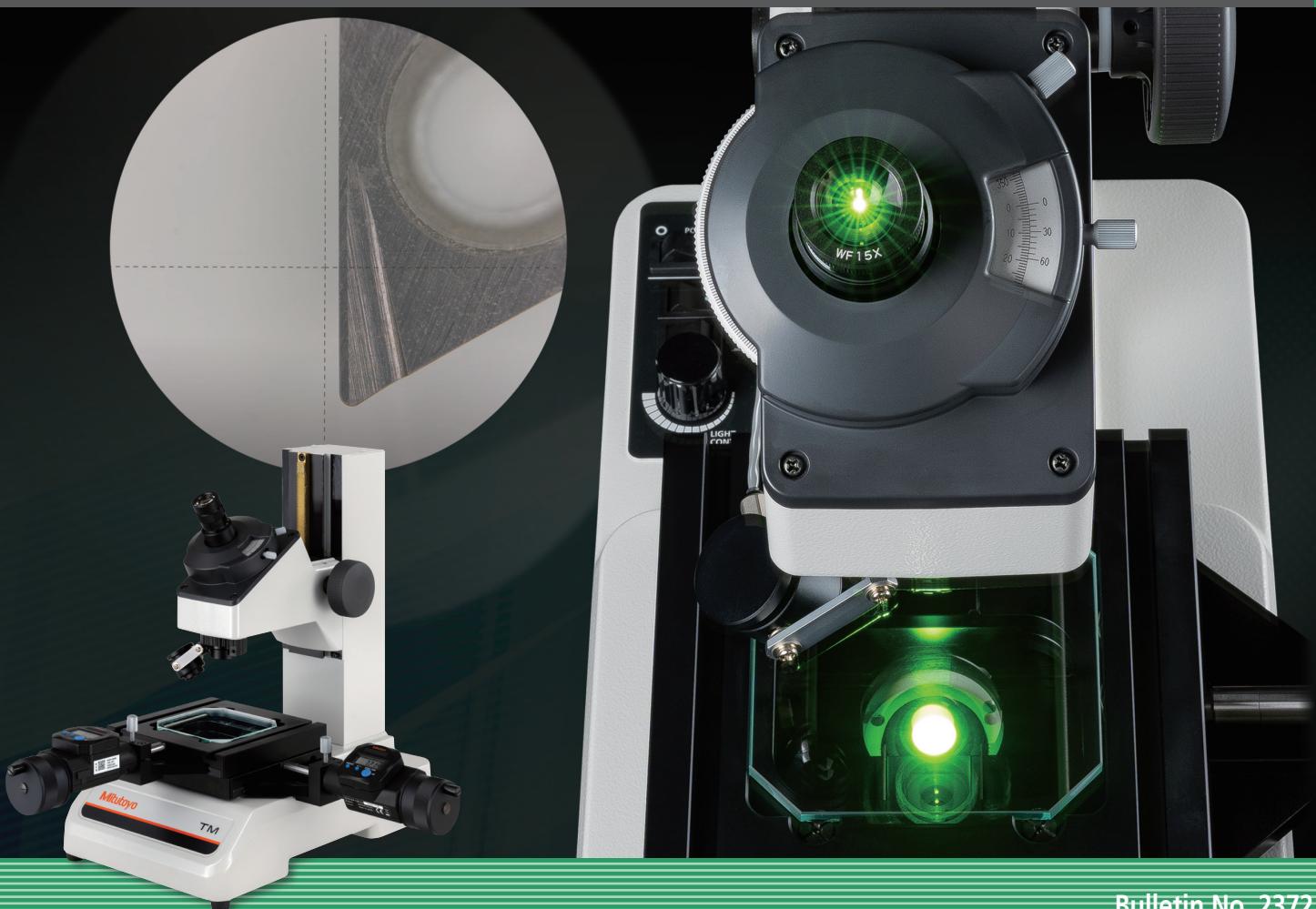


Mitutoyo

Mitutoyo Quality

Toolmakers' Microscopes TM Series





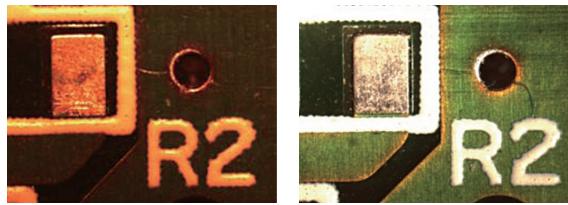
Bright and Clear Field of View Superior Performance in Small-model Class

Part Number	Description	Resolution	Sensor Size
64PMI247	MOTI-CAM S1, 1.2 MEGAPIXEL, 1280x960, USB	1.2MP	1/3"
64PMI249	MOTI-CAM S3, 3 MEGAPIXEL, 2048 X 1536 PIXELS, USB	3MP	1/2.8"
64PMI248	MOTI-CAM S6, 6 MP, 3072x2048 PIXELS, USB	6MP	1/1.8"
64PMI309	MOTICAM BMH400X, 8 MP HDMI/USB		
64PMI310	MOTICAM BMH4000X, 8 MEGAPIXEL, HDMI / USB, LCD SCREEN	8MP	1/2.8"
64AAA060	0.37x C Mount Adapter (TM - Camera Adapter)*1		

*1 Required Item if utilizing C-Mount Camera

FEATURES

- Newly designed LED illuminators provide clear observation with outstanding color reproduction.



Conventional illumination

LED illumination

- A Vernier scale mounted outside the eyepiece enables simple angle measurement.



- Optional LED circular illuminator 176-208-11A available for applications requiring all-round lighting.



- Installation of optional Digimatic micrometer heads (164-164) enables easy digital measurement.

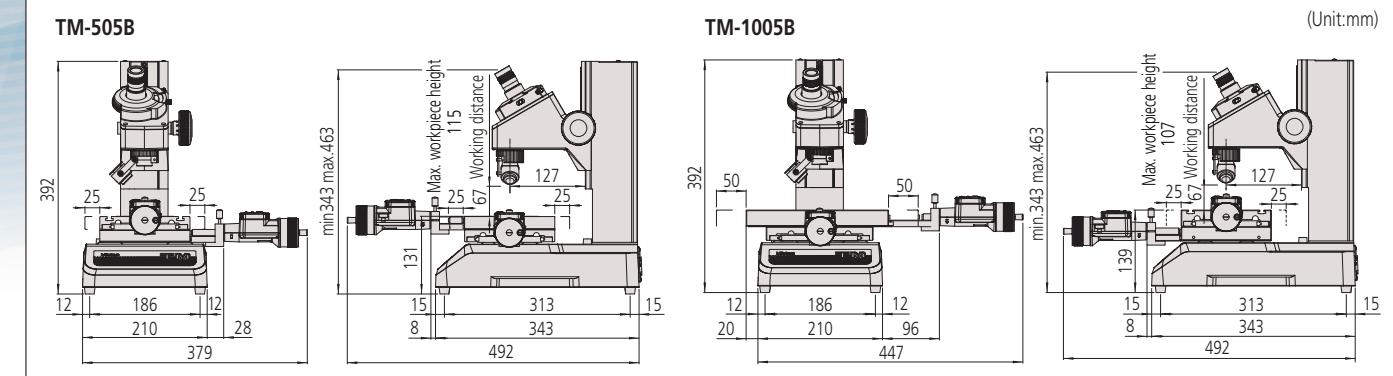


SPECIFICATIONS

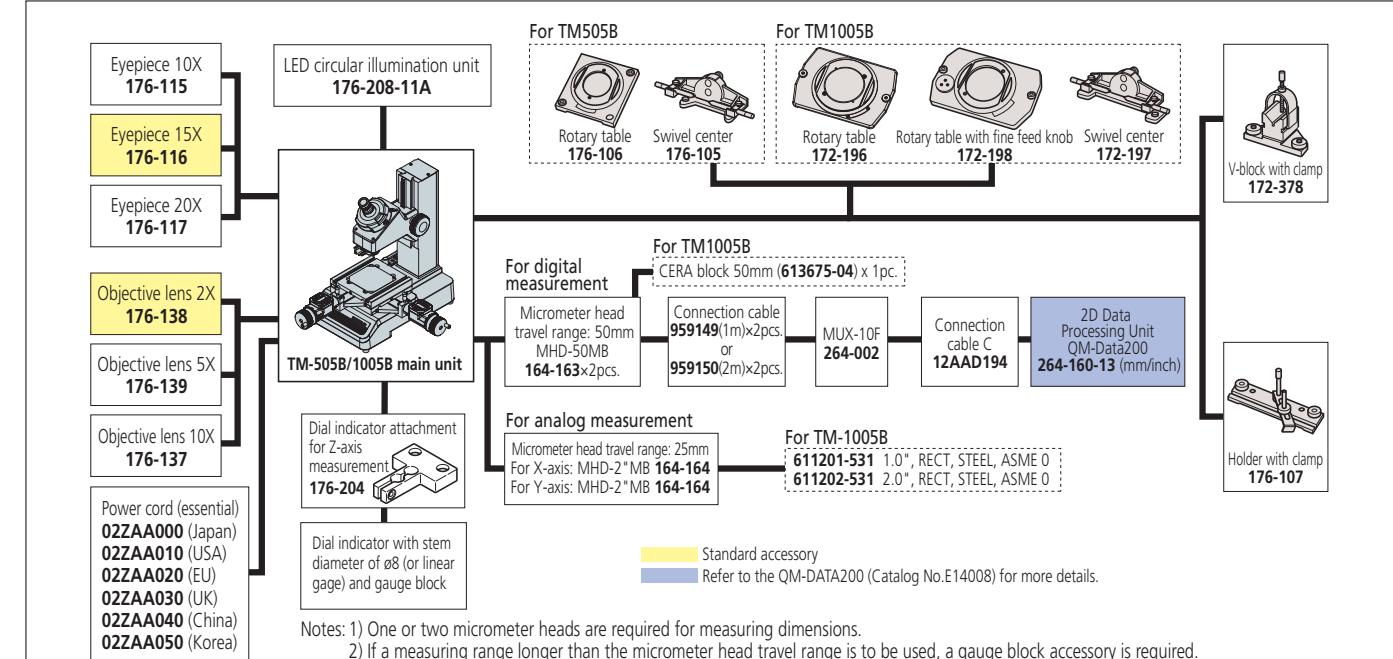
Model No.	TM-505B	TM-1005B
Order No.	176-819-11A	176-819-11A
Main Unit with 164-164 Mic Heads Inc	172-820-11A	172-821-11A
Optical tube		Monocular type (Depression angle: 60°)
Observation image		Erect
Eyepiece protractor	Resolution (graduation) : 1°, Rotation angle: 360°, Minimum reading by Vernier: 0.5°, Adjustable zero point	
Eyepiece	Standard accessory: 15X (field number: 13), Options: 10X, 20X	
Objective lens	Standard accessory: 2X, Options: 5X, 10X	
Microscope head	Maximum height of workpiece 115 mm	107 mm
Focusing method	Manual (Coarse feed)	
Illumination unit	Transmitted illumination Stepless brightness adjustment, White LED light source, With green filter	Surface illumination Oblique single-source type, Stepless brightness adjustment, White LED light source
Cross-travel stage	Measuring range 50x50 mm	100x50 mm (An optional 50 mm gauge block* is required to cover full range. A CERA block is recommended.)
Table size	152x152 mm	240x152 mm
Usable area of the stage glass	96x96 mm	154x96 mm
Maximum stage glass loading		5 kg
Linear measurement method		Micrometer head*
Resolution		Depends on the micrometer head specifications* (for MHD-2"MB (164-164): Resolution 0.00005"/0.001mm)
Micrometer head travel range		(for MHD-2"MB (164-164): 2"/50.8mm)
Power source	100 to 240 VAC 50/60 Hz	Maximum power consumption: 4.2 W
Main unit mass	14 kg	15 kg

* Micrometer heads and gauge blocks (CERA blocks) are optional.

DIMENSIONS



SYSTEM DIAGRAM



Notes: 1) One or two micrometer heads are required for measuring dimensions.

2) If a measuring range longer than the micrometer head travel range is to be used, a gauge block accessory is required.



Whatever your challenges are, Mitutoyo supports you from start to finish.

Mitutoyo is not only a manufacturer of top quality measuring products but one that also offers qualified support for the lifetime of the equipment, backed up by comprehensive services that ensure your staff can make the very best use of the investment.

Apart from the basics of calibration and repair, Mitutoyo offers product and metrology training, as well as IT support for the sophisticated software used in modern measuring technology. We can also design, build, test and deliver measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.



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