



OLM 171



OLM 170



Specimen stage and illumination unit



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
- A large mechanical stage is included with delivery as standard. The coarse and fine focusing knob on both sides guarantees optimal adjustment and focusing.

- 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° inclined
- Diopter adjustment, one-sided
- Overall dimensions W×D×H 470×240×330 mm
- Net weight approx. 7 kg

OLM 171

- Quintuple nosepiece
- Siedentopf 30° inclined
- Diopter adjustment, both-sided
- Overall dimensions W×D×H 747×271×379 mm
- Net weight approx. 13 kg

STANDARD



Model	Tube	Eyepiece	Objective quality	Objectives	Illumination
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KERN

OLM 170	Trinocular	HWF 10x/Ø 20 mm	Infinity Plan	5x / 10x / 20x / 50x	5 W LED (incident)
OLM 171	Trinocular	HWF 10x/Ø 22 mm	Semi Apochromatic	5x / 10x / 20x / 50x	50 W Halogen (incident)

Metallurgical Inverted Microscope KERN OLM-1

Model outfit	Model KERN		Order number
	OLM 170	OLM 171	
Eyepieces (23,2 mm)	HWF 10x/Ø 20 mm	✓	OBB-A1404
	WF 10x/Ø 20 mm (reticule 0,1 mm) (adjustable)	✓	OBB-A1352
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 achromatic objectives for long working distance	5x/0,15 W.D. 24,23 mm	✓	○ OBB-A1525
	10x/0,25 W.D. 18,48 mm	✓	○ OBB-A1526
	20x/0,4 W.D. 8,35 mm	✓	○ OBB-A1527
	50x/0,75 (spring-loaded) W.D. 1,95 mm	✓	○ OBB-A1528
	80x/0,8 (spring-loaded) W.D. 0,85 mm	○	○ OBB-A1530
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/0,55 W.D. 10 mm		✓ OBB-A1622
	100x/0,85 (dry) (spring-loaded) W.D. 3 mm		○ OBB-A1623
Trinocular tube	· Butterfly 30° inclined · Interpupillary distance 48 mm – 76 mm · Light distribution 20:80 · Diopter adjustment: One-sided	✓	
	· Siedentopf 30° inclined · Interpupillary distance 48 mm – 76 mm · Light distribution 100:0 · Diopter adjustment: Both-sided		✓
Mechanical stage	· Stage size B×T 155×180 mm · Travel 75×40 mm · Coaxial coarse and fine focusing knobs	✓	
	· Stage size B×T 210×180 mm · Travel 50×50 mm · Coaxial coarse and fine focusing knobs		✓
Reflected illumination unit	Incl. blue filter slider	✓	✓
Polarising unit	Incl. analyser and polariser	✓	✓
Colour filters	Blue		✓ OBB-A1510
	Green		○ OBB-A1511
	Yellow		○ OBB-A1512
	Grey	✓	○ OBB-A1513
C-Mount	0,5x (built-in)	✓	
	1x		○ OBB-A1514
	0,5x (focus adjustable)		○ OBB-A1515

✓ = included with the delivery

○ = Option

Further accessories and spare parts
see *internet*