



**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 houses 2 precision optical scales. These glass scales give the MIC TRAC its precision measuring capability with accuracies to .00002". To provide parallel surfaces for measuring, the base unit includes receiver pads and anvils that are manufactured and precision ground to within .00001". Also, the MT-4000 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 unit includes a desktop computer containing digital readout software, 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.

As an option for gage calibration, the MIC TRAC measurement system can include the CAL-PAK, our collection of popular assorted fixtures that attach to the base unit for securely holding gages during the calibration process.

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 PRECISION GAGE CALIBRATION SYSTEM PACKAGE

This package features the MIC TRAC/MT-4000 as a precision calibration system. The package includes all the equipment necessary to calibrate a wide range of precision handheld gages. Ring and plug inspection requires purchasing additional accessories.

Package includes:

- MT-4012-10 MIC TRAC electronic adjustable measurement master, range 0" to 12". Base unit is segmentally linear error corrected to an accuracy of ± 0.00005 ", resolution .00001", travel 12.000".
- Ultra precision scale with 1.00" travel, accuracy ± 0.00002 ", and resolution .00001".
- Dell® desktop computer with CERTIFI Calibration Software. CERTIFI produces calibration reports, has a recall database, and a digital readout acquisition module. Network compatible. (MT-4-USB)
- CRC MT-4000 Calibration Reference Card Set- documented Gagemaker calibration procedures
- TF-2R: Carbide anvil set, 3/8" diameter
- TF-XYT: Adjustable X, Y & tilt support table for use with the MIC TRAC
- CAL-PAK: Assortment of fixtures designed to hold gages for calibration
- TDWIN Thread Disk for Windows® software program: provides critical thread dimensions for manufacturing and inspection of UN, ACME, Stub ACME, Metric, Buttress, and NPT threads.
- Torque wrench, 50 in. lb.
- AWH-100 bench-top tool holder with wrenches
- Reusable shipping container

Model	Description	Range
PGC-12-W2	Precision Calibration Package	0" - 12"

ADDITIONAL PACKAGES & CALIBRATION ACCESSORIES

The following base units and accessories for larger requirements are available options to the standard MIC TRAC Package above.

Model	Description	Range
PGC-24-W2	Precision Calibration Package with MT-4024-10 MIC TRAC	0" - 24"
PGC-36-W2	Precision Calibration Package with MT-4036-10 MIC TRAC	0" - 36"
PGC-48-W2	Precision Calibration Package with MT-4048-10 MIC TRAC	0" - 48"

MIC TRAC PACKAGE TRAINING OPTIONS

We also offer expert-led training for our precision gage calibration systems at your location or at our facility. Please contact customer service for more information.

PGC-__-W2 Training Options:	Option A: Training at customer's facility (per day, plus airfare)
	Option B: Training at Gagemaker's facility (per day, per person)

HOW TO ORDER

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



Ring and Plug Gage Inspection, Gage Setting and Calibration

MIC TRAC MT-4000 BASE UNITS

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

Model	Description	Accuracy	Resolution	Range
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"

MIC TRAC MT-4000 OPTIONAL EQUIPMENT

Model	Description
AWH-100	Allen wrench holder with wrenches
CAL-PAK	Complete Calibration Package Includes: TF-IND, TF-DG, TF-CA, TF-TI, TF-SV, TF-SS, TF-VN, TF-1F, TF-SA, and storage cases. All parts are available individually. For more information, please see Cal-Pak datasheet.
CAL-PAK-API	Complete Calibration Package Includes: TF-1F, TF-CA, TF-DG, TF-IND, TF-LG-2, TF-LG-3, TF-SA, TF-SS, TF-SV, TF-TI, TF-VB, TF-VN, and storage cases
CERTIFI	CERTIFI report writer, database and digital readout software.
CRC-MT4000	Complete procedural documentation for the calibration of handheld inspection equipment including: O.D. & I.D. micrometers, calipers, depth micrometers, ring and plug gages, and more.
MT-4-USB	Digital readout software
TDWIN	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.
TF-2R	3/8" diameter carbide anvil set
TF-SB	Adjustable height support table
TF-SB-1	Bearing rail support base
TF-XYT	Adjustable height support table, X-axis & Y-axis support base
TW-50	50 in-lb torque wrench with 5/32" hex wrench adapter
CYLINDRICAL RING & THREAD RING AND PLUG GAGE ACCESSORIES	
TF-1F	Flat face setting blocks
TF-CP	Ball contact holders, .500 ID measurement
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 P.D. module (for solid style rings)
TF-SP-5	For vertically holding gage pins .062 - .500
TF-SP-75	For vertically holding gage pins .062 - .750
TF-TP	Calibration fixture for NPT, NPTF and ANPT tapered plug gages (includes wire for 27, 18, 14, and 11 1/2 pitch threaded plugs). (Requires TF-2R blocks)
INDIVIDUAL THREAD WIRE HOLDER MODULES FOR UN, ACME AND METRIC THREADS	
All are to be used on TF-2R Blocks. All are supplied with one set of wires, please specify pitch. "___" denotes pitch, ex. TF-WHV-12 = 60° thread wire holder module with wires 12 pitch.	
TF-WHV-___	60° thread wire holder module with wires 5 pitch to 48 pitch
TF-WHV-___	60° thread wire holder module with wires 1-4 pitch, 56-72 pitch
TF-WHA-___	29° thread wire holder module with wires 2 pitch, 3 pitch
TF-WHA-___	29° thread wire holder module with wires 4 pitch to 20 pitch
TF-WHM-___	Metric thread wire holder module with wires .5 mm-.8 mm, 5 mm-6 mm pitch
TF-WHM-___	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-___	Wire holder only

SPECIFICATIONS

Model	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)

