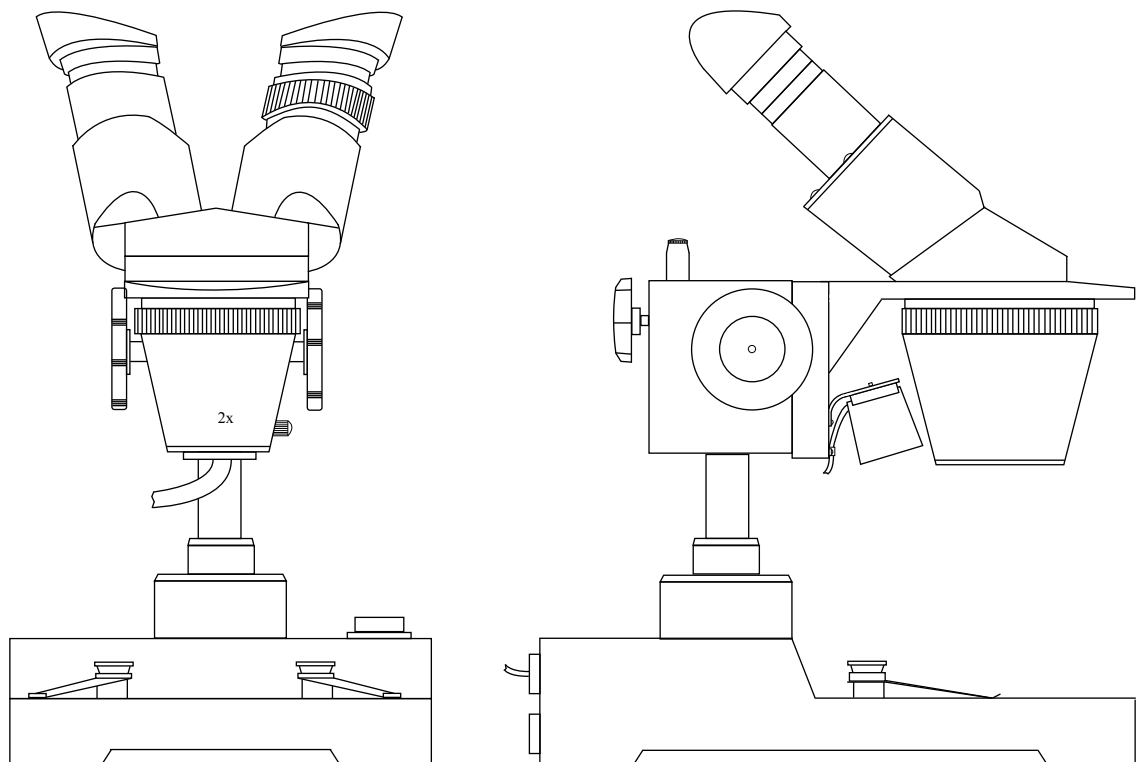


PRODUCT RANGE

59-020-040 Stereo Microscope



GENERAL DESCRIPTION

The Standard Stereo Microscope is a high quality stereo microscope in a compact, simply constructed body. Used exclusively for surface inspection. The stereo microscope is used in diverse fields ranging from electronic, precision, chemical, metallurgical, ceramic textile, food and in the fields of medicine, biology, geology, mineralogy, palaeontology, archaeology and more.

GENERAL SPECIFICATION

- Two 10x magnification Wide Field Eye Pieces
- Two Rubber Eye Cups for fitting to Eye Pieces
- Eye Pieces mounted at 45 degrees in Microscope Head
- Eye Piece width adjustment: 50 – 75mm
- 2x & 4x Objective Lenses mounted in a revolving turret with positive click stops
- Microscope provides 20x & 40x viewing magnification
- Focal distance between base of turret and work piece = 55mm
- Field of view at 20X mag. = 10mm
- Field of view at 40X mag. = 5mm
- Max. working height between stage plate and objective lens turret = 130mm
- Rack and pinion adjustment = 50mm
- Two sided stage plate with black/white faces 60mm dia.
- On/Off illumination switch 12volt/6watt top illumination festoon bulb
- Two specimen clips
- Plastic dust cover
- Primary voltage 230v AC
- Secondary voltage 12v 6w

OPERATING INSTRUCTIONS

Carefully unpack the microscope from its fitted shipping box

Remove the protective plastic bag which covers the microscope

Place the microscope onto a solid work bench

Fit the rubber eye cups to the eye pieces

Remove the plastic disc from below the objective lens turret

Connect the 3 pin plug to the required electric mains supply

Rotate the objective lens turret to positively engage either the 2x or 4x position

Place the work piece onto the selected stage plate

Unclamp the Microscope head by turning the column clamp screw and set the distance between the work piece and the base of the objective lens turret to approximately 55mm, then clamp in this position.

Switch on illumination lamp.

Look through the Eye pieces and adjust lenses to correct eye width distance.

Rotate either of the two side adjusting knobs to focus onto the required surface.

When in general focus a fine adjustment can be made by adjusting the left hand magnification lens to balance with the right hand lens by rotating the left hand lens mount.

When the final focus has been made, the microscope head can be locked in this position by using the " C " spanner provided, to tighten the locking collar situated on one of the adjusting knob spindles against the microscope body.

To replace the magnification lens, partially withdraw the small cross head location screw situated just below the lens, this will allow the lens to be pulled from its location tube. To replace the lens, fit lens into tube until the small cross head screw is in line with the annular groove situated around the lens body, then retighten the screw.

BULBS/ADDITIONAL ACCESSORIES

Microscope is fitted with two 250V T1A Glass fuses
Illumination lamp: Festoon type 12V 6W (Code 59-020-039)

Additional accessories

Eye Piece 15X (Code 59-020-041)
Eye Piece 20X (Code 59-020-042)
Eye Piece 10X with Metric Scale consisting of:
Horizontal Scale 0 – 16mm in 0.1mm graduations
Vertical Scale 0 – 16mm in 0.5mm graduations
Diagonal cross lines giving 30, 60 & 45 deg. angles (Code 59-020-045)

MAGNIFICATION DATA

| Magnification | Widefield Eyepiece | Product Code | Objective Lens | Product Code | Focal Length | Fields Of View |
|---------------|--------------------|--------------|----------------|--------------|--------------|----------------|
| 20x | 10x | Fitted | 2x | Fitted | 55mm | 10mm |
| 40x | 10x | Fitted | 4x | Fitted | 55mm | 5mm |
| 30x | 15x | 59-020-041 | 2x | Fitted | 55mm | 6mm |
| 60x | 15x | 59-020-041 | 4x | Fitted | 55mm | 3mm |
| 40x | 20x | 59-020-042 | 2x | Fitted | 55mm | 3mm |
| 80x | 20x | 59-020-042 | 4x | Fitted | 55mm | 1.5mm |

INSTRUMENT CARE

Do not dismantle any part of the optical system.
Clean the magnification lenses only with soft clean dry paper.
Do not try to turn the viewing head through 180 deg. as the optical system will not work in this position.