

Stereo Long Reach Microscope

DURATOOL



This Long Reach Stereo Microscope is suitable for viewing the surface of items which will not fit onto the stage plates of conventional microscopes

Specifications:

Two 10x magnification wide field eye pieces
Two rubber eye cups for fitting to eye pieces
Eye piece width adjustment 50 to 75 mm
2x objective lens
Microscope provides 20x viewing magnification
Focal distance between base of objective lens and work piece = 115 mm
Field of view at 20X mag. = 10 mm
Maximum working height between bench top and objective lens = 200 mm
Rack and pinion adjustment = 45 mm
On / Off power switch
Side mounted articulated illumination lamp 12 c 10 w halogen
Base Dimensions : 195 mm long, 120 mm wide, 65 mm high
Upright Column : 210 mm high × 18 mm diameters
Articulated Cross Arm : 270 mm total length between upright column and lens
Plastic dust cover
Primary voltage 230 V ac
Secondary voltage 12 v 10 w

Instructions for Use

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 paper covering the magnification and objective lenses
Connect the 3 pin plug to the required electric mains supply
Place the work piece onto the bench top

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Position the Microscope head approximately 115 mm above the surface of the work piece

Switch on the illumination lamp if required

Look through 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.

Microscope is fitted with two 250 V T1A Glass fuses

Illumination before Feb. 2000

Illumination lamp : 12 v 2 w pea style bulb (linear code 59-020-101)

Illumination after Feb. 2000

Illumination lamp : 12 v 10 w halogen (linear code 59-020-102)

To change this lamp, unscrew black heatsink tube from front of lamp housing, pull out old lamp and push new one firmly into the 2 pin holes

Replace the heatsink tube

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 to 16 mm in 0.1 mm graduations

Vertical scale 0 to 16 mm in 0.5 mm graduations

Diagonal cross lines giving 30, 60 and 45° angles (Code 59-020-045)

Objective lens 1X (Code 59-020-105)

Magnification	Wide field Eyepiece	Code	Objective Lens	Code	Focal Length	Field of View
20x	10x	Fitted	2x	Fitted	115 mm	10 mm
30x	15x	59-020-41				5 mm
40x	20x	59-020-42				2.5 mm
10x	10x	Fitted	1x	50-020-049	115 mm	20 mm
15x	15x	59-020-41	1x			3 mm

Instrument Data

Do not dismantle any part of the optical system

Clean the magnification lenses only with soft clean dry paper

Part Number Table

Description	Part Number
Microscope, Long Reach	59-020-100

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