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Phone: +91-7082934803

Product Name :

Toolmaker Microscope

Product Code :

SLE/M/35



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Description :

Toolmaker Microscope (Product Code: SLE/M/35) is an optical measuring microscope used to measure angles, thickness, radius, diameter and similar dimensions of small components in engineering metrology and workshop laboratories. It combines 30x viewing with a 150 x 150 mm X-Y measuring stage read by micrometers to 0.01 mm or 0.005 mm. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, among its test and measurement instruments in India.

Specifications

Parameter	Detail
Measurements	Angles, thickness, radius, diameter and similar dimensions
Magnification	30x (2x objective with 15x eyepiece)
Field of view	12 mm
Working distance	About 100 mm
Microscope tube	Inclined at 45°
Measuring stage	150 x 150 mm, with travel in X and Y directions
Travel range	50 x 50 mm
Micrometers	25 mm each, least count 0.01 mm or 0.005 mm
Rotary stage	Graduated 0–360°, vernier reading 6 minutes
Illumination	Inclined transmitted light with separate intensity control
Product code	SLE/M/35
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Toolmaker Microscope Used For?

In a metrology lab, the toolmaker microscope measures features that are too small or too delicate for callipers: the pitch and flank angle of a screw thread, the radius on a form tool, the diameter of a small drilled hole, the thickness of a shim or the profile of a gear tooth. Students align one edge of the feature with the eyepiece reference, note the micrometer reading, move the stage to the opposite edge and take the difference.

Transmitted light from below turns the part into a sharp silhouette, which makes edges easy to pick up at 30x, and the inclined illumination helps with helical features such as threads. For angles, the rotary stage is turned until a line in the field matches the second edge and read to 6 minutes on the vernier. It is a standard item of engineering lab equipment in India for polytechnic, ITI and mechanical engineering courses.

What to Specify When Ordering