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Product Name :

Research Inverted Metallurgical Microscope

Product Code :

SLE/M/40



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Description :

Research Inverted Metallurgical Microscope (Product Code: SLE/M/40) is an invertedreflected-light microscope used to examine polished and etched metal specimens in metallurgy,materials science and engineering laboratories. Its objectives look up at the specimen from belowa 150 x 200 mm stage, and Koehler illumination from a 6 V 20 W halogen lamp gives evenlighting. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India,a laboratory equipment exporter from India.

Specifications

Parameter	Detail
Observation head	Binocular, with eyepiece tube, inclined at 30°
Interpupillary distance	55 to 75 mm
Eyepiece	10x (16 mm)
Objectives	PL10x, PL25x, PL40x; PL60x optional
Nosepiece	Quadruple, revolving on ball bearing
Mechanical stage	Co-axial, 150 x 200 mm, cross travel 15 x 15 mm
Illumination	Koehler illumination system, 6 V 20 W halogen lamp, adjustable brightness
Focusing	Co-axial focusing control knobs, tension adjustment ring andpre-focusing lock
Main body	All parts die-cast for long life and mechanical strength
Product code	SLE/M/40
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Inverted Metallurgical Microscope Used For?

Metals are opaque, so their structure is studied with light reflected from a polished and etched surface. Students use this microscope to see grain boundaries, phases such as ferrite and pearlite, inclusions, porosity and weld zones, and to compare heat-treated samples in a materials science practical.

Because the objectives sit under the stage, the prepared face of the specimen simply rests downward on the stage plate. Samples of different heights, including mounted pucks and small cut sections, stay in the same focal plane without levelling in plasticine. Start with the PL10x objective to find the area, then move to PL25x or PL40x for detail, and use the 15 x 15 mm cross travel to scan the surface systematically.

What to Specify When Ordering

- Whether the optional PL60x objective is required
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Man

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