

MF Measuring Microscope

Series 176

The MF measuring microscopes' expandability, such as when used in combination with Mitutoyo's vision unit to boost its performance or data management on a PC, promises further improved measuring efficiency.

- Observation with a clear and flare-less erect image and a wide field of view.
- Measuring accuracy that is the highest in its class (and conforms to JIS B 7153).
- ML series, high-NA objectives that are specially designed for the MF series (long working distance type).
- Illumination unit (reflected/transmitted) selectable from a high-intensity LED or halogen bulb.
- Variable aperture diaphragm (reflected/ transmitted) allows observation measurement while suppressing light diffraction.
- Variety of standardised stages in sizes up to 400x200 mm.
- Quick-release mechanism useful for moving the stage quickly when measuring workpieces that are large in size or quantity.
- Coarse/fine feed handles equipped as standard on both sides allow precise focus and observation measurement regardless of handedness.
- High-magnification eyepiece observation up to 2000X.
- Standard measuring microscope that has a wide variety of optional accessories including a Vision Unit and various digital CCD cameras.



176-664-10
MF-2017C model



Using optional slide type nosepiece
with 2-lens mount
(factory-fit option)



1010C
100x100 mm



2010C
200x100 mm



3017C
300x170 mm



4020C
400x200 mm

Specifications

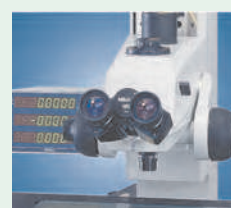
Observation image	Erect image
Optical tube	Monocular or binocular tube (depression: 25°), Reticle projection method, with TV mount, Optical path ratio (eyepiece/TV mount: 50/50)
Eyepiece	10X, 15X, 20X
Objective lens	Standard: 3X Optional: 1X, 5X, 10X, 20X, 50X, 100X
Transmitted illumination	Light source: Halogen bulb (12V, 50W) Optical system: Telecentric illumination with adjustable aperture diaphragm Functions: Light intensity adjustable, non-stepped brightness adjustment
Surface illumination	Light source: Halogen bulb (12V, 150W) Optical system: Koehler illumination with adjustable aperture diaphragm No. of axes: 2 (MF-A type) or 3 (MF-B type) Resolution: 0,001 mm/0,0005 mm/0,0001 mm/0,0001"/0.00005"/0.00001" Functions: Zero/Abs, Direction switching, Data output (via RS-232C interface) Light intensity adjustable, non-stepped brightness adjustment Display unit
Power supply	100/110/120/220/240 VAC, 50/60Hz



Reticle mounts
(standard accessories)



176-392
Optional monocular



176-393
Optional binocular



Refer to the MF / MF-U microscopes brochure