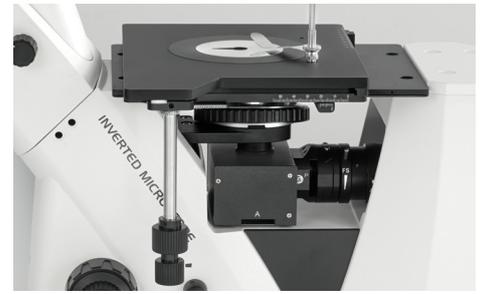




OLM 171



OLM 170



Specimen stage and illumination unit (OLM 171)



Analyser/Polariser

LAB LINE MET

The inverted metallurgical microscope for professional applications

Features

- The KERN OLM range is part of the range of inverted microscopes and stands out through its design which is ergonomic, robust and extremely stable. This range, with its large working distance is, for example, particularly suitable for surface quality testing of raw materials and finished products in industry
- Depending on the application, you can choose from models with a powerful, continuously dimmable 5W LED or a 50W halogen incident light illumination, which ensure optimum illumination of the materials to be tested
- As standard, the OLM range is fitted with a trinocular eyepiece tube
- A simple polarising unit (analyser and polariser) is included with delivery

- The compact design of the OLM 170 means that handling is even easier and more flexible for the user, so this model can also be considered for mobile applications. In the same way, the pre-installed C-Mount Adapter (on the back of the microscope) also makes operation easier, as connecting the camera is even easier
- Further options such as, for example, a large selection of objectives can be integrated as accessories
- A dust cover as well as user instructions are included with the delivery
- Please find detailed information in the following model outfit list

Scope of application

- Metallurgy, material testing, quality assurance

Applications/Samples

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

Technical data

- Infinity optical system

OLM 170

- 4-fold lens revolving unit
- Butterfly 45° angled
- Diopter adjustment: one-sided
- Overall dimensions W×D×H 470×240×330 mm
- Net weight approx. 7 kg

OLM 171

- 5-fold lens revolving unit
- Siedentopf 30° inclined
- Diopter adjustment: both-sided
- Overall dimensions W×D×H 271×379×747 mm
- Net weight approx. 12,5 kg

STANDARD



Model

Standard configuration

	Tube	Eyepiece	Objective quality	Objectives	Illumination
KERN					
OLM 170	Trinocular	HWF 10×/φ 20 mm	Infinity Plan	LWD5×/LWD10×/ LWD20×/LWD50×	5W LED (incident)
OLM 171	Trinocular	HWF 10×/φ 22 mm	Semi Apochromatic		50W Halogen (incident)

Metallurgical Inverted Microscope KERN OLM-1

Model outfit		Model KERN		Order number
		OLM 170	OLM 171	
Eyepieces (23,2 mm)	HWF 10×/∅ 20 mm	✓		OBB-A1404
	WF 10×/∅ 20 mm (reticule 0,1 mm) (adjustable)	✓		OBB-A1352
Eyepieces (30 mm)	HWF 10×/∅ 22 mm (adjustable)		✓	OBB-A1491
	HWF 10×/∅ 22 mm (reticule 0,1 mm) (adjustable)		✓	OBB-A1523
Infinity Plan achromatic objectives for long working distance	5×/0,13 W.D. 16,04 mm	✓	○	OBB-A1525
	10×/0,25 W.D. 18,48 mm	✓	○	OBB-A1526
	20×/0,40 W.D. 8,35 mm	✓	○	OBB-A1527
	50×/0,70 (spring-loaded) W.D. 1,95 mm	✓	○	OBB-A1528
	80×/0,80 (spring-loaded) W.D. 0,85 mm	○	○	OBB-A1530
Infinity Plan Semi Apochromatic objectives for long working distance	5×/0,15 W.D. 21 mm		✓	OBB-A1619
	10×/0,30 W.D. 20 mm		✓	OBB-A1620
	20×/0,40 W.D. 15 mm	○	✓	OBB-A1621
	50×/0,55 W.D. 10 mm		✓	OBB-A1622
	100×/0,85 (dry) W.D. 3,00 mm		○	OBB-A1623
Trinocular tube	<ul style="list-style-type: none"> • Butterfly 45° inclined • Interpupillary distance 48-76 mm • Light distribution 20:80 • Diopter adjustment: One-sided 	✓		
	<ul style="list-style-type: none"> • Siedentopf 30° inclined • Interpupillary distance 48-76 mm • Light distribution 100:0 • Diopter adjustment: Both-sided 		✓	
Mechanical stage	<ul style="list-style-type: none"> • Stage size B×T 155×180 mm • Travel 75×40 mm • Coaxial coarse and fine focusing knobs 	✓		
	<ul style="list-style-type: none"> • Stage size W×D 210×180 mm • Travel 50×50 mm • Coaxial coarse and fine focusing knobs 		✓	
Illumination	5 W LED spare bulb (incident)	✓		OBB-A1589
Illumination	50 W Halogen spare bulb (incident)		✓	OBB-A1207
Reflected illumination unit	Polarising unit (Incl. analyser, polariser and colour filter slide)	✓	✓	
Colour filters for transmitted illumination	Blue		✓	OBB-A1510
	Green		○	OBB-A1511
	Yellow		○	OBB-A1512
	Grey	✓	○	OBB-A1513
C-Mount	0,5× (built-in)	✓		
	0,5×		○	OBB-A1515
	1×		○	OBB-A1514

✓ = Included with delivery

○ = Option