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METALLURGICAL INVERTED MICROSCOPE AZA1016

The AZA1016 Metallurgical Inverted Microscope is a high-precision optical instrument specifically engineered for the examination of opaque materials. Its inverted configuration enables direct placement of large, or irregular specimens on the stage, eliminating the need for complex sample preparation such as sectioning or mounting.

Designed for industrial and laboratory environments, the AZA1016 ensures stable imaging, superior illumination, and accurate microstructural analysis, making it an indispensable tool for metallurgical investigations and quality control.

Key Features

- Infinity-corrected Long Working Distance (LWD) metallurgical objectives
- Brightfield observation with provision for:
 1. Darkfield
 2. Polarized light
 3. Differential Interference Contrast (DIC)
- Integrated Epi-illumination system (LED / Halogen options)
- 45° inclined Binocular / Trinocular viewing head for operator comfort
- Wide-field, anti-fungal coated eyepieces for durability in humid environments
- Smooth coaxial coarse and fine focusing mechanism
 - Precision quadruple / quintuple revolving nosepiece
 - Built-in contrast enhancement filters (green & blue)
 - Robust die-cast aluminium body for vibration-free performance





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TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA1016
Type	Inverted Metallurgical Microscope
Observation Head	Binocular / Trinocular, 45° inclined
Eyepieces	WF10x, FOV 20 / 22 mm
Objectives	LWD Plan Achromatic: 4x, 10x, 20x, 40x, 50x, 100x
Total Magnification	20x – 1000x
Nosepiece	Quadruple / Quintuple revolving
Stage Size	Approx. 172 × 142 mm
Stage Travel	Approx. 30 × 30 mm
Fine Focus Resolution	0.002 mm (2 μm)
Illumination	Built-in Epi, LED / 12V–50W Halogen
Filters	Green & Blue, provision for polarizer
Construction	Die-cast Aluminium stand
Power Supply	220–240V AC, 50/60 Hz