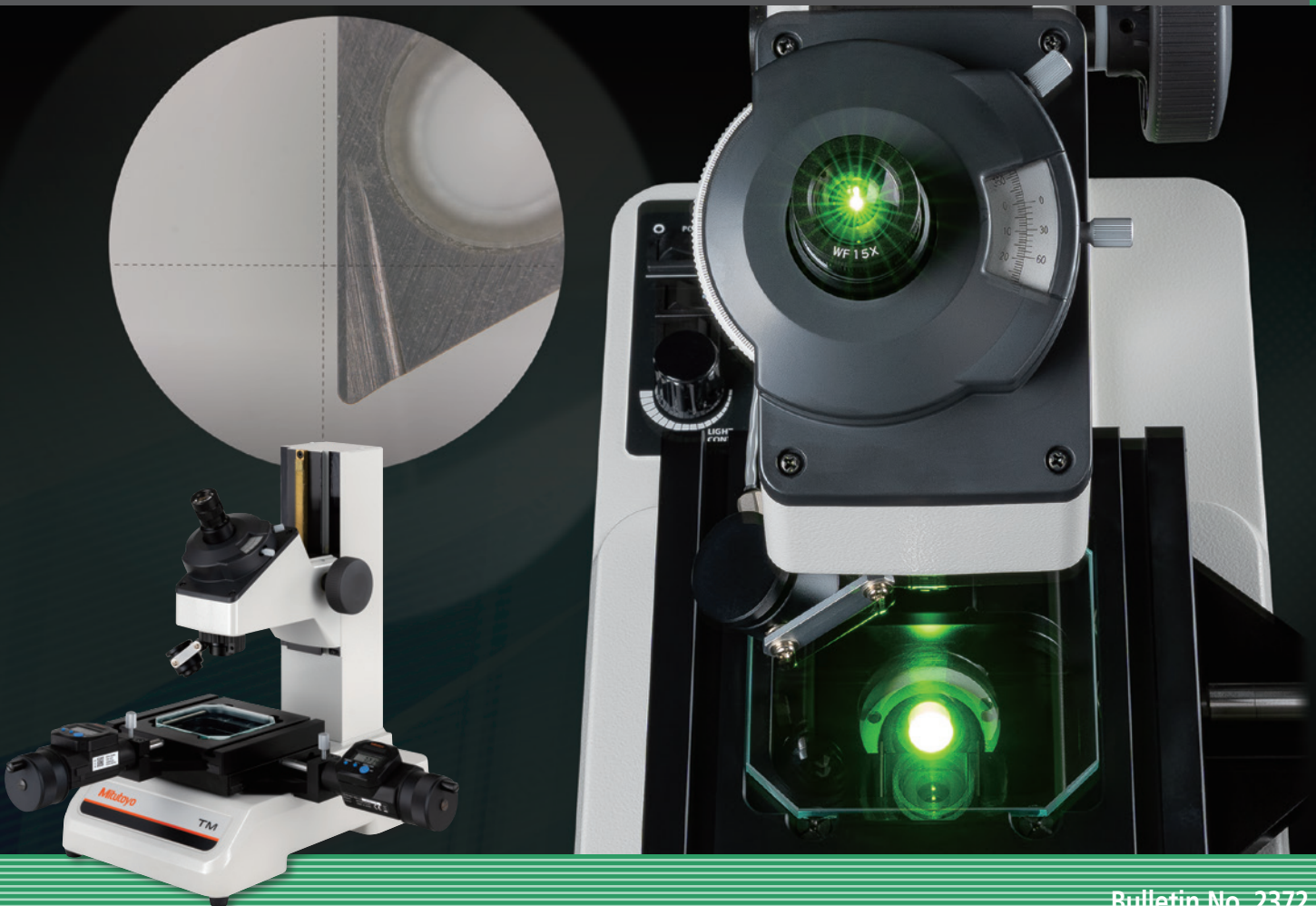


Mitutoyo

Mitutoyo Quality

Toolmakers' Microscopes TM Series

Optical Measuring



Bulletin No. 2372

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



SCAN ME

| Part Number | Description | Resolution | Sensor Size |
|-------------|---|------------|-------------|
| 64PMI247 | MOTI-CAM S1, 1.2 MEGAPIXEL, 1280x960, USB | 1.2MP | 1/3" |
| 64PMI249 | MOTICAM 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 BMH4000X, 8 MP HDMI/USB | 8MP | 1/2.8" |
| 64PMI310 | MOTICAM BMH4000X, 8 MEGAPIXEL, HDMI / USB, LCD SCREEN | | |
| 63AAA060 | 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

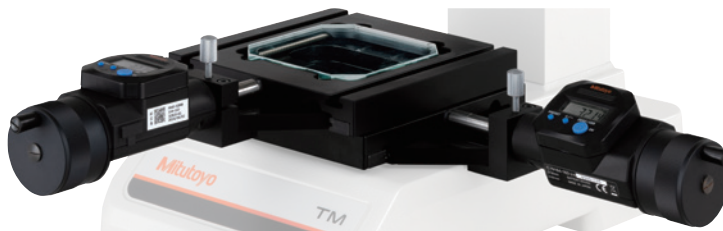
- A Vernier scale mounted outside the eyepiece enables simple angle measurement.



- 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.

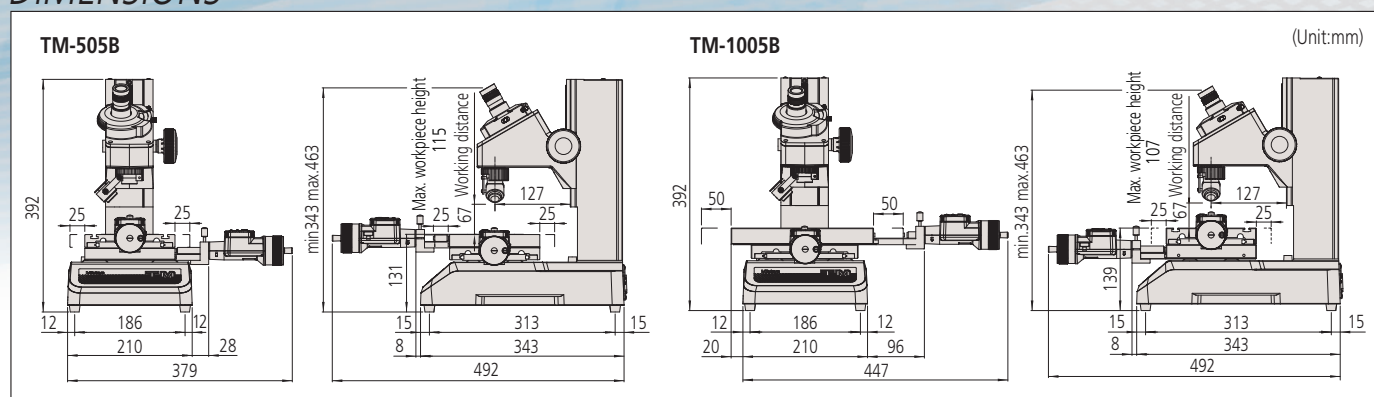


SPECIFICATIONS

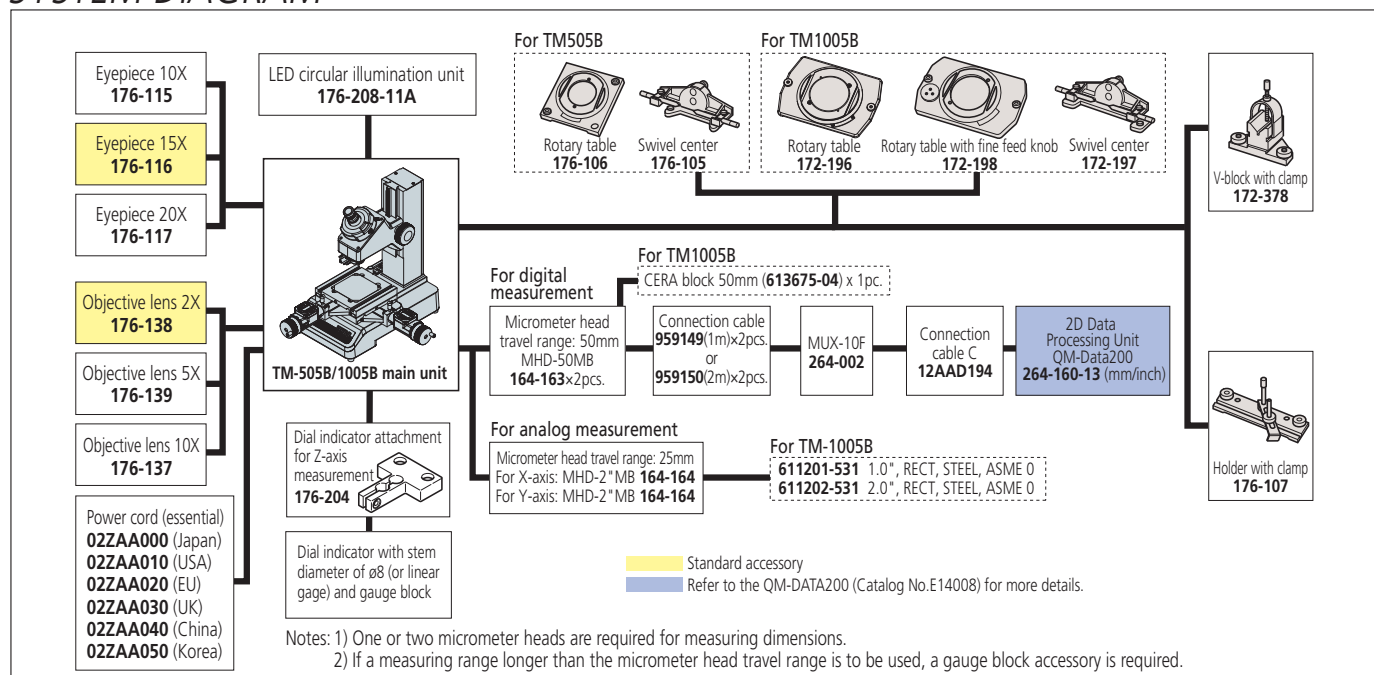
| | | | |
|--------------------------------------|--------------------------------|--|--|
| Model No. | | TM-505B | TM-1005B |
| Order No. | | 176-818-11A | 176-819-11A |
| Main Unit with 164-164 Mic Heads Inc | | 176-820-11A | 176-821-11A |
| Optical tube | | Monocular type (Depression angle: 60°) | |
| 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 | 50×50 mm | 100×50 mm (An optional 50 mm gauge block* is required to cover full range. A CERA block is recommended.) |
| | Table size | 152×152 mm | 240×152 mm |
| | Usable area of the stage glass | 96×96 mm | 154×96 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) (for MHD-2"MB (164-164) : 2"/50.8mm) | |
| Micrometer head travel range | | | |
| 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





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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