

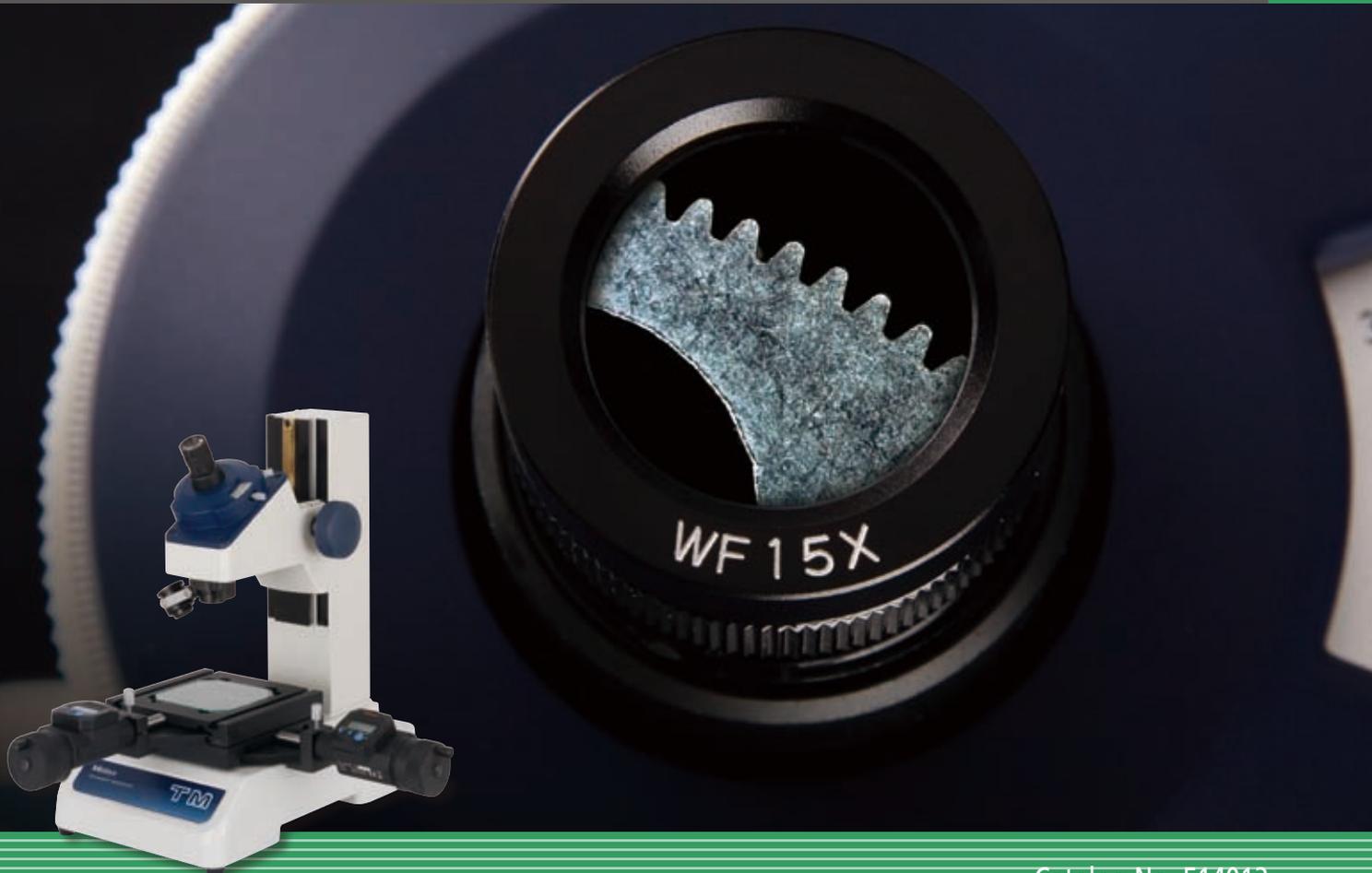
Mitutoyo



Mitutoyo Corporation
80th Anniversary
Since 1934

Toolmakers' Microscopes TM Series

Optical Measuring



Catalog No. E14013

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



FEATURES

- Newly designed LED illuminators provide enhanced observation for higher accuracy and resolution.

Conventional illumination



Newly designed LED illumination



- Optional LED circular illuminator available for applications requiring all-round lighting.



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



- Installation of optional Digimatic micrometer heads **MHD-50MB (164-163)** enables easy digital measurement.

SPECIFICATIONS

Model No.	TM-505B	TM-1005B
Order No.	176-818*1	176-819*1
Optical tube	Monocular type (Vertical tilt angle: 60°)	
Observation image	Erect	
Resolution	Resolution (graduation) : 1°, Rotation angle: 360°, Resolution (angle): 6', Adjustable zero point	
Standard accessory	Standard accessory: 15X (field number: 13), Options: 10X, 20X	
Options	Standard accessory: 2X, Options: 5X, 10X	
Microscope head	Maximum height of workpiece	115mm
Focusing method	Manual (Coarse feed)	
Illumination unit	Stepless brightness adjustment, White LED light source, With green filter	
Transmitted illumination	Oblique single-source type, Stepless brightness adjustment, White LED light source	
Surface illumination		
Cross-travel stage	Measuring range	50x50mm
Table size	152x152mm	
Usable area of the stage glass	96x96mm	
Maximum stage glass loading	5kg	
Linear measurement method	Micrometer head*2	
Resolution	Depends on the micrometer head specifications*2 (for MHD-50MB (164-163) : 0.001mm)	
Micrometer head travel range	for MHD-50MB (164-163) : 50mm	
Power supply	100 to 240VAC 50/60Hz Maximum power consumption: 4.2W	
Main unit mass	14kg	15kg

Note: The main unit with digimatic micrometer head (MHD-2"MB) is provided in the TM-500 series. To denote your AC power cable add the following suffixes to the order No.: A for UL/CSA.

TM-A505B (176-820A)
TM-A1005B (176-821A)

Other specifications are the same as the other TM-500 Series.

*1: The main unit is compatible with CE. To denote your AC power cable add the following suffixes to the order No.: A for UL/CSA, D for CEE, E for BS, DC for CCC, K for KC, C and No suffix is required for PSE.

*2: Micrometer heads are optional for **TM-505B** and **TM-1005B**.



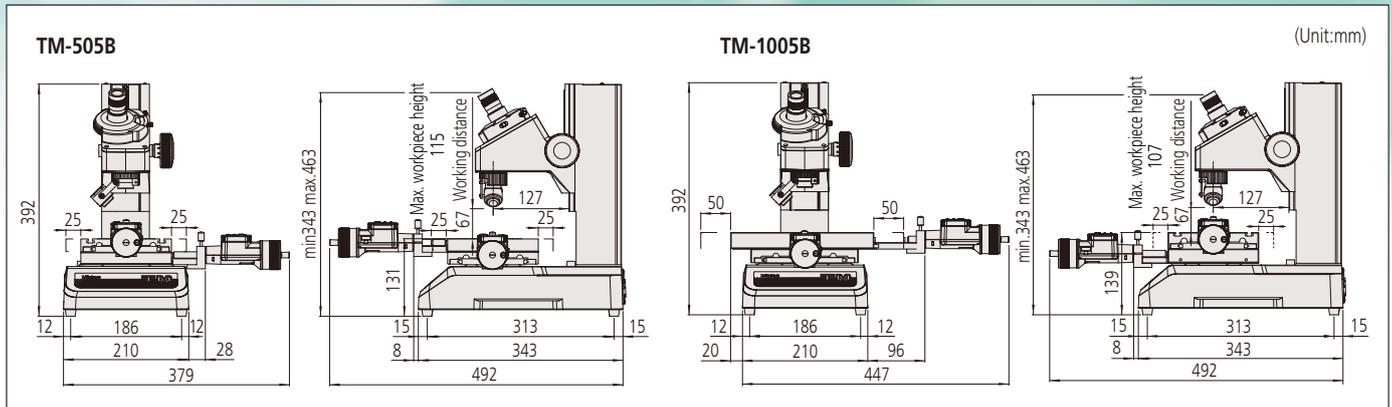
TM-505B
176-818



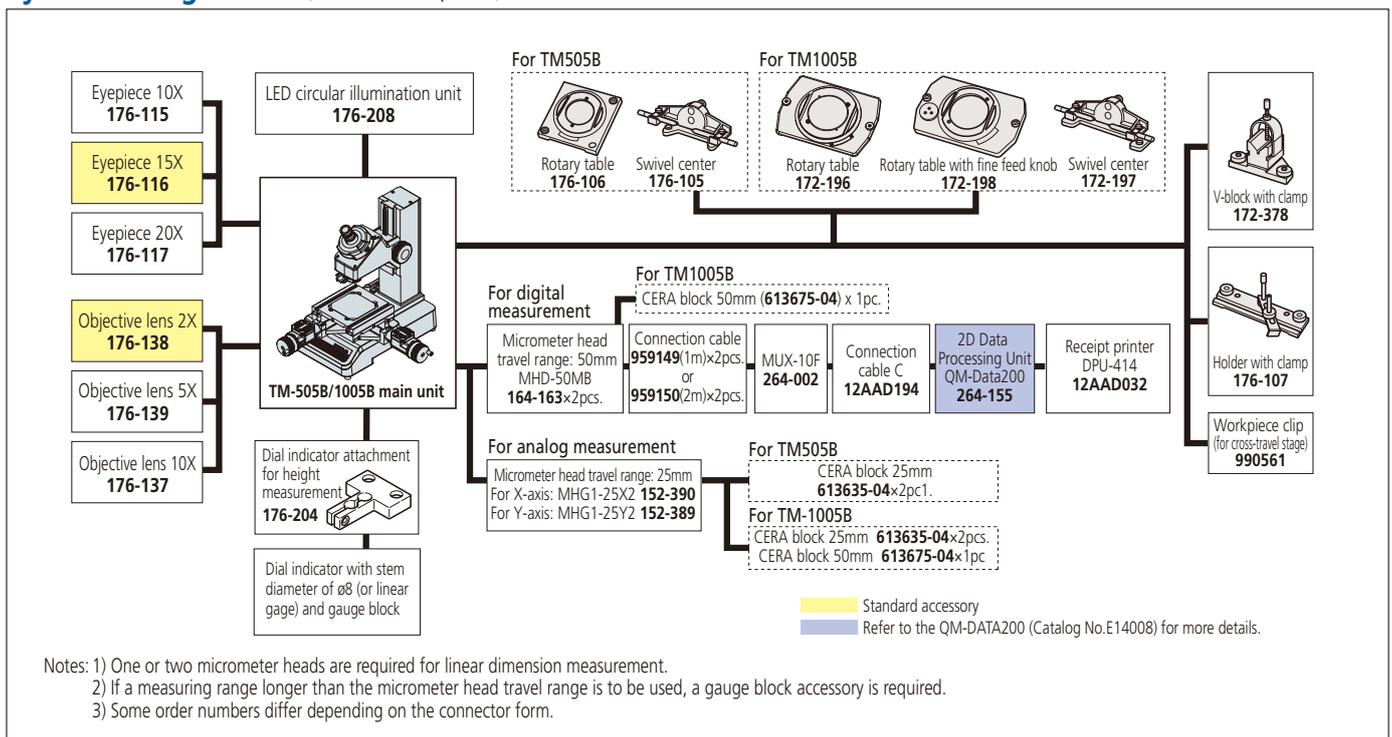
TM-1005B
176-819

(Micrometer heads shown are optional accessories)

DIMENSIONS (including digital micrometer heads)



System configuration (accessories are optional)



Coordinate Measuring Machines



Vision Measuring Systems



Form Measurement



Optical Measuring



Sensor Systems

Test Equipment
and Seismometers

Digital Scale and DRO Systems

Small Tool Instruments
and Data Management

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 bespoke measuring solutions and even, if deemed cost-effective, take your critical measurement challenges in-house on a sub-contract basis.



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and our product catalogue

<http://www.mitutoyo.co.jp/global.html>

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Mitutoyo

Mitutoyo Corporation

20-1, Sakado 1-Chome,
Takatsu-ku, Kawasaki-shi,
Kanagawa 213-8533, Japan

T +81 (0) 44 813-8230

F +81 (0) 44 813-8231

<http://www.mitutoyo.co.jp>