

**ZEISS**

West Germany

Carl Zeiss

D-7082 Oberkochen

Operation microscope  
OPMI 6 SFR XY  
OPMI 6 SFR

Operating Instructions

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**Notes:**

- The 6- to 10-digit numbers are unit or component order numbers (e.g. 302926)
- **WARNING**  
These units are not designed to be used in areas where there is a risk of explosion.
- Alterations or repairs to electrical medical equipment must only be carried out by the manufacturer or agents expressly authorized to do so.
- We reserve the right to make technical alterations.

**General notes**

These instructions refer to the OPMI 6 SFR XY operation microscope.

No separate instructions are required for the OPMI 6 SFR model, since it is identical to the OPMI 6 SFR XY, but without the X-Y coupling.

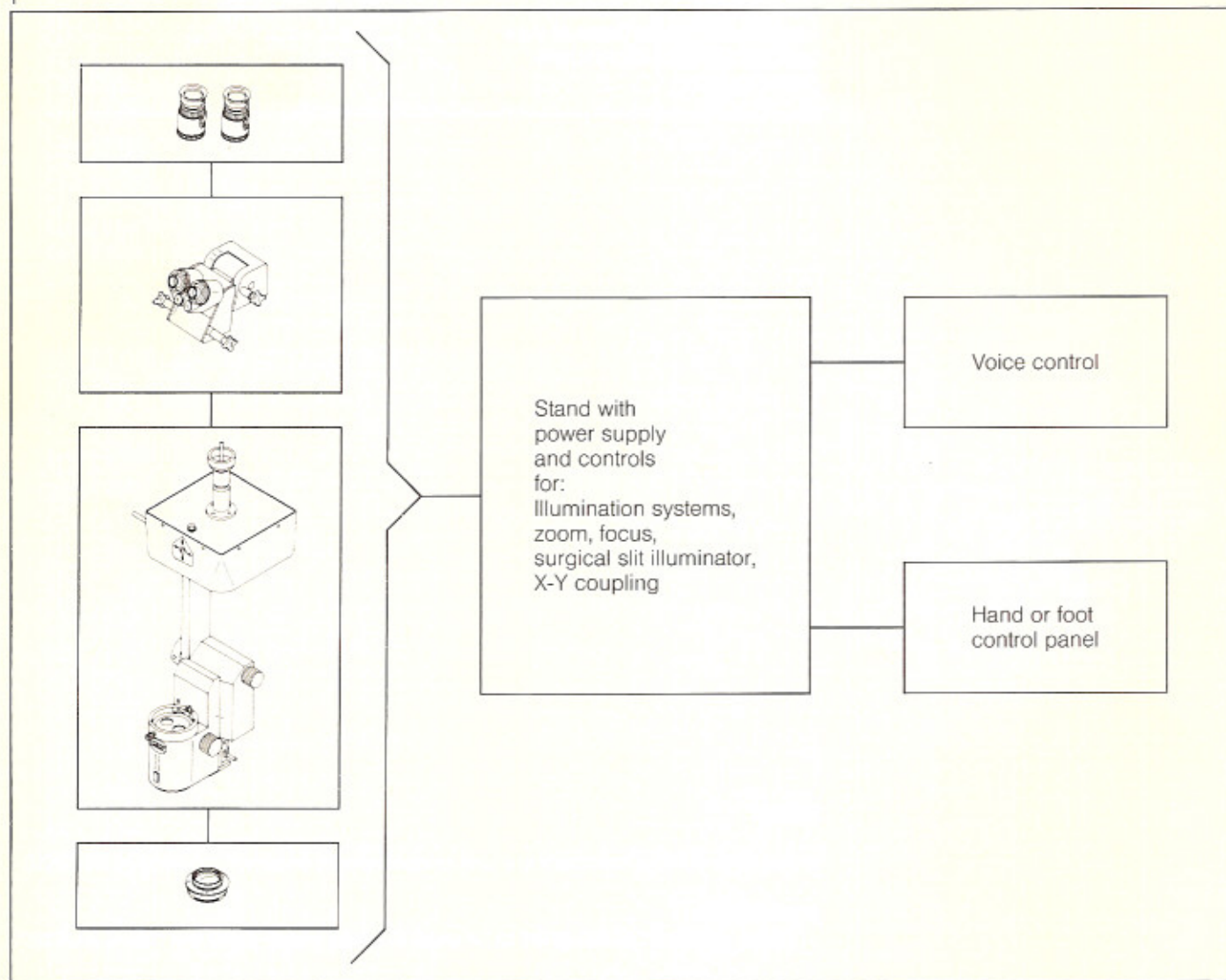
The operation microscope equipment is offered in a modular range which can be tailored to meet individual requirements.

The modules shown in Fig. 1 are the basic operational requirements.

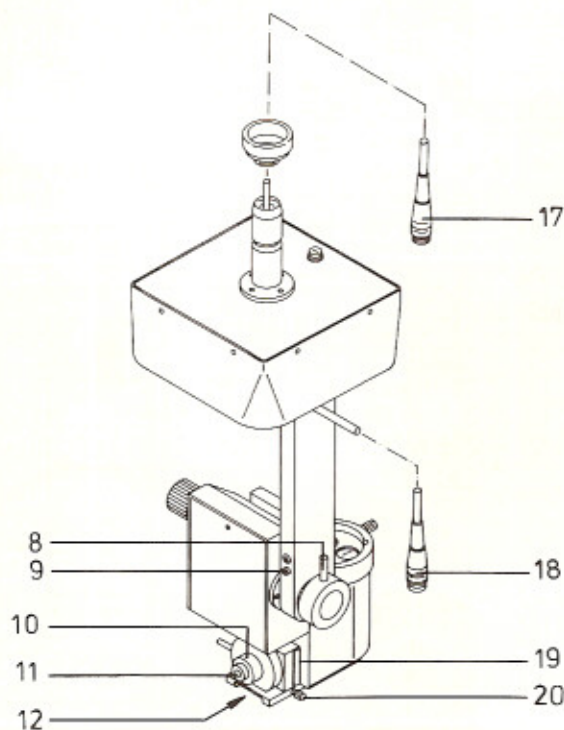
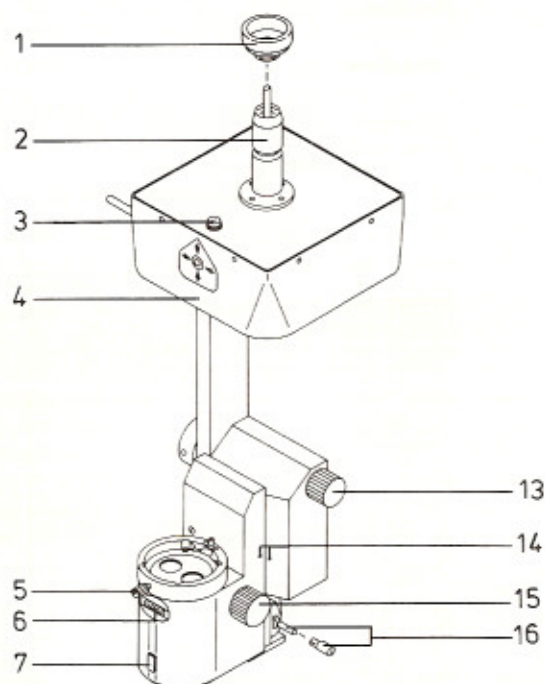
The operating microscope can be set up on a number of different stands/mounts, for which separate operating instructions are available.

In spite of the variety of stands available, fitting, adapting and using the operation microscope is virtually identical in all cases. The instructions here refer to the Universal 3B stand.

1



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### Controls

**1** Locking screw. Holds the microscope in the stand socket and prevents it from falling out.

**2** Microscope pivot. When inserted in the stand socket, the stand holder pin must engage in the groove of the pivot.

**3** Pushbutton: when pressed, the coupling automatically moves to the X-Y central position (set before each operation).

**4** This X-Y coupling enables the operation microscope to be moved electrically along the X or Y axes by  $\pm 25$  mm.

**5** Clamping screw to hold binocular tube.

**6** Viewing window showing magnification currently in use.

**7** Cover: when this is removed, adapters for a T-grip or two OPMI handles can be fitted.

**8** Clamping pin. The microscope can be adjusted around the horizontal axis to change the direction of view. This pin, which is fitted in the optimum position on the clamping wheel, is used to set motion resistance, or clamp or release the microscope body. The clamping pin can be removed to prevent accidental movement.

**9** Safety earth screw (additional earth).

**10** Clamping screw to hold sleeve (11).

**11** Sleeve for fiber optic cable.

**12** Dovetail mount for surgical slit illuminator.

**13** Knob for fine adjustment of the microscope tilt.

**14** Marker pin/dot (indicates centre of focusing range).

**15** Manual zoom magnification knob.

**16** Light shield lever with sterilizable metal sleeve. Swinging in the shield prevents light hitting the retina directly via the pupil.

**17** Power plug for X-Y coupling.

**18** Plug for motorized focusing and zoom action.

**19** Cover: when removed, a variety of filters can be inserted.

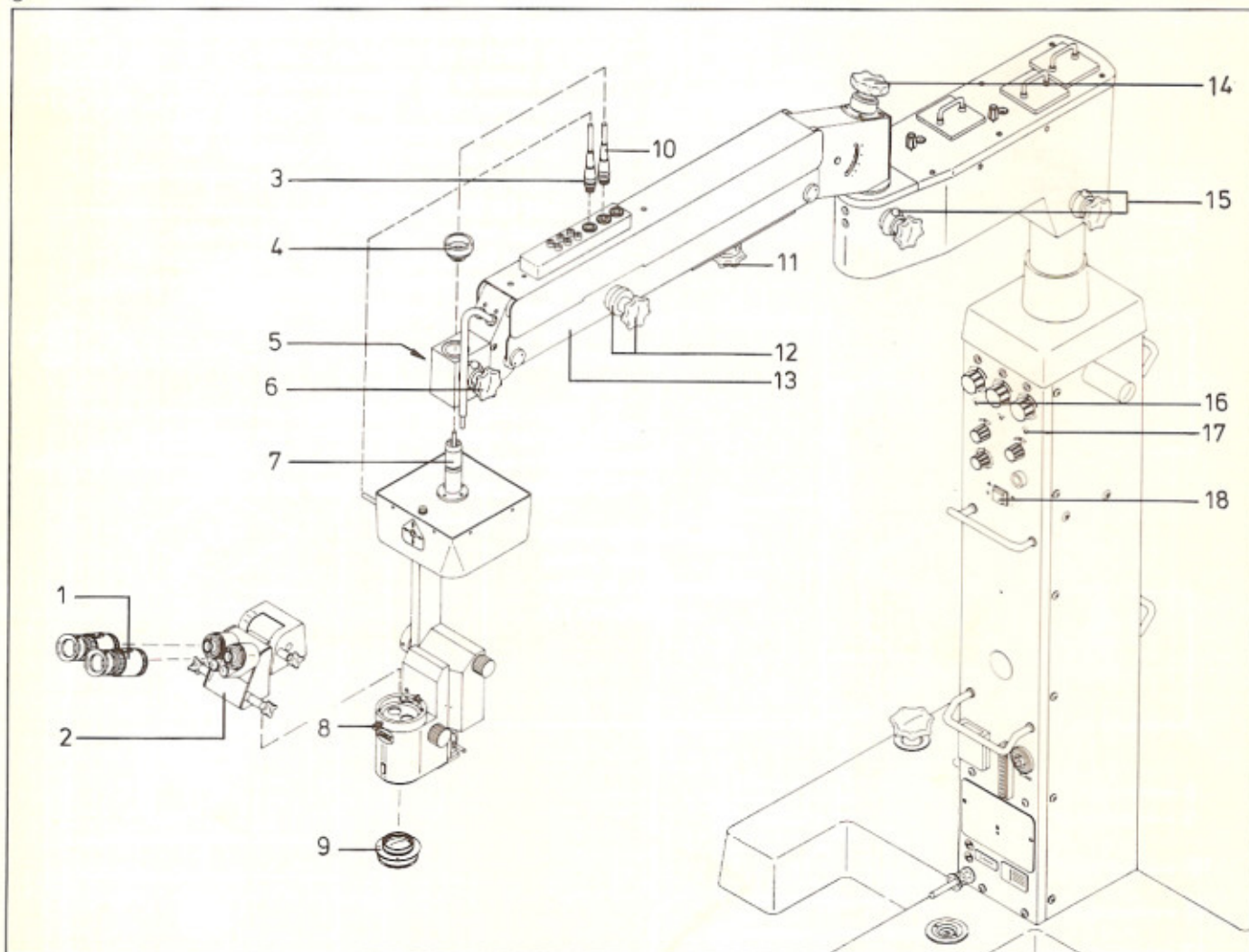
**20** Clamping screw for surgical slit illuminator.

## Assembly

- Undo safety slider (11), move suspension arm (13) to a comfortable position and prevent it from moving up or down by tightening the star knob (12). This star knob stays tightened until the microscope is set for the operating field.
- Insert microscope pivot (7) into socket until you hear holder pin (5) engage the groove of the pivot.  
Grease microscope pivot before inserting!
- Tighten locking screw (4) to give additional protection against OPMI falling out.

- If necessary, reset motion resistance of the pivot with the round knob on star knob (6) and clamp microscope pivot with star knob (6).
- Insert plug (3) into "OPMI" outlet for power supply of the operation microscope.
- Insert plug (10) into "XY" outlet for power supply of the X-Y coupling.
- Screw objective (9) into microscope body.
- Fit inclinable binocular tube (2) to microscope body, clamp tight with screw (8) and screw on eyepieces (1).
- Connect hand control panel to stand (a foot control panel or operating chair can be used instead).

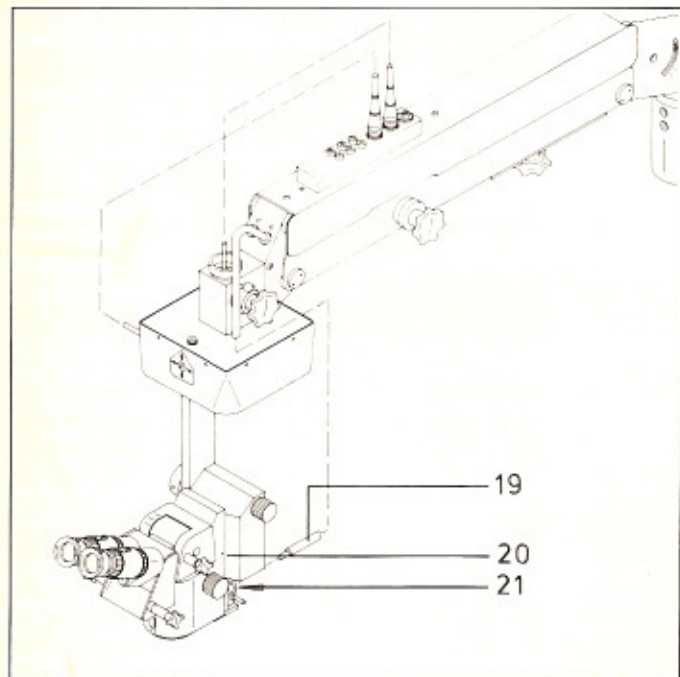
3



### Adjusting the microscope to the surgical field

● Loosen star knob (12) and bring suspension arm into equilibrium with counterbalancing knob (14). The adjustment in the highest and lowest positions has to be performed with particular care. If the microscope equipment weighs more than 14 kg the highest and lowest positions cannot be fully counterbalanced. This can be remedied by turning the ring on star knob (12) (the ring is secured with a screw). However, this results in a slightly stiffer up/down motion of the arm.

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● Set working distance with safety slider (11). **It is then impossible for the arm to drop lower than the point set.**

● If necessary, adjust ease of motion of the suspension arm and the carrier arm with the round knobs (15) on the star knobs.

● Connect stand to mains with power cable. Set on/off switch (18) on stand to "I" and push selector (16) or (17) to "F" or "F" for fiber optic illumination.

● Push fiber optic cable as far as it will go into sleeve (21) and secure cable with the grub screw of the sleeve.

● Adjust brightness of microscope illumination with the knob marked red or blue on the stand.

● Set diopter scale on eyepieces and adjust the interpupillary distance on the binocular tube. If you have to wear spectacles, fold rubber cups down and set diopter scale to "0".

● Set microscope with the hand panel (or foot panel or operating chair) to middle position (20) of the focusing range.

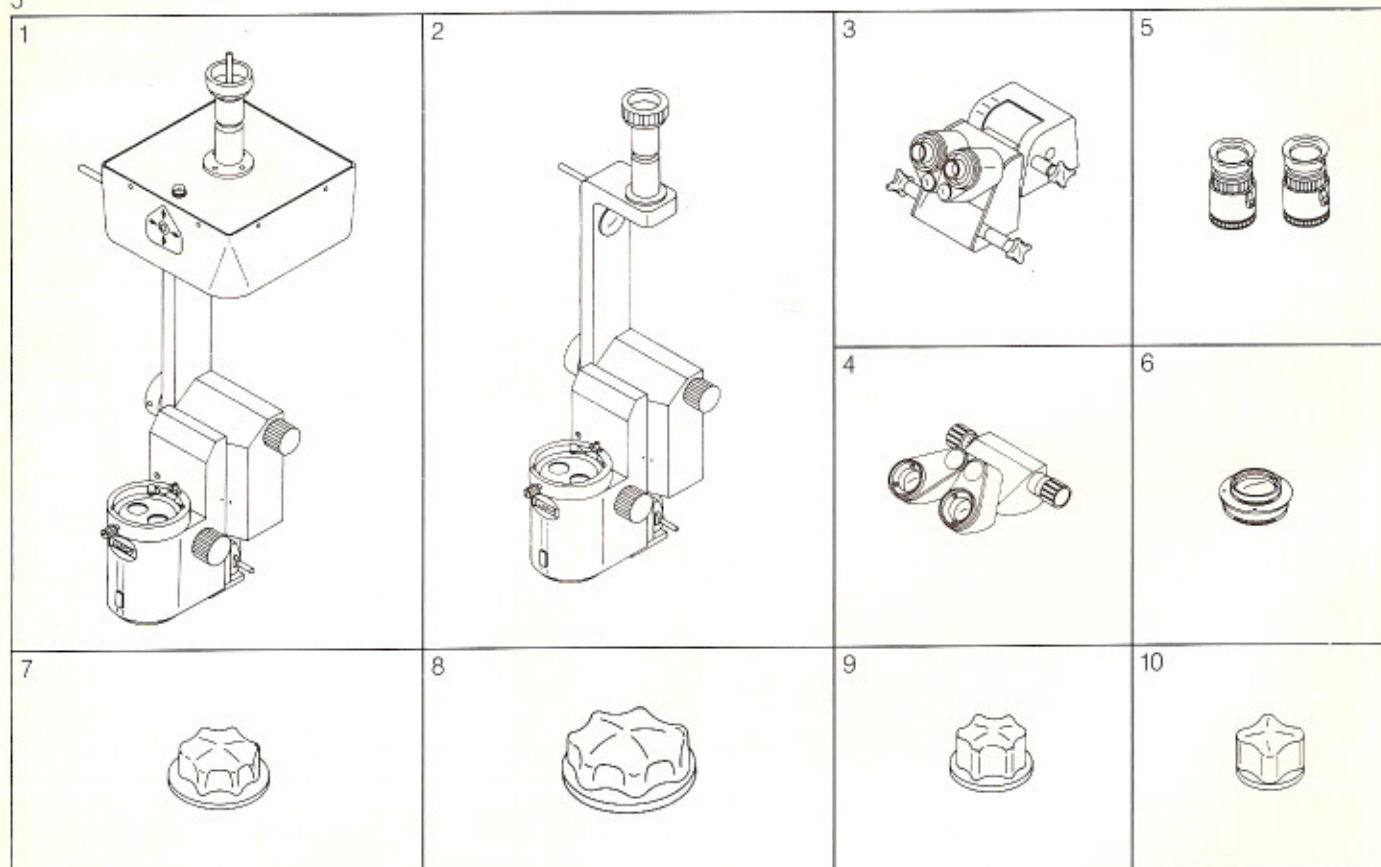
● Set microscope to working position at low zoom setting and focus object manually.

● Set maximum zoom and focus object with motorized drive. The desired magnification can now be selected without going out of focus.

## List of components

|                                                   | Order No.   | Asepsis set 3<br>consisting of:                           | Order No.      |
|---------------------------------------------------|-------------|-----------------------------------------------------------|----------------|
| 1 OPMI 6 SFR XY operation microscope<br>or        | 302926-0000 | 7 Small sterilizable rubber cap<br>for OPMI               | 4× 305807-0000 |
| 2 OPMI 6 SFR operation microscope                 | 302925-0000 | plus 3-step magnification changer                         |                |
| 3 Inclination binocular tube<br>0–60°, f = 170 mm | 303773-0000 | 8 Sterilizable rubber cap for OPMI,<br>stand and coupling | 4× 305803-0000 |
| or                                                |             | 9 Sterilizable caps<br>for tubes, f = 170 mm              | 305810-0000    |
| 4 Inclination binocular tube, f = 170 mm          | 303784-0000 | (PD setting): set of 6                                    |                |
| 5 Wide-field, screw-type eyepieces 10×22 B        | 305520-0000 |                                                           |                |
| or                                                |             |                                                           |                |
| Wide-field, screw-type eyepieces 12.5×18 B        | 305529-0000 |                                                           |                |
| 6 Carrier ring with objective f = 175 mm          | 303552-0000 | Asepsis set 4<br>consisting of:                           |                |
| or                                                |             | 7 Small sterilizable rubber cap<br>for OPMI               | 4× 305807-0000 |
| Carrier ring with objective f = 200 mm            | 303553-0000 | plus 3-step magnification changer                         |                |
| Objective f = 225 mm                              | 305704-0000 | 8 Sterilizable rubber cap for OPMI,<br>stand and coupling | 4× 305803-0000 |
| Dust cover (not shown)                            | 309290-0000 | 10 Rubber cap for small star knob                         | 6× 303418-0000 |

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**Magnifications / fields of view**

| Objective focal length<br>f (mm) | Tube $f_t = 170$ mm<br>8× eyepieces<br>Magnification / field of view dia. mm | Tube $f_t = 170$ mm<br>10× eyepieces<br>Magnification / field of view dia. mm | Tube $f_t = 170$ mm<br>12.5× eyepieces<br>Magnification / field of view dia. mm |
|----------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| f = 175 mm                       | 3.9 – 15.5 / 45.3 – 11.3                                                     | 4.9 – 19.4 / 45.3 – 11.3                                                      | 6.1 – 24.3 / 36.2 – 9.1                                                         |
| f = 200 mm                       | 3.4 – 13.6 / 51.8 – 12.9                                                     | 4.3 – 17.0 / 51.8 – 12.9                                                      | 5.3 – 21.3 / 41.4 – 10.4                                                        |
| f = 225 mm                       | 3.0 – 12.1 / 58.2 – 14.6                                                     | 3.8 – 15.1 / 58.2 – 14.6                                                      | 4.7 – 18.9 / 46.6 – 11.6                                                        |

**Looking after the microscope**

Dirt on the optical system to any great extent will reduce contrast drastically due to light scatter. For this reason, when not in use, the microscope should never be stored separately from the objective, binocular tube or eyepieces. After use and cleaning, the microscope should be covered to protect it from dust.

Objective, eyepieces and accessories not in use should be kept in dust-free containers.

Normally, only the outside of objectives or eyepieces should be cleaned. Dust on objectives should be blown off with a rubber bulb brush or removed with a grease-free brush. We recommend that brushes be cleaned in ether. Fingerprints, eyelashes etc. may be removed with a cotton wool bud on a wooden stick; the cotton wool bud may be moistened with acetone, if necessary.

Painted surfaces should be cleaned with a cotton bud moistened with petrol (Careful: risk of fire!). Any residue should be removed using a 50-50 spirit-distilled water mixture to which a squirt of a surface-active washing-up liquid has been added.

**Specifications**Magnification system

1:4 ratio zoom system

Motorized (e.g. via foot panel) or manual

For field of view, see table

Focusing

Motorized 3 mm/sec

Focusing range 50 mm

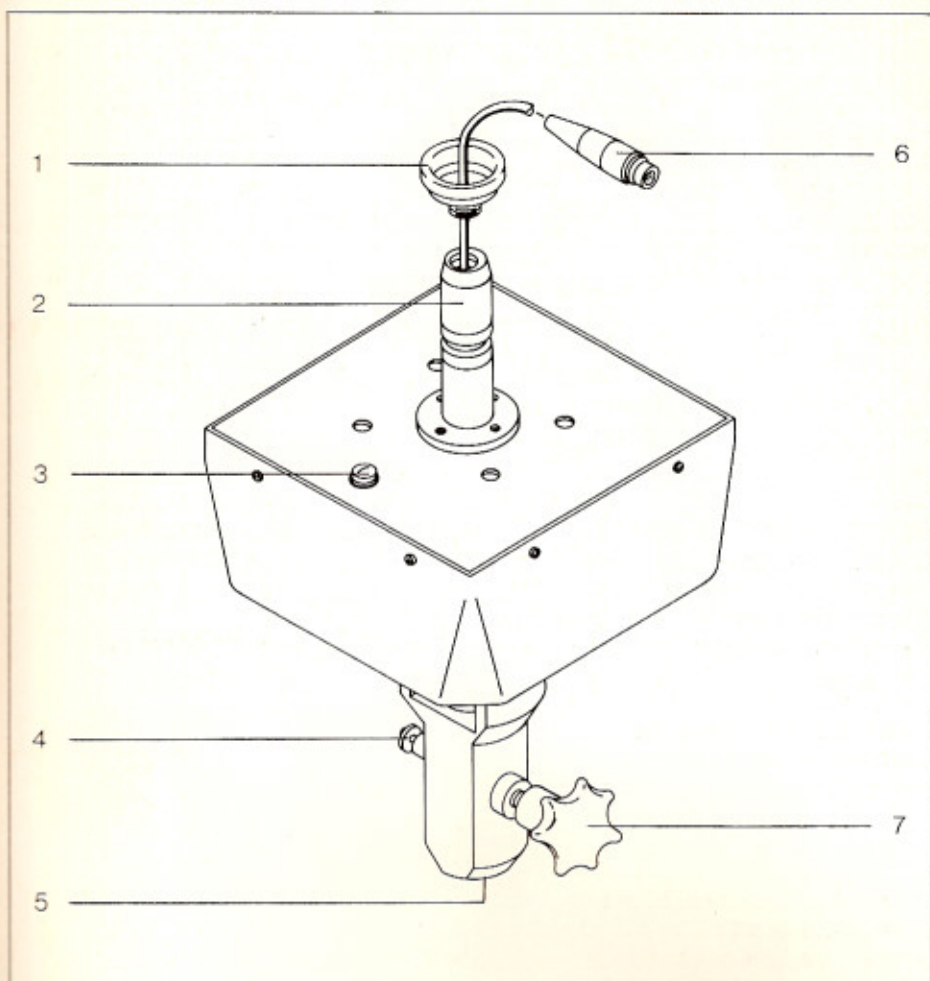
Swing range

Vertical 360°

Horizontal 330°

Weight

5.000 kg



# x-y coupling

## General

This coupling is required in order to be able to make slight movements in the x and y directions during operations. Center adjustment is automatic at the press of a button (3). A hand or foot switch is required to control the coupling.

## Description of appliance

- 1 Locking screw. The coupling is fastened in the arm of the stand by means of this screw.
- 2 Pin for fastening in the arm of the stand.
- 3 Push-button. When this button is pressed the coupling automatically moves to the x-y center position. This position must be set before an operation.
- 4 Bolt. This bolt must engage in the groove of the appliance which is placed in the instrument holder.
- 5 Instrument holder
- 6 Plug. This 7-pole plug is connected to the appropriate outlet in the stand arm or in the power supply unit.
- 7 Star knob screw for clamping instrument in the instrument holder (5)

## Specifications

|                                         |                |
|-----------------------------------------|----------------|
| Order No.                               | 30 53 43       |
| Length/Width/Height                     | 160x160x310 mm |
| Weight                                  | 2.7 kg         |
| Adjusting speed                         | 3 mm/s         |
| Adjusting range $\pm$                   | 25 mm          |
| Automatic adjustment to center position |                |
| Maximum vertical load                   | 10 kg          |

## Points to note

- This equipment should not be used in hazardous locations.
- Alterations and repairs to electrical medical instruments may only be carried out by the manufacturer or by agents expressly authorized by him.
- Right to technical alterations reserved.

# Universal S stands – Comfort, convenience, safety

The mobile Universal S floor stands offer maximum operating comfort and convenience, while meeting the most stringent safety requirements.

A carrier arm, and a suspension arm whose spring tension can be adjusted to balance the weight of the entire microscope equipment permit exact and effortless positioning of the operation microscope. All cables run inside the arms: outlets for the operation microscope, the surgical slit illuminator, the x-y coupling, the focusing coupling and other instruments (e.g. electrocautery, motorized trephine) are on top of the suspension arm. Two fiberoptic systems can be integrated in the arms.

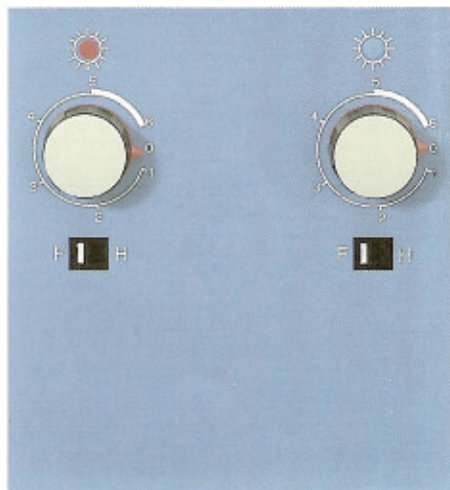
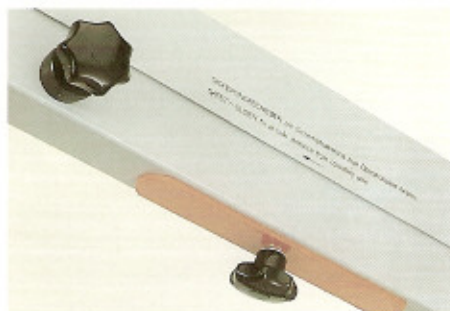
The stand is mounted on a heavy five-wing base which ensures absolute stability on slopes of up to 10°, even under maximum load and arm extension. Three spindles permit securing and levelling of the base (a level is integrated in the base). This results in excellent vibration-damping properties: drifting time of the microscope is considerably shorter than with conventional systems. All electrical components are accommodated on an easy-to-service slide-in unit which is protected against spray water. Two handles permit easy removal or replacement of this electrical assembly.

The controls are arranged at the upper end of the column. The knobs and their corresponding outlets on the suspension arm are marked with the same color. The column can be mounted on the base in two different positions so that the controls either face the surgeon or the OR staff. A control panel or an operating chair can be connected for controlling all functions of the microscope and the accessories. Each column is fitted with handles for effortless maneuvering of the stand; brackets are provided to hang up the cables. For added convenience, shelves can be attached to the column for non-Zeiss instruments.

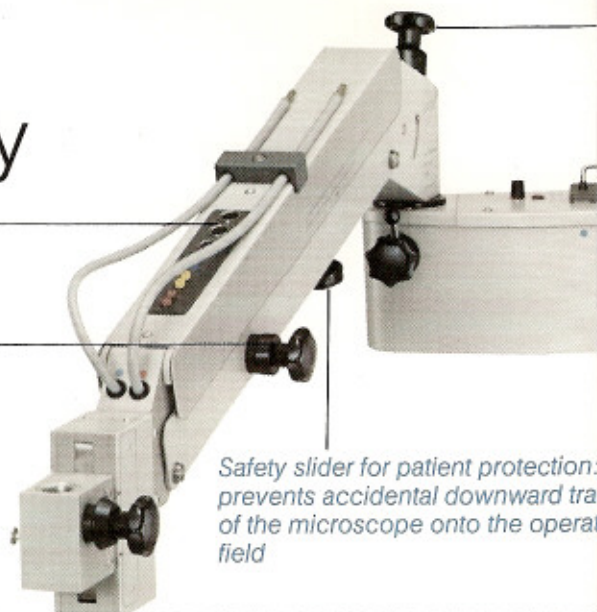
*Outlets for all functions of microscope and accessories*

*Knob for securing the suspension arm at any height*

*Slider limiting the downward travel of the arm and knob for securing the arm*



Controls (top: S 3, bottom: S 2)



*Safety slider for patient protection: prevents accidental downward travel of the microscope onto the operation field*

*Motorized focusing coupling for operation microscope without integrated motorized focusing (option)*

*Focusing and zoom knobs with middle click stop*

*Brackets for hanging up cables and foot control panel*

*Easily accessible primary and secondary fuses, mains outlet*



*Stable, vibration-damping base with three threaded spindles for levelling*

*Adjustable spring tension of the suspension arm; counterbalancing of microscope weights from 3 to 18 kg*

*Integrated fiberoptic illumination units for 1 or 2 bundles with spare slide-in*

*Knobs for setting the ease of motion and locking the joints*

*Round column extended by 160 mm for increasing the working distance, for example, in neurosurgery (option)*

*Brightness control knobs with overload range, click stop for rated voltage; illumination type selectors*

*Built-in electrosurgical unit for bipolar coagulation (option)*

*Easy-to-service electrical assembly*

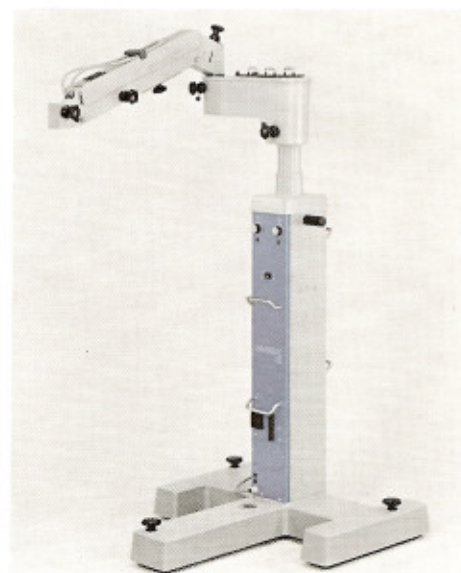
*Connector for hand or foot control panel or operating chair*

Universal S 3

**The Universal S stand is available in two basic versions:**

**Universal S 3.** Contains the power supply and controls for any Zeiss OPMI operation microscope with motorized focusing and zoom action, and with fiberoptic, halogen or tungsten bulb illumination. Two further illumination systems or non-Zeiss instruments can be connected. In addition, accessories such as the x-y coupling, the surgical slit illuminator and the focusing coupling can be used. If requested, the Universal S 3B stand can be supplied with a built-in electrosurgical unit for bipolar coagulation. The unit is released with a pedal switch.

**Universal S 2.** For use with a Zeiss OPMI operation microscope without integrated motorized focusing and zoom action. Serves as the power supply for a microscope with fiberoptic, halogen or tungsten bulb illumination, and one additional fiberoptic illumination or non-Zeiss instrument (e.g. electrocautery). A motorized focusing coupling can be connected. A Universal S 2B stand with built-in electrosurgical unit for bipolar coagulation is also available.



Universal S 2

**ZEISS**

Carl Zeiss  
D-7082 Oberkochen  
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# Safety features

- Mechanical and electrical safety according to VDE 750, IEC 601-1, UL 544, SEV
- Suspension arm with maintenance-free and wear-resistant double-spring system
- Safety slider prevents accidental downward travel of the operation microscope
- Knob for securing suspension arm at any height
- Automatic thermal cutout switch for the fiberoptics supply
- Current limiter for focusing and zoom action, x-y coupling, surgical slit illuminator and focusing coupling to protect the motors against overload and maloperation
- Starting current limiter for longer bulb life
- Lamp voltage stabilization
- Spare slide-in for rapid lamp change if the fiberoptic illumination fails
- Easily accessible fuses

# Specifications

|                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Stand height</b>                                                                      | extended                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1685 mm<br>1845 mm                                                               |
| <b>Base</b>                                                                              | width<br>depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 820 mm<br>900 mm                                                                 |
| <b>Carrier arm</b>                                                                       | length<br>swing angle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 400 mm<br>210°                                                                   |
| <b>Suspension arm</b>                                                                    | length<br>swing angle<br>travel<br>counterbalancing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 825 mm<br>285°<br>722 mm<br>3-18 kg                                              |
| <b>Total weight</b>                                                                      | <b>Universal S 2:</b> 140 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Universal S 3:</b> 152 kg                                                     |
| <b>Electrical safety</b>                                                                 | acc. to IEC 601-1; VDE 750; SEV; UL 544                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                  |
| <b>Power requirements</b>                                                                | 100-110-120-127-220-240 V, 50-60 Hz, or 120 V, 50-60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                  |
| <b>Power consumption</b><br>(without/with any instrument connected to integrated outlet) | <b>Universal S 2:</b> 350 VA/1350 VA<br>UL version (USA) S 2: 350 VA/1550 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Universal S 3:</b> 500 VA/1500 VA<br>UL version (USA) S 3: 500 VA/1700 VA     |
|                                                                                          | <b>Universal S 2 B:</b> 450 VA/1450 VA<br>UL version (USA) S 2 B: 450 VA/1650 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Universal S 3 B:</b> 600 VA/1600 VA<br>UL version (USA) S 3 B: 600 VA/1800 VA |
| <b>Fiberoptic illumination</b>                                                           | either 1 or 2 halogen reflector lamps 12V 100W on quick-change slide-ins for one FO bundle each, eye protection filter S 455 (green filter on request), 1 spare lamp slide-in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                  |
| <b>Outlets</b>                                                                           | <p><b>Universal S 2</b><br/>2x6 V/12 V, 100 W, convertible, adjustable; each can be switched over to integrated fiberoptic illumination; focusing coupling or surgical slit illuminator; mains outlet; electrosurgical unit for bipolar coagulation, electronic flash (options)</p> <p><b>Universal S 3</b><br/>2x6 V/12 V, 100 W, convertible, adjustable; 1x12 V, 100 W adjustable; two outlets can be switched over to integrated fiberoptic illumination; power supply for x-y coupling, surgical slit illuminator or focusing coupling; adjustable zoom and focusing speeds; mains outlet; electrosurgical unit for bipolar coagulation, electronic flash (options)</p> |                                                                                  |
| <b>Bipolar coagulator</b>                                                                | power consumption<br>rated frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 50 W at 75 Ohm<br>600-1000 kHz                                                   |

Subject to change

## Sterilization Methods

### Gas (ETO) Sterilization\*

Standard ETO is acceptable for use with Kraton® thermoplastic rubber based compounds. The ETO gas will penetrate the Kraton, plasticize it and relieve molded in stresses or imposed stresses on the part.

Aeration time is greatly dependent on the size of the master carton and its permeability. One week is the minimum requirement to bring the ETO residuals below 1 PPM, as tested by the standard liquid extraction method. If the product is heated to 125-135 F in an aeration chamber with high airflow, the time can be accelerated to as little as four days.

### Gamma Sterilization\*

Kraton thermoplastic rubber can be sterilized using gamma radiation without suffering a large loss in physical properties even after extended storage.

Kraton G-2705 rubber was exposed to Cobalt 60 radiation doses of 3, 6, and 12 Mrads. The table below shows the effect of the radiation on the tensile properties of the material after being aged for 21 months.

| Property              | Original | 0 Mrads | 3 Mrads | 6 Mrads | 12 Mrads |
|-----------------------|----------|---------|---------|---------|----------|
| Hardness, Shore A     | 55       | 50      | 48      | 48      | 43       |
| Tensile Strength, psi | 1200     | +8%     | +12%    | -3%     | -15%     |
| 300% Modulus, psi     | 350      | +3%     | -4%     | -10%    | -15%     |
| Elongation, %         | 700      | +3%     | +10%    | +8%     | +12%     |

### Steam Sterilization\*

GLS Corporation can suggest the following maximum autoclave cycles for selected materials\*\*

250 F for 17 minutes

240 F for 27 minutes.

There will be some slippage or creep with any Kraton thermoplastic rubber based products at these temperatures because of the relieving of molded in stress and the relaxation of imposed stresses. To minimize these effects, parts should be molded at the suggested processing conditions, and not autoclaved while being subjected to outside mechanical stresses.

\* Information pertains only to Kraton G-based compounds

\*\* Information pertains only to Kraton G-2705 compound.

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| Tensile Strength, psi | 1200     | +8%     | +12%    | -3%     | -15%     |
| 300% Modulus, psi     | 350      | +3%     | -4%     | -10%    | -15%     |
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## **Disposables**

### **Endure Number**

### **Spare Bulbs**

|         |                                                    |             |
|---------|----------------------------------------------------|-------------|
| 90-1200 | Zeiss 6V 30W Bt58Z                                 | 390158      |
| 90-1201 | Zeiss 6V 50W Bt86Z                                 | 390186      |
| 90-1202 | Zeiss 12V 100W HLX #64626                          | 380075 1020 |
| 90-1203 | EFR Housing #900                                   |             |
| 90-1204 | Zeiss 15V 150W EFR                                 | 310198      |
| 90-1205 | Zeiss 12V 100W HLX #64627                          | 380079 9040 |
| 90-1206 | Zeiss Superlux 40                                  |             |
| 90-1207 | Zeiss Superlux 175                                 |             |
| 90-1208 | Zeiss Superlux 300 with Cartridge                  |             |
| 90-1209 | Zeiss Superlux 300 Bulb Only - No Housing or Meter |             |
| 90-1302 | ELS 150 21V 150W EKE                               |             |
| 90-1400 | ELS 250 24V 250W ELC                               |             |
| 90-1403 | ELS 24 60V 24W Metal Halide                        |             |
| 90-1402 | ILO 300W with Cartridge                            |             |

### **Sterilizable Knob Covers**

|         |                                              |             |
|---------|----------------------------------------------|-------------|
| 91-0100 | Zeiss Knob Cover, MD Zoom                    | 302602 0203 |
| 91-0101 | Zeiss Knob Cover, 0-60 PD Adjustment         | 303418 0000 |
| 91-0102 | Zeiss Knob Cover, Small, 0-180 PD Adjustment | 305810 0000 |
| 91-0103 | Zeiss Knob Cover, Medium,                    | 305807 0000 |
| 91-0104 | Zeiss Knob Cover, Magnification Changer      | 303673 0000 |
| 91-0105 | Zeiss Knob Cover, Large                      | 305803 0000 |
| 91-0106 | Zeiss Knob Cover, Extra Large                | 303674 0000 |
| 91-0110 | Zeiss Handle Cover, CS/MD Short              | 302501 9060 |
| 91-0111 | Zeiss Handle Cover, CS/MD Long               | 302627 9001 |
| 91-0112 | Zeiss Handle Cover, F-Cover                  | 305808 0000 |
| 91-0113 | Zeiss Handle Cover, Pro Magis                |             |
| 91-0114 | Zeiss Hande Cover for MDU Post               | 305809 0000 |

### **Dust Covers**

|         |                   |
|---------|-------------------|
| 92-0010 | Dust Cover, Large |
|---------|-------------------|

### **Foot Control Covers**

|         |                                                          |
|---------|----------------------------------------------------------|
| 92-0200 | Endure Poncho Disposable Foot Control Cover, 20 per Case |
|---------|----------------------------------------------------------|

### **Drapes**

|         |                                                                                                                    |
|---------|--------------------------------------------------------------------------------------------------------------------|
| 93-8222 | Sterile Drape, 50/180cm, 20/70",<br>Zeiss 48mm, Zeiss OPMI 1/OPMI 6 w/o Side Observer, 20 per Case                 |
| 93-8214 | Sterile Drape, 115/180cm, 45/70",<br>Zeiss 48mm, Zeiss OPMI 1/OPMI 6 w/Side Observer, 20 per Case                  |
| 93-8296 | Sterile Drape, 115/300cm, 45/118",<br>Zeiss 65mm, MD/CS/11/111/ORL/Pro Magis/Neuro/ VISU 150/VISU 200, 20 per Case |