









MOBIPREP MOBISCOPE



In-situ/Field metallography is widely used for microstructure analysis on large parts (samples) that cannot be easily carried or where destructive preparation is not permissible such as storage tanks, piping system, power plants, etc. In-situ Metallography allows for quick on-site evaluation of a component. There are numerous advantages in using in-situ/field metallography.

- Can be used to monitor quality of purchased components.

 Nondestructive with Replica techniques.

 Replicas are ideal for both flat and curved surfaces.

 Ability to evaluate microstructural changes in a component during its lifetime.

 Wide range of application area.

MOBIPREP

MOBIPREP is a battery powered portable Grinder / Polisher and etcher designed for metallographic sample preparation in field or in laboratory. MOBIPREP contains maintenance-free batteries to work without stationary mains, consists of a control unit and a precision hand-guided grinding-polishing device with high performance micro

MOBIPREP's hand-guided device can be used with either 45° or 90° angle or straight grinding-polishing pieces. The switch for ON/OFF is on the hand-guide and provides a click sensation with a confirmation tone from the control unit when the switch is operated.

All accessories are supplied with a hardcase protection and carrying bag where you have sufficient space to place your consumables.

With the etching pen MOBIPREP may be used for electrolytic etching. Thus working in field with alloyed steels is possible which can be etched by weak electrolytes instead of strong acids.



MOBIPREP Portable Grinding/Polishing & Electrolytic Etching Machine



MOBIPREP With the Etching Pen for Electrolytic Etching



Hand-Guided Grinding-Polishing Device



Hardcase Protection & Carrying Bag

MOBISCOPE

MOBISCOPE is ideal for examination of prepared surfaces on site. In case of detailed analysis in the laboratory, replica kit is recommended

MOBISCOPE portable microscope provides up to 100x and 500x total magnification with 10x and 50x objectives which are supplied as standard. Optional 20x and 80x objectives are available. Rechargeable built in LED illumination with no need of electrical supply.

With the magnet stage, MOBISCOPE can be easily attached against the surface of any ferrous material at any angles on flat and curved surfaces.

Aluminum transport case with special foam inside customized for MOBISCOPE and the accessories for maximum protection during transportation.





MOBISCOPE Portable Microscope



Fine/Coarse Focusing



Magnetic Stage



Aluminum Transport Case





SPECIFICATIONS

ORDER NO		90 01
MODEL NO		MOBIPREP
Voltages		36V or 100-240V / 50-60Hz
Speed		0-25.000 rpm
2 LED Indicator		On / Low Battery
Operation Modes		E - Etching-1 EP - Etching-2 or Polishing-1 EPG - Etching-3 or Polishing-2 or Grinding-1 PG - Polishing-2 or Grinding-2 G3 - Grinding-3 G4 - Grinding-4
Disc Diameter		30 mm.
Reduction Gear		3,9:1
Dimensions	Width	104 mm
	Height	54 mm
	Depth	160 mm
Total weight		1 kg
ORDER NO		90 02
MODEL NO		MOBISCOPE
Total Magnification		100-500x
Head		Monocular
Еуеріесе		WF10X
LWD Plan Objective		PLL 10X/0.25 WD:7.3mm
(no cover glass)		PLL 50X/0.65 WD:0.5mm
Mechanical Tube Length		160mm
Focusing		Coaxial coarse/fine focus system, range:36mm
Light Source		Coaxial illumination
		build-in LED rechargeable

brightness adjustable

Portable aluminium case

Packing

90 01 **MOBIPREP**

Portable grinding/polishing & Electrolytic etching Contains maintenance-free batteries to work without stationary mains,

consists of a control unit and a precision hand-guided grinding-polishing

device with high performance micro motor.

Output 36 V, adjustable in 5 steps

Hand-guided device: High Torque Brushless DC Motor

Included Accesories - Angle Piece 90° -Grinding and polishing carriers (5 pieces)

Automatic Charger 12 V / 2,5 A Optional Etching Pen

Dimensions: 104 x 54 x 160 mm, Weight 1 kg.

Accessories for MOBIPREP

90 10 Etching-Pencil for electrolytic etching

MOBISCOPE

Angle piece 90 °, with 3-mm collet on Angle piece 45 °, with 3-mm collet on

Straight quick release piece of, with 3-mm collet on

Grinding and polishing carriers (5 pieces)Shoulder bag for Mobiprep, synthetic leather

Portable Metallurgical Microscope Basic Magnification : 100x - 500x Eyepieces: WF10X/FN18, Dia 23.2

Objectives: 10x/0.25 (W.D. 7,3 mm), 50x/0.65 (W.D. 0.5mm) C-mount adapter (for connecting C-mount cameras)

Mechanical tube lengnth 160 mm

Coaxial coarse/fine focus system, range:36mm

Polarizing Kits: Polarizer and Analyzer

Coaxial illumination, build-in LED rechargeable, brightness

adjustable

Including portable aluminium case.

90 30 90 31

90 11 90 12

90 13 90 14

90 15

90 02

Accessories for MOBISCOPE

Magnet Stage Objective 20X Objective 80X

^{*} Other voltages and frequencies available upon request. Please state when ordering. All specifications are subject to change without notice.



