



S-series  
T-series



**euromex**

# The S-series

*The classic high class S-series microscopes have been supplied to educational institutes for biology classes since 35 years. Due to the fact that these microscopes are equipped with a moveable mirror they can be used practically everywhere. It is possible to exchange the mirror with a sub stage illuminator.*

*The simple and robust construction of the stand and focus system guarantee a long life time. The big advantage of the tilting stand is that at any time the eyepiece can be positioned to the correct height.*



SE.5225

## S-series models

Model	Eyepieces	Objectives
SE.5225	Huygens 6x, 10x and 15x	4x, 10x, S40x
SE.5275	Huygens 6x, 10x and 15x	4x, 10x, S40x





Abbe condenser from TE.5320, TE.5321



Round stage from SE.5275



LED sub stage microscope illuminator

## Optical equipment

Dependant on the type the microscopes are supplied with Huygens or wide field eyepieces. Wide field eyepieces have a larger field of view. The S- and T-series microscopes are equipped with achromatic objectives. The T-series can be supplied with a condenser with a fixed lens or a height adjustable Abbe condenser. In combination with a 100x objective (optional) these microscopes can reach magnifications up to 1.000x or 1.500x. The microscope TE.5325 has a phase contrast set to observe transparent, colourless objects. The S-series microscopes have an iris diaphragm with filter holder and blue filter mounted under the stage.

## Stand

Tilting stand with course and fine adjustment knobs on both sides. The S-series has an adjustable safety device to protect the specimen and objective from damaging. The blockage of the T-series is preinstalled.

## Stage

These microscopes are supplied with a stage of 120x115 mm and have two object clamps. With the optional mechanical stage one can move the object slowly and evenly.

The microscope SE.5275 is equipped with a round rotating mechanical stage with which the specimen can be moved in all directions.

## Illuminator

All microscopes have a mounted revolving plano concave mirror. The optional sub stage microscope illuminator can replace the mirror. These illuminators contain a condenser lens with blue filter and are available for 6, 12, 24, 120 and 230 Volts. It is also possible to choose an LED sub stage microscope illuminator in case there is no power available.

These illuminators are supplied with 3 rechargeable NiMH batteries, 1.2V, 1800 mA/h. A fully charged battery operates approximately 80 hours.

Standard sub stage microscope illuminator



## General technical information

<b>Observation tube</b>	Monocular straight tube, length 160 mm
<b>Focus control</b>	Coarse- and fine adjustment knobs which can be controlled at both sides
<b>Protection</b>	Specimen protection to prevent damage of objective and specimen
<b>Eyepieces</b>	Huygens or wide field eyepieces, depending on the microscope type
<b>Revolving nosepiece</b>	Ball bearing revolver for 3 objectives
<b>Stage</b>	120x115 mm with 2 object clamps. The round stage of the SE.5275 can be rotated and centred, $\varnothing$ 120 mm with 2 object clamps. Iris diaphragm with filter holder and blue filter are mounted below the stage
<b>Objectives S-series</b>	Achromatic objectives 4x, 10x en 40x. The 40x objective contains a spring
<b>Objectives T-series</b>	Type dependant with 3 achromatic objectives 4x, 10x en 40x or with 4x, 10x and 60x. The TE.5325 with achromatic objective 10x and phase objectives 20x and 40x. De 20x, 40x en 60x objectives have a built-in spring
<b>Condenser T-series</b>	Condenser with fixed lens N.A. 0.65 mounted in the stage or height adjustable Abbe condenser N.A. 1.25. Both with iris diaphragm, filter holder and blue filter
<b>Phase contrast condenser</b>	The TE.5325 with Abbe condenser N.A. 1.25 has a phase annulus with an aperture for bright field
<b>Packing</b>	Complete with dustcover in styrofoam case
<b>Manual</b>	English

# The T-series

*The beautiful stylish design of the T-series stands out among all other inclinable microscopes.*

*Equipped with the optional available LED sub stage illuminator this is the perfect microscope for use when no AC power is available.*



Sub stage microscope illuminator LE.5187, LE.5387

## T-series models

Model	Eyepieces	Objectives	Condenser
TE.5300	Huygens 5x, 10x and 15x	4x, 10x, S40x	Condenser with fixed lens
TE.5301	WF 10x with fixed pointer	4x, 10x, S40x	Condenser with fixed lens
TE.5320	Huygens 5x, 10x and 15x	4x, 10x, S60x	Abbe condenser, height adjustable
TE.5321	WF 10x with fixed pointer	4x, 10x, S60x	Abbe condenser, height adjustable
TE.5325	WF 10x with fixed pointer	10x and phase objectives S20x, S40x	Abbe condenser with phase annulus



# Optional accessories



## Eyepieces

- AE.5351 Huygens eyepiece 5x / field number 17
- AE.5064 Huygens eyepiece 6x / 18.5
- AE.5065 Huygens eyepiece 10x / 12.5
- AE.5066 Huygens eyepiece 15x / 8
- AE.5071 Wide field eyepiece WF 5x / 20
- AE.5072 Wide field eyepiece WF 10x / 18
- AE.5073 Wide field eyepiece WF 15x / 12
- AE.5087 Wide field eyepiece WF 16x / 10.5
- AE.5082 Wide field eyepiece WF 20x / 10
- AE.5081 Wide field eyepiece WF 10x / 18 with pointer
- AE.5360 Eyeshade suitable for all eyepieces

## Micrometers

- AE.5074 Micrometer wide field eyepiece WF 10x / 18, adjustable eye lens, scale 10 mm/100
- AE.5084 Micrometer wide field eyepiece WF 10x / 18, fixed eye lens, scale 10 mm/100
- AE.5075 Eyepiece micrometer scale 10 mm/100,  $\varnothing$  19 or 21 mm
- AE.5076 Eyepiece micrometer scale 10 mm/100 with cross hair,  $\varnothing$  19 or 21 mm
- AE.5077 Eyepiece scale with cross hair,  $\varnothing$  19 of 21 mm
- AE.5078 Eyepiece scale 10 x 10 mm, divided into 400 squares,  $\varnothing$  19 or 21 mm

When ordering, please mention the part number of the eyepiece

- AE.5110 Stage micrometer on glass slide 76 x 26 mm, 1 mm/100
- AE.5111 Stage micrometer on glass slide 76 x 26 mm, 2 mm/200

## Achromatic objectives, 35 mm parfocal length

- AE.5091 Objective 4x N.A. 0.10
- AE.5093 Objective 10x N.A. 0.25
- AE.5094 Objective S20x N.A. 0.40
- AE.5097 Objective S40x N.A. 0.65
- AE.5099 Objective S60x N.A. 0.85
- AE.5102 Objective S100x N.A. 1.25 oil-immersion

## Dark field disc to be inserted in the filter holder for objectives 10 - 40x

- AE.5171 Dark field diaphragm disc for microscopes TE.5300 and TE.5301
- AE.5172 Dark field diaphragm disc for microscopes SE.5225, SE.5275, TE.5320 and TE.5321

## Polarisation

- AE.5150 Polarisation set. The analyser is placed in the eyepiece and the polarizer is mounted in the filter holder
- AE.5153 Polarisation set for microscopes without mechanical stage. The analyser is placed on top on the eyepiece. The polariser is mounted in an attachable stage (90 x 65 mm). Rotating object holder with object clamps, graduation 360°, accuracy 5°
- AE.5155 Retardation filter set. Small plate of gypsum, red - 540  $\mu$ m - and mica - 140  $\mu$ m - to be used in combination with a polarising set

## Mechanical stages (attachable)

- AE.5173 Stable mechanical stage, range 50 x 30 mm, double Vernier 0.1 mm, horizontal control knobs
- AE.5176 Stable mechanical stage, range 65 x 25 mm, double Vernier 0.1 mm, vertical control knobs
- AE.5175 Large attachable mechanical stage with ball bearing, low-mounted coaxial control knobs, range 75 x 30 mm, double Vernier 0.1 mm

## Heating stages

- AE.5165 Attachable heating stage with adjustable temperature up to 45°C and adjustable power supply. Not to be used in combination with a mechanical stage
- AE.5166 Heating attachment with adjustable temperature up to 50°C and built-in digital thermometer. Only supplied in combination with the purchase of a microscope. Suitable for microscope TE.5325

## Sub stage microscope illuminators, to replace the mirror

- LE.5187 Sub stage microscope illuminator 230 Volts, 20 Watt with power cable and switch. Suitable for S-series, also available for 6, 12, 24 and 120 Volts\*
- LE.5387 Sub stage microscope illuminator 230 Volts, 20 Watt with power cable and switch. Suitable for T-series, also available for 6, 12, 24 and 120 Volts\*
- LE.5186 LED sub stage microscope illuminator with rechargeable batteries. Operating time app. 80 hrs. Suitable for S-series
- LE.5386 LED sub stage microscope illuminator with rechargeable batteries. Operating time app. 80 hrs. Suitable for T-series
- LE.5195 Battery charger for LED sub stage microscope illuminator

\* Standard 230 Volts. For other voltages, e.g. 120 Volts, please add -120 to the article number.

## Spare bulbs

- SL.5182 Spare bulb 230 Volts 20 Watt with reflector for sub stage microscope illuminator LE.5187, in case more light is needed\*
- SL.5189 Spare bulb 230 Volts 20 Watt, on request also available for 6, 12, 24 or 120 Volts\*

\* Standard 230 Volts. For other voltages, e.g. 120 Volts, please add -120 to the article number.

## Drawing attachment, filters etc.

- AE.5202 Blue filter – daylight filter, frosted,  $\varnothing$  32 mm
- AE.5207 Blue filter plexi-glass,  $\varnothing$  32 mm
- AE.5203 Yellow filter,  $\varnothing$  32 mm
- AE.5204 Neutral grey filter,  $\varnothing$  32 mm
- AE.5205 Green filter, frosted,  $\varnothing$  32 mm

## Cabinets for microscopes

- AE.5277 Cabinet with handle and lock for S-series microscopes
- AE.5349 Cabinet with handle and lock for T-series microscopes

#### Accessories for photography and- video cameras

AE.5061 Photo eyepiece PH 2.5 x/ 16

AE.5126 Adapter for SLR camera for T-series, to be used with AE.5061

AE.5127 Adapter for SLR camera for S-series, to be used with AE.5061

*On request we supply T2-adapters for AE.5126 and AE.5127 and adapters for digital photo cameras.*

*Please enquire for an overview of our camera range.*



#### Christiaan Huygens (1629 - 1695)

*Christiaan Huygens was a famous Dutchman for his invention of an improved type of 2-lens eyepiece (1703), now named after him.*

*Huygens also contributed significantly to physics: he established the idea of centrifugal forces and he developed his famous wave theory of light.*

*Huygens eyepieces are primarily used in the Euromex S-series and T-series.*



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