KERN **OKO 178**

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

Date of creation: 15.11.2026

Category	
Brand	Optics
Product category	Microscope
Product group	Metallurgical microscope
Product family	OKO-1

Construction	
Dimension (W×D×H)	472×211×440 mm
Optical system	Infinity
Tube type	Trinocular
Tube angle of inclination	30°
Tube 360° rotation	✓
Tube type	Siedentopf
Light distribution	20:80 100:0
Contrasting methods	Bright field Polarisation
Standard objectives	5× 10× 20× 50×
Lens quality	Infinity semi apochromatic
Nosepiece screw-in locations	5
Interpupillary distance [Min]	50 mm
Interpupillary distance [Max]	75 mm
Diopter adjustment	both-sided
Diopter adjustment [Min]	-5
Diopter adjustment [Max]	5
Supported camera types	Microscope Camera
Colour temperature	5500 K

Ocular	
Ocular type	Eyepiece HWF 10x / Ø 22mm with anti-fungus, high eye point
Ocular field width	WF
Eye point	High Eye Point
Ocular magnifications	10x
Ocular visual field	22 mm
Ocular diameter	30 mm

Objective	
Objectives - Details	Objective Infinity Plan Semi Apochromatic 10x /... LWD Objective Infinity Plan Semi Apochromatic 20x /... LWD Objective Infinity Plan Semi Apochromatic 5x / ... LWD Objective Infinity Plan Semi Apochromatic 50x /... LWD
Objectives magnifications	5x / 10x / 20x / 50x

Illumination	
Illuminance	Reflected light Transmitted light
Illumination type incident light	LED
Illumination type transmitted light	LED
Illumination intensity incident light	5 W
Illumination intensity transmitted light	5 W
Illumination dimmable	Incident light + Transmitted light, separate
Koehler illumination	✓
Filter possible	✓
Field diaphragm	✓

80000	Mikroskoptisch	
Bauweise		mechanical
Weg		77 mm; 52 mm
Durchlicht möglich		✓
ATTR_microscopeTableSpecimentHolders		2

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ATTR_microscopeTableUser	Right-handed

Focussing

Field of view [Min]	0,18 mm
Field of view [Max]	3,6 mm
Torque regulation	✓
Fine drive minimum	0,002 mm
Focusing mechanism	coaxial coarse and fine drive

110000 | Polarisation

Polarisator	✓
Analysator	✓

Condensor

Condensor type	Abbe
Condenser - Mounting	centerable
Condenser - Aperture	1,25
Aperture diaphragm	✓

Camera

Camera - Adapter type	C-Mount

Power Supply

Supplied power supply	Power supply unit
Power supply type	Power adapter
Plug-in power supply / adapter for countries - included with the delivery	EURO
Plug-in power supply / adapter for countries - optional	AUS UK US CH
Input voltage power supply / power [Max]	100 V - 240 V AC 50/60 Hz 0,3 A
Power supply cable removable	removable
Input voltage device / power [Max]	5 V, 1 A
Power socket for mains adapter	Hollow plug, inside plus, Ø outside 5,5 mm, Ø inside 2,5 mm, long 10 mm

Environmental conditions

Storage temperature [Min]	-5 °C
Storage temperature [Max]	40 °C

Approval

CE mark	✓

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	520×470×450 mm
Shipping method	Parcel service
Net weight approx.	11 kg
Gross weight approx.	13 kg
Shipping weight	22 kg
Shipping volume weight	22 kg

Product information

GTIN/EAN number	4045761490031
Trade number	90118000
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD