



Model:

**B-383MET**

Typology:

**UPRIGHT METALLURGICAL MICROSCOPE**

**Description:**

*Metallurgical microscope for routine and educational laboratory applications. Dye-cast frame, with high stability and ergonomics, for transmitted light and incident light observation.*

<b>Illumination</b>	<p><u>Transmitted light:</u> Light source X-LED<sup>3</sup>; light intensity control using a knob on left side of the frame. LED power 3.6W, comparable to a 50W halogen bulb. Color temperature: 6300K LED average lifetime: approx. 50000h.</p> <p><u>Incident light:</u> Light source X-LED<sup>3</sup>; light intensity control using a knob on left side of the frame. LED power: 3.6W. Color temperature: 6300K LED average lifetime: approx. 50.000h. The illuminator is provided with field and aperture diaphragms, polarizer &amp; analyzer filters.</p> <p>Input Voltage: 110/230Vac, 50/60Hz. Max power required: 7W</p>
<b>Observation modes</b>	<p>Brightfield (incident and transmitted light), simple polarization (incident light).</p>
<b>Focusing</b>	<p>Coaxial coarse and fine focusing mechanism (graduated, 0.002mm) with upper stop, to prevent the contact between objective and specimen. Adjustable tension of coarse focusing knob.</p>
<b>Stage</b>	<p>Double layer mechanical sliding stage, dimensions 216x150mm, moving range 78x54mm. Belt-drive in X direction. Glass insert for sample support. Vernier scale on the two axes, accuracy 0,1 mm.</p>
<b>Nosepiece</b>	<p>Quintuple revolving nosepiece, rotation on ball bearings.</p>
<b>Head</b>	<p>Trinocular observation head, inclined 30° and rotatable 360°. Diopter adjustment on both eyepieces. Interpupillary adjustment 48-75 mm. Fixed photo port, 50/50 ratio.</p>
<b>Eyepieces</b>	<p>Widefield eyepieces WF10X/20 with field number 20.</p>
<b>Objectives</b>	<p>PLAN IOS MET (infinity-corrected, no cover slide) objectives, made by: -) IOS 4X, N.A. 0,10, W.D. 17,3 mm -) IOS 10X, N.A. 0,25, W.D. 10 mm -) IOS 20x, N.A. 0,40, W.D. 5,8 mm -) IOS 50X, N.A. 0,75, W.D. 0,32 mm Field Number: 24mm All objectives are treated with an anti-fungus treatment.</p>
<b>Condenser</b>	<p>Abbe condenser, sliding-in, N.A. 1,25 with centering system.</p>
<b>Dimensions</b>	<p>HEIGHT: 480 mm (without attachment) / 580 mm (with attachment) WIDTH: 210 mm DEPTH: 370 mm WEIGHT: 5 kg</p>
<b>Accessories</b>	<p>Instruction manual and dust cover included.</p>