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Product Name :

Metallography Hand Grinder

Product Code :

SLE/MCE/20



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Description :

Metallography Hand Grinder (Product Code: SLE/MCE/20) is a manual, water-cooled roll grinder used to grind metallographic specimens flat and progressively finer in materials testing laboratories. Metallurgy students and quality-control technicians use it because its five grinding stations hold 240, 360, 600, 800 and 1200 grit silicon carbide rolls, so a sample moves through every grit on one compact unit. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Grinding stations	Five, for 240, 360, 600, 800 and 1200 grit silicon carbide rolls
Abrasive roll size	3-7/16 inch wide x 60 feet long, on a 1 inch core
Cooling / rinse system	Water
Construction	Stainless steel with a cast aluminium base
Rollers and plates	Hard-coat anodised rollers with paper support plates
Roll handling	Abrasive rolls are easy to advance and change
Dimensions	565 x 535 x 200 mm
Weight	25 kg
Product code	SLE/MCE/20
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Metallography Hand Grinder Used For?

Before a metal sample can be polished, etched and examined under a microscope, the saw marks and deformed layer left by sectioning have to be ground away. On this grinder the operator holds the specimen face-down and draws it along the 240 grit strip first, then works through 360, 600 and 800 grit to the 1200 grit finish. Water running over the strips carries away debris and keeps the surface cool, so the microstructure is not altered by heat.

A useful habit is to turn the specimen through a right angle at each new grit and keep going until the scratches from the previous step have gone. Rinse the sample between stations so coarse particles are not dragged onto the finer rolls. As engineering lab equipment in India goes, a roll grinder like this is a low-maintenance first stage for college metallography courses and workshop quality labs.

What to Specify When Ordering

- Number of grinders needed for your student groups or sample throughput
- Spare silicon carbide rolls and the grits you want (240, 360, 600, 800 or 1200) — ask us about availability
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