



Stage and objectives



Illumination unit

PROFESSIONAL LINE MET

The fully-equipped reflected and transmitted light microscope for numerous applications in metallurgy

Features

- This device is a professional, versatile, metallurgical microscope, which is used in testing metals and analysing surfaces
- The KERN OKO 178 is a combi variant of LED incident illumination and LED transmitted illumination. A height-adjustable 1.25 Abbe condenser which can be centred as well as a field diaphragm for complete professional Köhler illumination are part of the standard version
- An open, mechanical angle table is integrated as standard
- A simple polarising unit (analyser and polariser) is included with delivery

- A large selection of accessories, such as, for example, eyepieces and further objectives are available for longer working distances
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the following model outfit list.
- Please find detailed information in the following model outfit list

Scope of application

- Metallurgy, material testing, quality control

Applications/Samples

- Opaque and thick samples, workpieces (surfaces, fold lines, coatings)

Technical data

- Infinity optical system
- Siedentopf 30° inclined/360° rotatable
- Quintuple nosepiece
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 550×200×460 mm
- Net weight approx. 12 kg

STANDARD



Model	Tube	Eyepiece	Objective quality	Objectives	Illumination
KERN OKO 178	Trinocular	WF 10x/Ø 22 mm	Infinity semi apochromatic	5x / 10x / 20x / 50x	5 W LED (transmitted + incident)

Metallurgical Microscope KERN OKO-1

Model outfit		Model KERN	Order number
		OKO 178	
Eyepieces (30 mm)	HWF 10x/Ø 22 mm (adjustable)	✓	OBB-A1491
	HWF 10x/Ø 22 mm (reticule 0,1 mm) (adjustable)	✓	OBB-A1523
Infinity Plan Semi Apochromatic objectives for long working distance	5x/0,15 W.D. 15 mm	✓	OBB-A1619
	10x/0,3 W.D. 20 mm	✓	OBB-A1620
	20x/0,4 W.D. 15 mm	✓	OBB-A1621
	50x/0,75 W.D. 4,25 mm	✓	OBB-A1641
	100x/0,85 (dry) (spring-loaded) W.D. 3 mm	○	OBB-A1623
Infinity Plan objectives for long working distance	80x/0,8 (spring-loaded) W.D. 0,85 mm	○	OBB-A1530
Trinocular tube	· Siedentopf 30° inclined/360° rotatable · Interpupillary distance 48 mm – 76 mm · Light distribution 0:100	✓	OBB-A1599
Mechanical stage	· Stage size B×T 182×140 mm · Travel 77×52 mm · Coaxial coarse and fine focusing knobs	✓	
Condenser	Abbe N.A. 1,25 can be centred (aperture diaphragm)	✓	OBB-A1380
Reflected illumination unit	Incl. blue filter slider	✓	
Polarising unit	Incl. analyser and polariser for reflected and transmitted light	✓	
Colour filters for transmitted illumination	Blue	✓	OBB-A1170
	Green	○	OBB-A1188
	Yellow	○	OBB-A1165
	Grey	○	OBB-A1183
C-Mount	1x	○	OBB-A1514
	0,75x	○	OBB-A1590
	0,5x (focus adjustable)	○	OBB-A1515

✓ = included with the delivery

○ = Option

Further accessories and spare parts
see *internet*