MIC TRAC Measurement Center MT-3000
Part Inspection, Gage Setting and Calibration

MIC TRAC MT-3000
Measurement Center with Digital Readout

Inspects Machined Parts

Calibrates a Variety of Inspection Gages

HOW TO ORDER

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

2. Select any optional equipment needed.

The MIC TRAC is an electronic, adjustable calibration and measurement center that will inspect parts, preset indicator style gages, and calibrate a variety of hand held inspection gages. The MT-3000 measurement system includes the base unit, which houses the optical scale and provides the MIC TRAC's precision measuring capability. The base unit may include an optional Force-Lok™ feature that provides a constant measurement force, which improves repeatability from operator to operator.

The MIC TRAC contains receiver pads, which are precision ground in matched sets, and used as parallel surfaces for measuring or holding fixtures. The MT-3000's CPU digital readout displays measurement readings in inches or metric.

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

- Accuracies to ±.0001" traceable to NIST
- Resolution of .00005"
- Force-Lok feature improves repeatability from operator to operator
- Digital readout provides measurement readings in inch or metric
- Durable construction allows use in a variety of environments
- Versatility allows companies to meet several measurement needs

MIC TRAC MT-3000 BASE UNITS

Supplied with Digital Readout CPU as shown, TF-PL setting blocks and shipping carton.

MT-3000 STANDARD BASE UNITS WITHOUT FORCE-LOK

Model	Description	Accuracy	Resolution	Range
MT-3012-50	MIC TRAC Base Unit w/ DRO	±.0001"	.00005"	0" – 12"
MT-3024-50	MIC TRAC Base Unit w/ DRO	±.0002"	.00005"	0" – 24"
MT-3036-50	MIC TRAC Base Unit w/ DRO	±.0003"	.00005"	0" – 36"
MT-3048-50	MIC TRAC Base Unit w/ DRO	±.0004"	.00005"	0" – 48"
MT-3060-50	MIC TRAC Base Unit w/ DRO	±.0005"	.00005"	0" – 60"

MT-3000 STANDARD BASE UNITS WITH FORCE-LOK

Model	Description	Accuracy	Resolution	Range
MT-3012F-50	MIC TRAC Base Unit w/ DRO	±.0001"	.00005"	0" – 12"
MT-3024F-50	MIC TRAC Base Unit w/ DRO	±.0002"	.00005"	0" – 24"
MT-3036F-50	MIC TRAC Base Unit w/ DRO	±.0003"	.00005"	0" – 36"
MT-3048F-50	MIC TRAC Base Unit w/ DRO	±.0004"	.00005"	0" – 48"
MT-3060F-50	MIC TRAC Base Unit w/ DRO	±.0005"	.00005"	0" – 60"

MT-3000 BASE UNIT WITH DESKTOP COMPUTER & MT-4-USB

Model	Description	Acc.	Res.	Range
MT-3012F-50-USBC	MIC TRAC Base Unit with Force-Lok, Computer, & USB	+.0001"	.00005"	Int. 0" - 12" Ext. 1½" - 13½
MT-3024F-50-USBC	MIC TRAC Base Unit with Force-Lok, Computer, & USB	+.0002"	.00005"	Int. 0" - 24" Ext. 1½" - 25½
MT-3036F-50-USBC	MIC TRAC Base Unit with Force-Lok, Computer, & USB	+.0003"	.00005"	Int. 0" - 36" Ext. 1½" - 37½
MT-3048F-50-USBC	MIC TRAC Base Unit with Force-Lok, Computer, & USB	+.0004"	.00005"	Int. 0" - 48" Ext. 1½" - 49½
MT-3060F-50-USBC	MIC TRAC Base Unit with Force-Lok, Computer, & USB	+.0005"	.00005"	Int. 0" - 60" Ext. 1½" - 61½

HIGH RESOLUTION MT-3000 STANDARD BASE UNITS WITH FORCE-LOK, MT-4-USB AND DESKTOP COMPUTER

Base model with desktop computer, MT-4-USB, calibration software, TF-PL setting blocks, and a shipping carton.

Model	Description	Acc.	Res.	Range
MT-3012F-10-USBC	MIC TRAC Base Unit with Force-Lok, Computer, & USB	±.00005"	.00001	0" – 12"
MT-3024F-10-USBC	MIC TRAC Base Unit with Force-Lok, Computer, & USB	±.00010"	.00001	0" – 24"
MT-3036F-10-USBC	MIC TRAC Base Unit with Force-Lok, Computer, & USB	±.00015"	.00001	0" – 36"
MT-3048F-10-USBC	MIC TRAC Base Unit with Force-Lok, Computer, & USB	±.00020"	.00001	0" – 48"
MT-3060F-10-USBC	MIC TRAC Base Unit with Force-Lok, Computer, & USB	±.00023"	.00001	0" – 60"

Prices subject to change without notice.

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MIC TRAC MT-3000 OPTIONAL EQUIPMENT

Model	Description
TW-50	50 in-lb toque wrench with 5/32" hex wrench adapter
CRC-MT3000	Complete procedural documentation for the calibration of handheld inspection equipment
TD-WIN	Thread Disk for Windows software for calculating critical setting dimensions for threads.
TD-WIN-UP	Thread Disk for Windows software upgrade

MIC TRAC SETTING BLOCKS

The setting blocks are anvils that have an accurate taper ground into the gauging surfaces. The blocks are supplied in sets of 2 and mount on the MT- 3000 receiver blocks.

Model	Description
SHALLOW TAPERED CYLINDER SETTING BLOCKS (2 Block Sets) (BX-1000)	
TF-10	Tapered Setting Blocks 10° half angle
TF-15	Tapered Setting Blocks 15° half angle
TF-20	Tapered Setting Blocks 20° half angle
TF-30	Tapered Setting Blocks 30° half angle
TF-45	Tapered Setting Blocks 40° half angle
SPECIAL PURPOSE SETTING BLOCKS	
TF-.5F	Flat Face Setting Blocks (1.000" outside dim.)
TF-1F	Universal flat face setting / measuring blocks (1.500" outside dim.)
TF-PL	Flat Face Setting Blocks, No taper (supplied with MIC TRAC)
API 6A RING GROOVE SETTING BLOCKS	
TF-BX	23° angled face setting blocks (2 per set)
THREAD GAGE SETTING BLOCKS	
TF-1V	1 - 5 pitch 60° "V" thread setting blocks (2 per set)
TF-2V	6 - 20 pitch 60° "V" thread setting blocks (2 per set)
TUBING AND CASING TAPER SETTING BLOCKS	
TF-STR	Straight Blocks
TF-.75T	¾" Taper Blocks, 8 & 10 Round, ¾" TPF Buttress, Line Pipe
TF-1.0T	1" Taper Blocks, 1" TPF Buttress
TF-1.12T	1⅛" Taper Blocks, 1.125 TPF Connectors
TF-1.75T	1¾" Taper Blocks, 1.75 TPF Connectors
Special Taper Blocks Available	
MRP STRAIGHT FACE SETTING BLOCKS	
TF-1F-T	Flat face setting blocks to accept riser block (T-Shape)
RISER BLOCKS FOR THE TAPER BLOCKS	
TF-RISER1	1.00" Riser Block (Set of 2)
TF-RISER2	2.00" Riser Block (Set of 2)
TF-RISER3	3.00" Riser Block (Set of 2)

GAGE CALIBRATION SYSTEM OPTIONS FOR LARGER REQUIREMENTS

Model	Description
CAL-PAK	Complete Calibration Package Includes: TF-IND, TF-DG, TF-CA, TF-LG-2, TF-LG-3, TF-SV, TF-SS, TF-VB, TF-1F, TF-SA, and storage cases
TF-IND	AGD dial indicator. Calibration fixture (includes .375" and 8mm bushing and TF-2F block)
TF-DG	Calibration fixture for depth micrometer*
TF-CA	Caliper calibration accessory dial, digital and vernier calipers. Includes TF-SA support arm.
TF-TI	Test indicator calibration block*
TF-SA	Support arm for TF-CA.
TF-SS	Straight support accessory for support of extended probes*
TF-SV	"V" support accessory for calibrating micrometers and standards**
TF-VN	"V" blocks for calibration of axial travel probes and bore gages
TF-1F	Flat face setting block set (2 blocks) 1.5000" outside diameter
TF-BA	Base support block for setting dial bore gages**
TF-VB	"V" block fixture for calibration of Gagemaker's TH-3004 and MRP-2002 Upper arms*
TF-LG-2	Lead gage calibration fixture for either Allen or Gagemaker gages
TF-LG-3	Gagemaker lead gage calibration fixture*
TF-BI	Base support plate for setting dial bore gages**
TF-CG	Universal clamping fixture for calibration of indicators and gages*

***1 TF-1F block required with this accessory** ****2 TF-1F blocks required with this accessory**

SPECIFICATIONS

Model	Dimensions	Weight
MT-3012	28.5 in x 9 in x 11.25 in (723.9mm x 228.6mm x 285.75mm)	98 lbs. (44.5 kg)
MT-3024	40 in x 9 in x 11.25 in (1016.0mm x 228.6mm x 285.75mm)	126 lbs. (51.3 kg)
MT-3036	52.5 in x 9 in x 11.25 in (1333.5mm x 228.6mm x 285.75mm)	158 lbs. (71.8 kg)
MT-3048	63.5 in x 9 in x 11.25 in (1612.9mm x 228.6mm x 285.75mm)	188. lbs. (85.5 kg)
MT-3060	63.5 in x 9 in x 11.25 in (1892.3mm x 228.6mm x 285.75mm)	225 lbs. (102.2 kg)

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