

**Product Name :**  
Matalography Hand Grinder**Product Code :**  
ELAB-MTE0006**Description :**

Matalography Hand Grinder

**Technical Specification :**

Grinding and polishing is the final stage in the sample preparation process and consists of several steps. Each step uses finer abrasive than the previous one, the ultimate goal being to produce a deformation-free, and scratch-free and highly reflective sample surface.

It frequently happens that contrasts in the material are only visible after a successful etching step.

The sample may need to be examined, either etched or unetched, to reveal the microstructure of the material.

Metallurgical hand grinder for the sample preparation of low volume metallographic samples to prepare for microscopic observation on macro or stereomicroscope.

Small samples can be easily prepared and kept flat, much easier than using a rotating system.

The availability of 5 abrasive rolls allows the operator to use a range of grinding papers from course to fine such as P240 to P1200.

Fresh grinding paper surface can be easily presented from the 60m rolls and spring type fixturing.

Offering both Wet and dry grinding the system can be used for many applications working with a range of material types for applications such as heat treatment control, Weld analysis, Microstructural evaluation.

**FEATURES:**

The machine is manufactured from Stainless steel with a cast aluminum base.

Easy to use and service

Offering water cooled grinding

Easy to progress and change abrasive rolls

Reliable and robust design

Hard anodized rollers with paper support plates for long life of the machine.

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**SPECIFICATION:**

Grinding stations: 240, 360, 600, 800 and 1200 grit silicon carbide rolls

Roll sizes: 3-7/16-inch width x 60 feet length with 1 -inch core

Construction: Aluminum casting and stainless steel, Hard coat anodized rollers and paper support plates

Cooling rinse system: Water

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