



**MIC TRAC MT-4000  
Measurement Center with Computer**



**Inspects Ring and Plugs**

The MIC TRAC is an electronic, adjustable measurement center that inspects ring and plug gages, presets indicator style gages, and calibrates a variety of hand-held inspection gages.

The MT-4000 measurement system includes the base unit, which houses 2 precision optical scales. These glass scales give the MIC TRAC its precision measuring capability with accuracies to .00002". The base unit includes receiver pads and anvils that are manufactured and precision ground to within .00001" to provide parallel surfaces for measuring. The MT-4000 also contains a weight system that supplies the necessary measuring forces to meet national standards.

Several models of the MT-4000 are available. The standard MT-4000 includes a desktop computer containing digital readout software. Other packages include the digital readout software and two more functions in the software that provide very powerful tools to inspect parts, calibrate gages and track gages. The functions consist of a computerized digital readout, calibration report writer and a database for tracking gage information.

For gage calibration, the MIC TRAC measurement system can include the CAL-PAK, as an option. CAL-PAK is an assortment of fixtures that attach to the base unit for holding gages securely during the calibration process. Proper positioning of the gage improves the accuracy of the calibration and provides more consistent results. (Refer to the CAL-PAK Data Sheet for more information).

### Features

- Equipment maintains accuracies to .00002", traceable to NIST
- Report writer produces calibration certificates
- Digital readout provides measurement readings in inch or metric
- Database tracks and maintains gage history
- Versatility allows companies to meet several measurement needs

### MIC TRAC MT-4000 Base Units

Supplied with digital readout software, desktop computer, TF-2R setting blocks and shipping carton.

Model No.	Description	Accuracy	Resolution	Range
<b>MT-4000 Standard Base Units</b>				
MT-4012R-10	MIC TRAC Base Unit	±.00002"	.00001"	0" – 12"
MT-4024R-10	MIC TRAC Base Unit	±.00002"	.00001"	0" – 24"
MT-4036R-10	MIC TRAC Base Unit	±.00002"	.00001"	0" – 36"
MT-4048R-10	MIC TRAC Base Unit	±.00002"	.00001"	0" – 48"

Supplied with digital readout software with extended functions, desktop computer, TF-2R setting blocks and shipping carton.

Model No.	Description	Accuracy	Resolution	Range
<b>MT-4000 Base Units with Extended Software Functions</b>				
MT-4012-10	MIC TRAC Base Unit	±.00002"	.00001"	0" – 12"
MT-4024-10	MIC TRAC Base Unit	±.00002"	.00001"	0" – 24"
MT-4036-10	MIC TRAC Base Unit	±.00002"	.00001"	0" – 36"
MT-4048-10	MIC TRAC Base Unit	±.00002"	.00001"	0" – 48"

### HOW TO ORDER

1. Select the MIC TRAC Base Unit, based on application requirements such as: gage setting, gage calibration, length of travel required, or accuracy required.
2. Select any optional equipment.



# MIC TRAC Measurement Center

## Ring and Plug Gage Inspection, Gage Setting and Calibration

MT-4000

### MIC TRAC MT-4000 Optional Equipment

Model No.	Description
PRN-100	Printer for hardcopy records of measurements
PRN-000	Replacement roll of printer paper
TF-1F	Flat face setting blocks
TF-2R	Carbide setting blocks – 3/8"
TF-XYT	Adjustable height support table
TW-50	50 in-lb torque wrench with 5/32" hex wrench adapter
CRC-MT4000	Laminated reference cards with step-by-step instructions for calibrating handheld gages and ring & plug gages, using the MT-4000
MT4-USB	Digital readout software
CERTIFI	Certifi report writer, database and digital readout software.
TD-WIN	Thread Disk for Windows software for calculating critical setting dimensions for threads. Includes UN Series, ACME, Stub ACME, ISO Metric, and 7° X 45° Buttress thread forms.
TD-WIN-UP	Thread Disk for Windows software upgrade
<b>Ring and Plug Gage Accessories</b>	
TF-CR	Set of 3 fixtures for measuring cylindrical ring gages and bores. CR-1 (.170"-.230"), CR-2 (.250"-.875"), CR-3 (.880"-larger)
TF-IT	Internal threaded ring arm accessory for measuring pitch diameters
TF-TP	Calibration fixture for NPT, NPTF and ANPT tapered plug gages (includes wire for 27, 18, 14, and 11 ½ pitch threaded plugs). (Requires TF-2R blocks)
TF-WS	Set of thread wire holder modules with wires for 6,8,10,12,14,16,18,20,24,28 and 32 pitch "V" threads. (Requires TF-2R blocks)
<b>Thread Wire Holder Modules UN, ACME and Metric Threads (Requires TF-2R blocks, "xx" Denotes Pitch)</b>	
TF-WHV-xx	60° thread wire holder module with wires 5 pitch to 48 pitch
TF-WHV-xx	60° thread wire holder module with wires 1-4 pitch, 56-72 pitch
TF-WHA-xx	29° thread wire holder module with wires 2 pitch, 3 pitch
TF-WHA-xx	29° thread wire holder module with wires 4 pitch to 20 pitch
TF-WHM-xx	Metric thread wire holder module with wires .5 mm-.8 mmm, 5 mm-6 mm pitch
TF-WHM-xx	Metric thread wire holder module with wires 1.0 mm-4.5 mm pitch
TF-WSV	Thread wire holder set. Contains wires and holders for 6, 8, 10, 12, 14, 16, 18, 20, 24, 28 and 32 pitch 60° threads.
TF-WSA	Thread wire holder set. Contains wires and holders for 4, 5, 6, 8, 10, 12, 14 and 16 pitch ACME 29° threads.
TF-WSM	Thread wire holder set. Contains wires and holders for .5, .6, .75, 1.0, 1.25, 1.5, 2.0, 3.0, 4.0 and 5.0 pitch metric 60° threads.
TF-WH-xx	Wire holder only

### Specifications

Model No.	Dimensions	Weights
MT-4012	36 in x 13 in x 12 in (914 mm x 330 mm x 304 mm)	121 lbs. (55 kg)
MT-4024	47 in x 13 in x 12 in (1194 mm x 330 mm x 304 mm)	152 lbs. (69 kg)
MT-4036	58 in x 13 in x 12 in (1473 mm x 330 mm x 304 mm)	184 lbs. (83.6 kg)
MT-4048	69 in x 13 in x 12 in (1752 mm x 330 mm x 304 mm)	215 lbs. (97.7 kg)

