

Hyper MF/MF-U Microscope

SERIES 176 – High-Accuracy Measuring Microscopes

- The world's highest XY measuring accuracy of (0.9+3L/1000) μm .
- Selectable LAF (Laser Auto Focus) function.
- High operability and repeatability.
- Three-axis motorized control.
- Power-drive auto focus unit is a standard feature.

Hyper MF-U

Shown with optional optical tube, turret and objectives



SPECIFICATIONS

Model	Hyper MF-B2515B	Hyper MF-UD2515B
Code No.	176-430E	176-432E
Observation type	BF	BF or BF/BD
XY stage travel range	250 x 150 mm	
Z-axis travel range	150 mm	
Measurement method	Linear encoder	
Resolution	0.01 μm	
Measuring accuracy (at 20°C)	(0.9+3L/1000) μm , L = XY plane measuring length (mm) when not loaded	
Drive system (X, Y, Z-axis)	Motor-driver control with the joystick	
XY stage top size	460 x 350 mm	
Effective glass size	300 x 200 mm	
Swivel function	$\pm 3^\circ$	
Max. stage loading	30 kg	
Max. workpiece height	150 mm	
Price	£POA	£POA

Technical Data: Hyper MF

Observation image:	Erect image
Optical tube:	Monocular or binocular tube (optional, depression: 25°), Reticle projection method, with TV mount, Optical path ratio (eyepiece/TV mount: 50/50)
Eyepiece lens (optional):	10X, 15X, 20X
Objective:	3X (375-037-1), W.D.: 77.0 mm
Optional:	1X, 5X 10X, 20X, 50X, 100X
Transmitted illumination	
Light source:	Halogen bulb (12V, 100W) (fibre-optic cold light illumination)
Optical system:	Telecentric illumination with adjustable aperture diaphragms
Functions:	Light intensity adjustable, 100 steps brightness adjustment
Surface illumination	
Light source:	Halogen bulb (12V, 50W)
Optical system:	Koehler illumination with adjustable aperture diaphragms
Functions:	Light intensity adjustable, 100 steps brightness adjustment
Data output:	Via RS-232C interface
Power supply:	100/110/120/220/240V AC, 50/60Hz
Dimensions:	880x913x730 mm (main unit), 160x476x381 mm (power unit)
Mass:	250 kg (main unit), 14 kg (power unit)

Technical Data: Hyper MF-U

Observation image:	Erect image
Optical tube:	Siedentoph type (pupil distance adjustment: 51-76 mm), 1X tube lens, Binocular tube (depression: 25°), Reticle projection method, with TV mount, Optical path ratio (eyepiece/TV mount: 50/50)
Eyepiece lens:	10X (field No.: 24 mm),
Optional:	15X, 20X
Turret (optional):	Power
Objective (optional):	M/BD Plan Apo objective from 1X to 100X
Transmitted illumination	
Light source:	Halogen bulb (12V, 100W)
Optical system:	Telecentric illumination with adjustable aperture diaphragms
Functions:	Light intensity adjustable, 100 steps brightness adjustment
Surface illumination	
Light source:	Halogen bulb (12V, 50W)
Optical system:	Koehler illumination with adjustable aperture diaphragms
Functions:	Light intensity adjustable, 100 steps brightness adjustment
Data output:	Via RS-232C interface
Power supply:	100/110/120/220/240V AC, 50/60Hz
Dimensions:	880x913x770 mm (main unit), 160x476x381 mm (power unit)
Mass:	255 kg (main unit), 14 kg (power unit)