

NEOMET INVERTED METALLURGICAL MATERIALS MICROSCOPE



POPULAR... Time-tested inverted design with features often found on larger metallographs such as large mechanical stage, widefield eyepieces and plan-achromatic objectives.

TOP QUALITY OPTICAL SYSTEMS... Gives clear, glare free images. All optics and prisms are anti-reflection coated. In addition, the built-in plane glass reflector is treated with a special film to increase the intensity of the final image.

EASY TO OPERATE... High inverted design makes it more convenient to use and to add accessories such as cameras and measuring devices.

Stand: Modern inverted design with built-in base transformer and variable light intensity control to operate tungsten 8 volt 15 watt flat filament bulb grounded 3 wire line cord, connectors, and fuse holder for 117V, AC operation.

Built-In Mechanical Stage: 150x160mm with 30x30mm orthogonal motions with low-positioned coaxial controls. Calibration read to 0.1mm by vernier. Rotatable stage plate graduated in degrees. Two additional stage insert plates with different sized apertures.

Built-In Camera Mechanism: Photographic deviating prism system to direct light to the camera coupling sleeve in the microscope base. Path selector slideway to choose between visual observation and photography.

Optics: Revolving nosepiece with coated, parfocal objectives. Choice of Achromatic Set M5X (N.A. 0.10), M10X (N.A. 0.25), M20X (N.A. 0.45); and M40X (N.A. 0.65); or Planachromatic Flatfield Set: MF5X (N.A. 0.12), MF10X (N.A. 0.25), MF20X (N.A. 0.40), and MF40X (N.A. 0.65). Coated NWF10X high eyepoint widefield eyepieces (to accept reticles and with focusing eyelens), with eyeguards.

Other Equipment: Vertical illuminating system with coated plane glass reflector, filter slot; 2 filters; polarizer and analyzer, photo finder reticle; large stage clip; plastic dustcover.

Refer to Price List for detailed listing of all models available.

Neomet Standard Specification Chart

MODEL	MCB-1	MCB-2
Objectives designed for use at 170mm tube length	MF5X Plan N.A. 0.12 WD 7.5mm MF10X Plan N.A. 0.25 WD 6.18mm MF20X Plan N.A. 0.40 WD 2.10mm MF40X Plan N.A. 0.65 WD 0.34mm	M5X Ach N.A. 0.10 WD 11.60mm M10X Ach N.A. 0.25 WD 6.6mm M20X Ach N.A. 0.45 WD 1.65mm M40X Ach N.A. 0.65 WD 0.40mm
Eyepieces widefield focusable with Reticle cell	BINWF10X (Pair with eyeguards)	
Magnification 1X Factor	50X to 400X	
Body Tube Binocular	Siedentopf Type assures constant magnification with interpupillary and dioptic adjustments.	
Illuminator	Brightfield vertical with built-in base transformer and variable light intensity control to operate 8V 15W tungsten bulb type EL-38	
Focus Controls	Dual low position controls	
Stage	Built-in mechanical 150x160mm with 30x30mm orthogonal motions with low-positioned coaxial controls. Rotatable stage plate graduated in degrees. Two additional stage plates with different size aperture.	
Photo-Mechanism	Optical path selector (on slider mount) for visual and camera port operation. Will accept 35mm, Polaroid, or CCTV accessories	
Other Equipment	2 filters, blue and green, polarizer and analyzer, photo finder reticle, large stage clip and plastic dustcover	

Optional Accessories:

Cameras: 15544 Polaroid 3-1/4"x4-1/4" Camera F/Camera Port
4100A Polaroid 3"x4" SLR MicroCam Automatic Eyetube Camera
15551 MC-35 35mm Camera System
15523 TV Adapter
21006 CCTV Color System
21007 CCTV Black and White System

Objectives: 15660 M3X Achromatic
15667 M100X Oil Achromatic
15674 MF80X Plan
Set of Superplan consisting of:
15786 Plan M10X
15787 Plan M20X
15788 Plan M40X
15792 Plan M100X

Replacement: 15762 EL-38 Tungsten 8V 15W

Measuring: 15447 Monocular body w/drawtube (F/measuring Eyepieces)
15503 FWE 10X widefield flar micrometer eyepiece
15533 FWM 10X metric widefield flar micrometer eyepiece
15719 LIMS (0.1mm) micrometer reticle
15721 L2MS (0.05mm) micrometer reticle
15723 L3ES (0.01") micrometer reticle
15537 S10S Austenite grainsize reticle
15553 ASME Stage micrometer inch scale
15554 ASMM Stage micrometer metric scale
15553P ASMM Stage micrometer inch scale Traceable to NIST
15554P ASMM Stage micrometer metric Traceable to NIST

Eyepieces: 15547 WFH15X widefield, single
15548 BIWFH15X widefield, paired
15574 WF20XR widefield, single
15715 BIWF20XR widefield, paired
15536 EGT Austenite 10X grainsize turret
15563 EAG-WF Austenite 10X grainsize