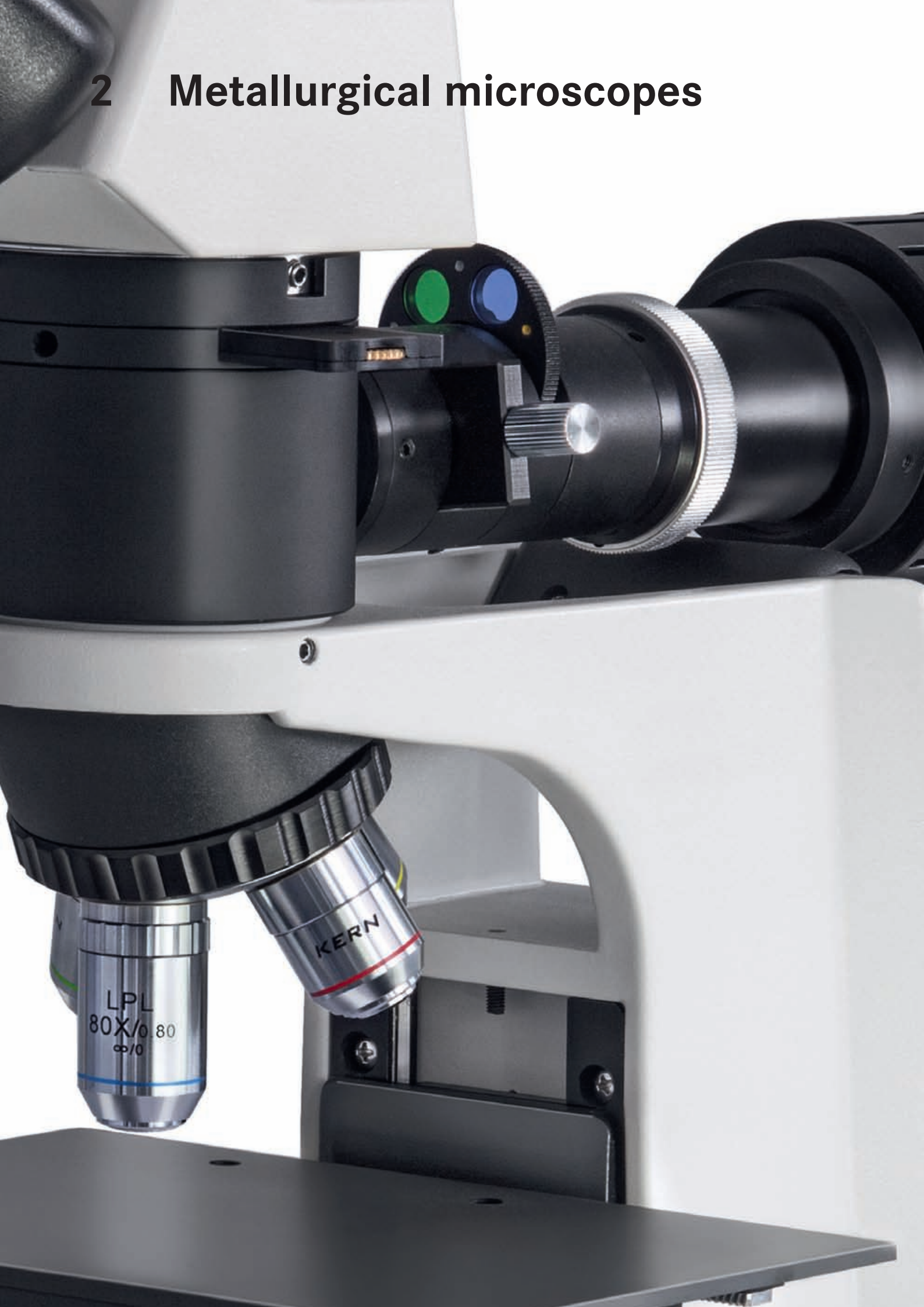


2 Metallurgical microscopes



Metallurgical microscope KERN OKM-1



Illumination unit with filter disc



Stage and objectives

2

LAB LINE MET

The metallurgical model for the experienced user

Features

- The KERN OKM-1 is an excellent and stable metallurgical reflecting light microscope.
- It is suitable for all common routine applications, producing excellent images thanks to its strong 30 W halogen illumination.
- These microscopes are equipped with infinity corrected, plan achromatic objectives as standard.
- A trinocular head is optionally available, allowing a camera to be fitted.
- A nosepiece for up to four objectives and a large stage are provided as standard.
- The following optional accessories are available: A variety of lenses, LWD objectives for long working distances, plus a complete polarisation kit and more.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism.

Technical data

- Eyepieces: WF 10x18 mm
- Objectives: 5x / 10x and LWD 20x / 40x
- Overall dimensions
WxDxH 240x170x400 mm
- Net weight basic configuration approx. 8 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration			Price excl. of VAT ex works €
	Optical system	Tube	Illumination	
KERN OKM 172	Infinity	Binocular	6V / 30W Halogen (reflecting)	1950,-

Metallurgical microscope KERN OKM-1

Model outfit		Model KERN	Order number	Price excl. of VAT ex works €
		OKM 172		
Eyepieces	WF 10x / Ø 18 mm	●	OBB-A1347	55,-
	WF 10x / Ø 18 mm (reticule 0,1 mm) (non-adjustable)	●	OBB-A1349	80,-
	WF 5x / Ø 20 mm	○	OBB-A1355	70,-
	WF 12,5x / Ø 14 mm	○	OBB-A1353	85,-
	WF 16x / Ø 13 mm	○	OBB-A1354	55,-
Infinity Plan achromatic objectives (no cover glass)	5x / 0,11 W.D. 12,10 mm	●	OBB-A1268	110,-
	10x / 0,25 W.D. 4,75 mm	●	OBB-A1244	190,-
	20x / 0,40 (spring) W.D. 2,14 mm	○	OBB-A1251	260,-
	40x / 0,65 (spring) W.D. 0,45 mm	○	OBB-A1258	280,-
Infinity Plan achromatic objectives (no cover glass) for long working distance	20x / 0,40 (spring) W.D. 8,35 mm	●	OBB-A1252	290,-
	40x / 0,65 (spring) W.D. 3,90 mm	●	OBB-A1259	415,-
	50x / 0,70 (spring) W.D. 1,95 mm	○	OBB-A1266	460,-
	80x / 0,80 (spring) W.D. 0,85 mm	○	OBB-A1271	510,-
Binocular tube	<ul style="list-style-type: none"> • Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm • With diopter adjustment (one-sided) 	●	OBB-A1130	260,-
Trinocular tube	<ul style="list-style-type: none"> • Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm • Light distribution: 80:20 • With diopter adjustment (one-sided) 	○	OBB-A1346	370,-
Nosepiece	Quadplex	●		
Mechanical stage	<ul style="list-style-type: none"> • Stage size: WxD 200x140 mm • Travel: 76x52 mm • Coaxial coarse and fine focusing knobs 	●		
Illumination	6V / 30W Halogen spare bulb (reflecting)	●	OBB-A1372	30,-
Filter unit	5-filter unit (Blue, Green, Amber, Grey, Empty)	●		
Polarising unit	Analyser / Polariser	●		
C-Mount	1x	○	OBB-A1142	115,-
	0,47x (focus adjustable)	○	OBB-A1135	160,-

● = Standard configuration

○ = Option



Stage OKN



Stage OKO



Illumination unit

PROFESSIONAL LINE MET

The metallurgical model for the flexible and professional user

Features

- The KERN OKN-1 and OKO-1 microscope series are metallurgical microscopes for professional applications.
- They are available with two illumination systems: Standard halogen illumination (50 W) and premium illumination (100 W). They are both suitable for all common routine applications and produce impressive images.
- Additional transmitted light halogen illumination is available for some models.
- These microscope models are equipped with infinity corrected, plan achromatic objectives as standard.
- A nosepiece for up to 5 objectives, a large stage and a complete polarisation kit are standard on the OKN and OKO models.
- The transmitted light models equipped with Koehler illumination have an additional centerable and height adjustable Abbe condenser and an adjustable aperture diaphragm.
- These binocular microscopes are equipped with diopter adjustment and are available with a variety of eyepieces.
- A trinocular head is optionally available, allowing a camera to be fitted.
- The following optional accessories are available: A variety of eyepieces, LWD objectives for long working distances and more.
- One of the central features of this highly variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Eyepieces: 3x WF 10x18 mm
- Objectives: 5x / 10x / (100x) and LWD 20x / 40x
- Overall dimensions WxDxH 306x200x448 mm
- Net weight basic configuration approx. 12 kg

Please find detailed information in the following charts.

STANDARD



OPTION



Model	Standard configuration			Price excl. of VAT ex works €
	Optical system	Tube	Illumination	
KERN OKN 175	Infinity	Binocular	12V / 50W Halogen (reflecting)	2380,-
OKO 176	Infinity	Binocular	12V / 50W Halogen (reflecting) + 6V / 20W (transmitting)	2960,-
OKN 177	Infinity	Binocular	12V / 100W Halogen (reflecting)	2600,-
OKO 178	Infinity	Binocular	12V / 100W Halogen (reflecting) + 6V / 20W (transmitting)	3180,-

Metallurgical microscopes KERN OKN-1 · OKO-1

Model outfit		Model KERN				Order number	Price excl. of VAT ex works €
		OKN 175	OKO 176	OKN 177	OKO 178		
Eyepieces	WF 10x / Ø 18 mm	●●	●●	●●	●●	OBB-A1347	55,-
	WF 10x / Ø 18 mm (reticule 0,1 mm) (adjustable)	●	●	●	●	OBB-A1350	100,-
	WF 5x / Ø 20 mm	○○	○○	○○	○○	OBB-A1355	70,-
	WF12,5x / Ø 14 mm	○○	○○	○○	○○	OBB-A1353	85,-
Infinity Plan objectives (no cover glass)	5x / 0,11 W.D. 6,73 mm	●	●	●	●	OBB-A1268	110,-
	10x / 0,25 W.D. 4,19 mm	●	●	●	●	OBB-A1244	190,-
	20x / 0,40 (spring) W.D. 2,14 mm	○	○	○	○	OBB-A1251	260,-
	40x / 0,65 (spring) W.D. 0,45 mm	○	○	○	○	OBB-A1258	280,-
	100x / 1,25 (oil) (spring) W.D. 0,12 mm	○	●	○	●	OBB-A1241	320,-
Infinity Plan objectives Infinity (no cover glass) for long working distance	20x / 0,40 (spring) W.D. 8,35 mm	●	●	●	●	OBB-A1252	290,-
	40x / 0,65 (spring) W.D. 3,90 mm	●	●	●	●	OBB-A1259	415,-
	50x / 0,70 (spring) W.D. 1,95 mm	○	○	○	○	OBB-A1266	460,-
	80x / 0,80 (spring) W.D. 0,85 mm	○	○	○	○	OBB-A1271	510,-
Binocular tube	<ul style="list-style-type: none"> • Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm • With diopter adjustment (both-sided) 	●	●	●	●	OBB-A1125	260,-
Trinocular tube	<ul style="list-style-type: none"> • Siedentopf, 30° inclined, 360° rotatable • Interpupillary distance: 50 – 75 mm • Light distribution: 100:0 • With diopter adjustment (both-sided) 	○	○	○	○	OBB-A1344	420,-
Nosepiece	Quintuple	●	●	●	●		
Mechanical stage for reflection	<ul style="list-style-type: none"> • Stage size: WxD 200x140 mm • Travel: 78x55 mm • Stage fast lowering unit • Stage Up-Down moving range: max. 50 mm 	●		●			
Mechanical stage for transmission	<ul style="list-style-type: none"> • Stage size: WxD 175x145 mm • Travel: 78x55 mm • Coaxial coarse and fine focusing knobs 		●		●		
Stage plate	Plate for sample placement	●	●	●	●		
Glass plate	Glass plate		○		○	OBB-A1378	40,-
Clip	Clip		●		●	OBB-A1134	55,-
Stage micrometer	Specimen slide with scale reticule 0,01 mm	○	○	○	○	OBB-A1224	70,-
Polarising unit	Reflective light unit with polarising / Analyser slide	●	●	●	●		
Condenser	Abbe N.A. 1,25 (aperture diaphragm)		●		●	OBB-A1380	90,-
Illumination	6V / 20W Halogen spare bulb (transmitting)		●		●	OBB-A1370	30,-
	12V / 50W Halogen spare bulb (reflecting)	●	●			OBB-A1207	35,-
	12V / 100W Halogen spare bulb (reflecting)			●	●	OBB-A1377	35,-
Field diaphragm	Field diaphragm		●		●		
Filter	Blue	○	●	○	●	OBB-A1176	30,-
	Green	○	○	○	○	OBB-A1192	30,-
	Yellow	○	○	○	○	OBB-A1202	30,-
C-Mount	1x	○	○	○	○	OBB-A1361	120,-
	0,57x (focus adjustable)	○	○	○	○	OBB-A1136	160,-

● = Standard configuration

○ = Option



EDUCATIONAL LINE MET

The robust inverted metallurgical model for your training establishment or workshops

Features

- The KERN OLE-1 and OLF-1 are very easy to use, stable, inverted metallurgical microscopes.
- They are suitable for all common routine applications in training establishments or workshops and produce impressive images.
- Available as mono- or binocular models with a variety of eyepieces.
- These microscopes are equipped with plan achromatic objectives as standard.
- A nosepiece for up to 4 objectives and a large stage are also provided as standard.

- The following optional accessories are available: LWD-objectives for a long working distance as well as various stage inlays and more.
- A powerful 3W LED is available as illumination source.
- One of the central features of this variable and simultaneously robust series of microscopes is the stable and precisely adjustable mechanism. This is underlined by the functional and ergonomic design.

Technical data

- Eyepieces: WF 10x18 mm
- Objectives: 10x / 20x / 40x
- Overall dimensions WxDxH 240x170x311 mm
- Net weight basic configuration approx. 7 kg

Please find detailed information in the following charts.

STANDARD

MONO
 BINO
 LED
 230 V
 1 DAY
 3 YEARS WARRANTY

OPTION

SCALE

Model	Standard configuration			Price excl. of VAT ex works €
	Optical system	Tube	Illumination	
KERN				
OLE 161	Achromatic	Monocular	3W LED (reflecting)	1360,-
OLF 162	Achromatic	Binocular	3W LED (reflecting)	1460,-

Metallurgical inverted microscopes KERN OLE-1 · OLF-1

Model outfit		Model KERN		Order number	Price excl. of VAT ex works €
		OLE 161	OLF 162		
Eyepieces	WF 10x / Ø 18 mm	●	●●	OBB-A1347	55,-
	WF 12,5x / Ø14 mm	○	○○	OBB-A1353	85,-
	WF 16x / Ø 13 mm	○	○○	OBB-A1354	55,-
	WF 5x / Ø 20 mm	○	○○	OBB-A1355	70,-
	WF 10x / Ø 18 mm (reticule 0,1 mm) (non-adjustable)	○	○○	OBB-A1349	80,-
Plan achromatic objectives	Plan 10x / 0,25	●	●	OBB-A1246	140,-
	Plan 20x / 0,35 (spring)	●	●	OBB-A1253	220,-
	Plan 40x / 0,65 (spring)	●	●	OBB-A1261	220,-
	Plan 100x / 1,25 (spring) (oil)	○	○	OBB-A1242	240,-
	Plan 4x / 0,10	○	○	OBB-A1265	120,-
Infinity Plan achromatic objectives for LWD	PL L 40x / 0,60 W.D. 3,64 mm	○	○	OBB-A1262	420,-
	PL L 50x / 0,70 W.D. 3,01 mm	○	○	OBB-A1267	420,-
	PL L 80x / 0,80 (spring) W.D. 1,08 mm	○	○	OBB-A1272	470,-
Monocular tube	45° inclined	●		OBB-A1228	105,-
Binocular tube	· 45° inclined · With diopter adjustment (one-sided)		●	OBB-A1128	220,-
Nosepiece	Quadplex	●	●		
Mechanical stage	· Stage size: WxD 180x180 mm · Travel: 50x40 mm	●	●		
Extra stage plate	1 (opening Ø 10 mm)	●	●	OBB-A1322	60,-
	2 (opening Ø 20 mm)	●	●	OBB-A1323	60,-
	3 (opening Ø 40 mm)	○	○	OBB-A1324	60,-
Illumination	3W LED illumination system (reflecting)	●	●		
Filter	Blue	●	●	OBB-A1174	30,-
	Green	●	●	OBB-A1190	30,-
	Grey	●	●	OBB-A1184	30,-
Stage micrometer	Specimen slide with scale 0,01 mm	○	○	OBB-A1224	70,-

● = Standard configuration

○ = Option