution with digital micrometer spindles 0.001 mm

Applications

These stages are suitable where precise XY measurements under microscopes are required

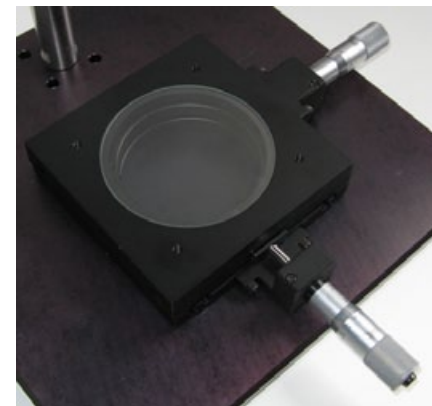
Usage/Tips

- The MT stages can be equipped with standard mechanical micrometer screws or high sophisticated digital micrometer screws. The traveling range is 25 × 25 or 50 × 50 mm
- The use of crosshair reticules is strongly recommended for better orientation and proper measurements.

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.



25 mm × 25 mm analogue measurement stage



The measurement tables are shipped with the Leica 120 mm interface for fast installation on our bases.

2.5 Industrial Measurement Stages

Article Numbers

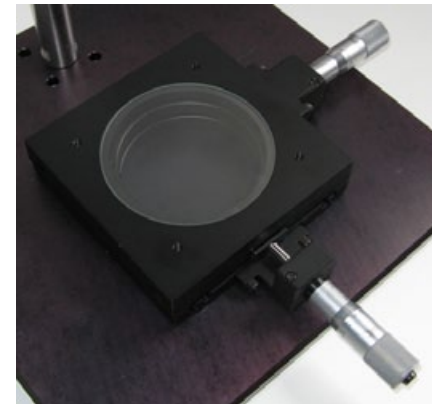
- 35000235 Measuring Table MT25×25 mm Analog, with Glass Plate
- 35000236 Measuring Table MT25×25 mm Digital, with Glass Plate
- 35000237 Measuring Table MT50×50 mm Analog, with Glass Plate
- 35000238 Spare glass plate for MT25/50
- 35000239 Metal insertion plate for MT25/50, Aluminum
- 35000240 Metal insertion plate for MT25/50, Magnetic

Note: Measuring Stage 50×50 mm Digital, Glass Plate - Special Orders Only –

Contact: SMS.Hotline@leica-microsystems.com



25 mm × 25 mm analogue measurement stage



The measurement tables are shipped with the Leica 120 mm interface for fast installation on our bases.

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

2.6 Cup Stages

Information

Cup stages are used whenever a sample needs to be tilted for inspection from the side. Leica has two cup stages in our program, one has a working diameter of 150 mm and the other (a magnetic cup stage) has a working diameter of 60 mm.

The 150 mm cup stage allows the user to rotate the stage surface without changing the inclination angle

Features

Standard Cup Stage

- 150 mm working diameter
- 360° rotatable (pivoted) working surface
- Slip resistant coating on stage
- 120 mm interface fits to Leica bases
- 57.5 mm height
- Working surface out of ESD material

Magnetic Cup Stage

- 60 mm working diameter
- Tiltable to 90°
- Industrial strength magnets
- Maintains position
- Stand alone base
- Metal construction

Applications

Cup stages are well suited for three dimensional samples that cannot be easily held in inclined positions.

Usage/Tips

- The standard cup stage has a 120 mm interface and can be mounted on Leica transmitted or reflected light bases.
- The standard stage is not suited well to a swing arm or boom stand base.
- The magnetic cup stage can be used as stand alone – which is ideal for the XL base.

Article Numbers

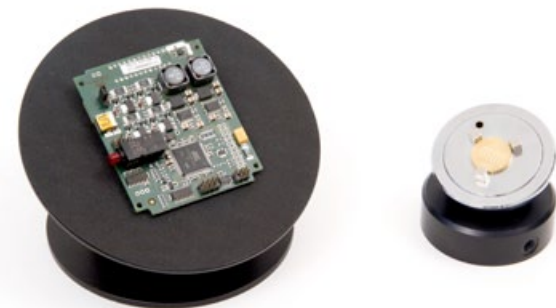
- 33000600 Large cup stage
- 33000081 Magnetic cup stage

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

Working surface out of ESD material



The cup stage fits directly on a Leica base and allows the user a wide range of viewing angles



The magnetic cup stage uses magnets to secure your work piece. This is a stand alone stage does not need the 120 mm interface.

2.7 Articulating arms / Jointed Couplers

Information

Leica stereomicroscopes can be mounted to many different stands and can be used with several different types of illumination. However, as there are so many different types of illumination ranging from goosenecks, flexible light guides to LED spots. Finding a way to put the light where you need it can then become an issue.

Leica offers a several different types of mounting arms to help you put the light where you need it most. For example Leica offers a 200 mm articulating arm, which mounts directly to our microscope carriers. We also offer a choice of jointed couplers of various lengths, up to 300 mm. Either way, you can find what you need to mount your light source.

Applications

Jointed coupler are ideal to fix all kind of equipment to a microscope such as LED Spots, LED line lights .

Usage/Tips

Articulating arms are about 200 mm in length while the jointed couplers can be up to over 350 mm. As opposed to a goose neck, these holders can be fixed in place with little to no movement once the position is set.

If using the jointed couplers with a Leica microscope carrier, you will need a M5/M6 adapter (35000214)



Leica 200 mm articulating arm with LED1000 Hi-Power spot.



Articulating arm with universal protection glass

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

2.7 Articulating arms / Jointed Couplers

Article Numbers

- 10450265 Articulating arm (200 mm) (M5/M6)
- 35000252 Two link jointed coupler – 127 mm (M6/M6)
- 35000253 Three link jointed coupler – 186 mm (M6/M6)
- 35000254 Four link jointed coupler – 245 mm (M6/M6)
- 35000255 Five link jointed coupler – 304 mm (M6/M6)
- 35000214 M5/M6 Adapter for jointed couplers
- 30221008 Base for articulating arm or jointed coupler (M5 or M6)
- 35000032 Universal protection glass holder 58/66 mm



Leica 200 mm articulating arm with LED1000 Hi-Power spot.



Three Jointed coupler mounted to the universal protection glass holder.

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

2.8 Light Guide Mounting Adapters

Information

In addition to articulating arms and jointed couplers, Leica offers many different types mounting adapters or holders. Whether it is a transmitted or reflected light base, a swing arm, a flex arm stand, or even an older Wild stand, we try to provide the right adapters to enable you a way to properly mount your illumination.

Applications

Useful in most routine and high-end applications where it is necessary to mount the light source directly to the microscope carrier or focus arm.

Usage/Tips

- Please take in to account the distance from the column to the work area when using column clamps or the universal light guide clamp.

Article Numbers

- 35000214 Adapter M5 thread with M6 threaded hole
- 35157104 Adapter M8 thread with M6 threaded hole
- 10446412 Adapter for lamp holder S-Series, MZ-Series, routine M-Series
- 30157103 Fiber light guide holder
- 10450265 Articulating arm M5 and M6 treads
- 10450570 Universal light guide holder for routine M-Series



35000214



30157104



10446412



30157103



10450265



30143005

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

2.9 Illumination Mounts for Bases

Information

Industrial applications can use a number of different bases or stands. This can often be a challenge for one to find the right method to illuminate one's sample. However, Leica has a number of mounts that can be used for nearly every base we have both old and new.

Applications

Useful in most routine and high-end applications where it is necessary to mount the light source directly to the microscope carrier or focus arm.

Usage/Tips

Please keep in mind the distance from the column to the work area when column clamps or the universal light guide clamp.

Article Numbers

- 35000214 Adapter M5 thread with M6 threaded hole
- 35157104 Adapter M8 thread with M6 threaded hole
- 10446412 Adapter for lamp holder S-Series, MZ-Series, routine M-Series
- 10450265 Articulating arm M5 and M6 threads
- 10450570 Universal light guide holder for routine M-Series



Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

2.10 Illumination Mounts for Boom Stand

Information

Boom stands, or also known as Swing Arm stands, are used extensively in many applications, where the work space is limited or the samples being viewed are large. This can be a challenge for the microscope user to find the right working position.

This is where the boom stand has a great advantage – it can be mounted to the side of the work area and can accommodate large sample sizes. However, trying to illuminate the sample becomes the new challenge. This is where Leica can offer a few solutions to address this issue.

Applications

Inspection of large samples where a swing arm stand is being used and the illumination source needs to be kept off to the side.

Usage/Tips

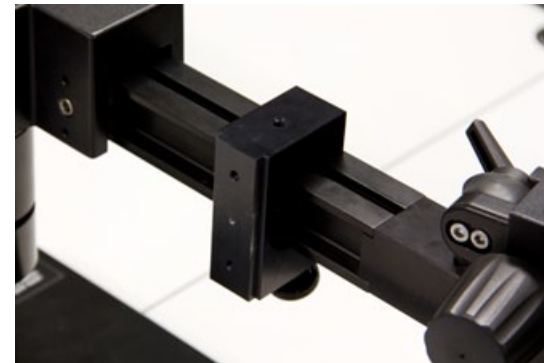
- The column mount has numerous M5 threaded holes for mounting other components such as gooseneck holders for spot illumination or articulating arms.
- Can be used with 25 mm/35 mm columns, 35 mm horizontal arm, or the Leica large horizontal arm.
- Ideal for LED1000 CombiController

Article Numbers

- 30221015 Illumination Mount (25 mm/35 mm column and Horizontal arm)
- 30143004 Adapter for Combi light guide, “L-Type” mount
- 30210013 CombiController
- 30220002 LED1000 2-arm spot (19 LEDs)
- 30220005 LED1000 2-arm Hi-Power Spots

Also compatible with Leica’s offering of fiber optic combi-light guides and goose neck guides.

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.



2.11 MAT S Heating Stage

Information

Some applications require that the samples be heated while being viewed under the microscope. Leica is pleased to offer a variety of heated stages to meet your application needs.

Applications

The heating stages are for specimens that are temperature sensitive and must be maintained above room temperature. The cable extensions are well suited for working under hoods where you want to have remote control of the stage.

Usage/Tips

- Plate and controller are calibrated to each other and must be used as a matched set. Do not use the plate or the controller from different packages!
- The glass of the heating stages have a thickness of 1 mm while versions E and F, for inverted microscopes, have a glass thickness of 0.5 mm.
- To maintain proper temperature distribution the glass inserts on the Leica bases must be removed.



Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

2.11 MAT S Heating Stage

Article Numbers

- 10447327 Extension cable MATs, 1 m
- 10447328 Extension cable MATs, 2 m
- 10447275 Leica MATs TL Heating Stage

Older Leica Stages

- 10447164 Leica MATs-Type A – HL Base (10446359, 10445367)
- 10447165 Leica MATs-Type B – BF/DF Base (10446363, 10445387)
- 10447166 Leica MATs-Type C – Standard Plate (200 mm × 185 mm)
- 10447167 Leica MATs-Type D – Compound microscopes (DM4000 – DM6000)

Leica Compound Microscopes

- 10447312 Leica MATs-Type E – Inverted microscope (with 3 plate stages)
- 10447164 Leica MATs-Type F – Inverted microscope (DMIL)



Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

3. Special Solutions

Content

- 3.1 Second Observer
- 3.2 Discussion Tube
- 3.3 Objective Slider
- 3.4 XL Stand
- 3.5 Boom Arm Stands
- 3.6 Flex Arm Stand
- 3.7 Routine Floor Stand
- 3.8 MSC Stand
- 3.9 Repro Stand

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

3.1 Second Observer

Information

Leica stereo microscopes are used in many applications, including applications where more than one observer is needed. This can offer some customers a great opportunity have live hands on training. The only thing needed is a second binoc tube so that a “student” can view the live image of the instructor.

Applications

Second observation tubes are used in educational institutions, teaching hospitals, forensics and even in art restoration. Wherever hands-on, first hand training is offered.

Usage/Tips

- Remember, when ordering the components for a second observer, an second binoc-tube and eyepieces will be necessary.

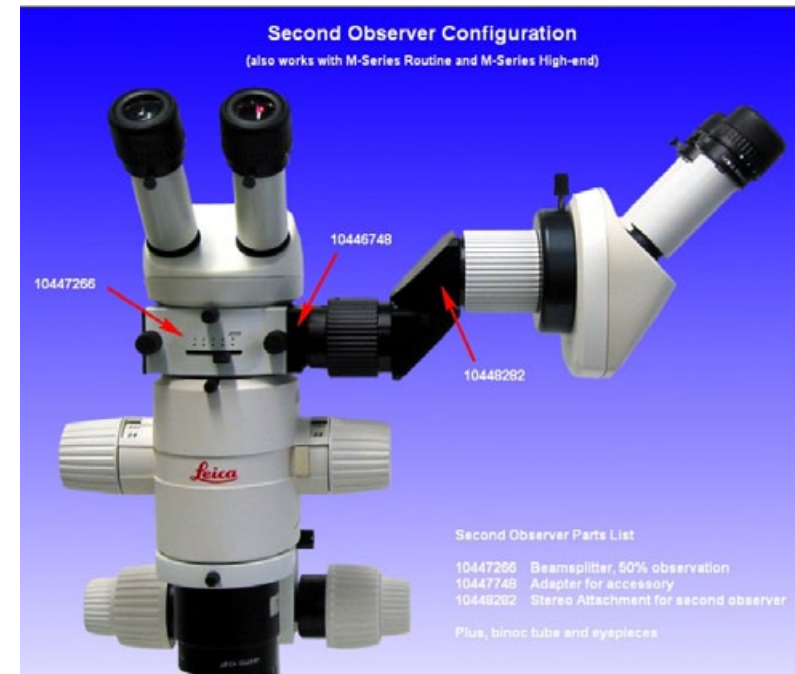
Article Numbers/Related Articles

- 10447266 Beam splitter, 50% observation
- 10446748 Adapter for accessory
- 10448282 Stereo attachment for second observer

Note: Also needed binoc-tube and eyepieces.

To help with configuring your system, please contact your local Leica Representative.

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.



3.2 Discussion Tube

Information

Leica has offered a discussion tube for our stereo microscopes for years. This device allows two people simultaneously see the same erect, laterally-correct, three-dimensional image at the same time. One user can demonstrate fine preparation or assembly procedures under the stereomicroscope and the second observer can follow what is happening.

The discussion tube comes with a movable light pointer, visible to both observers, identifies the feature of interest. Then the trainee can try out the procedures while the instructor looks on and advises. The result: Better-trained personnel, shorter job-familiarization times.

Applications

Discussion Tubes are used in educational institutions, teaching hospitals, forensics and even in art restoration. Wherever hands-on, live training is practiced by the customer.

Usage/Tips

- The discussion tube must be ordered with a carrier to mount the tube to the same column used for the M125.
- It is highly recommended to use the XL Base when using the discussion tube for stability purposes. When ordering the components for a second observer, remember to order an extra binoc-tube and eyepieces.
- Standard configuration is with the XL base as shown. For applications where a transmitted light base is used, please see you local Leica Representative for possible options.



Discussion tube mounted to a M125 column and a XL base

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

3.2 Discussion Tube

Article Numbers/Related Articles

- 10450307 Discussion tube bridge
- 10450259 Discussion tube carrier (mounts to M125 column)
- 10450128 M125 manual focus drive (no electronics)
- 10450260 XL Base

Note: Also needed binoc-tube and eyepieces.



Discussion tube mounted to a M125 column and a XL base

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

3.3 Objective Slider

Information

Some applications are best accomplished with two objectives. However, changing an objective while viewing a sample can be problematic. Introducing the objective slider! This allows a fast changing between two different objectives without having to stop and change objectives while working.

The solid yet compact shape of the slider fits well to the microscope

Applications

The objective slider is ideal for applications where fast changing between two different objectives is necessary. This may fit well to an application where the customer would like to get an overview with a 1.0× objective then “zoom in” on the specimen with a 1.6× objective.

The slider also works in combination with an AX carrier because it mounts directly to the carrier itself. It is also compatible with the Leica LED5000 RL and Leica LED5000 MCI illumination.

Usage/Tips

- Note the objectives are not parfocal and some adjustment is needed when changing objectives.
- Using a motor focus with programmed memory can make switching focus positions fast and easy.
- The AX carrier 10450047 and Objective slider 35000167 can be combined and work semi-parfocally
- The slider also works with the LED 5000 MCI.

Article Number

- 35000167 Objective Slider

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.



Objective slider with LED5000 MCI...



.... and with two fiber guide ring lights (only Schott)

3.4 XL Stand

Information

The Leica XL stand is a modular solution that consists of our large base plate, a focus drive and an XL extender. The XL extender moves the center of the optical beam path and the focus drive up to a distance of 360 mm.

The Leica XL stand also supports our macroscope line (Leica Z6 and Z16) and the S-Series (Leica S4 E to S8 APO). It is an ideal alternative to a swing arm stand, when the requirement for the stability is very high.

Applications

The XL stand solution is targeted for applications with large samples of up to 12" (305 mm) in width. This makes it ideal for PCB inspection, examining documents, quality control of large products.

Usage/Tips

- You can add a X/Y gliding stage with fine positioning and a travel distance of 300×300 mm (12×12"). The X/Y gliding stage can be mounted to the XL universal base plate and includes an ESD matt.

Typical Accessories

- 10450260 XL Base Plate
- 33000595 Gliding stage
- 10450503 Motorized focus long
- 10450289 XL-Extension
- 10450052 SmartTouch Control

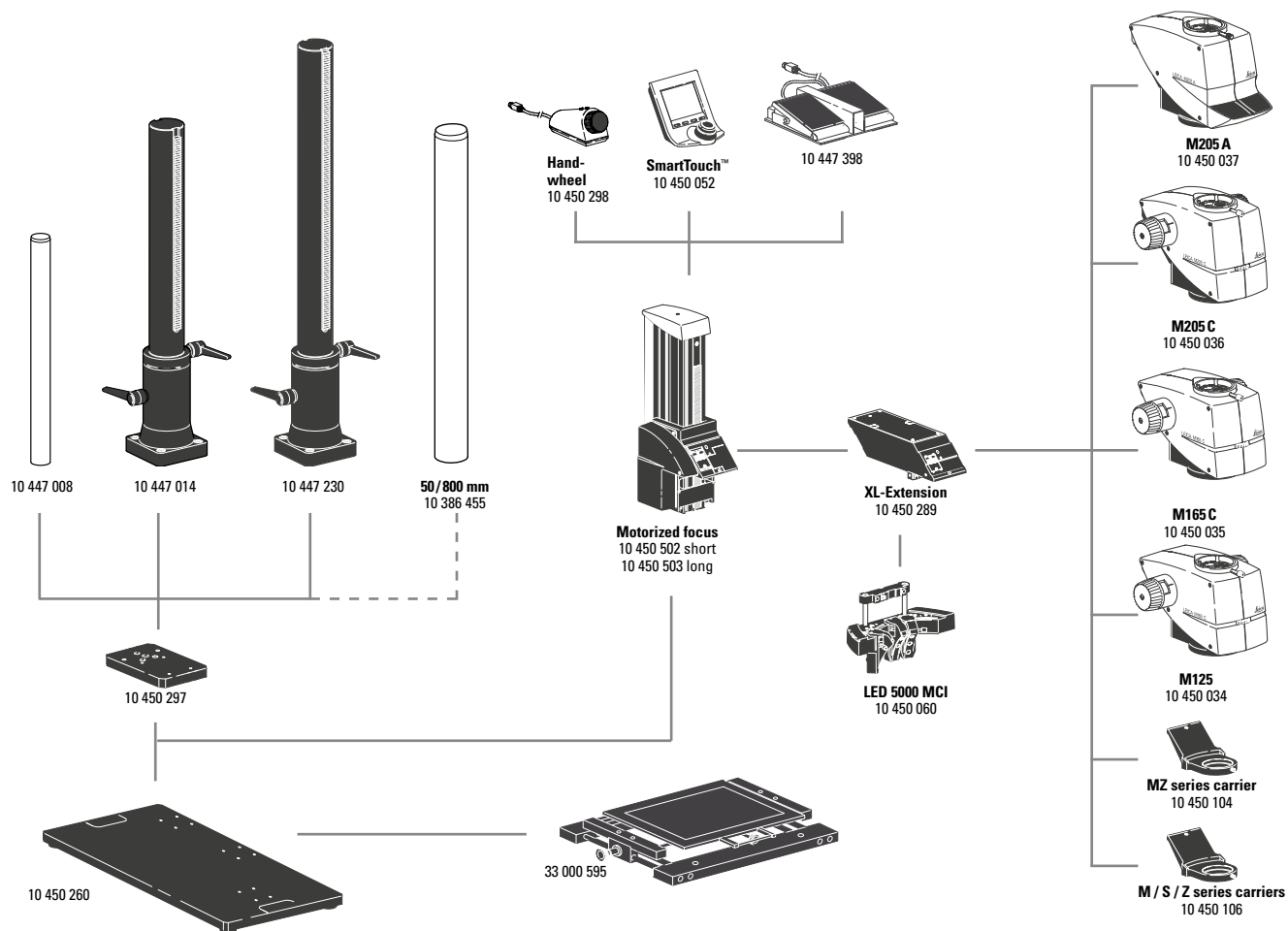
See the system diagram on the following page.

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.



Leica M205 C with XL base, motorized column, SmartTouch™ control, and optional XY stage

3.4 XL Stand - System Diagram



To help with configuring your system, please contact your local Leica Representative.

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

3.4 XL Stand - System Parts List

- 10450034 Leica M125, 12.5:1 zoom system, apochromatic
- 10450035 Leica M165 C, 16.5:1 zoom system, apochromatic, encoded
- 10450036 Leica M205 C, 20.5:1 zoom system, apochromatic, encoded, with FusionOptics™
- 10450037 Leica M205 A, 20.5:1 zoom system, apochromatic, motorized, with FusionOptics™
- 10450502 Motorized focus with side-faced column 420 mm
- 10450503 Motorized focus with side-faced column 620 mm
- 10450104 Microscope carrier for MZ series optics carriers
- 10450106 Microscope carrier for optics carrier of the M / S / Z series
- 10450260 XL universal plate for specimens up to 370 × 400 mm
- 33000595 XL gliding stage for specimens up to 300 × 300 mm
- 10450297 Adapter for universal base 10 450 260 for all swingarm columns
- 10450289 XL extension – for positioning Leica stereomicroscopes on the universal base 10450260
- 10447008 Vertical column 470 / 35 mm
- 10447014 Vertical column 560 / 57 mm
- 10447230 Vertical column 800 / 57 mm
- 10450052 SmartTouch™, external control unit with integr. touchscreen for status control and control of all settings and functions
- 10450298 Manual controller for motorized focus
- 10450398 Foot control for motorized focus and TL RCi™ transmitted-light base

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

3.5 Boom Arm Stands

Information

Boom stands offer a wide extension range, a high load capacity, and outstanding vibration damping behavior. In addition, the swing arms can be adapted to a large variety of Leica products in even the most unique situations. They also provide the user with improved ergonomic conditions while allowing plenty of room for specimens, tools and working equipment.

Leica has three types of horizontal arms in our product line up. A ESD version for routine use and two ball bearing arms for very smooth and easy operation with heavier microscope systems. Need to clear your workstation for other tasks? Then simply swing the entire microscope out of your way using the swing arm stand.

Applications

Idea for various applications in the electronics industry, assembly processes or even for dental labs manufacture and inspect implants, crowns and dentures in intensive, time-consuming processes.

Usage/Tips

The use of the following bases are recommended base on the system weight.

Base plate, small (10447260) 3.2 kg 640 mm

Base plate, midsize (10446436) 6.6 kg 640 mm

Ask your local Leica Representative for information on the swing arm stands.



From left to right: ESD Horizontal arm with small base, Standard ball bearing arm with medium base and the heavy duty ball bearing stand with the large base

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

3.5 Boom Arm Stands

Typical Accessories

- 10447260 Small Base plate
- 10447436 Midsize Base plate
- 10447008 Vertical Column 470 mm/35 mm
- 10447097 ESD horizontal arm
- 10447098 Standard horizontal arm
- 10447099 Standard horizontal arm

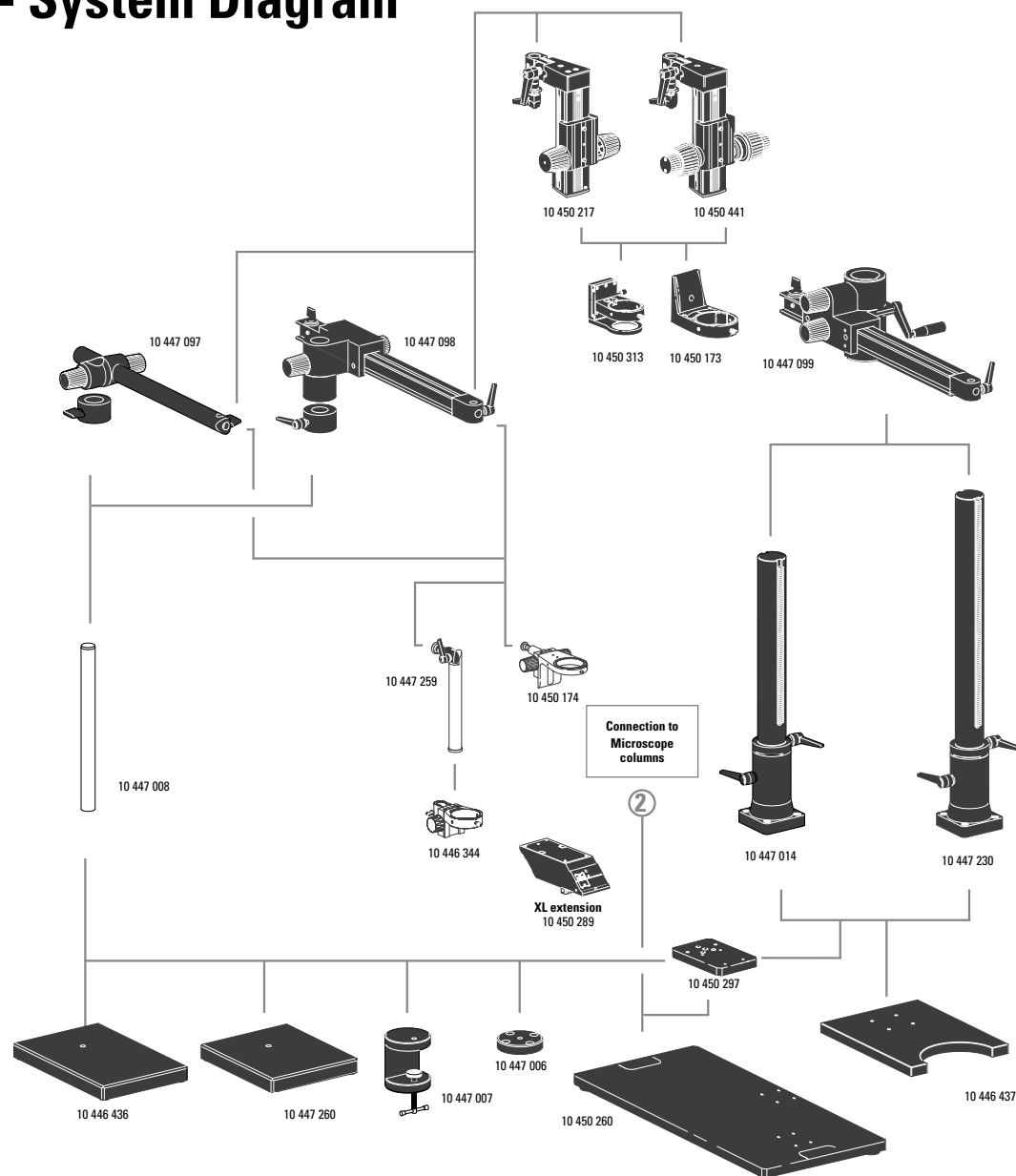
See the system drawing on the following page for more configuration possibilities.



From left to right: ESD Horizontal arm with small base, Standard ball bearing arm with medium base and the heavy duty ball bearing stand with the large base

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

3.5 Boom Stand - System Diagram



For help with configuring your system, please contact your local Leica Representative.

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

3.5 Boom Stand - Parts List

- 10447097 ESD horizontal arm
- 10447098 Standard horizontal arm
- 10447008 Vertical column 470/35 mm
- 10447260 Base plate, small
- 10446436 Base plate, midsize
- 10447006 Flange
- 10447007 Table clamp
- 10447254 Focusing drive, inclinable, M-Series
- 10447255 Focusing drive, inclinable, S-Series
- 10447259 Carrier rod, inclinable, Ø 25 mm
- 10446344 Focusing arm, inclinable for columns with Ø 25 mm
- 10447099 Horizontal arm, large
- 10447014 Vertical column 560/57 mm
- 10447230 Vertical column 800/57 mm
- 10446437 Base plate, large

Older Components

- 10447256 Focusing drive, inclinable
- 10447257 Coarse/fine focusing drive, inclinable
- 10447258 Motorized focus, inclinable, 300 mm
- 10446394 Microscope carrier for S series
- 10445617 Microscope carrier for MS5 - MZ9.5
- 10447114 Microscope carrier for MZ12.5 - MZ16 A
- 10445618 Microscope carrier AX for MS5 - MZ9.5
- 10447107 Microscope carrier AX for MZ12.5 - MZ16 A

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

3.6 Flex Arm Stand

Information

The Leica Flex Arm offers great flexibility in microscope movement. When workspace is limited, the flex arm is an ideal option to free-up space while still allowing you to use the microscope.

The adjustable tension bearings provide smooth, stable movement while the adjustable counter-balanced support allows one to move the microscope with the touch of a finger.

Four mounts (wall, post, clamp and bench) can be ordered separately to adapt to most working requirements.

Applications

Ideal for applications for viewing applications that require moving the microscope over large or bulky samples.

Usage/Tips

- Counter-balanced weight range from 1.5 to 7.0 kg – factory set at 2.6 kg
- Offers up to 95 cm (approx. 3 feet) of a working arc.
- Optional table mount available
- Intended to be used with S-Series, MZ-series and the routine M-Series (M50, M60 or M80).
- Should not be used with the M125 – M205 microscopes.

Typical Accessories

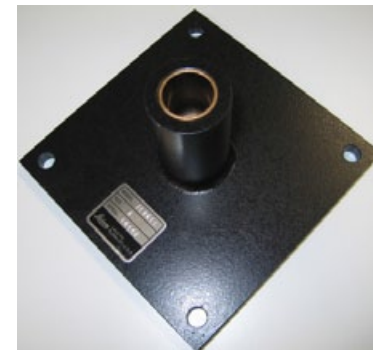
- 10450495 Flex-Arm stand with table clamp
- 13312611 Flex-Arm table mount

For help with configuring your system, please contact your local Leica Representative.

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

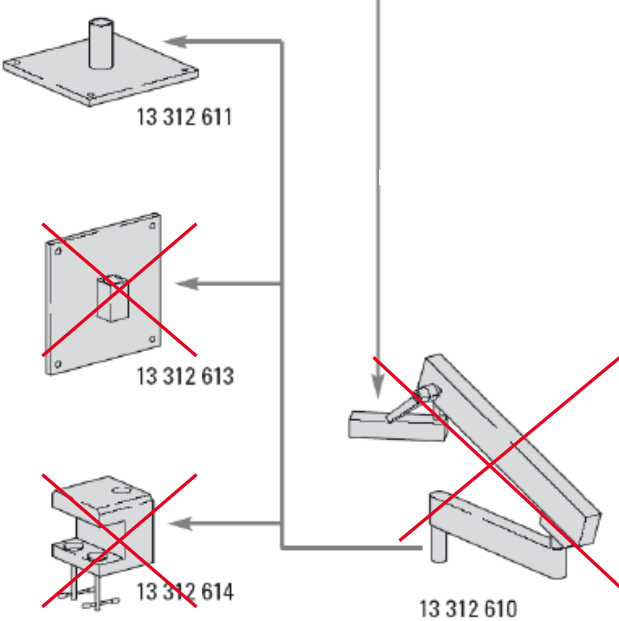


Leica Flex Arm stand (ships with table clamp and Quick Set-up-Guide)



Optional table mount for flex arm. Bolts to table or work bench (bolts are not included)

3.6 Flex Arm Stand - System Diagram / Parts List



Technical Data

Max. extension	995 mm
Height adjustment	-61 mm to +410 mm
Weight range - (counterbalance adjustable)	1.5 to 7 kg
Factory setting - weight	2.6 kg
Movement	3 axis
Interface to focus arm	5/8" (15.8 mm)
Table clamp	
Min. clamp opening:	1 mm
Max. clamp opening:	100 mm
Table clamp foot print	105 × 100 mm

10450495 Flex Arm with table mount

- ~~13 312 610 Flex Arm Stand~~
- ~~13 312 611 Flex Arm horiz. mount~~
- ~~13 312 613 Flex Arm vert. mount~~
- ~~13 312 614 Flex Arm clamp mount~~

 phased out

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

3.7 Routine Floor Stand

Information

Extraordinary applications require extraordinary solutions. In traditional microscopy we bring the sample to the instrument but there are applications where it is not possible. So we have to bring the microscope to the sample, for example in art restoration work where the sample can be quite large. A floor stand is an excellent solution for this application.

The Leica F12 I floor stand is designed specifically for routine stereomicroscopy. Find the right accessories for almost all applications here. A distinction is made between the extremely modular M series and the compact S series. The M series enables easy integration of ergonomic components and cameras.

Applications

Restoration of painting, fossils, antique furniture, sculptures, frescos, buildings, wall painting, Churches. In forensic work where one may want to inspect for evidence on body of a car. The stand is also good for the automotive industry where one may want to inspect wheel wells.

Usage/Tips

We recommend a maximum magnification of 40 – 50×, as with higher magnifications, floor stands normally exhibit more vibration. Experience shows that working at 20 – 40× magnification is best.

Maximum horizontal extension of about 120 cm (between optical axis and vertical column). Illumination can be directly attached to the floor stand.



Leica F12 I Floor Stand shown with typical microscope configuration (microscope sold separately)

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

3.7 Routine Floor Stand

Article Numbers

- 10450290 F12 I Floor stand (complete stand)
- 10450174 Mountable focus drive for M-Series
- 10450217 Inclunable focus drive – for M-Series
- 10450173 Microscope Carrier – M-Series

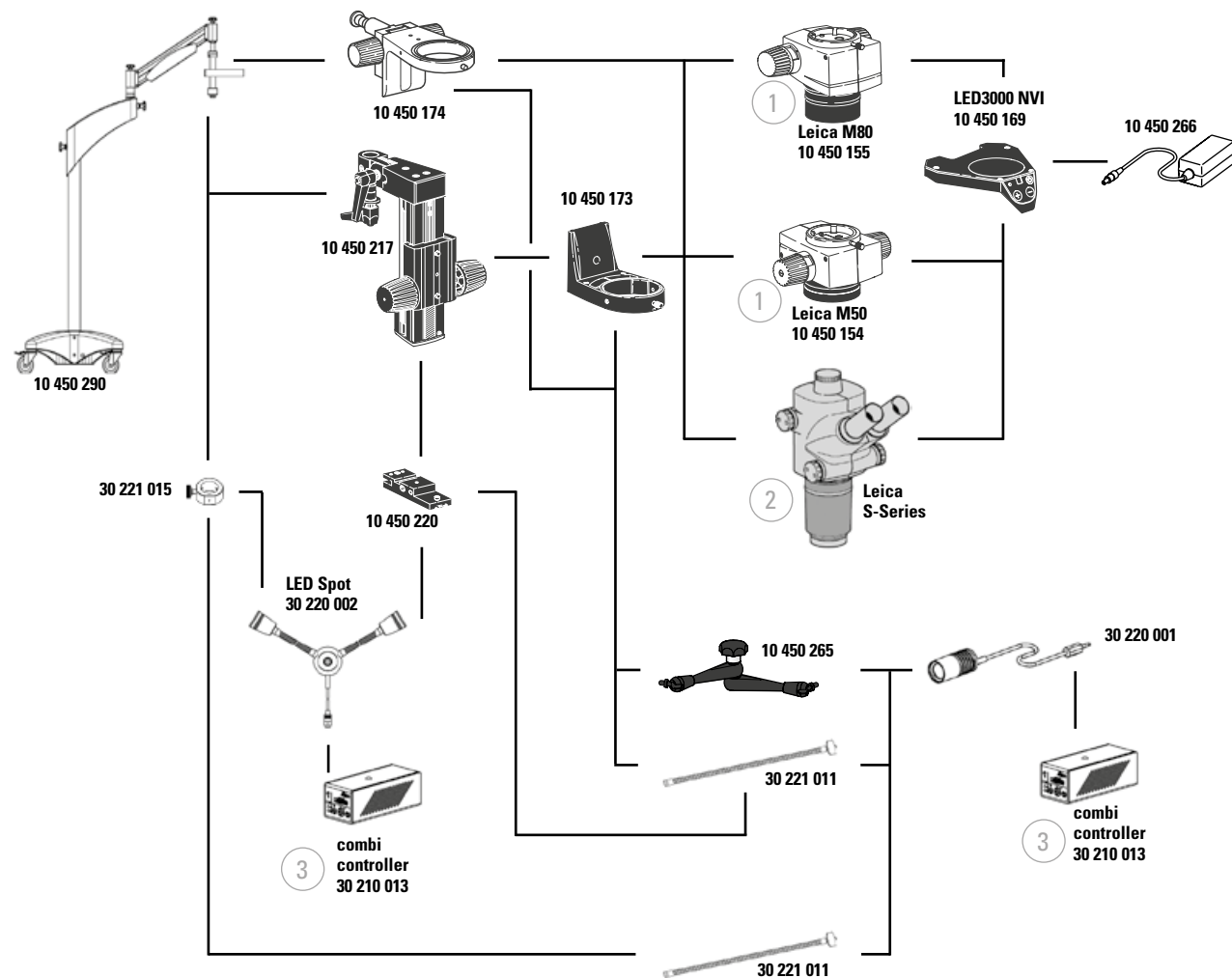
See complete system diagram on following page for more details



Leica F12 I Floor Stand shown with typical microscope configuration (microscope sold separately)

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

3.7 Routine Floor Stand



To help with configuring your system, please contact your local Leica Representative.

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

3.8 MSC Stand

Information

Have a large sample that will not fit under the microscope? Leica has just the stand for you. The MSC stand is a heavy duty version of our Leica F12 I Floor stand. It is best suited for systems weighing more than 6.5 Kg and up to XXX kg.

Applications

The MSC Stand is well suited for art restoration, museums work, forensic or other applications where one will be working with large samples. The MSC stand offers more stability than the Leica F12 I Floor stand because it can support Leica microscopes with higher magnification such as a M125.

Usage/Tips

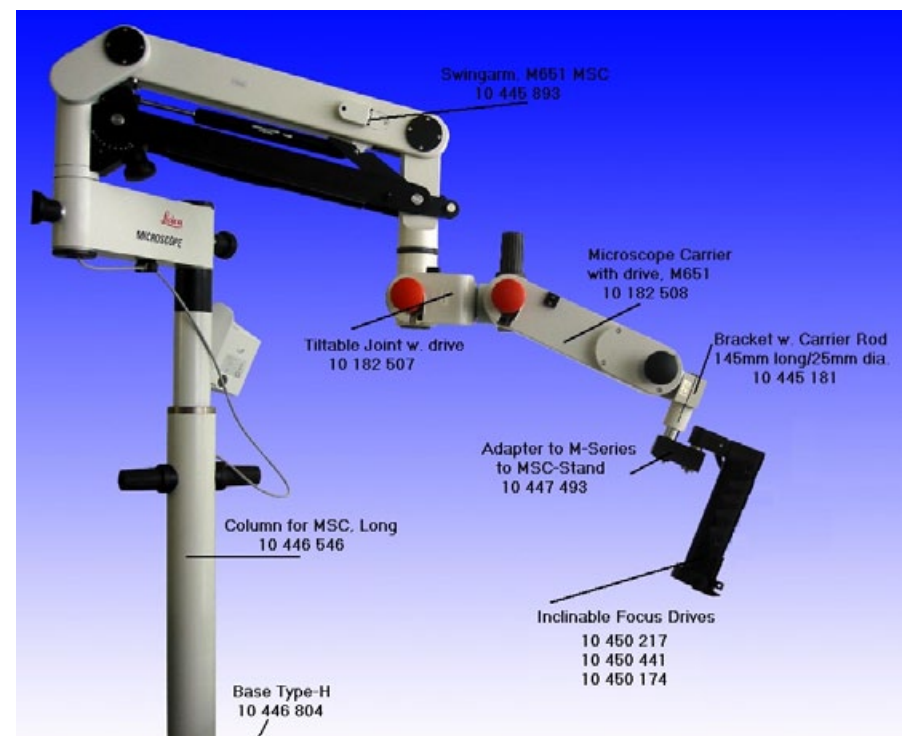
The microscope adapter is mounted to the carrier rod 10445181 where the following drive housings can be attached: 10450217, 10450441, 10450174

Article Numbers

- 10446804 Base Type-H
- 10446546 Column for MSC long
- 10445893 Swing arm, M651 MSC
- 10182507 Tiltable Joint w. drive
- 10182508 Microscope carrier with drive M651
- 10447493 Adapter to M-Series to MSC-Stand
- 10445181 Bracket w. Carrier Rod
- 10450217 M-Series Inclined focus drive
- 10450441 M-Series Inclined F/C focus drive
- 10450174 M-Series mountable focus drive

To help with configuring your system, please contact your local Leica Representative.

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.



Typical configuration of the MSC Floor stand for Leica microscope

3.9 Repro Stand

Information

The repro stand is recommended for photo documentation with digital cameras or macroscopes where the user doesn't need an observation tube.

The illumination is an option and is not required in all cases. Often a cold light source or other external illuminations are better for handling.

Applications

Documentation of large samples, or where a long working distance is needed.

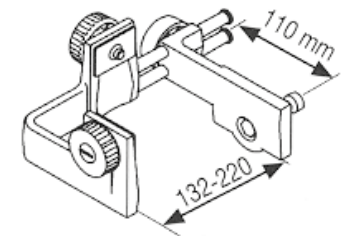
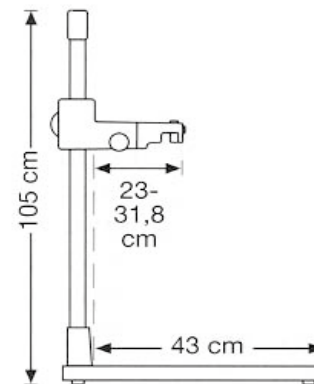
Usage/Tips

- The Z6 APO A, Z16 APO A and the DFC500 can be mounted directly to the stand.
- DFC cameras require the adapter 10447455.
- The illumination system is delivered with **main power connectors for Europe or Switzerland** only! For other countries it is necessary to use an adapter.
- Maximum weight for the camera and accessories is 3 kg.

Article Numbers

- 33000006 Repro Stand with two camera mounts (connecting thread B1/4 and B3/8).
- 33000007 Illumination (pair), with mount, 220 V, 2×36 W, 50 Hz, color temperature 5400 K, color rendering
- 33000008 Bulb (spare), Dulux, 36 W, socket 2G11
- 10447455 DFC Camera carrier

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.



4. OEM Solutions

Content

4.1 OEM Solutions

4.2 EZ5 - An OEM Microscope

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

4.1 OEM Solutions

Information

Your Leica industry team is committed to serving a demanding market with a vast number of customer needs. However there are some requirements that cannot be met with a “off the shelf”. It may be necessary to have a Leica product modified or a even a sub-assembly of a Leica product to meet the needs of on OEM customer.

We will in most cases try to accommodate the your need – be it making modifications to an existing standard Leica product or working with you to supply sub-assembly components from Leica.

These special needs or requests are handled on case by case basis. If you have a need for modified parts, a sub-assembly, drawings, or other data, please contact the SMS-Hotline and your request will be handled by our team.

SMS.Hotline@leica-microsystems.com

Customization can be anything from different paints and adapters to the complex development of products. For larger customized projects, Leica will work with you to plan the required resources, whereas smaller projects run immediately after receipt of order. If we see a bigger market potential, we make the products available to all customers. We run approx. 20 customization projects per year.

Should your request require additional information or support, an assessment of the project will be made by our team to determine what resources would be needed to meet your needs.

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

4.2 EZ5 - An OEM Microscope

Information

The Leica EZ5 stereomicroscope is designed to be used as of manufacturing systems that require precise optical tests during the production and processing of components and systems. If you depend on reliable optical inspections during the production process, then the Leica EZ5 is the ideal solution for you.

The Leica EZ5 with 5:1 zoom ratio (10× – 50×) offers powerful magnification and high resolution images that reveal intricate detail. Features include a 60° viewing angle and antistatic design. With 10 different types of eyepieces available, the Leica EZ5 can be fully customized to meet your current and future needs.

Applications

Leica offers a variety of focus arms to adapt the Leica EZ5 to bonders, probers, and other systems quickly and easily without equipment adjustment. The Leica EZ5 can also be built into systems and fixtures using custom-made adapters.

Usage/Tips

Due to the viewing angle of 60°, the Leica EZ5 is an ideal instrument for typical OEM applications where the instrument is mounted in an inclined position on a machine.

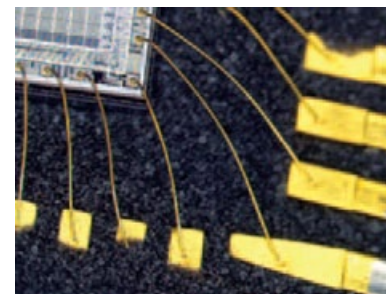
Special wire bonder and prober focus arms to meet the limited space requirements of most OEM customers.

Article Numbers

- 10447201 Leica EZ5
- 10447104 Objective 0.63×, WD 140 mm, EZ5
- 10447100 Objective 0.5×, WD 180 mm, EZ5

See system diagram for complete parts list.

Product availability is subject to change, Leica maintains the right to change our product offerings without notice.



4.2 EZ5 - System Diagram

System Articles:

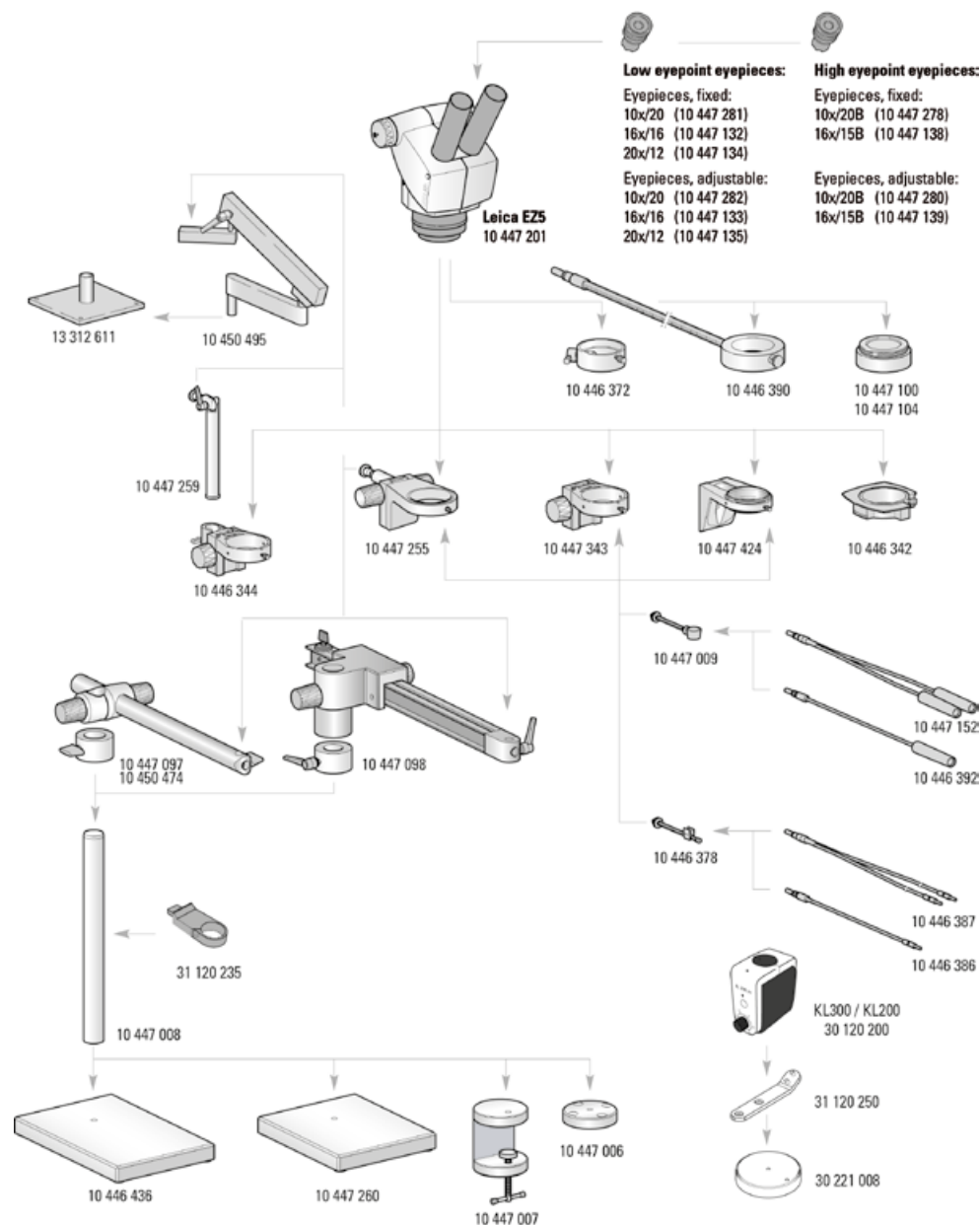
- 10447201 Leica EZ5
- 10447104 Objective 0.63x, WD 140 mm, EZ5
- 10447100 Objective 0.5x, WD 180 mm, EZ5

Low eyepoint eyepieces

- 10447281 Eyepiece 10x/20, fixed, for E-series
- 10447282 Eyepiece 10x/20, adjustable, for E-series
- 10447132 Eyepiece 16x/16, fixed, S and E-series
- 10447133 Eyepiece 16x/16, adjustable, S and E-series
- 10447134 Eyepiece 20x/12, fixed, S and E-series
- 10447135 Eyepiece 20x/12, adjustable, S and E-series

High eyepoint eyepieces

- 10447278 Eyepiece 10x/20B, for eyeglasses
- 10447280 Eyepiece 10x/20B, adj., eyeglasses
- 10447138 Eyepiece 16x/15B, for eyeglasses
- 10447139 Eyepiece 16x/15B, adj., eyeglasses



Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

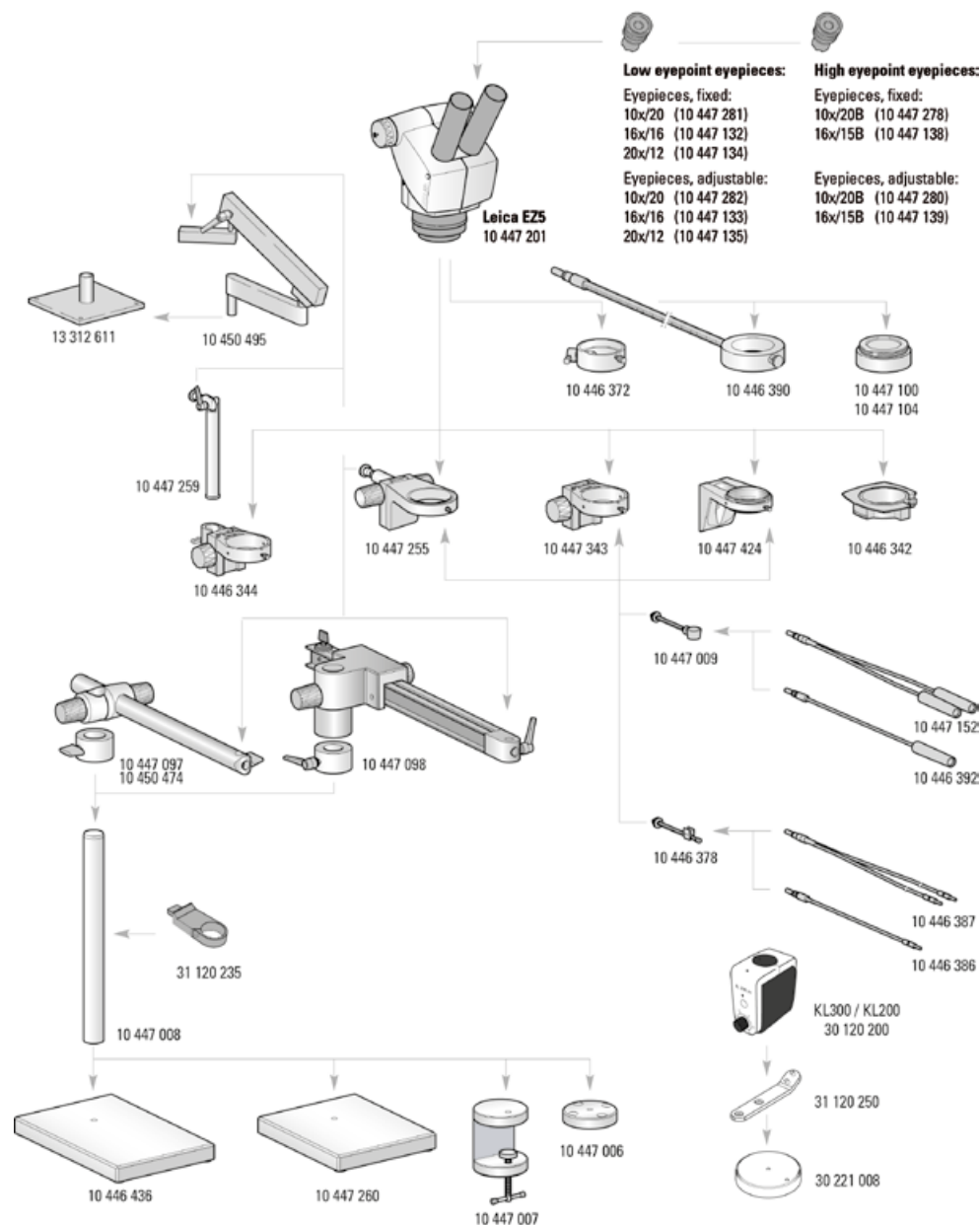
4.2 EZ5 - System Diagram

Reticules for dioptre adjustable eyepieces

- 10446447 Reticle 10 mm/0.1 mm, S-series
- 10446448 Reticle 5 mm/0.1 mm, S-series
- 10446449 Reticle 5 mm/0.05 mm
- 10446450 Reticle with crosshair
- 10447000 Reticle 100 div./0.002"
- 10447001 Reticle 100 div./0.001"
- 10447002 Reticle 150 div./0.0005"
- 10310345 Stage micrometer 50mm, 0.1/0.01 mm div.
- 10447037 Stage micrometer 1", 0.001" divisions

Spare parts

- 10447150 Eye cups (pair) for high eyepoint eyepieces
- 10447149 Eye cups (pair) for low eyepoint eyepieces E Others
- 10446324 Lens shield (only for POD, not for Objectives) +
- 10450474 Horizontalarm, 290 mm



Product availability is subject to change, Leica maintains the right to change our product offerings without notice.

5 Reference

Content

5.1 Spare Parts

5.2 Transmission of Objectives

5.3 ESD Protection

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5.1 Spare Parts

Information

This section includes some of our most common asked for spare parts for stereo microscopes. This list is not complete, nor is it possible to list every spare part, but these are the ones that have been asked for the most.

Always refer to the User Manual or Technical Brochure first. If you can not find the part you are looking for contact your local Leica Sales Representative as all is handled locally per region.

Glass Plates / B&W Plates Leica Bases:

Current Leica Bases

- 10450057 TL Base Glass Plate (fits newer M-Series bases)
– 170 mm × 220 mm
- 10447058 Glass plate for S-Series TL base (4mm)
- 10447153 Frosted glass plate for S-Series TL Base (4mm)
- 10447057 Black/White Plate for S-Series
- 10450058 Black/White for XY stage (170 mm × 220 mm)
- 10447065 Black stage plate for S6T

Older Leica Bases

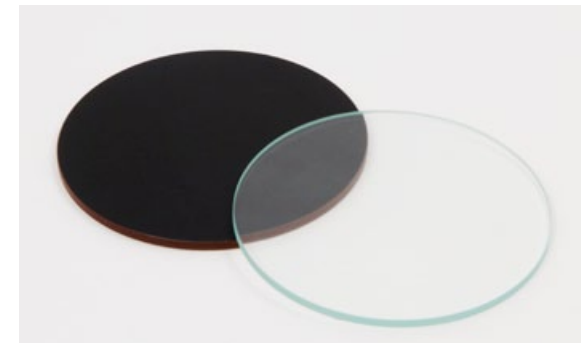
- 10446405 TL Light base glass plate (fits MZ-Series Bases)
- 10153419 80 mm Stage plate b/w for M8 Series
- 10411753 100 mm Stage plate b/w for M10 and M3 Series

Power Cables:

- 10445662 Power cable, 2 m, EURO
- 10445661 Power cable, 2 m, USA
- 10280636 Power cable, 2.5 m, Switzerland
- 10445663 Power cable, 2 m-2.5 m, BS
- 10447346 Power cable, 2 m, Japan
- 10450012 Power cable Argentina
- 10450013 Power cable Australia
- 10450014 Power cable China
- 10450015 Power cable Israel
- 10450016 Power cable Italy
- 10450017 Power cable South Africa



10450057
10450058



10447058
10447057

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5.2 Transmission of Objectives

Information:

Often a customer will ask for a transmission curve of the objectives that Leica has to offer.

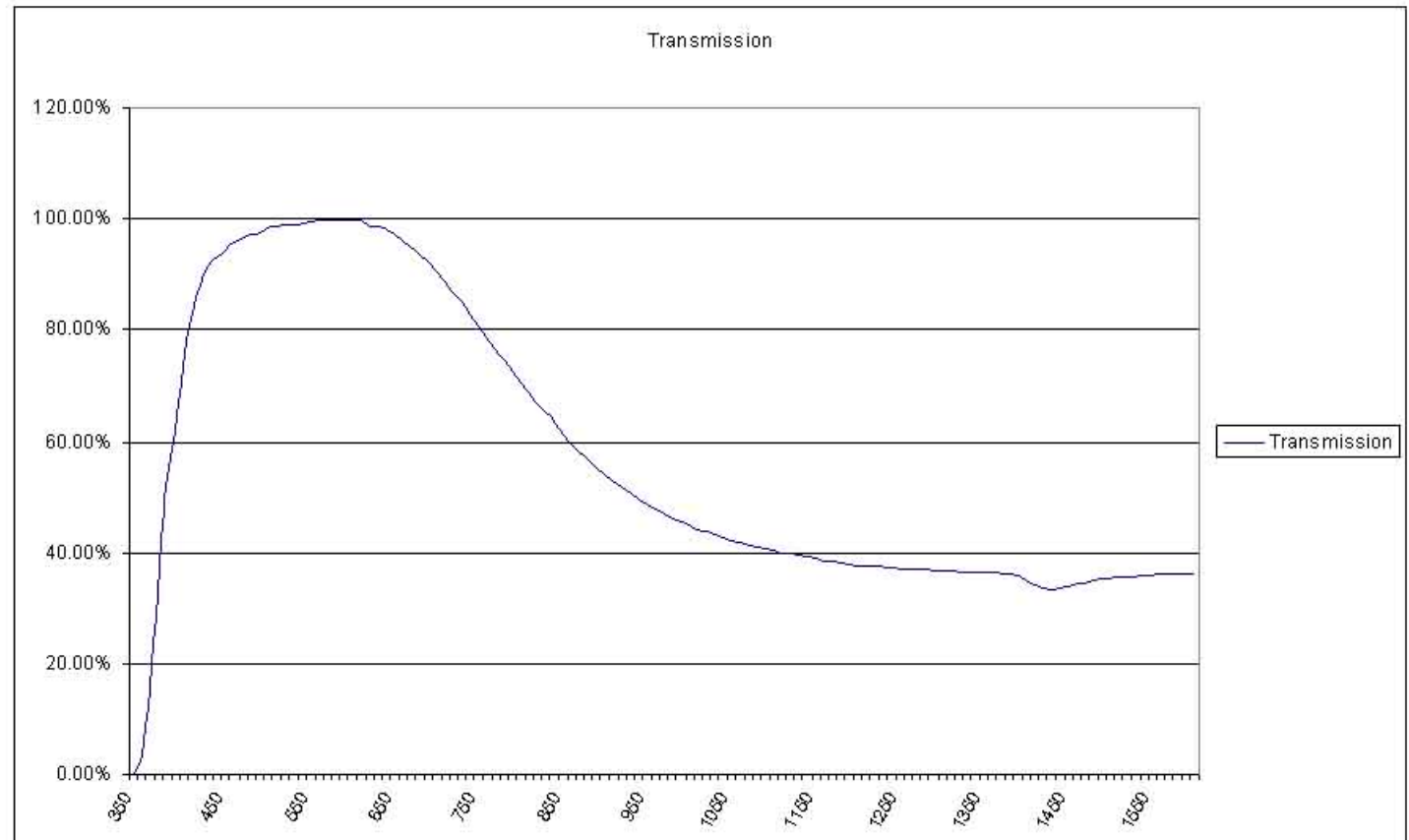
While we do not have this data for each individual objective, we can provide a general transmission curve.

Note:

All our microscope objectives are optimized for the visual part of the light. On the UV side, the cut-off is about 360 nm or below and about 40% transmission at about 380 nm. On the IR side the transmission rate is approximately 50-60 %.

Important

This transmission diagram is for a general reference only and it is not actual for a specific objective.



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5.3 ESD Protection

Information:

Electro-Static Discharge (ESD) is the transfer of a charge, usually by a spark between two or more surfaces as a result of the accumulated charge. The charge density determines the difference of electrical potential between two objects and the resultant electric field strength.

A sensitive object, such as a printed circuit board, can be destroyed from contact or the influence of such a high voltage. To reduce the chance of this happening, all instruments should be connected to the ground and including the person handling the sensitive part. This can be accomplished by connecting the person to a common ground by means of a flexible wristband.

Applications

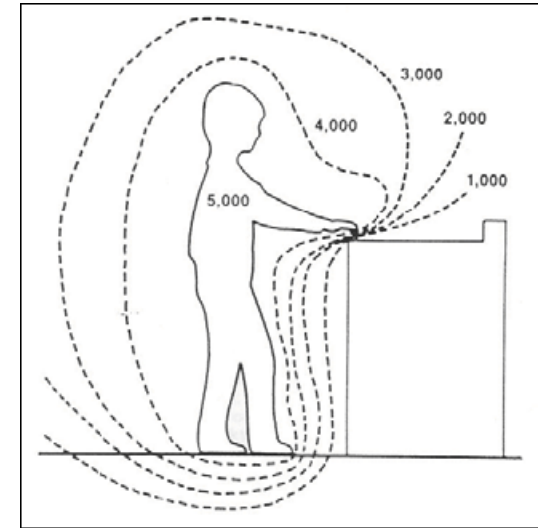
Use where sensitive components can be damaged through ESD. The range of sensitivity can be between 30 and 7000 V.

Usage/Tips:

Make sure that all components of the system are connected to a ground with a conducting material. This includes, for example, a ring light that is mounted to an objective.

Article Numbers:

- 35000226 Wristband ESD with standard connector
- 30310003 Protective Grid for FL RL (30310001, 3031000809, and 303100109)



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