

METROLOGY SOLUTIONS 2025





Houston (713) 682-1889



GLOBAL Touch+ CMMs

General-purpose measurements of size features with highly repeatable touch-trigger probing

Using a highly versatile and accurate 6-way touch-trigger probe with a motorised indexing probe head to flexibly position the probe during measurement, the GLOBAL Touch+ model is configured to provide outstanding tactile single-point measurement performance on prismatic parts.

Fax

(713) 681-4931

Optimal feature accessibility and minimised stylus changes are guaranteed even for the most intricate 3D part geometries. In addition, a multi-port module changer rack allows fast and repeatable changing of probe modules with different trigger forces and styli configurations without recalibration, further contributing to streamlining measuring cycles.

Challenges

Parts of varying complexity and size Standard geometric size features: distances, radii, angles, inner and

HEXAGON

- outer diameters Position and orientation tolerances
- Complex 3D arrangement of geometric elements around the part

Benefits

- Rapid inspection
- Simple methodology
- Versatile measurements CAD-based measurement



6-way touch-trigger probe mounted on an automatic probe head

Highly repeatable 3D point measurement on all sides of a workpiece.

Fastest accessibility to complex geometries with difficult-to-reach measuring positions.



Flexible probe module changer rack

Adjust configurations to the application with automated exchange of probe modules during the measurement routine without recalibration.



GLOBAL Scan+ CMMs

General-purpose measurements of size and form features with high performance tactile scanning

GLOBAL Scan+ adds tactile scanning to the range of possible applications. With tactile scanning, a large number of surface points are captured within a short time, enabling highly accurate form and profile measurements on functional parts. GLOBAL Scan+ combines tactile scanning capability with the flexibility of an automatic probe head. The scanning probe can be positioned at various spatial angles, making accessing more complex workpieces easy. An accompanying styli changer rack accelerates the inspection process by enabling fast changes of styli configurations within a measuring program without restricting the available measurement volume

Challenges

- Functional fit assessment
- Assembly parts with narrow form tolerances: straightness, flatness, roundness.
- cylindricity, line/surface profile Efficient in-line measurement of the most complex part geometries with high precision

Benefits

- Measurement of features with tolerances in a low micron range
- High scanning speed and measuring throughput
- High measuring point density for an accurate evaluation of form errors
- CAD-based scan path creation, 3D simulated collision checks and probe path optimisations. real-time part-to-CAD comparison and GD&T analysis



Styli changer rack outside the measurement volume Automatically exchange styli configurations without restricting the measuring volume.







Tactile scanning probe mounted on an automatic probe head

Fast and accurate contour and

form measurements with the best-suited orientation due to

flexible sensor positioning.

Engine Blocks





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The 4.5.4 SF shares many of the unique user-experience

benefits as the 7.10.7 SF

such as accuracy, extended

support: however, the most

is its flexibility. The compact

specifically designed to fit

temperature range and weight

notable benefit of the 4.5.4 SF

footprint and roll-around stand,

through a standard door, lets

you easily relocate the 4.5.4

a 110V outlet is present and

is required.

SF anywhere in the shop where

precise dimensional inspection



Shop floor CMMs

TIGO SF CMM

Best for Shop-Floor Use

- A step toward automation Space-saving design, vibration-resistant.
 - No compressed air needed.
 - Comes with a granite base and thermally
 - stable construction. Good for smaller parts and tight spaces.

In production, you are aiming at a constant flow from milling, drilling, threading, and grinding, all the way to final inspection. TIGO SF is the most accurate measurement tool to include quality assurance seamlessly in your production line. A robust design combats challenges CMMs are faced with on the shop floor. The intuitive operating system opens up the world of metrology to everyone. With TIGO SF you are able to measure accurately where it matters

most in terms of quality: directly in production. TIGO SF brings sophisticated measurement technology to the shop floor.

Open access to the measurement range allows for loading from all three sides, giving you the flexibility to load components manually or automatically in the production line. With enhanced user options such as data exchange capabilities, a protective machine stand for easy shop floor integration, message lighting and Eco Mode the TIGO SF allows for easy integration into automated inspection cells.

TIGO SF Features and Benefits

- Measuring Capacity: 500 x 580 x 500 mm (X, Y, Z) **Open Access Measuring Volume**
- Easy loading and unloading of workpieces thanks to the full accessibility offered by the TIGO SF's three open sides.
- **Compact Size**

The PC, controller and peripherals including the screen and the keyboard are all mounted to the same base to ensure minimal footprint for easy placement onto the shop floor or production line. TIGO SF offers the best volume to footprint ratio in its class

Linear Guideways

All axes on the TIGO SF work on a linear guideway system with no air required, reducing the risk from production contaminants and making installation and relocation simpler.

Ergonomic Workstation

TIGO SF's ergonomically-designed workstation allows operators to position the screen and keyboard exactly where they need it, while an easy-to-reach USB port enables fast data transfer.

Eco Mode

Eco Mode automatically powers down the machine when it stands idle, improving energy efficiency without shutting down the CMM. Eco Mode supports environmental sustainability whilst reducing operating costs, giving metrology the green light.

Flv2 Mode

Fly2 Mode is a trajectory-control feature for enhanced probe movement. It decreases program execution times whilst reducing operating and maintenance costs by optimising machine motion and trajectories, causing less stress on moving parts.

Scan Pilot

The Scan Pilot advanced firmware algorithm and motion-control parameters enable accurate measurement of undefined path profiles quickly with minimal setup. Consistent contact is achieved through greater motion control, even in the presence of abrupt surface changes, allowing users to save time on non-predefined measurement tasks.

PULSE

When fluctuations in environmental conditions are enough to affect a measurement result, PULSE provides traceability through environment monitoring. PULSE uses a network of sensors to record variations in temperature, vibration and humidity in the CMM environment as well as monitoring for machine collisions, and sends alerts to the user via email or SMS when predefined operating conditions are exceeded.

XT Option

The optional XT upgrade enables accurate and reliable measurement in an expanded temperature range of 15 °C to 40 °C, and can be applied to all new TIGO SF CMMs or to existing machine installations as a retrofit.

Messaging Lights

LED status indicator lights are mounted on the Z-axis cover to allow at-a-glance assessment of the machine and program status from across the factory floor. Users have a clear visual indication of whether measurements are in progress or if the CMM requires operator intervention. This means the CMM can be left unattended, allowing time and resource optimisation.



7.10.7 SF CMM

Largest hard-bearing shop floor CMM on the market

floor counts, and for this reason we have designed the 7.10.7 SF to occupy as little space as possible. Creating the ultimate user experience, the computer, controller and interface boxes are housed in one self-contained unit. The 7.10.7 SF integrates LED lighting which illuminates the workspace. This feature further enhances your ability to be productive by enabling you to focus on those hard to define geometric characteristics, such as hidden surfaces or non-line of sight features. An optional integrated part fixture system provides you flexibility by enabling you to locate a variety of fixture plates on the table for multiple part inspection.

Every square inch of your shop

The 7.10.7 SF provides you with accuracy and throughput, as well as the needed confidence to validate your process before you deliver your final product.

TIGO SF Probe heads and sensors



HH-A-M5 / HH-A-T5 Indexable **Probe Head** Angular rotation A axis: +90° / -115° B axis: ±180 Angular rotation step 5

HH-A-M7.5 / HH-A-T7.5 Indexable **Probe Head** Angular rotation A axis: +105° / 0° B axis: +180 Angular rotation step 7.5



MAESTRO is the all-digital CMM solution that's leading a revolution in metrology. MAESTRO's pioneering hardware and software combination delivers unparalleled speed, unmatched ease of use, seamless connectivity and future-proof adaptability.

Why MAESTRO, why now?

In today's constantly shifting economic landscape, your business must stay laserfocused on efficiency, productivity, and cost reduction. But while challenges remain, the digital revolution, presents a golden opportunity to reshape industry norms, through the convergence of technology, hyper-connectivity, and data analytics.

The time is right to bring a more powerful, advanced CMM solution to market. One that meets your business challenges by revolutionizing traditional metrology processes.

With MAESTRO, Hexagon delivers a paradigm shift in CMMs, leading the charge on accuracy and quality, all to keep you ahead of the game.

The metrology revolution starts here, with MAESTRO. Quality remastered.

MAESTRO leads the metrology revolution in four powerful ways.



Speed of operation.

Faster throughput is necessary thanks to the sheer pace of technological advancement and innovation in almost every industry, from Aerospace to Automotive.

S Ea

Ease of use.

MAESTRO makes metrology accessible for all kinds of skill sets by making even the most complex measurement task simpler.



Digital connectivity.

No longer a nice-to-have, digital connectivity is now a must-have for any business demanding better collaboration. Access to data anywhere, anytime is critical to keeping ahead of the competition.



Faster CMM Performance

Future-proof design.

While always significant, futureproofing is now critical. The investment in the best equipment, delivering ROI, and lowering the total cost of ownership is too important.





Decades of metrology experience have gone into designing MAESTRO.

Software Metrology Mentor

Thanks to its intuitive user interface, Metrology Mentor software makes programming MAESTRO extremely fast. Measurement programs are created rapidly, reliably and repeatably.

Metrology Mentor automates CMM programming, streamlining the process for users at any experience level. Customers can generate and manage measurement programs via a single dashboard and establish a digital thread for smarter metrology workflows. Using PMI data, Metrology Mentor automates CMM programming to deliver rapid, reliable, and repeatable collision-free CMM programs. Programming is reduced to a few simple clicks, increasing proficiency. Adherence to ISO and ASME standards increases quality. And best practice measurement strategies deliver confidence.

ALSO AVAILABLE:	•	Metrology software PC-DMIS
	•	Software Metrology Asset Manager

New levels of speed, new levels of efficiency.



Intuitive, modern software for faster programming and sharing.



Faster speed never compromises superior accuracy, up to 1.8 $\mu\text{m}/20$ s.

Bass Tool & Supply, Inc. www.basstool.com	Houston (713) 682-1889	Email sales@basstool.com	Fax (713) 681-4931	Toll Free 800-442-0042
FIXTURE &	CLAMPING	COMPONEN	TS FOR CM	N'S
				TENSION SPRING STANDOFF SIDE BASE PIN STANDOFF RESTING PIN SUCTION CUP SPANNING HOLD DEVICE
	CUSTON CONT	HELP WITH A FIXTURING? ACT US AT: Characteristics of the second secon	NDOFFS 20" THREAD	Thread
CLAMPING KITS: 1/4"-20" HOLES (ALSO AVAILABLE IN M4, M6, & M8)	MAGNETIC CLAMP 1/4"-20" THREAD (ALSO AVAILABLE IN M4 KIT 'A' SHOWN	R20- R20- R20- R20- R20- R20- R20- R20-	2525-SO* 0.250" 0.25" 2550-SO* 0.2500" 0.50" 2515-SO* 0.2500" 0.75" 251-SO* 0.2500" 0.75" 251-SO* 0.250" 1.00" 37525-SO* 0.375" 0.25" 37555-SO 0.375" 0.50" 3751-SO 0.375" 0.75" 5025-SO* 0.500" 0.25" 5050-SO 0.500" 0.50" 8075-SO 0.500" 0.75"	120-566-SO 0.50" 6.00" 120-7550-SO 0.75" 0.50" 120-7575-SO 0.75" 0.75" 120-7575-SO 0.75" 1.00" 120-757-SO 0.75" 1.00" 120-753-SO 0.75" 2.00" 120-753-SO 0.75" 4.00" 120-753-SO 0.75" 4.00" 120-755-SO 0.75" 5.00" 120-756-SO 0.75" 5.00" 120-756-SO 0.75" 6.00" 120-756-SO 0.75" 6.00" 120-756-SO 0.75" 6.00" 120-756-SO 1.00" 0.50"
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HEXAGON MARVELSCAN - Handheld 3D Scanner





With on-part targets, inspection can happen without the need for time-consuming secure part fixturing – the part can be freely moved, on a turntable or even by hand, and the scanner will maintain perfect measurement within a unified coordinate system.



Complete freedom of movement

Scan where needed without restrictions – MARVELSCAN can reach into hidden areas and see

A lightweight handheld 3D scanner makes it

straightforward to take the inspection process to the measurement object instead of bringing the part to the quality room.

Break free from cables and referencing hardware with complete wireless connectivity.



Seamless scanning that adapts to your workflows

Change scanning modes directly from the handheld 3D scanner happens at the touch of your fingertip, with options for larger-scale measurements, higherdefinition feature inspection, hard-to-reach areas and multiple holes and slots.

Data collected by the MARVELSCAN with different 3D scanning modes is seamlessly combined within the same point cloud/mesh.

Scan where you want | Inspection in your hands

From Hexagon's first-ever range of handheld 3D scanners, the MARVELSCAN allows you to easily scan whatever you want, wherever you want – just use your hands. Multi-mode and dynamic scanning put you in control of adapting the scanning workflow to specific application needs without interruption.

The additional top camera provides the target-free functionality of the MARVELSCAN, making it ideal for the scanning of large or delicate parts as well as repetitive scanning processes. With this built-in photogrammetry system, scanning accuracy is enhanced for larger part sizes.

Galaxy mode

Thanks to the dual-camera system and built-in software algorithm, volumetric accuracy can be simply controlled by scanning the rectangle scale bar to allow quick changes during an inspection task

3 scan modes

Standard, Fine and Line scanning modes let you tailor your scanner performance to the application at hand, for greater efficiency or resolution as needed

Multi-size target recognition

Maximise efficiency by using different target sizes (3/6/12/16mm) for different applications during the scanning process.

Combine scanning mode results

Data collected with different scanning modes is seamlessly combined within the same point-cloud/ mesh for ease of analysis and reporting

Hole Flash Capture technology

Rapid simultaneous inspection of multiple circular and slotted features speeds up the workflow for a key industrial inspection challenge

Instant visual feedback

Know you're scanning correctly without returning to the control computer with built-in LED feedback system on the handset

Automation ready

The MARVEL SCAN is ready for straightforward third-party integration within automated inspection systems

VDI/VDE certification

Results are certified in line with the VDI/VDE 2634-3 to assure reliability and comparability of measurement

Wireless Scanning Module

Large standoff

Collect data from further away from the part, making it easier to access internal inspection areas such as tooling cavities, as well enabling automation system integration with lower collision risk

Change modes on-the-fly

Switch between scanning modes during measurement, directly from the handset, allowing you to fine-tune performance not just to the application but individual sections of the application

Lightweight ergonomic design

Fits perfectly in the hand and light enough to take anywhere and use comfortably for long inspection projects

Technical specifications

	Model	MARVELSCAN			
Scanning mode		Standard/line mode	Fine mode		
Measurement rate		2 100 000 pts/s	900 000 pts/s		
Scanning area		Up to 600×550 mm (line mode 300 mm)		
Light source		22 blue laser lines + single blue parallel blue laser			
Resolution		Up to 0.	02 mm		
Accuracy		Up to 0.	02mm		
	Volumetric accuracy-standard	0.02+0.04	4 mm/m		
	Volumetric accuracy with scale bar 1	0.02+0.03	3 mm/m		
With targets	Hole accuracy ²	up to 0.0	03 mm		
	Hole volumetric accuracy ²	0.03+0.0	4mm/m		
	Volumetric accuracy + photogrammetry	0.02+0.02	2 mm/m		
T	Volumetric accuracy-standard	0.05+0.02mm/m			
Target-free	Hole volumetric accuracy	0.06+0.0	2mm/m		
	Volumetric accuracy	0.020 mm/m			
Built-in photogrammetry ³	Average deviation	0.007 mm			
photogrammetry	Depth of field	600-2500 mm			
Stand-off distance		300mm	150mm		
Depth of field		450mm	150mm		
Depth of field (@fu	rthest range)	550 mm			
Weight		1.3 kg			
Dimensions		300×150×75 mm			
Connection standa	rd	USB 3.0			
Working temperatu	ire	-10 to 40°C			
Working humidity (non-condensing)	10%-90%			
Export formats		.stl, .ply, .obj, .txt, .xyz, .asc. etc., customisable			
Compatible softwa	re	Hexagon (Inspire, PC-DMIS, DESIGNER) Third-party software (PolyWorks, Geomagic/Oqton, Metrologic and any other software that can import point clouds or STL file format)			

² Hole flash capture mode ³ Scale bar included in standard package

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Bass Tool & Supply, Inc. www.basstool.com





HYPERSCAN

DYNAMIC SCANNING WITH OPTICAL TRACKING FOR HANDHELD AND AUTOMATED OPERATION

HYPERSCAN is purpose-built for high-output environments where (large and medium-sized) parts demand fast, efficient, and consistent scanning. With features like high-speed data capture, dynamic tracking, and optical tracking 3D scanning system, it reduces manual input while delivering accuracy, even in unstable conditions, and doesn't require the part to be in a fixed position, giving operators greater flexibility and freedom during inspection.





Whether scanning in manual use case or automated configurations, HYPERSCAN keeps workflows moving with fewer interruptions, helping manufacturers maximise throughput and improve efficiency.

KEY FEATURES

HYPERSCAN enhances productivity across a wide range of manufacturing environments with fast, accurate scanning for parts of all sizes, even in unstable or dynamic conditions. Combining real-time dynamic tracking, multi-mode scanning, and target-free operation in a compact, user-friendly system, it streamlines workflows, reduces setup time, and delivers reliable results in both manual and automated applications.

Speed Without Setup

HYPERSCAN eliminates the need for traditional reference targets, allowing you to start scanning immediately, no extra prep, no repositioning, no wasted time. Its intelligent optical tracking system locks on to the optical tracking 3D scanning system position in real time, enabling smooth, uninterrupted scanning even on large or complex parts.



Scanning speed

High-speed laser scanning engine collects 8.3 million pts/sec, enabling rapid inspection of even large or detailed parts.



Target-free

Features a target-less scanning system that uses an optical tracking unit.



focus on what is needed .

Uninterrupted tracking Just pick up the sensor head and start scanning, multi camera tracking capability extends scanning volume & efficiency.



unattended scanning.

Automation



Smart scanning

Within a single workflow, delivering flexibility without added complexity.

Turnkey solution HYPERSCAN is compatible with Hexagon's PRESTO

system (automated scanning inspection cell).

Versatility

Portable

Its lightweight, ergonomic design and real-time dynamic tracking enable mobile use.



Real-time dynamic tracking allows the user to scan in confidence in unstable and vibration conditions.



Supports dual-mode operation, functioning seamlessly in both handheld and automated robot configurations.

Multi-mode scanning

Switch between Standard, Fine. Line, or Hole Flash modes to match surface conditions, part size, or required detail, all from one device.



Seamless Automation

HYPERSCAN is engineered for seamless integration into automated environments, from robotic inspection cells to inline production systems. With features like dynamic tracking, target-free scanning, and pre-configured automation-ready settings, it delivers consistent, repeatable results with minimal operator input.





Workstations

6-Axis Arm

Entry-level 3D scanning for

6-Axis systems.



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HEXAGON TRACKERS FOR HIGH-ACCURACY MEASUREMENT OF LARGE COMPONENTS

EXPLORE THE FULL RANGE OF LASER TRACKER SYSTEMS, FROM PORTABLE AND LARGE VOLUME TO AUTOMATED AND HIGH VOLUME

AT500 Leica Absolute Tracker AT500

 An ultra-long-range tracker designed for measurement anywhere and best-in-class usability.



All-weather performance: IP54-rated protection and a working temperature range of -15 to +50°C make it reliable in extreme conditions.

Compact design: Integrated controller, battery power and wireless functionality for maximum portability and flexibility.

Unmatched



range and scale Made for large structures:

Measures up to 320 metres in diameter, ideal for inspecting large structures like ships and antennas.

Consistent accuracy: Ensures accuracy from right in front of the tracker up to 160 metres, even in open-area inspections.

Easy and accurate

User-friendly features: One-button operation and WiFi connectivity simplify setup and use.

Flexible orientation: Works in any position, including upside down, for diverse applications.

High precision: Achieves 3D position accuracy down to 10 microns for precise measurements.

Seamless

Efficient relocation within the same coordinate system, using 3D reflector measurement ensures continuity without recalibration, saving time on expansive measurement tasks

Compatible with entry-level B-Probeplus



AT960 Leica Absolute Tracker AT960 The flagship of the Absolute Tracker range, offering full 6DoF measuring functionality. Capable of powering both manual and automated inspection and production systems, compatible with portable probe and scanning

Precise

Exceptional accuracy: Measures with distance uncertainty of just ±10 microns to any sensor, ensuring trusted results for critical applications.

Advanced zoom technology: Built-in mini variozoom lenses maintain clear LED target tracking over long distances.

Versatile and fast

Long-range capability: High-accuracy reflector measurements at up to 80 metres for large-scale applications.

Data collection: Collects location data at up to 1000 Hertz and supports non-contact scanners registering 1.2 million points per second for rapid inspections.

Portable

Wireless: Compact, battery-powered and wireless design for use anywhere, from shop floors to remote sites.

Move with you: Operates in quality rooms, on production lines, or within robotic setups.

Fully automation-ready

Automated inspection: Assembly and production within a robotic setup when paired with sensors such as the AS1 and AS1-XL scanners and the Leica T-Mac.

Real-time robotic control: thanks to its 6DoF and 7DoF tracking capabilities

Flexible and autonomous systems: Through integration with AGVs, AMRs and dynamic inspection setups.

Accuracy independent of robotic precision: Thanks to features like tool changers and wide-angle reflectors that support versatile configurations.



ATS800 Leica Absolute Tracker ATS800 Our premium direct scanning laser tracker

Our premium direct scanning laser tracker, combining reflector measurements with high-accuracy contactless measurement of features and edges, as well as large surfaces, from up to 40 metres.

Precise



Detailed inspections: Captures fine details with precise scans, enabling accurate inspection of edges, fasteners and intricate features directly on production lines.

Selective scanning: True selective scanning allows user-defined areas with uniform point distribution for consistent results.

TruePoint technology:

Pinpoints the true centre of each measurement, keeping them highly accurate to reduce rework. TruePoint saves you time and costs.

Scalable

Distance scanning: Ideal for inspecting sizable assemblies and industrial environments with the ability to scan large objects from afar.

Enhanced safety: Remote operation and scanning at a distance protects workers in busy or hazardous settings.

Efficient

Simplified workflow integration: Compatible with reflectors for metrology assisted assembly and inspection.

Faster alignment: PowerLock technology automatically locks onto reflectors, reducing setup time and accelerating inspections.

Al-powered feature recognition: Automatically identifies and measures features like holes and edges with Feature Detect, speeding up your inspections while maintaining consistency.

Portable

Durable and lightweight: Compact design with integrated WiFi, battery power and IP54 protection ensures reliability and versatility across environments.





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255

No. HB400

All metal construction with

Single bayonet-style lens

LED profile and surface

mounting system

both X and Y axe

illumination

illumination

software or

the X-axis

hard-anodized stage tooling

Linear encoder (glass scale) on

Fixed duplex fiber optic surface

Digital protractor for accurate angle measurement

Available with MetLogix™ M1 tablet, M2 or M3 PC-based

Fine adjustment on all axes

Quick release mechanism on

CUSTOMIZABLE AND CONFIGURABLE

TO YOUR

SPECIFICATIONS

CONTACT:

touch screen measuring

Features

plate

Houston (713) 682-1889

Email sales@basstool.com

starrett

(713) 681-4931

Fax

Toll Free 800-442-0042

Horizontal Benchtop Optical Comparator

No. HD400

- Features All metal construction with hard-anodized stage tooling plate
- 16" (400mm) diameter screen
- Dual-lens mounting system • .
- Linear encoder (glass scale) with 20µin (0.5µm) resolution on both X and Y axes
- LED profile and surface • illumination
- Fully retractable flexible • duplex fiber optic surface illumination
- Digital protractor for accurate angle measurements (1' resolution) via Q-axis readout
- Helix adjustment for accurate thread form inspection
- Available with MetLogix™ M2, M2E or M3 PC-based touch screen measuring software or Mx-Series digital readout system
- Fine adjustment on all axes Quick release mechanism on the X-axis

The HD400 is a dual lens optical comparator offering a two-lens mount allowing instant switching between two magnifications lenses or video camera adapter. The HD400 is equipped with a 16" (400mm) travel workstage as standard. Optional automatic edge detection or video edge detection removes operator subjectivity in locating edges of parts being measured. A bayonet style lens mounting system accepts a choice of six interchangeable lenses as well as our OV2 Zoom or TOV2 fixed telecentric magnification video camera systems. Motorized stage, fully automatic CNC controls and swing-away lamp house

are all optional features





Options

- 10X, 20X, 25X, 31.25X, 50X, 100X projection lenses
- Fiber-optic edge detection
- OV2 Video Adapter for video edge detection
- Manual, motorized or CNC stage motion control
- Choice of tablet computer with MetLogix M2 software, or all-inone touch-screen computer with MetLogix M3 software

CUSTOMIZABLE AND CONFIGURABLE TO YOUR SPECIFICATIONS CONTACT: metrology@basstool.com

PART # 1-STR-	DESCRIPTION
HD400-MX200	HD400 with MetLogix MX200 Readout
HD400-MX200E	HD400 with MetLogix MX200E Readout (w/ Optical Edge Detection)
HD400-M2	HD400 with MetLogix M2
HD400-M2E	HD400 with MetLogix M2E (w/ Optical Edge Detection)
HD400-M3E-VED-OE	HD400 with MetLogix M3E, Touch screen PC with both Video & Optical Edge Detection, Image Archiving and LED Ring Light with Control. Video Lens assemblies sold separately.



Horizontal Benchtop arrett **Optical Projector**

The HB400 provides exceptional performance with a 16" (400mm) diameter viewing screen and high 110lb workload capacity. Single bayonet-style lens mount accepts a choice of interchangeable fixed lenses or choice of video camera system. Available with optional Optical and/or Video edge detection, optional motorized X-Y axes, or fully automatic CNC controls, this comparator provides performance previously only available with floor-standing models.





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zoom lens

Options

- Six interchangeable fixed magnification lenses including 10x, 20x, 25x, 31.25x, 50x and 100x
- Optional 5x fixed lens system available by special order
- Optional extended travel workstage 16" (400mm)
- Automatic optical edge detection
- Automatic video edge detection (available only with OV2 or TOV2 video cameras)

Motorized X and Y axes Fully automatic CNC controls . Swing-away lamp house • Canopy and curtains (designed to •

fixed magnification lens

OV2 Video Camera with 6.5:1

TOV2 Telecentric Video Camera with choice of 0.16x, 0.3x or 0.5x

- mount on cabinet stand) Purpose built cabinet stand
- Extensive line of accessories

PART # 1-STR-DESCRIPTION HB400 with MetLogix MX100 Readout HB400 with MetLogix MX200 Readout HB400-MX100 HB400-MX200 HB400-MX200E HB400 with MetLogix MX200E Readout (w/ Optical Edge Detection) HB400 with MetLogix M2 HB400 with MetLogix M2E (w/ Optical Edge Detection) HB400-M2 HB400-M21 HB400 with MetLogix M3E, Touch screen PC with both Video & Optical Edge Detection, Image Archiving and LED Ring Light with Control. Video Lens assemblies sold separately. HB400-M3E-VED-OE

tarrett

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OPTICAL COMPARATORS - FLOOR STANDING

HF600

Well known throughout the world for superior value and exceptional measuring performance across the full measuring range and at all magnifications, the HF600 sets the standard in all applications from the QC lab to the production floor. The HF600 comparator has a four-position lens turret for instant selection of optional magnification lenses. Inserting the optional OV2 or TOV2 Video Camera System converts the comparator into a video metrology system. Ideal for use over a broad spectrum of industries and applications, the HF600 is designed and built to satisfy the requirements of measuring small to large work pieces with total precision, ruggedness, and efficiency. The HF600 utilizes 2D measurement software for geometries like diameters, radius, angles, lines, points, and for skew correction. Advanced software can also provide many tools such as CAD file import, CAD data export for reverse engineering, standard and custom reports, and Ethernet networking.

Features and Specifications

- 12" x 8" (300 x 200mm) X-Y travel workstage
- All metal construction with nickel plated stage tooling plate
- 24" (600mm) diameter screen with precision cross lines and overlay clips
- Motorized X and Y axes standard Two-axis power drive via joystick and variable speed control for fine adjustment
- Projection lens turret with four lens capacity
- (lenses not included) Turret mounted condenser system and yellow/green filter and provision to mount further accessories
- Stage Weight Capacity: 330lbs (150kg) (evenly distributed)
- Workstage capacity between centers: 17.5" (440mm)
- Fully retractable duplex fiber optic surface illumination
- 20µin (0.5µm) resolution Heidenhain linear scales
- Screen driven rotary 0-axis wtih 1' resolution
- Available with MetLogix™ M1 tablet, M2 or M3 measuring software with touch screen and PC, or Mx-Series digital readout systems
- Complete with full canopy and curtains

Options

Email

- Six interchangeable lens magnification including 10x, 20x, 25x, 31.25x, 50x and 100x
- Interchangeable OV2 video camera system with a
- 6.5:1 zoom lens
- Interchangeable TOV2 telecentric video camera systems with choice of 0.16x, 0.3x or 0.5x fixed magnification lenses
- Extended Stage Travel: 20" (500mm) X-axis; 8" (200mm)
- Y-axis Fully automatic CNC controls
- Automatic Optical Edge Detection
- Automatic Video Edge Detection available only with OV2 and TOV2 video camera systems
- Swing-away lamp house
- Extensive line of accessories



PART # 1-STR-	DESCRIPTION	CUSTOMIZABLE AND	38" (965mm) 9" (229mm)	69" (1753mm)
HF600-MX200	HF600 with MetLogix MX200 Readout	CONFIGURABLE TO YOUR	← → ← →	<
HF600-MX200E	HF600 with MetLogix MX200E Readout (w/ Optical Edge Detection)	SPECIFICATIONS CONTACT:		
HF600-M2	HF600 with MetLogix M2	metrology@basstool.com		
HF600-M2E	HF600 with MetLogix M2E			
HF600-M2E-CNC	HF600 with MetLogix M2E and CNC			1}
HF600-M3E-VED-OE	HF600 with MetLogix M3E, Touch screen PC, both Video & Optical Edge Detection, Image Archiving and LED Ring Light with Control. Video Lens assemblies sold separately	Specifications Horizontal Travel 12" (300mm) Vertical Travel 8" (200mm)	6° (152mm)	
HF600-M3E-VED-OE-CNC	HF600 with MetLogix M3E, Touch screen PC, both Video & Optical Edge Detection, Image Archiving and LED Ring Light with Control and CNC. Video Lens assemblies sold separately.	Focus Travel 3" (75mm) Top Plate 25 x 9" (635 x 230mm) Image Erect and reversed Net Weight 1340 lbs. Shipping Weight Crated Dimensions Crated Dimensions 81" x 49" x 89"		

HF750

Utilizing the same exemplary build standards as the HF600, the HF750 super capacity optical comparator delivers benefits from an even larger 30" (762mm) screen, setting a new standard for clarity and brightness. Ideal for use over a broad spectrum of industries and applications, the HF750 is designed and built to startisfy the requirements of measuring small to large work pieces with total precision, ruggedness, and efficiency. The geometric software measures diameter, radius, angle, line and point features, plus part skewing for faster setup. The HF750 is available with optical edge detection or video edge detection with advanced software and OV2 or TOV2 video camera options

Features and Specifications

- 12" x 8" (300 x 200mm) X-Y travel workstage
- All metal construction with nickel plated stage tooling plate
- 30" (762mm) diameter screen with precision cross lines and overlay clips
- Motorized X and Y axes standard
- Two-axis power drive via joystick and variable speed control for fine adjust
- Projection lens turret with three lens capacity (lenses not included)
- Turret mounted condenser system and yellow/green filter and provision to mount further accessories
- Stage Weight Capacity: 330lbs (150kg) (evenly distributed)
- Workstage capacity between centers 17.5" (440mm)
- Fully retractable duplex fiber optic surface illumination
- Halogen profile and surface illumination
- 20µin (0.5µm) resolution Heidenhain linear scales
- Screen driven rotary Q-axis with 1' resolution
- Available with MetLogix™ M1 tablet, M2 or M3 measuring software
- with touch screen and PC, or Mx-Series digital readout systems
- Complete with full canopy and curtains

Options

- Six interchangeable lens magnifications including 10x, 20x, 25x, 31.25x, 50x and 100x
- Interchangeable OV2 video camera system with
- 6.5.1 zoom lens
- Interchangeable TOV2 telecentric video camera systems with choice of 0.16x, 0.3x or 0.5x fixed magnification lenses
- Extended Stage Travel: 20" (500mm) X-axis; 8" (200mm) Y-axis
- Fully automatic CNC controls
- Automatic optical edge detection

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- Swing-away lamp house
- Extensive line of accessories



- Automatic video edge detection available only with OV2 and TOV2 video camera systems



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STARRETT HDV300 | HDV400 | HDV500



CNC Control Maximizes Throughput



Video Edge Detection Eliminates Operator Subjectivity

ACCESSORIES



THE HDV OPTICS

The HDV Series is available with a choice of seven telecentric lenses and a 6.5:1 zoom lens. Lenses are installed by a bayonet fitting, which allows quick changeover between magnifications and between FOV or zoom operation by the user. The 0.14X lens has a dedicated mounting configuration and illuminators.

Starrett's HDV horizontal digital video comparators combine the best features of a horizontal optical comparator and a vision metrology system. With a rigid steel design, they are configured like a traditional horizontal comparator. The workstage is the same as the Starrett field-proven HB400 and HD400 comparators, with a 110lb (50kg) load capacity. The heart of the system centers on a uniquely mounted 5-megapixel digital video camera and are available with a choice of seven telecentric lenses for micron-level resolution and optical distortion as low as 0.001% for accurate field-of-view (FOV) measurements. Lenses provide a maximum field of view of up to 62mm x 47mm. Stage movement can be related to the imported file allowing part comparison up to 400mm long.

The HDV systems house a powerful 64-bit PC, which runs MetLogix M3 Metrology software. With this software, DXF CAD files can be imported and 2D Go-No-Go gauges can be developed directly from the CADfiles. Video edge detection (VED), allows real-time interaction of the imported file with the video image of the part being inspected. Productivity, speed and accuracy are all enhanced. HDV300 and HDV400 systems are available in manual or CNC control, while the HDV500 CNC control is standard.

FEATURES

The HDV Series consists of two models with stage sizes 300mm x 150mm or 400mm x 150mm of X-Y stage travel. They feature a 5-megapixel video camera and a choice of seven interchangeable telecentric lenses (patent pending) for ultra-low optical distortion field-of-view (FOV) measurements.

Using MetLogix M3 software, DXF CAD files can be imported for direct comparison to the part video image. The HDV series can also perform as a manual horizontal vision system for part measurement utilizing a 6.5:1 zoom lens delivering higher magnifications for increased accuracy.

- Steel construciton with hard anodized X Y stage
- 300mm x 150mm (12"x6") of stage travel for HDV300
- 400mm x 150mm (16"x6") of stage travel for HDV400
- 540mm x 130mm (21.3"x5.1") workstage
- 110 lbs (50kg) maximum load capacity
- 51mm (2") of focus travel
- Helix angel adjustment with a ±15° Vernier scale
- Manual X-Y and focus positioning via hand wheels
- Heidenhain glass scales for 0.5um (0.00002") X and Y resolution
- LED illumination for surface and profile lighting

THE SOFTWARE

MetLogix M3 DXF/FOV software under Windows® Professional operating system is the power-house behind the HDV Series. Fully integrated with a M3 controller and a powerful 64-bit computer, which runs the Metlogix software. The main operator interface is a 24" (60cm) touch-screen color monitor. A keyboard is also provided, for ease of data entry and control when desired. All electronics are located in the housing for an integrated design with minimal external wiring.

HDV300 DIMENSIONS & WEIGHT

Shipping weight: 300lb (135 kg) Net weight:

220lb (100kg)

Shipping dimensions:

54"x40"x46" (137x102x117cm)

OPTIONS

- Choice of 7 telecentric lenses for fields of view from 2.36" x 1.77" to 0.09" x 0.07"
- 6.5:1 zoom optics
- 23" or 32" high cabinet
- 23" or 32" high cabir stands





SYSTEM PARAMETER		TELECENTRIC LENSES						6.5:1 ZO	OM LENS
Optical Magnification	.014X	0.30X	0.50X	0.80X	1.0X	2.0X	4.0X	0.7X	4.5X
Magnification on 24" Monitor	8.6X	18.5X	21X	49X	62X	124X	247X	58X	363X
Field of View Width	2.36" (63mm)	1.14" (29mm)	.59" (15mm)	.43" (11mm)	.35" (9mm)	.18" (4.3mm)	.09" (2.3mm)	.4" (11mm)	.05" (1.5mm)
Working Distance		4.3" (110mm) 3.4" (88mm)						38mm)	
Optical Distortion, %	0.001	0.001	0.002	0.002	0.005	0.005	0.006	N/A	N/A

- 5 megapixel black & white camera (2448x2058 pixels)
 Ultra-low distortion to 0.001% for
- telecentric field-of-view measurements
- 64-bit Intel[®] Processor
- Windows[®] Professional operating system
- Mindows⁻ Professional operating system
 MetLogix M3 software with DXF/FOV option pack
- Parts displayed on 24" (60cm) touch-screen color monitor (1920x1080 pixels)

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SOFTWARE FEATURES

PC installed in main housing	✓
Color graphic touch-screen	~
Windows® Professional operating system	\checkmark
X-Y-Q (angle) measurements	✓
2D geometry software with skew	✓
Video edge detection	\checkmark
CAD file import & export	\checkmark
FOV measurements	\checkmark
Elimination of overlays	\checkmark



MANTIS - ERGONOMIC STEREO MICROSCOPE

Email

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Mantis is THE stereo microscope brand trusted by thousands of customers globally to deliver excellent high quality images for a wide range of magnification applications, in an easy to use ergonomic system.

www.basstool.com

The Mantis advantage delivers six key benefits:

- 1. Unique large high quality optical 4. Suitable for a wide range of applications stereo image
- 2. Ergonomic design for user comfort and productivity
- 3. 5 different ways to illuminate your subject
- 5. Mantis PIXO Digital imaging for collaboration, traceability and training 6. Versatility - Manipulate your subject easily with long working distance, accurate 3D

view, and quick magnification change.

A choice of 3 models (PIXO, ERGO & IOTA) ensures you get the functionality you need to complete your tasks. with maximum accuracy, efficiency and comfort.



Evepiece-less optical stereo microscope with integrated digital camera and dynamic view optics.

Key features

- High Quality Optical Stereo Image
- Ergonomic Working Position
- Long Working Distance
- Integrated High-Definition Camera
- Video And Image Capture
- On Screen Annotation
- Custom Overlays
- Magnification 3x 15x
- 3 Lens Multi-View Turret
- Dynamic 3D Lighting
- White/UV Lighting Option

Evepiece-less optical stereo microscope with dynamic perspective optics.

Key features

- High Quality Optical Stereo Image
- Ergonomic Working Position
- Long Working Distance
- Magnification 3x 15x
- 3 Lens Multi-View Turret
- Dynamic 3D Lighting
- White/UV Lighting Option

Compact eyepiece-less optical stereo microscope with dynamic perspective optics.

Key features

- High Quality Optical Stereo Image
- Ergonomic Working Position
- Long Working Distance
- Magnification 3x 8x
- Interchangeable Lenses
- Synchronized LED Lighting

Dynamic 3D Lighting Dimmable left and right LED lighting for bright, illumination, control to enhance 3D visualisation. **Optional White & UV** lighting

Mantis PIXO and ERGO provide quick change turret for fast change between three magnifications Mantis IOTA has bayonet fit lenses for easy change

Magnification

Dynamic View Optics

Mantis's large, clear image enables the operator to have a range of head movement while viewing the subject, giving them the opportunity to look 'around' the subject rather than just straight down on it.

This 'dynamic view' improves visual

understanding, enabling a view of the sides of features, thereby presenting a much greater level of information than a traditional microscope.

The exit pupil of the Mantis (the diameter of the beam received by the users eyes) is ten times the size of the exit pupil from standard microscope evepieces, delivering a superbly clear and easy to view image.

Whatever you need to magnify or work on, Mantis is THE stereo microscope to use. Manipulate your subject easily with long working distance, accurate 3D view, and quick magnification change.





Head

Presents the user a uniquely dynamic 3D view. Unrivalle ergonomics improve operator comfort and performance

Camera

Mantis PIXO incorporates an advanced 5MP 48fps camera for image display and capture to aid reporting, training and information sharing. Supported by a comprehensive range of software

Verso stand

Counter balanced for easy positioning and rotating base for easy sharing or storage. Optional extension arm

Stands Range of stands to meet customers needs. (Pictured: Verso stand)

MANTIS SYSTEM COMPONENTS

PIXO HEAD: PART #: VIS-MPH001

World-Class ergonomic design with Integrated 5MP HD camera and superior 3D stereo view. Evepieceless expanded pupil technology, with dynamic 3D lighting system and a 3-lens turret for versatile optical configuration. (Includes ViCapture Software for Image capture, Overlays and Annotations)

ERGO HEAD: PART #: VIS-MRH001

World-Class ergonomic design with superior 3d stereo view, eyepiece-less expanded pupil technology, with dynamic 3D lighting system and a 3-lens turret for versatile optical configuration.

IOTA HEAD: PART #: VIS-MIH001

World-Class ergonomic design with superior 3D stereo view, eyepiece-less expanded pupil technology with dynamic 3D lighting.

VERSO ARM: PART #: VIS-MTB200A

Verso Arm with movement restrictor lock, bench clamp, and base mount options. Counterbalanced rotating base with 230mm focus travel, supports subjects up to 132.5mm tall. Requires clamp-mounted bench.

4x PIXO/ERGO Objective PART #: VIS-MT0004 Working Distance: 100mm, FOV: 35.7 mm

4x Mantis IOTA Objective PART #: VIS-MT0104 Working Distance: 108mm, FOV: 29 mm



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ENGINEERING

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COCAM // HIGH DEFINITION DIGITAL MICROSCOPE

No evepieces-uses screen-based digital output.

- High-performance digital microscope with full-HD imaging
- Use for detailed inspection of parts or tool edges.



360° rotating viewer

Add an extra dimension to standard 2D imaging with direct and rotating oblique views of your subject. Utilize the power of motion to enhance three dimensional understanding by rotating the view around the centre of the image. Including an integrated 8-point LED ringlight and objective lens, the 34° degree oblique view allows views around the inside of holes or around the sides of raised components and solder joints.



Flexible illuminators

Optimize light to highlight components. enhance depth perception or control reflections. Ideal for large area reflective subjects.

Zooms up to 300x magnification.

Adjustable LED lighting for inspecting finishes, burrs, or cracks.

Easy user set up

EVO Cam II offers two levels of user settings to ensure operators have the correct level of function access. Simple to understand display- the on screen function description gives users information about EVO Cam II's controls in any one of 10 pre-loaded languages.

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Maximum image quality

EVO Cam II's wide range of precision objectives and wide-field lenses gives you the flexibility to customize your own application specific solution, enabling you to focus on the job.

Two auto and one manual exposure modes with depth of focus control. let you set how much of the subject should be in focus.

Brightness reference levels set the desired level for the auto exposure capability.

Auto white balance and dynamic range expansion digitally extend the ability of the system.

Achieving maximum image clarity is additionally supported utilizing the latest back-illuminated sensor technology, dedicated image

processing and noise management.

- **Powerful functions**
- · Instantly compare the difference between a recorded sample and the sample being inspected.
- 30:1 zoom ratio means magnifications from 10x to 300x can be accessed with a single objective lens.
- · Use hotkeys and shortcuts to quickly access functions.
- Save the most commonly used camera settings with up to ten presets. Choose the optional remote control to improve user comfort and enable quicker access to preset system settings.
- · Use overlays for instruction, comparison or measurement by placing a partially transparent image over the top of the sample view.
- Customize the zoom range to ensure the correct inspection settings.
- Easily capture and share images using wi-fi - ideal for multiple users to quickly view and download images.

Focus stacking

Substage illumination

useful for inspection of translucent

Choose exactly the filter you need from

the range of objective and ring-light filters

available, to enhance details not easily seen

by the human eye. Colour temperature and

polarised filters help to enhance details and

contrast. Selectable colour filters simulate

light from different light sources.

Focus stacking gives you the capability to see an in-focus image in a single view even when the subject has features (depth) beyond the depth of focus of a single exposure.

Light your subject from beneath, particularly



with EVO Cam II's digital caliper or scaled grid. No need to transfer to a separate measurement station. Calibration tracking through the zoom range enables measurement at different points in the zoom range without risk.

Objective lenses

A range of objective lens options ensure optimum result.



Precision objective lenses

Ultra-high resolution and contrast, optimized for precision magnification work with definition excellence

Wide-field objective lenses

Wide field of view, provides maximum flexibility and large zoom range. Suitable for large area subjects.

Micro objective lenses

High optical magnification of very small subject areas and details.

Wide range of lighting to meet your application

materials.

Light Filters

Episcopic (EPI) illuminator

Delivers light along the optical axis, ideal for even the smallest of holes

Ultra Violet ring-light

Commonly used in electronics, aerospace and forensics, quadrant white and UV illuminators are used for inspection of UV fluorescing coatings, dyes and security features.

EVOTIS advanced inspection workstation

Enables EVO Cam II to quickly and efficient inspect fine details on large area subjects such as PCBs and multi-layer components. Available in 3D and 2D configurations, EVOTIS features an independently lockable X-Y stage for methodical inspection along rows of component characteristics.



RANGE OF SOFTWARE AVAILABLE - PLEASE INQUIRE

Technical Information

Objective lens Precision objective lenses	Magnification zoom range*	Working distance	Field of view at min.zoom	Field of view at max.zoom
0.45x	2.3x - 68x	6.30"	9.48" X 5.27"	0.31" X 0.17"
0.62x	3.1x - 93.7x	4.17"	6.81" x 3.78"	0.22" x 0.12"
1.0x	5x - 151.2x	3.35"	3.46" x 2.24"	0.14" x 0.08"
1.5x	7.6x - 226.8x	1.69"	1.77" x 1.41"	0.09" X 0.05"
2.0x	10x - 302.4x	1.14"	1.45" x 1.06"	0.06" x 0.04"
Wide-field objective lenses				
2 diopter	0.8x - 24x	19.69"	25.98" x 14.56"	0.84" x 0.47"
3 diopter	1.15x - 32.6x	12.99"	15.35" x 8.85"	0.57" x 0.33"
4 diopter	1.71x - 51.41x	9.65"	11.53" x 6.73"	0.39" x 0.22"
5 diopter	2.12x - 65.5x	7.76"	9.13" x 5.31"	0.31" X 0.18"
Micro objective lenses				
5x	250x - 378x	0.83"	0.08" x 0.05"	0.05" x 0.03"
10x	500x - 756x	0.83"	0.04" x 0.02"	0.02" x 0.01"

EVO Cam II offers six stand configurations





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Email 800-442-0042 sales@basstool.com (713) 682-1889 (713) 681-4931 SURFTEST SJ-410 SERIES - PORTABLE SURFACE ROUGHNESS TESTER · Both skidded and skidless measurement are · Ultra-fine steps, straightness and waviness · Access to each feature can be Anyone can easily perform possible with this series. Equipped with 46 can be measured by using the skidless password protected, which prevents roughness parameters that conform to the measurement function. high-level data collection. unintended operations and allows latest ISO, DIN, ANSI, and JIS standards. The handheld data processing unit and the you to protect your · A wide-range, high-resolution detector and 5.7-inch color graphic LCD touch-panel settings a drive unit provide superior high-accuracy provides superior readability and operability. · The optional attachments for measurement in its class. The LCD also includes a backlight for mounting on a column stand improved visibility in dark environments. Detector significantly increase the operability. Measuring range: 800µm · The excellent user interface provides intuitive Resolution: 0.000125µm (at 8µm range) and easy-to-understand operability. · Measured data can be output to a PC with Drive unit Straightness/traverse length optional RS-232C or USB cable. SJ-411: 0.3µm/25mm Digital filter function for non-distorted SJ-412: 0.5µm/50mm roughness profiles Go/no-go judgment function. · Auto-calibration function. SJ-412 drive unit The display interface supports 16 languages which can be freely switched · Simplified contour analysis function supports 0.304 the four types of measurement: step, level change, area and coordinate difference. SJ-411 drive unit · A skidless detector and a curved surface compensation function provide efficient evaluation of cylinder surface roughness SJ-411 SJ-411 SJ-412 SJ-412 MODEL NO. Free Communication Software SJ-Tools This program can be downloaded for FREE from PART # MTI-178-581-01A 178-581-02A 178-583-01A 178-583-02A Detector measuring force 0 75mN 4mN 0.75mN 4mN the Mitutoyo website. http://www.mitutoyo.com 25mm Evaluation range 25mm 50mm 50mm 60° 90° 60° 909 Tip angle Stylus tip Tip radius 5um 2um 5µm 2um MEASUREMENT APPLICATIONS Technical Data: X axis (drive unit) Technical Data - Continued Deep groove 1"(25mm) (SJ-411), 2"(50mm) (SJ-412) 0.08, 0.25, 0.8, 2.5, 8, 25*mm; or Measuring range Sampling length Measuring speed: .002, .004, .008, .02, .04"/s arbitrary length in range 0.1 to 25mm (0.05, 0.1, 0.5, 1.0mm/s) (0.1 to 50mm; SJ-412) in 0.01mm .02, .04, .08"/s (0.5, 1.0, 2.0mm/s) Return speed: increments Number of sampling lengths: 1, 2, 3, ~20 (limited by traverse range) Traversing direction Backward 12 µin / 1"(0.3µm/25mm) (SJ-411), Thermal type Traverse linearity Printer[.] 20 µin / 2"(0.5µm/50mm) (SJ-412) Printing width: 48mm (paper width: 58mm) **R-surface** Recording magnification Positioning: ±1.5° (tilting), 10mm (up/down) Detector Range / resolution: 800µm / 0.0125µm, 80µm / Vertical magnification: 10X to 100.000X. Auto 0.00125um, 8µm / 0.000125µm (up to Horizontal magnification 1X to 1.000X. Auto 2400µm with an optional stylus) Function Measurement method Skidless / skidded Customize Selection of display/evaluation parameter Measuring force 0.75mN (4mN) Data compensation: R-surface. Tilt compensation Diamond, 60° / 2µmR Stylus tip: Step, level change, area and coordinate Ruler function: (90° / 5µmR) difference Skid radius of curvature: 40mm D.A.T. function Helps to level workpiece prior to skidless Differential inductance Type: measurement displacement detection mode Via AC adapter / rechargeable battery Power supply enables the stylus displacement to be Cvli Max. app. 1000 measurements (w/o printing) Battery life: input while the drive unit is stopped. measur 4 hours Data output Via USB interface / Max, value, Min, value, Mean value, Statistical processing: Recharge time: with a support fo RS-232C interface / SPC output Standard deviation (s), Pass ratio, Histogram Storage:Internal memory: Measurement condition (10 sets) GO/NG judgement Maximum value rule, 16% rule, average Option: Memory card (Option): 500 measurement conditions, 10.000 value rule, standard deviation (1o, 2o, 3o) Upside down 178-039: Manual column stand measured profiles, 500 display images, Text file (Measurement Auto-calibration with the entry of numerical Calibration conditions / Measured profile / Assessed profile / Bearing area value /average calibration with multiple With optional accessories: measurement (Max.12 times) is available curve / Amplitude distribution curve), 500 statistical data, etc. 178-010: Auto-set unit Auto-sleep-function, Auto light-off of Dimensions (WxDxH) Power saving function Display unit: 10.8x4.3x7.8"(275x109 x198mm) Backlight by ECO mode 178-020: X-axis adjustment unit 5.16x2.48x3.9"(131x63x99mm) * Only for SJ-412 Height-tilt adjustment unit: 178-030: Tilting adjustment unit Drive unit: 5.04x1.41x1.83"(128x36x47mm)(SJ-411) 6.1x1.41x1.83"(155x36x47mm) (SJ-412) CALL TO INQUIRE ABOUT OPTIONAL ACCESSORIES Mass Control unit: Approx 3 75lb (1 7kg) Height-tilt adjustment unit: Approx. .9lb (0.4kg) Auto-set unit 1.3lb(0.6kg) (SJ-411), 1.5lb(0.7kg)(SJ-412) Drive unit: 178-010 **Evaluation Capability** This unit automatically completes a full measurement cycle of stylus Applicable standards JIS'82, JIS'94, JIS'01, ISO'97, ANSI, VDA, Fi contact, measurement, stylus retraction and detector auto-return from Assessed profiles: P (primary profile), R (roughness profile), DF (DF profile), W (filtered waviness profile), Tilting adjustment unit the push of one button (stylus retraction and detector auto-return can be 178-030 switched on and off by operating the drive unit). roughness motif, waviness motif Evaluation parameters: Ra, Rq, Rz, Ry, Rp, Rv, Rt, R3z, Rsk, Rku, Rc, RPc, RSm, Rmax(VDA, ANSI), Rz1max(ISO'97), S, HSC, Evaluation parameters: Auto-set unit ADJUSTMENTS X-axis adjustment unit RzJIS(JIS'01), Rppi, R∆a, R∆q, RIr, Rmr, Rmr(c), Rδc, Rk, Rpk, Rvk, 178-020 178-010 Mr1, Mr2, A1, A2, Vo, λq, Lo, Rpm, tp(ANSI), Htp(ANSI), R, Rx, AR, This unit helps fine-tune the With W. AW. Wx. Wte horizontal (X axis) direction. auto-set unit Analysis graphs: Bearing Area Curve (BAC), mm Amplitude Distribution Curve (ADC) X-axis adjustment unit Tilting adjustment unit 2CR, PC75, Gaussian Digital filter 2 178-030 178-020 Cutoff length λc: .003, .01, .03, .1, .3 With This unit is used for aligning (0.08, 0.25, 0.8, 2.5, 8mm) ±1.5 tilting 🗕 the workpiece surface with the λs: 100, 320, 1000uin unit (2.5, 8, 25µm)(Availability of switching detector reference plane. It 12.5 mm 12.5 mm depends of the selected standard.) supports the DAT function to With X-Axis make the leveling of workpiece Nituto o adjustment unit **Continued Above** surfaces easier.



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Mitutoyo	CONTOUR	AND SURFACE	E ROUGHN	ESS MEAS	URING SYST	EMS
FORMTRA AVANT SEI	CER The FO now inc RIES "Operation	ed and operability RMTRACER Avant SERIES, w cludes the addition of the H-3 r simultaneously within a sing bility" with automation and a by integrating a detector, rev	hich provides contou 8000 Detector , a hyb gle trace. Designed w wide variety of featu	Ir and surface roughn rid detector that can r vith " Speed " enabling ures, and " Expandabil	neasure both roughness higher measurement effi ity" allowing upgrade to a	and ciency,
A RANGE OF MO	DELS		APPLI	CATIONS		
COVERS EVERY PU Standard Mode Base size (W x D): 600 x 450 m	els nm	uge Ring measurement	Bearing measu	urement Surf	face roughness test for toot	h faces of gears
Z2-axis (column) range: 300 m 100 mm Drive Unit						
	happen	ion between contour and s within seconds by simp shutting down software	ly replacing the m	nounted detector,	Lens measure	ement
		Measuring X-axis	100mm	200mm	1	5
		Range: Z1-axis	60mm (from horizontal	I position +/- 30mm)	NI.	
MODEL DESCRIP			0.8µm / 100mm	2µm / 200mm	Cable-less: All detector a	
FTA-S4C3000 Contour Instrum FTA-S4S3000 Surface Roughr	ness Tester	Measuring Range: Z1-axis	100mm 800µm, 80µ	200mm	cables are housed inside	the main unit
		Z I-dxis				-
High Column Me Base size (W x D): 600 x 450 n	ROUGHNES		(0.05+0.001L)µm, L=traverse length (mm)	(0.1+0.002L)µm, L=traverse length (mm)		
Z2-axis (column) range: 500 m 200 mm Drive Unit	1m	· ·	FEATURES	& BENEFITS		
		unit wh surface ±45° is mountii detecto weasur varied i the soft	nclinable drive ich can measure s within a range of mounted. When ng the contour r C-4500, the ing force can be n 5 steps by using ware provided	Hot Swapping	the contr off when the detect another of moreove less replations mechanic	ent to turn oller power replacing ctor with detector, or r, the tool- acement sm (thumb-
Landow Contraction	Arc Scale	built-in that allo trajecto	tem features a precision arc scale ows the circular ry of the stylus e read directly	_	turn clan greatly re replacem	duces the
MODEL DESCRI FTA-H8H300 Contour & Surface F Measuring Instrume Measuring Instrume Large Base Mo Base size (W x D): 1000 x 450 Z2-axis (column) range: 700 m 200 mm Drive Unit	PTION Roughness Int del mm	wer Surface Continuous Me	easurement	by using Mitutoyo's continuous measure analysis of features	es can be measured cont double-sided conical stylu ement data can be used t that were difficult to mea e diameter of an internal	is. This o facilitate the sure before,
	Stylus Dro	Detection Feature	Slow down	surface and stops the controls the dropping	ps of the stylus from a me he measurement operation g rate to avoid breakage ng contour detector C-450	on. It also of stylus.
MODEL DESCRIF FTA-L8S3000 Surface Roughr	PTION	Drop prevention	ature	measurement to be the preset position. measurement of int	osition can be registered, performed without dropp This feature allows contir errupted surface features needing to use mechanic	ing below nuous s on

CONTRACER CV-2100M4 CONTOUR MEASURING SYSTEM

Fax (713) 681-4931 80

Toll Free 800-442-0042

FEATURES

- Newly designed high-precision digital ARC scale improves the Z-axis accuracy and resolution.
- Quick-release grip handle allows for rapid traverse in column Z-axis for CV-2100M4.
- Key operation buttons are now mounted onto the X-axis drive unit, eliminating wired remote box.
- X-axis traverse speed has been greatly improved to 20mm/s allowing quick positioning and setup time.
- New added function for automatic stylus up/down means high-volume repetitive measurements are now capable with part programming.
- Z-axis detector measuring range has been improved to 50mm for both models.

Connected to a personal computer, the FORMTRACEPAK V5 contour analysis program provides various modes of measurement and analysis. *Printer not included



Centralized front control panel







CONTRACER CV-2100

Quick-vertical motion handle

X-axis jog shuttle

By arranging the switches on this centralized panel, operation cycle is reduced for operators resulting in improved measurement efficiency

SPECIFICATION

Ν	NODEL	CV-2100M4			
PART #		MTI-218-643A			
Measurement range	X-axis	4" (100 mm)			
measurement range	Z1-axis (detector unit)	2" (50 mm)			
Z2-axis (column) travel range		13.8" (350 mm)			
X-axis inclination angle		±45°			
Decelution	X-axis	3.93 µin (0.1 µm)			
Resolution	Z1-axis	3.93 µin (0.1 µm)			
D It	X-axis	Motorized drive 0 - 0.79in/s (0 - 20 mm/s)			
Drive method	Z1-axis (column)	Manual (quick-up-and-down motion, fine feed)			
Measuring speed		.000782"/sec (0.02 - 5mm/s)			
Linearity accuracy (X-axis horizo	ntal orientation)	98.4μin/4in (2.5 μm/100 mm)			
	X-axis	±(100+20L) μin [±(2.5+0.02L) μm)] L = Measurement Length (mm)			
Accuracy (20 ° C)	Z1-axis	± (100+ 100H μin) [±(2.5+ 0.1 H]) μm] H = Measurement height from horizontal position within 1" (±25 mm)			
Measurement direction		Push and Pull (Forward & Backward)			
Measurement surface direction		Downward			
Measuring force		(3 gf) (30±10 mN)			
Stylus traceable angle (Standard	accessory stylus)	Ascent 77°, Descent 87° (Depends on the surface condition)			
Exernal dimensions (WxDxH)		29.3 x 17.7 x 34.8" (745×450×885 mm)			
Mass		321.43 lbs (145.8 kg)			

Note: While the appearance of the natural stone measuring table varies according to the source, the high stability for which this material is known can always be relied upon.

Contour Analysis Software: FORMTRACEPAK

FORMTRACEPAK functions offer total support for measurement system control, contour analysis, contour tolerancing, and inspection report creation.













Thread pitch





165

Fixture | Flexible Shaft holder

Max. part length	24" (625 mm)
Max. part weight	To be determined with part prints

+ Customized fixture is available upon request.



B axis



Bass Tool & Supply, Inc. www.basstool.com



Mitutovo Roundtracer measurement systems are purpose-built for fast, accurate evaluation of roundness, cylindricity, concentricity, and a variety of other geometric form characteristics. Backed by decades of metrology expertise, the Roundtracer lineup delivers robust solutions that help manufacturers uphold the strictest quality standards for rotational parts and assemblies.



The Mitutoyo Quick Image series, now equipped with Metlogix M3 software, represents a new standard in 2D vision measurement. Available in both manual and motorized models, Quick Image systems provide fast, accurate, and userfriendly non-contact measurement that makes these systems an ideal solution for diverse manufacturing environments that demand noncontact measurement efficiency and repeatable precision.

FTA-D4000 Mitutovo Formtracer



The Mitutoyo Formtracer Avant D4000 is a hybrid dual detector, dual-sided contour and surface roughness measuring system with better measurement speed and efficiency. The FTA-D4000 has a dual-sided stylus capable of measuring ID and calculating pitch diameters and continuously measures upper and lower surfaces for easier, faster data analysis of difficult features. The surface roughness and contour detectors can be switched without turning the machine off.

Houston

(713) 682-1889

The Roundtracer Flash is an optical measuring unit based on side-by-side two-dimensional image architecture. Images are acquired by multiple state-of-the-art optical sensors and are perfectly state-of-the-art optical sensors and are periody combined to generate a single workpiece image containing zero discontinuities or gaps at stitching edges. As a result, the Roundtracer Flash is two times faster than traditional linear scanning solutions - capable of measuring parts up to 300 mm in length without any vertical movement of the sensors or the part itself.

MODEL S100 CAPACITY: 2.36" DIA x 4" LONG MODEL S300 CAPACITY: 2.36" DIA x 11.8" LONG

itutoy/0 Formtracer Line

Mitutoyo Formtracer measurement systems redefine complex contour and surface analysis, setting the standard for accuracy and versatility in modern manufacturing environments. Engineered to deliver consistent, reliable results, Mitutoyo Formtracer systems deliver comprehensive measurement capabilities with superior accuracy and user-friendly operation and are trusted by professionals in almost every industry.



Email

sales@basstool.com

itutovo ABS Digimatic Height Gages

Main functions and features

- Helps transform manufacturing sites into smart factories The design of the case allows for easy installation of U-WAVE (optional), which enables wireless transmission of measurement data, promoting smarter use of data in manufacturing sites.
- Supports smooth and reliable measurement operations The handle for moving the slider enables smooth vertical movement. In addition, the highly rigid pillars and large clamp levers provide smooth and reliable workability.

Easy to operate for everyone

The LCD is larger to improve the visibility of numbers and other displays. In addition, the number of operation switches have been reduced to a three-button system and have enlarged the DATA/HOLD button to make it easier to press, ensuring more reliable operability.



Three-Button Operation

- The Absolute (ABS) origin setting function memorizes a surface plate, etc. as the absolute origin.
 The INC (incremental) measurement function allows
- the setting of the origin at any position.
- 3 The DATA button activates data output when the data output option is connected.
- 3 The HOLD function retains displayed values when no output option is connected

PART #	MTI-570-412	MTI-570-413	MTI-570-414
Accuracy	±0.0015 in/±0.03 mm	±0.0020 ir	n/±0.05 mm
Measuring Range	0 - 12" /0 - 300 mm	0 - 18" / 0 - 450 mm	0 - 24" / 0 - 600 mm
Resolution		0.0005"/0.01mm	
Functions	ON/OFF, ORIGIN, Z	ERO/ABS, HOLD/DATA	, inch/mm conversion
Drive Method	S	lider-feed wheel (manua	al)
Data Output		DIGIMATIC d1	
Max. Response Speed		Unlimited	
LCD Character Height		12 mm	
Battery Life	Approx. 20,000 hours	with continuous use, 5 y	ears under normal use
OPTIONAL ACESSORIES: MINI-PROCESSOR PART# MTI-264-505A	·	CA	EASE LL R DETAILS

ILULOVO Roundtracer Flash



Fax

(713) 681-4931

Quick Vision Mitutoyo Active

Mitutoyo Quick Vision Active measurement systems deliver reliable, high-speed non-contact 3D inspection that makes advanced quality control accessible for a wide range of industries. With the flexibility of two highly accurate, compact models, the QV Active 202 and QV Active 404, users can select the optimal system to match their part sizes, measurement needs, and throughput requirements.



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- 26 -

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TESA Loos brown & sh	arpe	MICRO-HI	E & M	CRO-HI	TE+M
	TESA MICRO-HITE (MANUAL)	These MANUAL gauges are un are reliable and robust to be i Multifunctional but always sin asset, that replaces the most	ntegrated as close nple to use, they	se as possible to are a metrologic	the user.
YEER	Panel included	SPECIFICATIONS	MICRO-HITE 350	MICRO-HITE 600	MICRO-HITE 9
	SCS certificate	PART# WITHOUT FINE ADJUST	00730073	00730074	00730075
	1 year warranty	PART# WITH FINE ADJUST	00730076	00730077	00730078
		Range of application Max. perm. error [µm], L [mm]	20.47" (520 mm) 2+2L/1000	30.31" (770 mm) 2+2L/1000	42.32" (1075 m 2+2L/1000
		Repeatability (2σ) [μm]	0 surface : ≤1	0n surface : ≤1	on surface : ≤
			on arc : ≤1	on arc : ≤1	on arc : ≤1
		Max. perp. error with IG13 probe [µm]	frontal : 5 lateral : 5	frontal : 7 lateral : 7	frontal : 9 lateral : 9
		Max perp. error, mechanical [µm]	frontal : 7	frontal : 9	frontal : 11
	Adjustable panel arm	Autonomy [h]	8	8	8
	(2 degrees of	Trigger force [N]	1.6 X 0.25	1.6 X 0.25	1.6 X 0.25
	freedom)	Panel	screen, HxL: 3.3" x 6		
		Resolution (Inch)	keyboard: backlit 0.00001"	keyboard: backlit 0.0001"	keyboard: bacl 0.001"
TESA reading system	A Plant ()	Resolution (mm)	0.0001 mm	0.001 mm	0.01 mm
(patented)	TESA Micro-Hite Touch- screen	Weight (with panel)	72.75 lb. (33 kg)	81.57 lb. (37 kg)	99.2 lb (45 kg
and the second sec	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				
ŧ	A T A A A A A A A A A A A A A A A A A A	The following featur	res are comm	ion to all MIC	RO-HITES:
Connector for accessories Measuring help	backlit keyboard	Single probing		ancing	
for accessories		Culmination point		OGO report	
		Double probing Max min data	,	nch conversion	
Measuring help system (patented)	Ergonomic handling	 Max, min, delta Perpendicularity 	 Onini Prese 	e help 't	
Oulck		Straightness		ing/programmin	g
center	Air cushion	Angle	mode		6
	activation	Embedded calculator	 Save 	data on USB stic	k
Spheroidal cast iron base & frame		• 1D & 2D		data through	
	Manual displacement	measurement modes	TLC p		
Large support faces	wheel	 References A/B Distance 	 Print Screet 		
Large support faces		D : 1		data en shot	
	wheel	Distance Mid-point	Scree		
	TESA MICRO-HITE+N	DistanceMid-point	Scree		
	wheel	Distance Mid-point	• Scree		e
	TESA MICRO-HITE+N	Distance Mid-point Standard Accessories	• Scree	n shot wable/reloadable	e
Menual TESAMCRO HTT	wheel TESA MICRO-HITE+N (Motorized) Panel included	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder 	 Scree Remo batte Powe 	n shot wable/reloadable ry r supply	e
	TESA MICRO-HITE+N (Motorized)	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, 	 Screet Remotion Powe EUR p 	n shot wable/reloadable ry r supply bower cable	e
Menual TESAMCRO HTT	wheel TESA MICRO-HITE+N (Motorized) Panel included SCS certificate	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, hard metal 	 Screet Remotion Powe EUR p 	n shot wable/reloadable ry r supply	e
	wheel TESA MICRO-HITE+N (Motorized) Panel included SCS certificate	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, 	 Screet Remotion Powe EUR p 	n shot wable/reloadable ry r supply bower cable	e
Menual TESAMCRO HTT	wheel TESA MICRO-HITE+N (Motorized) Panel included SCS certificate	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, hard metal 12.7 mm / .5 in 	 Screet Remotion Powe EUR p 	n shot wable/reloadable ry r supply bower cable	e
Menual TESAMCRO HTT	wheel TESA MICRO-HITE+N (Motorized) Panel included SCS certificate	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, hard metal 12.7 mm / .5 in masterpiece The MOTORIZATION of these holds 	 Scree Remo batte Powe EUR p US pc 	n shot wable/reloadable ry r supply power cable ower cable	
	wheel TESA MICRO-HITE+N (Motorized) Panel included SCS certificate	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, hard metal 12.7 mm / .5 in masterpiece The MOTORIZATION of these h of the range. 	Scree Remo batter Powe EUR p US po	en shot wable/reloadable ry r supply bower cable ower cable wer cable	ost precise
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TESA reading system (gatented) W W W W W W W W W W W W W W W W W W W	wheel TESA MICRO-HITE+N (Motorized) Panel included SCS certificate 1 year warranty Adjustable panel arm (2 degrees of freedom)	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, hard metal 12.7 mm / .5 in masterpiece The MOTORIZATION of these h of the range. They distinguish themselves p handwheel for displacement (with fluidity during the execution SPECIFICATIONS PART # Range of application 	Scree Scree Remo batte Powe EUR p US po US po orimarily by their FEEL&MOVE), cc on of a measure MICRO-HITE+M 350 00730079 20.47" (520 mm)	en shot wable/reloadable ry r supply bower cable wer cable akes them the mo exclusive and pa pmbining fast pro ment sequence. <u>MICRO-HITE+M 600</u> 00730080 30.31" (770 mm)	ost precise tented be positionin <u>MICRO-HITE+M</u> 00730081 42.32" (1075 m
	wheel TESA MICRO-HITE+R (Motorized) Panel included SCS certificate 1 year warranty Adjustable panel arm (2 degrees of freedom) CENTER Freedom Touch Screen Refined-	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, hard metal 12.7 mm / .5 in masterpiece The MOTORIZATION of these h of the range. They distinguish themselves p handwheel for displacement (with fluidity during the execution SPECIFICATIONS PART # 	Scree Scree Remo batte Powe EUR p US po US po reight gauges ma primarily by their FEEL&MOVE), cc on of a measure MICRO-HITE+M 350 00730079	en shot wable/reloadable ry r supply bower cable wer cable akes them the mo exclusive and pa pombining fast pro ment sequence. <u>MICRO-HITE+M 600</u> 00730080	ost precise tented be positionin <u>MICRO-HITE+M</u> 00730081 42.32" (1075 m 1.8+2L/1000
	wheel TESA MICRO-HITE+N (Motorized) Panel included SCS certificate 1 year warranty Adjustable panel arm (2 degrees of freedom) Coch- Screen	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, hard metal 12.7 mm / .5 in masterpiece The MOTORIZATION of these H of the range. They distinguish themselves p handwheel for displacement (with fluidity during the execution SPECIFICATIONS PART # Range of application Max. perm. error [µm], L [mm] Repeatability (20) [µm] 	 Screet Remote batter Powe EUR presentation US possible US possible Presentation US possible US possible MORO-HITE+M 350 00730079 20.47" (520 mm) 1.8+2L/1000 on surface : ≤0,5 on arc : ≤1 	in shot wable/reloadable ry r supply bower cable wer cable akes them the me exclusive and pa mbining fast pro ment sequence. MICRO-HITE+M 600 00730080 30.31" (770 mm) 1.8+2L/1000 on surface : ≤ 0.5 on arc : ≤ 1	DST precise tented be positionin <u>MICRO-HITE+M</u> 00730081 42.32" (1075 m 1.8+2L/1000 on surface : ≤0 on arc : ≤1
	wheel TESA MICRO-HITE+R (Motorized) Panel included SCS certificate 1 year warranty Adjustable panel am (2 degrees of freedom) Coches	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, hard metal 12.7 mm / .5 in masterpiece The MOTORIZATION of these h of the range. They distinguish themselves p handwheel for displacement (with fluidity during the execution SPECIFICATIONS PART # Range of application Max. perm. error [µm], L [mm] 	 Screet Remon batter Powe EUR p US portion US portion US portion MOVE), cortion MICRO-HITE+M 350 00730079 20.47" (520 mm) 1.8+2L/1000 on surface : ≤0,5 on arc : ≤1 frontal : 5 	en shot wable/reloadable ry r supply bower cable wer cable akes them the me exclusive and pa ombining fast pro ment sequence. MICRO-HITE+M 600 00730080 30.31" (770 mm) 1.8+2L/1000 on surface : ≤0,5 on arc : ≤1 frontal : 7	ost precise tented be positionin <u>MICRO-HITE+M</u> 00730081 42.32" (1075 m 1.8+2L/1000 on surface i ≤0 on arc : ≤1 frontal : 9
	wheel TESA MICRO-HITE+R (Motorized) Panel included SCS certificate 1 year warranty Adjustable panel am (2 degrees of freedom) Coches	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, hard metal 12.7 mm / .5 in masterpiece The MOTORIZATION of these h of the range. They distinguish themselves p handwheel for displacement (with fluidity during the execution SPECIFICATIONS PART # Range of application Max. perm. error [µm], L [mm] Repeatability (20) [µm] Max. perp. error with IG13 probe [µm] 	 Screet Remotion batter Powe EUR p US potential stress US potential stress Primarily by their FEEL&MOVE), correst MICRO-HITE+M 350 00730079 20.47" (520 mm) 1.8+2L/1000 on surface :≤0,5 on arc :≤1 frontal : 5 lateral : 5 	in shot wable/reloadable ry r supply bower cable wer cable akes them the me exclusive and pa ombining fast pro- ment sequence. MICRO-HITE+M 600 00730080 30.31" (770 mm) 1.8+2L/1000 on surface : ≤ 0.5 on are: ≤ 1 frontal : 7 lateral : 7	Dost precise tented be positionin <u>MICRO-HITE+M</u> 0073005 42.32" (1075 m 1.8+2L/1000 on surface : ≤0 on arc : ≤1 frontal : 9 lateral : 9
TESA reading system (particular de la particular de la pa	wheel TESA MICRO-HITE+R (Motorized) Panel included SCS certificate 1 year warranty Adjustable panel am (2 degrees of freedom) Coches	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, hard metal 12.7 mm / .5 in masterpiece The MOTORIZATION of these h of the range. They distinguish themselves p handwheel for displacement (with fluidity during the execution SPECIFICATIONS PART # Range of application Max. perm. error [µm], L [mm] Repeatability (20) [µm] Max perp. error, mechanical [µm] 	 Screet Remotibatte Powe EUR p US potential US potential Total Screet 	in shot wable/reloadable ry r supply bower cable wer cable akes them the me exclusive and pa ombining fast pro- ment sequence. MICRO-HITE+M 600 00730080 30.31" (770 mm) 1.8+2L/1000 on surface : ≤ 0.5 on arc : ≤ 1 frontal : 7 lateral : 7 frontal : 9	Dost precise tented be positionin <u>MICRO-HITE+M</u> 00730081 42.32" (1075 m 1.8+2L/1000 on surface : ≤0 on arc : ≤1 frontal : 9 lateral : 9 frontal : 11
	wheel TESA MICRO-HITE+I (Motorized) Analysis and a second sec	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, hard metal 12.7 mm / .5 in masterpiece The MOTORIZATION of these h of the range. They distinguish themselves p handwheel for displacement (with fluidity during the execution SPECIFICATIONS PART # Range of application Max. perm. error [µm], L [mm] Repeatability (20) [µm] Max perp. error, mechanical [µm] Autonomy [h] 	 Screet Remon batter Powe EUR p US portion US portion Design gauges mathematical primarily by their FEEL&MOVE), cortion of a measure MICRO-HITE+M 350 00730079 20.47" (520 mm) 1.8+2L/1000 on surface : ≤0,5 on arc : ≤1 frontal : 5 lateral : 5 frontal : 7 8 	in shot wable/reloadable ry r supply power cable wer cable akes them the me exclusive and pa mbining fast pro- ment sequence. MICRO-HITE+M 600 00730080 30.31" (770 mm) 1.8+2L/1000 on surface : $\leq 0,5$ on arc : ≤ 1 frontal : 7 lateral : 7 frontal : 9 8	Dist precise tented be positionin <u>MICRO-HITE+M</u> 00730081 42.32" (1075 m 1.8+2L/1000 on surface : ≤0 on arc : ≤1 frontal : 9 lateral : 9 frontal : 11 8
TESA reading system (particular de la particular de la pa	wheel TESA MICRO-HITE+I (Motorized) Analysis and a second sec	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, hard metal 12.7 mm / .5 in masterpiece The MOTORIZATION of these h of the range. They distinguish themselves p handwheel for displacement (with fluidity during the execution SPECIFICATIONS PART # Range of application Max. perm. error [µm], L [mm] Repeatability (20) [µm] Max perp. error, mechanical [µm] 	 Screet Remotibatte Powe EUR p US potential US potential Total Screet 	in shot wable/reloadable ry r supply bower cable wer cable akes them the me exclusive and pa ombining fast pro- ment sequence. MICRO-HITE+M 600 00730080 30.31" (770 mm) 1.8+2L/1000 on surface : ≤ 0.5 on arc : ≤ 1 frontal : 7 lateral : 7 frontal : 9	Dest precise tented be positionin MICRO-HITE+M 00730081 42.32" (1075 mm) 1.8+2L/1000 on surface i ≤0 on arc : ≤1 frontal : 9 lateral : 9 frontal : 11 8 1.6 ± 0.25
	wheel	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, hard metal 12.7 mm / .5 in masterpiece The MOTORIZATION of these h of the range. They distinguish themselves p handwheel for displacement (with fluidity during the execution SPECIFICATIONS PART # Range of application Max. perm. error [µm], L [mm] Repeatability (20) [µm] Max perp. error, mechanical [µm] Autonomy [h] Trigger force [N] 	 Screet Remon batter Powe EUR p US por neight gauges mathematical strength of the second strength of the	in shot wable/reloadable ry r supply bower cable wer cable akes them the me exclusive and pa ombining fast pro- ment sequence. MICRO-HITE+M 600 00730080 30.31" (770 mm) 1.8+2L/1000 on surface : $\leq 0,5$ on are: ≤ 1 frontal : 7 lateral : 7 frontal : 9 8 1.6 ± 0.25	ost precise tented be positionin MICRO-HITE+M 00730081 42.32" (1075 m 1.8+2L/1000 on surface : ≤ 1 frontal : 9 lateral : 9 frontal : 11 8 1.6 ± 0.25 screen, HxL: 3.3"
	wheel	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, hard metal 12.7 mm / .5 in masterpiece The MOTORIZATION of these h of the range. They distinguish themselves p handwheel for displacement (with fluidity during the execution SPECIFICATIONS PART # Range of application Max. perm. error [µm], L [mm] Repeatability (20) [µm] Max perp. error, mechanical [µm] Autonomy [h] Trigger force [N] 	 Screet Remotibatte Powe EUR p US potential To the state of the state	in shot wable/reloadable ry r supply bower cable wer cable wer cable akes them the mo exclusive and pa ombining fast pro ment sequence. MICRO-HITE+M 600 00730080 30.31" (770 mm) 1.8+2L/1000 on surface : $\leq 0,5$ on arc : ≤ 1 frontal : 7 lateral : 7 frontal : 9 8 1.6 \pm 0.25 screen, HxL: 3.3" x 6	Dist precise tented be positionin 00730081 42.32" (1075 m 1.8+2L/1000 on surface : ≤0 on arc : ≤1 frontal : 9 lateral : 9 frontal : 11 8
	wheel	 Distance Mid-point Standard Accessories Adjustable panel support Ø 6 mm probe holder Ø 5 mm probe, hard metal 12.7 mm / .5 in masterpiece The MOTORIZATION of these h of the range. They distinguish themselves p handwheel for displacement (with fluidity during the execution SPECIFICATIONS PART # Range of application Max. perp. error with IG13 probe [µm] Max perp. error, mechanical [µm] Autonomy [h] Trigger force [N] Panel 	 Screet Remotibatte Powe EUR p US point 	in shot wable/reloadable ry r supply bower cable wer cable wer cable akes them the mo exclusive and pa ombining fast pro ment sequence. MICRO-HITE+M 600 00730080 30.31" (770 mm) 1.8+2L/1000 on surface : $\leq 0,5$ on arc : ≤ 1 frontal : 7 lateral : 7 frontal : 7 lateral : 7 frontal : 9 8 1.6 \pm 0.25 screen, HxL: 3.3" x 6 keyboard: backlit	ost precise tented be positionin MICRO-HITE+M 00730081 42.32" (1075 m 1.8+2L/1000 on surface :≤0 on arc :≤1 frontal : 9 lateral : 9 frontal : 11 8 1.6 ± 0.25 screen, HxL: 3.3" keyboard: back





Bass	Bass Tool & Supply, Inc. www.basstool.com	(71	Houston 3) 682-18		Email @basstool.com		F ax 681-4931	Toll Free 800-442-0042
DIMENSION	MAKER 3000 PACKAGES MEA		AND	PART	SHOP FLOO MEASUREMI ND-HELD GAGES, &	ENT S	SYSTEM	
PART # 1-GM-		ACCURACY	RESOLUTION	RANGE	PACKAGE FEATURES & OF	PTIONS		
MI-3000 Standard	Base Unit without Force-Lok	[-			I LUCE OF
MT-3012-50	MIC TRAC™ Base Unit w/ DRO	±.0001"	.00005"	Int. 0" - 12" Ext. 1.1/2 -13.1/2"	 Employing a versatile bench m 	ounted		Y (50000
MT-3024-50	MIC TRAC™ Base Unit w/ DRO	±.0002"	.00005"	Int. 0" - 24" Ext.1.1/2" - 25.1/2"	length measuring system allow to calibrate hand-held gages, p	vs you preset		
MT-3036-50	MIC TRAC™ Base Unit w/ DRO	±.0003"	.00005"	Int. 0" - 36" Ext.1.1/2" - 37.1/2"	indicator style gages, and with optional Force-Lok, measure p The MIC TRAC 3000 Shop Flo	arts.	1	
MT-3048-50	MIC TRAC™ Base Unit w/ DRO	±.0004"	.00005"	Int. 0" - 48" Ext.1.1/2" - 49.1/2"	Gage Setting and Part Measur System sets or zeros most ga	rement ges		and Indian and Indian
MT-3000 Standard	Base Units with Force-Lok				with the standard resolution of accuracies ranging from ± .000		400	Na Contraction
MT-3012F-50	MIC TRAC [™] Base Unit w/ DRO and Force-Lok	±.0001"	.00005"	Int. 0" - 12" Ext.1.1/2" - 13.1/2"	±.0004" (traceable to the NIST the digital read out is CE appro) and		MT-3012-50
MT-3024F-50	MIC TRAC [™] Base Unit w/ DRO and Force-Lok	±.0002"	.00005"	Int. 0" - 24" Ext.1.1/2" - 25.1/2"	The cost effective Force-Lok feature improves repeatability from operator to operator and is well suited for a variety of environments including the shop floor.	eature erator		
MT-3036F-50	MIC TRAC [™] Base Unit w/ DRO and Force-Lok	±.0003"	.00005"	Int. 0" - 36" Ext.1.1/2" - 37.1/2"				
MT-3048F-50	MIC TRAC™ Base Unit w/ DRO and Force-Lok	±.0004"	.00005"	Int. 0" - 48" Ext.1.1/2" - 49.1/2"	-		24	
MT-3000 Base Unit	with Computer & MT-4-USB						MT-3012F-50-USBC	
MT-3012F-50-USBC	MIC TRAC [™] Base Unit w/ Force-Lok, Computer, & USB	±.0001"	.00005"	Int. 0" - 12" Ext. 1.1/2" - 13.1/2"	 MT-3000 system with data cap 			
MT-3024F-50-USBC	MIC TRAC™ Base Unit w/ Force-Lok, Computer, & USB	±.0002"	.00005"	Int. 0" - 24" Ext. 1.1/2" - 25.1/2"	document storage options. This includes a computer connected	s system		
MT-3036F-50-USBC	MIC TRAC™ Base Unit w/ Force-Lok, Computer, & USB	±.0003"	.00005"	Int. 0" - 36" Ext. 1.1/2" - 37.1/2"	MIC TRAC and the CERTIFI so for producing calibration docum	oftware nents.		
MT-3048F-50-USBC	Computer, & USB	±.0004"	.00005"	Int. 0" - 48" Ext. 1.1/2" - 49.1/2"	The base unit ships with the For feature that improves repeatab	oility		
High Resolution M	T-3000 Base Unit with Computer & MT-4-USB		· · · ·		from operator to operator and a		100	THE E
MT-3012F-10-USBC	Computer, & USB	±.00005"	.00001"	Int. 0" - 12" Ext.1.1/2" - 13.1/2"	for calibration of micrometer ar standards. MIC TRAC 3000 Sh	nop		
MT-3024F-10-USBC	Computer, & USB	±.00010"	.00001"	Int. 0" - 24" Ext.1.1/2" - 25.1/2"	Floor Series Gage Setting and Measurement System sets or z most gages with the standard r	zeros	and	AN ⁴⁰
MT-3036F-10-USBC	Computer, & USB	±.00015"	.00001"	Int. 0" - 36" Ext.1.1/2" - 37.1/2"	of .00005", accuracies ranging ± .0001" to ±.0004" (traceable	from		50
MT-3048F-10-USBC	Computer, & USB	±.00020"	.00001"	Int. 0" - 48" Ext.1.1/2" - 49.1/2"	NIST).		1000	
MT-3060F-10-USBC	MIC TRAC [™] Base Unit w/ Force-Lok, Computer, & USB	±.00023"	.00001"	Int. 0" - 60" Ext.1.1/2" - 61.1/2"			ALM -	

MIC TRAC[™] SETTING BLOCKS

PART # 1-GM-	DESCRIPTION
Shallow Tapered	Cylinder Setting Blocks (2 Block Sets) (Used with BX-1000 gages)
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 45° half angle
Special Purpose	Setting Blocks
TF5F	Flat Face Setting Blocks (1.000" outside diameter)
TF-1F	Universal flat face setting / measuring blocks (1.500" outside diameter)
TF-PL	Flat Face Setting Blocks, No taper (supplied with MIC TRAC™)
API 6A Ring Groo	ove & Special Flange Groove Setting Blocks
TF-BX	23° BXR Ring Groove Diameter/Width Setting Blocks, used with BX-1000 gages (2 per set)
Thread Gage Set	ting Blocks
TF-1V	3-5 pitch 60° "V" thread setting blocks (2 per set)
TF-2V	6-20 pitch 60° "V" thread setting blocks (2 per set)
Tubing and Casir	ng Taper Setting Blocks
TF-STR	Straight Blocks
TF75T	3/4" Taper Blocks, 8 & 10 Round, 3/4" TPF Buttress, Line Pipe
TF-1.0T	1" Taper Blocks, 1" TPF Buttress
TF-1.12T	1.1/8" Taper Blocks, 1.125 TPF Connection
TF-1.75T	1.3/4" Taper Blocks, 1.75 TPF Connection
SPECIAL TAPER BL	OCKS AVAILABLE
MRP [®] Straight F	ace 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)
NOTE: ADDITIONAL	ACCESSORIES FOR THE MT-3000 ARE LISTED ON THE NEXT PAGE

The MIC TRAC[™] 3000 reciever blocks include precision, calibrated surfaces designed for mounting all the various setting blocks. Depending on the requirements of the application, each pair of MIC TRAC[™] setting blocks is precisely ground with either a flat or tapered gauging surface. Setting blocks are supplied in sets of two, with various degrees of taper available.



000-4	II Free 142-0042	Fax (713) 681-4931	sales	Email @basstool.coi		ouston 682-188	Bass Tool & Supply, Inc. 9 www.basstool.com
GAGE		OPTIC	DNAL	ACCESS	SORIE	5 FOF	R MT-3000 & MT-4000
TF-1F	TF-SS	TF-CA	TF-DG		TF-SA		TF-SV TF-SV TF-LG-2 TF-LG-3
CAL-PAK TF-IND TF-DG TF-CA TF-TI TF-SA	LG-3, TF-SA, TF-SS, TF- (PGC-12-W2, etc.) AGD dial indicator. Calibr Calibration fixture for dep Caliper calibration access Test indicator calibration Support arm for TF-CA.	sory dial, digital and vernier calip block*	ncluded with a MT 8mm bushing) pers. Includes TF-	Г-4000 Package	TF-VB	PART # 1-GM- TF-BA TF-VB TF-LG-2 TG-LG-3 TF-BI TF-CG	DESCRIPTION Base support block for setting dial bore gages** "V"block fixture for calibration of Gagemaker's TH-3004 and MRP-2002 Upper arms* Lead gage calibration fixture for either Allen or Gagemaker gages (LG-5002) Gagemaker lead gage (LG-5003) calbration fixture* Base support plate for setting dial bore gages** Universal clamping fixture for calibration of indicators and gages* Complete procedural documentation for the calibration of handheld inspection
TF-SV TF-VN TF-1F *Qty. 1 TF-1F	"V" support accessory for "V" blocks for calibration		andards** ages			CRC-MT3000 CRC-MT4000	equipment including: O.D. & I.D. micrometers, calipers, depth micrometers, and more. (MT-3000 ONLY) 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-4000 ONLY)
GAGE	EMAKER	M	IC TRA	C™ 4000) IN-HO		PRECISION PGC-12-W2 Inspect Parts Calibrate Track Gages
Ring and plug Package incli MT-4012 to an acc Ultra pre Compute digital re CRC MT- TF-2R: C AWH-100 TF-XYT. A CAL-PAK: TDWIN T Acme, St Torque w Reusable	g inspection requires ti udes: 2-10 MIC TRAC™ elect: curacy of ±.00005", re- cision scale with 1.00 or with CERTIFI™ Calibi- eadout acquisition mor- 4-000 Calibration Refe- carbide anvil set, 3/8" 0 bench-top tool holde Adjustable X, Y & tilt s. : Assortment of fixture Thread Disk software p tub Acme, Metric, Butt wrench, 50 in. Ib. (TW- ¹) le shipping container	erence Card Set: procedures diameter er with wrenches upport table for use with the s designed to hold gages fo rorgram: Provides critical thr tress, and NPT threads.	ccessories. ent master, ran 0000". , and resolutio produces calibr. documenting of MIC TRAC TM r calibration	nge 0" to 12". Base un n .00001". ation reports, has a re calibrations with the G ns for manufacturing a	it is error compe ecall database, an Bagemaker system and inspection of	nsated nd a n. UN, WIC TRA EXTENDE	CTM 4000 BASE UNITS WITH ED SOFTWARE FUNCTIONS
PART # 1							
PART # 1 PGC-12		on Calibration Package	0"-12	2"			4000 base unit supplied only with digital readout software with ctions, a computer, TF-2R setting blocks, and shipping carton.
PGC-12 ADDITIO PART # 1-G PGC-24-W PGC-36-W	2-W2 Precisi NAL PACKAGE SM- V2 Precision Calibra V2 Precision Calibra	ES & CALIBRATION DESCRIPTION tion Package with MT-4024-10 M tion Package with MT-4036-10 M	N ACCESS //IC TRAC™ //IC TRAC™]			4000 base unit supplied only with digital readout software with ctions, a computer, TF-2R setting blocks, and shipping carton. • DESCRIPTION ACCURACY RESOLUTION RANGE
PGC-12 ADDITIO PART # 1-G PGC-24-W PGC-36-W PGC-48-W PGC-48-W PGC-48-W PGC-48-W PGC-48-W PGC-12 PGC-12 PGC-12 PGC-12 PGC-12 PGC-12 PGC-12 PGC-12 PGC-12 PGC-12 PGC-24-W PGC-36-	2-W2 Precisi NAL PACKAGE SM- V2 Precision Calibra V2 Precision Calibra V2 Precision Calibra V2 Precision Calibra ON GAGE CALL (MT-4000) AC rovides various access	ES & CALIBRATION DESCRIPTION tion Package with MT-4024-10 M tion Package with MT-4036-10 M tion Package with MT-4048-10 M tion Package with MT-4048-10 M BRATION CESSORIES sories to expand the function e following are included as a	N ACCESS AIC TRAC™ AIC TRAC™ AIC TRAC™ AIC TRAC™ AIC TRAC™	SORIES RANGE 0"-24" 0"-36" 0"-36" 0"-48"		extended fun PART # 1-GM MT-4012-10 MT-4024-10 MT-4024-10 MT-4048-10 TF-SB TF-SB	24000 base unit supplied only with digital readout software with ctions, a computer, TF-2R setting blocks, and shipping carton. - DESCRIPTION ACCURACY RESOLUTION RANGE MIC TRAC™ Base Unit \pm .00005" .00001" 0"-12" MIC TRAC™ Base Unit \pm .00005" .00001" 0"-24" MIC TRAC™ Base Unit \pm .00005" .00001" 0"-36" MIC TRAC™ Base Unit \pm .00005" .00001" 0"-48"
PGC-12 ADDITIO PART # 1-G PGC-24-W PGC-36-W PGC-36-W PGC-48-W PGC-48-W PRECISIG SYSTEM Gagemaker pr TRAC 4000 ^{rm} are also availa PART # 1-GM-	2-W2 Precisi NAL PACKAGE 3M- V2 Precision Calibra V2 Precision Calibra V2 Precision Calibra V2 Precision Calibra ON GAGE CALL (MT-4000) AC rovides various access base unit. Some of the able individually.	ES & CALIBRATION DESCRIPTION tion Package with MT-4024-10 M tion Package with MT-4036-10 M tion Package with MT-4048-10 M tion Package with MT-4048-10 M EBRATION CESSORIES sories to expand the function e following are included as a DESCRIPTION	N ACCESS IIC TRAC™ IIC TRAC™ IIC TRAC™ IIC TRAC™ AIL TRAC™	SORIES RANGE 0"-24" 0"-36" 0"-36" 0"-48"	1	extended fun PART # 1-GM MT-4012-10 MT-4024-10 MT-4024-10 MT-4036-10 MT-4048-10 TF-SB PART # 1-GM-	P4000 base unit supplied only with digital readout software with ctions, a computer, TF-2R setting blocks, and shipping carton.DESCRIPTIONACCURACYRESOLUTIONRANGE 00001"MIC TRAC™Base Unit \pm .00005".00001"0'-12"MIC TRAC™Base Unit \pm .00005".00001"0'-24"MIC TRAC™Base Unit \pm .00005".00001"0'-36"MIC TRAC™Base Unit \pm .00005".00001"0'-36"MIC TRAC™Base Unit \pm .00005".00001"0'-48"TF-RF-SUNIT F-SP-SDESCRIPTIONDESCRIPTION
PGC-12 ADDITIO PART # 1-G PGC-24-W PGC-36-W PGC-36-W PGC-48-W PGC-48-W PRECISIG SYSTEM Gagemaker pt TRAC 4000 TM are also availa PART # 1-GM AWH-100 CRC-MT4000 CRC-MT4000	2-W2 Precisi NAL PACKAGE M Precision Calibra V2 Precision Calibra V2 Precision Calibra V2 Precision Calibra V2 Precision Calibra ON GAGE CALL (MT-4000) AC rovides various access base unit. Some of the able individually. Hex wrench holder with Complete procedural to cequipment including: O ring and plug gages, an Digital readout software	ES & CALIBRATION DESCRIPTION tion Package with MT-4024-10 M tion Package with MT-4036-10 M tion Package with MT-4048-10 M tion Package with MT-4048-10 M EBRATION CESSORIES sories to expand the function e following are included as a DESCRIPTION	N ACCESS AIC TRAC™ AIC TRAC TRAC TRACTAC AIC TRACTA	C they		extended fun PART # 1-GM MT-4012-10 MT-4024-10 MT-4024-10 MT-4048-10 TF-SB PART # 1-GM- TF-SP-75 TF-TP	4000 base unit supplied only with digital readout software with ctions, a computer, TF-2R setting blocks, and shipping carton. • DESCRIPTION ACCURACY RESOLUTION RANGE MIC TRAC™ Base Unit \pm .00005" .00001" 0'-12" MIC TRAC™ Base Unit \pm .00005" .00001" 0'-24" MIC TRAC™ Base Unit \pm .00005" .00001" 0'-36" MIC TRAC™ Base Unit \pm .00005" .00001" 0'-36" MIC TRAC™ Base Unit \pm .00005" .00001" 0'-48" V V V TF-WS MIC TRAC™ Base Unit \pm .00005" .00001" 0'-48" V V V V TF-WS V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V
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PGC-12 ADDITIO PART # 1-G PGC-24-W PGC-36-W PGC-36-W PGC-48-W PGC-48-W PRECISIG SYSTEM Gagemaker pt TRAC 4000 TM are also availa PART # 1-GM AWH-100 CRC-MT4000 CRC-MT4000	2-W2 Precisi NAL PACKAGE SM- V2 Precision Calibra V2 Precision Calibra V2 Precision Calibra V2 Precision Calibra ON GAGE CALL (MT-4000) AC rovides various access base unit. Some of the able individually. Hex wrench holder with Complete procedural de equipment including: 0. ring and plug gages, an Digital readout software CERTIFI™	S & CALIBRATION DESCRIPTION tion Package with MT-4024-10 M tion Package with MT-4036-10 M tion Package with MT-4048-10 M tion Package with M tion Package with M tion Package with M tion Pac	A ACCESS AIC TRAC™ AIC TRAC TRAC TRACTAC AIC TRAC TRACTAC AIC TRAC TRACTAC AIC TRACTAC A	C they	1	extended fun PART # 1-GM MT-4012-10 MT-4012-10 MT-4024-10 MT-4024-10 MT-4036-10 MT-4048-10 TF-SB PART # 1-GM- TF-SP TF-TP All wire hold pitch require TF-WHV	4000 base unit supplied only with digital readout software with ctions, a computer, TF-2R setting blocks, and shipping carton. • DESCRIPTION ACCURACY RESOLUTION RANGE MIC TRAC™ Base Unit \pm .00005" .00001" 0"-12" MIC TRAC™ Base Unit \pm .00005" .00001" 0"-24" MIC TRAC™ Base Unit \pm .00005" .00001" 0"-36" MIC TRAC™ Base Unit \pm .00005" .00001" 0"-36" MIC TRAC™ Base Unit \pm .00005" .00001" 0"-48" Imic TRAC™ Imic Trace Imic Trace Imic Trace Imic Trace NPT Trand ANPT tapered plug gages (includes wire for NPT, NPTF and ANPT tapered plug gages (includes rs require TF-2R blocks) Imic advire holder Modules for UN, Acme, and Metric Threads rese specify di. Note: "
PGC-12 ADDITIO PART # 1-G PGC-24-W PGC-36-W PGC-48-W PGC-48-W PGC-48-W PRECISIG SYSTEM Gagemaker pµ TRAC 4000 ^M are also availa PART # 1-GM AWH-100 CRC-MT4000 MT-4-USB TDWIN	2-W2 Precisi NAL PACKAGE MAL PACK	S & CALIBRATION DESCRIPTION tion Package with MT-4024-10 N tion Package with MT-4036-10 N tion Package with MT-4048-10 N tion Package with MT-4048-10 N IBRATION CESSORIES sories to expand the function e following are included as a DESCRIPTION wrenches pocumentation for the calibration of D. % I.D. micrometers, calipers, a module with digital data acquisi pr calculating critical setting dimeme, Stub Acme, ISO Metric, and nvil set ort table	A ACCESS AIC TRAC™ AIC TRAC TM AIC TRAC TAC TM AIC TRAC TAC TAC TAC TAC TAC TAC TAC TAC TAC T	C they	1	PART # 1-GM MT-4012-10 MT-4012-10 MT-4024-10 MT-4024-10 MT-4024-10 MT-4048-10 TF-SB PART # 1-GM- TF-SP-75 TF-TP All wire holde pitch require TF-WHV TF-WHVP TF-WHVP	P 4000 base unit supplied only with digital readout software with ctions, a computer, TF-2R setting blocks, and shipping carton. Image: transmission of the transmission of the transmission of transmissio
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PGC-12 ADDITIO PART # 1-G PGC-24-W PGC-36-W PGC-36-W PGC-48-W PGC-48-W PGC-48-W PGC-48-W PGC-48-W PGC-48-W PRECISIO System Gagemaker pr TRAC 4000 ^{rm} are also availa PART # I-GM AWH-100 CRC-MT4000 MT-4-USB TDWIN TF-2R TF-SB-1 TF-SB-1 TF-XYT TW-50 Cylindrical F TF-IF-C TF-CP	2-W2 Precisi NAL PACKAGE SM- V2 Precision Calibra ON GAGE CALL (MT-4000) AC rovides various access base unit. Some of the able individually. Hex wrench holder with Complete procedural de quipment including: O ring and plug gages, an Digital readout software for Includes UN Series, Ac disable height suppor Bearing rail support base Adjustable height support S0 in-lb torque wrench v Ring & Thread Fait face setting Ball contact holders, 50 Set of 3 fixtures for mee _249"), CR-2 (.250"-875 Internal threaded ring a	S & CALIBRATION DESCRIPTION DESCRIPTION tion Package with MT-4024-10 M tion Package with MT-4024-10 M tion Package with MT-4048-10 M DESCRIPTION DESCRIPTION wrenches occumentation for the calibration of M M wrenches occumentation for the calibration of M to A 1.D micrometers, calibrat, and mil set or calculating critical setting dime me, Stub Acme, ISO Metric, and nvil set ort table se st table, X-axis & Y-axis support with 5/32" hex wrench adapter id Plug Gage Accessories i blocks DO ID measurement asuring cylindrical ring gages and "", CR-3 (.880"-Larger) rm P.D. module (for solid threadd and holders for 6, 8, 10, 12, 14, 1	N ACCESS AIC TRAC™ AIC TRAC AIC AIC AIC AIC AIC AIC AIC AIC AIC A	SORIES RANGE 0"-24" 0"-36" 0"-36" 0"-48" C they ction rs, ss TF-CR TF-CR TF-CP	TF-SB-1	PART # 1-GM MT-4012-10 MT-4012-10 MT-4024-10 MT-4026-10 MT-4036-10 MT-4048-10 TF-SB PART # 1-GM- TF-SB MI wire holds pitch require TF-WHV TF-WHV TF-WHA TF-WHA TF-WHM TF-WHM	P 4000 base unit supplied only with digital readout software with ctions, a computer, TF-2R setting blocks, and shipping carton. Image: transmission of the transmission of transmission of the transmission of transmission of the transmission of transmissing transmissing transmission of treasmission of trans

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