

# KERN OLM 171



The inverted metallurgical microscope for professional applications



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

| Construction                  |                              |
|-------------------------------|------------------------------|
| Dimension (W×D×H)             | 747×271×379 mm               |
| Optical system                | Infinity                     |
| Tube type                     | Trinocular                   |
| Tube angle of inclination     | 45°                          |
| Tube type                     | Siedentopf                   |
| Light distribution            | 0:100                        |
| Contrasting methods           | Bright field<br>Polarisation |
| Nosepiece screw-in locations  | 5                            |
| Interpupillary distance [Min] | 48 mm                        |
| Interpupillary distance [Max] | 76 mm                        |
| Diopter adjustment            | both-sided                   |
| Diopter adjustment [Min]      | -5                           |
| Diopter adjustment [Max]      | 5                            |

| Ocular                |                                                            |
|-----------------------|------------------------------------------------------------|
| Ocular type           | Eyepiece HWF 10x / Ø 22mm with anti-fungus, high eye point |
| Ocular field width    | HWF                                                        |
| 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 |
| Illumination type incident light      | Halogen         |
| Illumination intensity incident light | 50 W            |
| Illumination dimmable                 | Incident light  |
| Filter possible                       | ✓               |
| Aperture diaphragm                    | ✓               |
| Field diaphragm                       | ✓               |
| Brand of light bulb                   | Philips         |

| Focussing           |                               |
|---------------------|-------------------------------|
| Field of view [Min] | 0,44 mm                       |
| Field of view [Max] | 4,4 mm                        |
| Torque regulation   | ✓                             |
| Fine drive minimum  | 0,002 mm                      |
| Focusing mechanism  | coaxial coarse and fine drive |

| Condensor      |          |
|----------------|----------|
| Condensor type | Standard |

| Power Supply                                                              |                       |
|---------------------------------------------------------------------------|-----------------------|
| Supplied power supply                                                     | Power supply unit     |
| Power supply type                                                         | Built-in power supply |
| Plug-in power supply / adapter for countries - included with the delivery | EURO                  |
| Plug-in power supply / adapter for countries - optional                   | AUS<br>UK<br>US<br>CH |
| Input voltage power supply / power [Max]                                  | 100 - 240 V           |
| Power supply cable removable                                              | removable             |

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|                                    |                    |
|------------------------------------|--------------------|
| Input voltage device / power [Max] | 100 - 240 V        |
| Power socket for mains adapter     | Power supply cable |

## 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) | 660×610×350 mm |
| Shipping method              | Parcel service |
| Net weight approx.           | 13 kg          |
| Gross weight approx.         | 17 kg          |
| Shipping weight              | 28,2 kg        |

## Product information

|                      |                          |
|----------------------|--------------------------|
| GTIN/EAN number      | 4045761267602            |
| Trade number         | 90118000                 |
| REACH classification | no prohibited substances |

## Pictograms

### STANDARD

