

Mitutoyo

MITUTOYO CANADA INC.
PRECISION TOOL SALE

Prices in effect:
Oct 2 - Dec 20, 2017
while quantities last

OUR FLYER NOW INCLUDES COST FOR ISO17025 CALIBRATION

MITUTOYO ELECTRONIC MICROMETERS

Suited to a wide application range from the inspection room to building into a production line!

See page 10



Gauging Solutions
Page 1-7



Digital Readout
Page 11



Page 8,9
Linear Gauge Systems



FALL 2017

Some items may not
be exactly as shown

FREE MITUTOYO WORKSHOPS

Join us for FREE half day workshops each month. Workshops begin with a complimentary breakfast and run from 8:45am to approx. 11:45am

Register on-line at www.mitutoyo.ca

**Thurs. Oct 19th
GD&T**

Understanding geometric dimensioning and tolerancing terminology. Form, fit and function - how controls work to define the measurement of parts and features. Examples of GD&T callouts and how to evaluate the best device for the callout.

**Thurs. Nov 23th
Gauge Calibration**

The importance of consistency while using a hand measurement tool. When to calibrate and how to determine frequency of calibration. What's the importance of a calibrated standard? Effectively manage and track tool calibration data. What's the importance of ISO 17025 calibration.

Visit our website to sign up for
Mitutoyo News & Special Offers
www.mitutoyo.ca

ALSO IN THIS FLYER:

**Hardness Testers
SAVE 10%
Page 2**

**CNC CMM PACKAGE
Complete package
Page 12**

CONTOUR MEASURING SYSTEM

Model CV-2100M4 - QUICK & EASY CONTOUR MEASUREMENTS

CENTRALIZED FRONT CONTROL PANEL

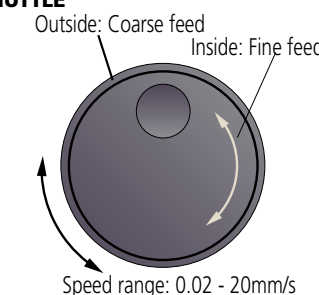


By enabling faster X-axis movement and enhancing the stylus up/down functions, the drive unit can return to the measurement start position after auto-displacement of the stylus. This is especially useful when multi-location (multiple-unit) measurement is being executed by a part program.

HIGHLY EFFICIENT MEASUREMENT



EASY OPERATION WITH X-AXIS JOG SHUTTLE



- Quick movement in Z2 because of an easy to use quick grip
- X-axis drive up to 20mm/s by jog shuttle
- Centralized front control panel
- Auto execution and multi point measurement with new stylus up-and down function
- Easy part programming as well as single measurement with software FORMTRACEPAK
- Automatic evaluation, best fit of contours, CAD comparison and many more features as standard
- CV-2100 M4 mounted with quick grip stand on a granite base

CV-2100M4 SPECIFICATIONS

Measuring range: X: 100 mm Z: 50 mm
Resolution: X axis: 0.1 μ m
Z axis: 0.1 μ m
Accuracy: X axis: $\pm(2.5+0.02L)$ μ m
Z axis: $\pm(2.5+0.1H)$ μ m

CV-2100M4 CONTRACER PACKAGE:

Code	Description	SALE
218-633A	CV-2100M4 Contracer (Main unit) complete with:	\$28,081 USD
	Windows 8 Computer Quad Core with 24" Dell Monitor, Canon Colour Printer & cable	
	100 x 50mm Micro-stage	
	Formtracpak V5.4 Software	

BONUS PRODUCTIVITY PACK INCLUDED AT NO EXTRA CHARGE!

64AAB471	MEASURLINK, REAL-TIME PROFESSIONAL V8	No charge
211-032	Centering Chuck	
356038	Stage For Small Work Piece	



**MeasurLink Real-Time Pro
No. 64AAB471**
Data Management Software



Quick Chuck No. 211-032
Dimensions: $\varnothing 4.65 \times 1.61"$

Distributed by



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HR-SERIES HARDNESS TESTERS

Series 963 - Rockwell Hardness Testers

HR Series cover a large range of applications for Rockwell, Rockwell Superficial and Brinell hardness measurements. All models are complete with Flat and VEE anvils, Diamond and 1/16" Carbide ball indenters, 2 HRC and 1 HRBW Rockwell blocks (MR models) or 3 Rockwell blocks and an HR30N and HR30TW (MS testers). Contact your participating distributor or Mitutoyo sales representative for complete details.

Prices apply to in-stock units only - QUANTITIES ARE LIMITED!

Model Order No.	HR-320MS 963-231-10A	HR-430MR 963-240-10A	HR-430MS 963-241-10A
Rockwell	●	●	●
Rockwell Superficial	●	X	●
Brinell	Optional	Optional	Optional
Display Unit	Digital: Hardness value, Scale display, Timer setting, Conversion, GO/NG judgment, Offset setting		
Data Output	RS-232C, SPC (Digimatic)		
Test Force Selection	X	●	●
Loading Drive Unit	Motorized	Motorized	Motorized
Auto-start	X	●	●
Features	Automatic test force control • Test force selection manual by weight	Automatic test force control • Test force selection by selector knob • Auto brake	Automatic test force control • Test force selection by selector knob • Auto brake
SALE Reg. Price	\$9,832.50 \$10,925.00	\$10,125.00 \$11,250.00	\$11,250.00 \$12,500.00



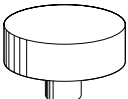





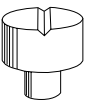
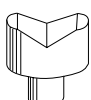
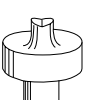
HR-430MR

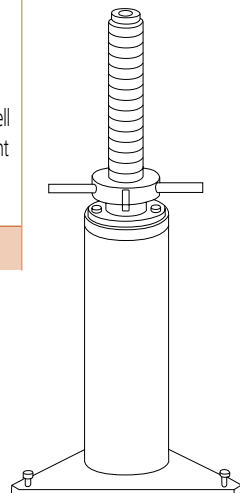


View a video demonstration for HR Hardness Testers

- Frame design allows the full 7.1" of specimen capacity without the need to cut a hole in the table
- Simple to operate; the digital HR320 model uses a flashing bar graph to indicate when the initial test force has been reached
- 430 models feature automatic brake and automatic start function that prevent overloading and begins test cycle
- The HR430 model also includes the dial a weight system for easier load selection
- All models are complete with Flat and VEE anvils, diamond and 1/16" carbide ball indenters, 2 HRC and 1 HRBW Rockwell blocks (MR models)s or 3 Rockwell blocks and an HR30N and HR30TW (MS testers.)

Optional Accessories

Flat anvils		Round table	Spot anvils	
	Diameter: 64mm No. 810-039 Price \$270.00			Diameter: 5.5mm Insert Diameter: 19mm No. 810-044 Price \$179.00
	Diameter: 40mm No. 810-039-8 Price \$293.00			Diamond-tipped type for Rockwell superficial hardness measurement No. 810-030 Price \$3,713.00
Diameter: 180mm No. 810-037 Price \$695.00				
V-Anvils			Adjustable support	
	Diameter: 40mm Groove width: 6mm No. 810-041 Price \$229.00			Adjustable height: 330 to 470mm Used to mount a V-anvil No. 810-028 Price \$4,100.00
Diameter: 40mm Groove width: 50mm No. 810-040 Price \$226.00				
Diameter: 10mm Insert Diameter: 19mm No. 810-042 Price \$219.00				



COOLANT PROOF MICROMETERS

	<ul style="list-style-type: none"> • IP65 protection for use in harsh environments • With SPC output • Resolution .00005"/0.001mm • Friction thimble
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Range	Order No.	SALE	CALIBRATION
0-1" / 0-25.4mm	293-335-30	\$ 264.96	\$39.00
	293-348-30*	\$ 207.00	
1-2" / 25.4-50.8mm	293-336-30	\$ 311.88	

Remarks: *No SPC output

Optional Accessories

05CZA662	SPC Cable 40"/1m	\$100.00
05CZA663	SPC Cable 80"/2m	\$147.80

MDC "LITE" DIGIMATIC MICROMETERS



293-831-30

- Simplified design with zero set and in/mm keys
- No spindle clamp
- No data output
- Resolution: .00005"/0.001mm

Range	Order No.	Style	SALE	CALIBRATION
0 - 1" / 0-25.4mm	293-831-30	Ratchet	\$ 157.70	\$39.00
	293-832-30	Friction	\$ 162.45	

INPUT TOOL

- Allows you to connect any Mitutoyo gauge with SPC output directly to your PC or laptop with USB 2.0 or 1.1 port



Order No.264-016
SALE \$225.15

SPHERICAL FACE MICROMETER



- Designed to measure the wall thickness of various tubing
- Mechanical counter
- Spherical anvil and flat spindle
- Ratchet stop

Range	Order No.	Grad.	SALE	CALIBRATION
0 - 1"	295-153	.0001"	\$ 238.28	\$39.00

OUTSIDE MICROMETERS - TAPERED FRAME



101-113

- Satin-chrome-finished frame
- Tapered (on the anvil side) for hard-to-reach places
- Graduation: .0001"

Range	Order No.	Style	SALE	CALIBRATION
0 - 1"	101-113	Ratchet	\$ 141.68	\$39.00
0 - 1"	101-117	Friction	\$ 147.20	

RATCHET THIMBLE MICROMETER



- Smooth action ratchet function works from both the thimble and speeder allowing easy one-handed operation
- Audible ratchet

Range	Order No.	Grad.	SALE	CALIBRATION
0-1"	102-717	.0001"	\$ 170.20	\$39.00



FOLLOW US ● LIKE US

OUTSIDE MICROMETER SETS

- Hammertone, baked-enamel finished frame
- With standard bars

103-929



Range	Order No.	No. of Mic's	Graduation	SALE	CALIBRATION
0-3"	103-929	3	.001"	\$ 432.40	\$166.00
0-4"	103-930	4		\$ 517.04	\$230.00

BLADE MICROMETERS

- Non-rotating spindle type
- Anvil and spindle have blade for measuring groove diameter of shafts, keyways, etc.
- Ratchet stop



Range	Order No.	Graduation	SALE	CALIBRATION
0-1"	122-125	.0001"	\$ 313.72	\$39.00
1-2"	122-126		\$ 323.84	

PITCH GAUGES

- Thread pitch size is stamped on each gauge



Range	Screw Pitch	Leaves	Order No.	SALE
4-42 TPI	Unified	30	188-111	\$ 37.05
0.4-7mm	Metric	18	188-121	\$ 31.35
		21	188-122	\$ 37.72
0.4-7mm/ 4-42TPI	Metric & Unified	51	188-151	\$ 69.35

MECHANICAL DIGITAL OUTSIDE MICROMETERS

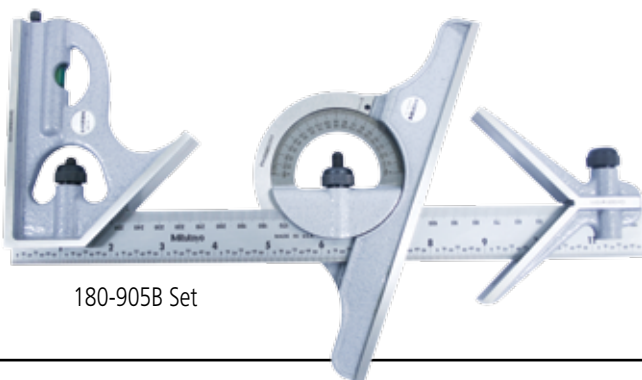
- Friction thimble
- Quick, error-free reading



Range	Order No.	Graduation	SALE	CALIBRATION
0-1"	193-211	.0001"	\$ 192.85	\$39.00
1-2"	193-212		\$ 218.04	

COMBINATION SQUARE HEADS, BLADES & SET

- Measuring heads attach to the steel rule blade for versatile measurements



180-905B Set

Range	Order No.	Remarks	SALE
12-24"/ 300-600mm	180-102B	Square head	\$ 78.85
	180-301B	Protractor head	\$ 127.30
12" (4R)	180-501B	Blade 8,16,32,64ths	\$ 56.05
12" x 300mm	180-503B	Blade 32,64ths, 1, .0.5mm	\$ 72.20
12" (4R)	180-905B	Complete Set	\$ 335.35

DIGIMATIC CARBON FIBRE CALIPER with optional jaw attachments

- Range of applications can be expanded by using interchangeable jaws (optional)
- Lightweight style uses CFRP (carbon fibre reinforced plastics) in beam and jaws
- Direct readout of ID measurements from LCD. Offset value can be easily set by pressing Offset key
- Preset function for setting a desired starting point
- SPC data output
- Range: 0 (.5)* - 24"
- *min. dimension in ID measurement
- Resolution: .0005"/0.01mm

ABSOLUTE™
SPC
IP66

Order No.
552-313-10

SALE \$1,170.24
CALIBRATION \$114.00

Optional Accessories

05CZA624 SPC cable (40"/1m) \$108.00
05CZA625 SPC cable (80"/2m) \$115.00

- 914055** Centerline attachments (mm)*
914056 Centerline attachments (inch)*
914057 Pointed ID measuring attachments (mm)*
914058 Pointed ID measuring attachments (inch)*
914053 Attachment clamps (for models up to 24")
*Attachment clamps are required

THICKNESS GAUGE

- Convenient grip handle, thumb trigger and spring-loaded spindle
- Flat anvil type
- Ceramic spindle/anvil
- Graduation: .001"



Order No.	Range	SALE	CALIBRATION
7326S	0 - .05"	\$243.80	\$51.00
7300S	0 - .5	\$147.20	
7304S	0 - 1"	\$176.64	

STEEL STANDS

Size	Order No.	PRICE ¹
12x18"	517-950	\$874.00
*12X18"	517-950-1	\$942.00
18x24"	517-952	\$962.00
*18x24"	517-952-1	\$1,223.00
24x36"	517-956	\$1,173.00
*24x36"	517-956-1	\$1,301.00
36x48"	517-964	\$1,246.00
*36X48"	517-964-1	\$1,507.00

Remarks: *with casters

¹Freight charges included when shipped with granite plate

VERNIER CALIPERS

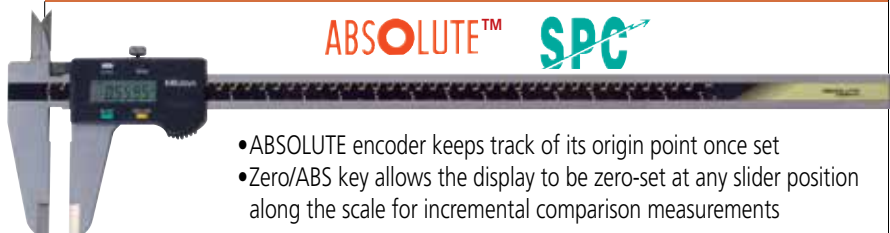


530-105

Range	Order No.	Graduation Lower/Upper	SALE	CALIBRATION
0-150mm/ 0 - 6"	530-104²	0.05mm/ 1/128"	\$ 83.72	\$39.00
0 - 6"	530-105¹	.001" / 1/128"	\$ 91.08	
0 - 8"	530-116¹		\$ 137.08	\$51.00
0-200mm/0-8"	530-118^{2,3}	0.02mm/.001"	\$ 127.30	
0 - 300mm/0-12"	530-119^{2,3}	0.02mm/.001"	\$ 256.68	

Remarks: ¹ Inch/Inch dual scale ² Metric/Inch dual scale
³ High Accuracy type

ABSOLUTE DIGIMATIC CALIPER



- ABSOLUTE encoder keeps track of its origin point once set
- Zero/ABS key allows the display to be zero-set at any slider position along the scale for incremental comparison measurements

Range	Order No.	Resolution	SALE	CALIBRATION
0 - 18/0-450mm	500-505-10	.0005" / 0.01mm	\$ 904.36	\$89.00

Optional Accessories

959149 SPC Cable 40"/1m \$61.50
959150 SPC Cable 80"/2m \$69.00

**SAVE
15%**

SURFACE PLATES

BLACK GRANITE SURFACE PLATES (100 lbs. load/sq. ft. No ledge)

Size	Order No.	Accuracy (µin)	Weight (lbs)	Grade*	SALE Includes Freight
12x18x4"	517-803	100	100	A	\$260.95
18x24x4"	517-805	130	200		\$509.15
24x36x6"	517-808	170	500		\$969.00
24x36x6"	517-708	85	600	AA	\$1,222.30
36x48x8"	517-814	300	1200	A	\$2,037.45
36x48x8"	517-714	150	1500	AA	\$2,494.75

*Grade: A (Inspection) AA (Laboratory)

NOW SAVE 15%

Series 513 Lever type Test indicators have been redesigned with new features and product enhancements, including:

- Contact point effective length is printed on the dial face
- Increased impact resistance and durability of gears and bezel
- Inspection certificate included with bidirectional evaluation
- Increased scratch-resistance of crystal



DIAL TEST INDICATORS

- Performs easy and accurate measurement of narrow or recessed areas, plus inside and outside diameters that dial indicators cannot access
- Jeweled bearings, anti-magnetic

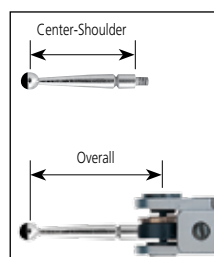


Range	Order No.	Set	Graduation	Dial	Remarks	SALE
Horizontal Type						
.008"	513-403-10T	Full	.0001"	0-4-0		\$ 202.30
.03"	513-402-10E	Basic	.0005"	0-15-0		\$ 117.30
	513-402-10T	Full				\$ 130.90
.03"	513-412-10T		Basic	.0005"	0-15-0	Long contact point
	513-412-10E					\$ 189.55
.03"	513-472-10E		.0005"	0-15-0	ø2mm ruby contact point	\$ 147.90
.03", 0.7mm	513-406-10T	Full	.0005"/ 0.01mm	0-15-0 0-35-0		\$ 173.40
0.14mm	513-401-10E	Basic	0.001mm	0-70-0		\$ 225.25
0.2mm	513-405-10T	Full	0.002mm	0-100-0		\$ 194.65
0.5mm	513-414-10E	Basic	0.01mm	0-25-0	Double scale spacing, Long contact point	\$ 164.90
0.8mm	513-404-10T	Full	0.01mm	0-40-0		\$ 158.10
Horizontal Type with 20° tilted face						
.016"	513-443-16T	Full	.0001"	0-4-0	Rev Counter	\$ 256.70
0.4mm	513-445-10T		0.002mm	0-100-0	Rev Counter	\$ 270.30
Vertical Type						
.008"	513-453-10T	Full	.0001"	0-4-0		\$ 226.10
CALIBRATION \$39.00						

Optional Contact Points (Please call for prices)

Inch

Length (mm)		Contact Point Part No.				
Center-Shoulder	Overall	ø1	ø2	ø3	Ruby Ø2mm	Test Indicator
11.5	15.0	136076	136075	136077	21CZA213	513-403 513-453 513-443
16.4	19.9	133196	133195	133197	21CZA204	513-402 513-406 513-472 ³
30.4	33.9	136291	136290	136292	21CZA214	513-412



Metric

Length (mm)		Contact Point Part No.				
Center-Shoulder	Overall	ø1	ø2	ø3	Ruby Ø2mm	Test Indicator
9.4	12.9	ø1	ø2	ø3	21CZA212	513-401E
11.2	14.7	103017	103010	103018	21CZA209	513-405E 513-445E
17.4	20.9	103013	103006	103014	21CZA201	513-404E
33.3	36.8	137746	129949	137747	—	513-414E

DIAL TEST INDICATOR & MINI MAGNETIC BASE SET



Order No.513-907-10E
SALE \$219.30
SAVE 15%

Set includes tool case and:

513-402-10E Dial test indicator

Range: .03"

Graduation: .0005"

7014E-10 Mini Magnetic Stand

Applicable holding stem:

ø6mm, ø8mm*, ø9.53mm (3/8")

Dovetail groove provided

Mechanical locking system

*Supplied with collar 02AZC291



SERIES 2 DIAL INDICATORS

- Hard coated crystal for durability and scratch resistance
- Many optional contact points and back accessories available
- ANSI/AGD type, Stem 3/8" dia.
- Anti-shock, jeweled bearings

2923S-10



2776S



Range	Range/Rev	Order No.	Grad.	Dial	SALE	CALIBRATION
.025"	.01"	2803SB-10	.0001"	0-50	\$ 176.64	\$39.00
.05"		2923S-10¹			\$ 176.64	
1"	.05"	2776S	.0005"		\$ 137.75	

Remarks: ¹ Reverse reading type
"B"=Flat back (otherwise Lug back)

ABSOLUTE DIGIMATIC ID-C INDICATOR

- Unlimited response speed
- Go/NG judgment can be performed by setting lower tolerance limits
- Performs internal calculations
- Face rotates 330°
- SPC Data output
- ANSI/AGD type, 3/8" stem dia.

SPC
ABSOLUTE™



Range	Order No.	Back	Graduation	SALE	CALIBRATION
.5"/12.7mm	543-392	Lug	.00005"/0.001mm	\$ 484.50	\$39.00
	543-392B	Flat	.00005"/0.001mm	\$ 484.50	
	543-402B	Flat	.0005"/0.01mm	\$ 342.24	

Optional Accessories

905338	SPC Cable 40"/1m	\$46.30
905409	SPC Cable 80"/2m	\$51.00

ONE REVOLUTION INDICATOR

Shows entire spindle travel or range as one sweep of the hand, eliminating reading errors
Range: 0.16mm
Stroke: 0.2mm
Dial 80-0-80
Flat back
Shockproof, jeweled bearings
ISO type, Stem Ø8mm

CALIBRATION \$39.00

Order No. **2901SB-10**
SALE \$200.56



DIGIMATIC INDICATOR & MAGNETIC BASE SET

- 7010SN Magnetic stand accepts dial, digimatic and test indicators (Ø6mm, Ø8mm*, Ø9.5mm (3/8"))
- 543-783B ID-S Flat back style with simple design is an industry favourite (Range: .5"/12.7mm, Resolution: .0005"/0.01mm. It features ABSOLUTE encoder technology, and SPC output. Functions: Origin-set, Zeroset, counting direction switching, Power ON/OFF, Data Output

*supplied with a spacing collar

Order No. **S950-783**

SALE \$341.32

SOLAR ABSOLUTE DIGIMATIC ID-S INDICATOR

- Eco-friendly operation eliminates the hassle of battery replacement
- Operates under minimum light conditions of 40 lux - lower than the level of a warehouse
- Large reserve of power allows extended use under minimum light condition
- Flat back, ANSI/AGD type, 3/8" dia. stem



Range	Order No.	Graduation	SALE	CALIBRATION
.5"/12.7mm	543-507B	.0005"/0.01mm	\$ 215.28	\$39.00

Optional Accessories

905338	SPC Cable 40"/1m	\$46.30
905409	SPC Cable 80"/2m	\$51.00

STEEL RULES

- Clear graduations on satin chrome finish



182-207



182-302

Range	Order No.	Description	Graduations	Width	SALE	CALIBRATION
150mm	182-211	Full Flexible Rule Thickness 1/64"	1, 0.5, 1. 0.5 mm	12mm	\$ 23.92	\$51.00
6"x150mm	182-207		1/10, 1/100, 1mm, 0.5mm	1/2"	\$ 16.15	
6"x150mm	182-208		1/10, 1/50, 1mm, 0.5mm		\$ 23.75	
12" (16R)	182-222		1/32, 1/64, 1/50, 1/100th		\$ 31.35	\$101.00
12" (3R)	182-224		1/32, 1/64, 1/10, 1/50th		\$ 30.36	
12"x300mm	182-225		1/32, 1/64, 1mm, 0.5mm		\$ 31.35	
12"x300mm	182-226		1/50, 1/100, 1mm, 0.5mm		\$ 44.65	
6"x150mm	182-302	Semi Flexible Rule - Engraved on front side only	1/2, 1mm, 1/32, 1/64, 1/16th	5/8"	\$ 19.32	\$51.00
12"x300mm	182-305				\$ 39.56	\$101.00

POCKET MAGNIFIER

25X magnification
Includes stand
Suitable for inspection of metal surfaces

Order No. 183-202

SALE \$250.24



CLEAR LOUPE

10X magnification
Drawtube removable

Order No. 183-302

SALE \$34.20

POCKET STEEL RULE

Engraved on front side only
Backside: Inch/metric equivalents
Size: 6" x 150mm, Width: 1/2"
Graduation 1mm, 1/64ths

Order No. 950-300

SALE \$11.40



DIGITAL PROTRACTOR

- Machined aluminum frame
- Alternate reference (zero)
- Reading hold
- Simple calibration requires no fixtures



Range	Order No.	Remarks	SALE
Full 360° range (90° x 4)	950-317	Resolution: 0.1° Repeatability: ±0.1° No output	\$ 330.60
	950-318	Resolution: 0.01° (0-9.99°), 0.1° (10-90°) Repeatability: ±0.05° RS-232C compatible	\$ 529.00

Optional Accessories

50AAA983A RS-232C Output Cable with foot switch 40"/1m \$234.00



GAUGE BLOCK SET

- 81 pieces Steel - Inch Rectangular set
- Grade 0
- Wooden case

Order No. 516-902-26

SALE \$2,174.88

CALIBRATION \$329.00

**SAVE
5%**

Linear Gauge & Counters

Linear Gauge LGK – Slim, Robust

- Ideal for integration into harsh environments such as automation applications.
- Compact model offers the vibration/shock resistance of the proven LGF series at 1/5 the size
- Excellent sliding durability improved to remain serviceable for at least 15 million cycles (in-house testing).
- Excellent shock resistance, 100g/11ms (IEC 60068-2-27).

IP66

Order No.	Range	Resolution	Stem Dia.	Accuracy (20°C)	List	SALE
542-158	10mm (.4")	0.1µm (.000005")	ø8mm	(0.8+L/50) µm (L=mm)	\$1,584.00	\$1,504.80
542-157	10mm (.4")	0.5µm (.000020")	ø8mm	(1.5+L/50) µm (L=mm)	\$1,027.00	\$975.65
542-156	10mm (.4")	1µm (.000050")	ø8mm	(1.5+L/50) µm (L=mm)	\$1,027.00	\$975.65



Linear Gauge LGF – Standard Dimensions, Robust

Order No.	Range	Resolution	Stem Dia.	Accuracy (20°C)	List	SALE
542-181	.4" (10mm)	0.1µm (.000005")	ø8mm	(0.8+L/50)	\$1,224.00	\$1,162.80
542-182	1" (25mm)	0.1µm (.000005")	ø15mm	(0.8+L/50)	\$1,548.00	\$1,470.60
542-161	.4" (10mm)	1µm (.000050")	ø8mm	(1.5+L/50)	\$754.00	\$716.30
542-162	1" (25mm)	1µm (.000050")	ø15mm	(1.5+L/50)	\$972.00	\$923.40
542-612	2" (50mm)	5µm (.0002")	ø15mm	(7.5+L/50)µm	\$656.00	\$623.20
542-163	2" (50mm)	1µm (.000050")	ø15mm	(1.5+L/50)	\$1,175.00	\$1,116.25
542-613	2" (50mm)	5µm (.0002")	ø15mm	(7.5+L/50)µm	\$721.00	\$684.95

- Excellent vibration/shock resistance due to the design of the spindle guide section.
- Sliding durability improved to remain serviceable for at least 15 million cycles (in-house testing).
- Shock resistance, 100g/11ms (IEC 60068-2-27)

IP66



Linear Gauge LGB - Slim

- Compact body is a great choice as a built-in sensor.
- The spindle guide uses high-precision linear ball bearings for smooth movement and great durability.
- Nut clamp type is also available.

Order No.	Range	Resolution	Stem Dia.	Accuracy (20°C)	List	SALE
542-222	10mm (.4")	1µm (.000050")	ø8mm	2µm	\$1,045.00	\$992.75
542-230 ¹	10mm (.4")	1µm (.000050")	ø8mm	2µm	\$1,308.00	\$1,242.60
542-223 ²	10mm (.4")	1µm (.000050")	ø8mm	2µm	\$1,169.00	\$1,110.55

¹air extend ²air retract

IP54



Linear Gauge LG – Long Range

Order No.	Range	Resolution	Stem Dia.	Accuracy (20°C)	List	SALE
542-313 Motorized	100mm (4")	0.1µm (.000005")	ø20mm	(2+L/100)µm ≤ 2.5µm (L=mm)	\$4,290.00	\$4,075.50
542-332	100mm (4")	1µm (.000050")	ø20mm	(2.5+L/100) µm ≤ 3µm (L=mm)	\$2,448.00	\$2,325.60
542-316	100mm (4")	0.1µm (.000005")	ø20mm	(2+L/100)µm ≤ 2.5µm (L=mm)	\$2,508.00	\$2,382.60

IP54



- Long stroke (100mm), motor-driven spindle. (542-313)
- IP66 models are also available.

Linear Gauge LGD – Absolute, Standard Dimensions, Robust

- Absolute encoder makes it possible to maintain the reference point even when powered off.
- Excellent protection against dust and splashing (IP66)
- The spindle guide uses high-precision linear ball bearings for extremely smooth movement and exceptional durability.
- Sliding durability improved to remain serviceable for at least 15 million cycles (in-house testing).
- Excellent shock resistance, 100g/11ms (IEC 60068-2-27)

Order No.	Range	Resolution	Stem Dia.	Accuracy (20°C)	List	SALE
575-326	.4" / 10mm	.0005" / 10µm	ø8mm	.001" / 20µm	\$658.00	\$625.10
575-327	1" / 25mm	.0005" / 10µm	ø15mm	.001" / 20µm	\$691.00	\$656.45
575-328	2" / 50mm	.0005" / 10µm	ø15mm	30µm	\$831.00	\$789.45

IP66



**SAVE
5%**

Linear Gauge & Counters

EH Counter Multi-function Type

- Maximum value, minimum value, and TIR (runout) measurements are possible
- The 2-gage input type is capable of addition, subtraction and speed
- DIN compatible Panel-mounting type and DIN size (144 x 72mm).
- The RS Link function permits multiple EH counters (10 units maximum) to be connected by daisy chain
- The standard RS-232C output allows fast communication with a PC or PLC
- USB output (for Sensorpak only)



542-075A



542-071A/542-072A



542-007A

EC Counter Single-function Type

- Simple Display for LGD, LGS, or other Digimatic Gages
- Produces 3-step/5-step, 3 types of tolerance output and BCD output.
- Employs DIN size (96x48mm) and mount-on-panel configuration

Model	EH-101P	EH-102P	EH-102D	EC-101D
Order No.	542-075A	542-071A	542-072A	542-007A
Applicable gage	LGK, LGF, LGB, LGH (0.1um), LG		LGD, LGS, ID, SD	
Number of gage input	1 (Single-display)	2 (Double-display)	2 (Double-display)	1 (Single-display)
Resolution (Depending on the linear gage type connected)	.00005" to .0005" / 0.0001mm to 0.01mm		Automatic setting by gage	
Tolerance judgment display	LED display (3 step: Amber, Green, Red / 5 step: Amber, Amber flash, Green, Red flash, Red)			LED display (3 step: Amber, Green, Red)
List	\$1,170.00	\$1,428.00	\$1,428.00	\$434.00
SALE	\$1,111.50	\$1,356.60	\$1,356.60	\$412.30

EG Counter – Single-function Type

- Simple Display, Multi-Step Go/No Go Judgment and Output, BCD Output, Open Collector
- Employs DIN size (96x48mm) and mount-on-panel configuration to facilitate system integration.



EB Counter – Single-function Type

- Simple Display, Multi-Step Go/No-Go Judgment, BCD Output and Analog Output
- Employs DIN size (96x48mm) and mount-on-panel configuration

Order No. (counter only)	542-015	542-016	542-092-2	542-093-2
Applicable gage head	LGE, LGF, LGK, LGB, LGM, LG, LGH (Not compatible with LGH110, reference point or sine wave models)	LGD, LGS, ID, SD	LGF, LGK, LGE, LGB (not compatible with reference point or sine wave output type models)	LGS, LGD, LGD-M
Number of gage inputs	1	1	1	1
Maximum input frequency	1.25MHz, response speed depends on gage specification.	Response speed depends on gage specification.	1.25MHz (2-phase square wave), response speed depends on gage specification.	Response speed depends on gage specification.
Resolution	0.01mm to 0.0005mm / .001" to .00005"	Automatic setting by gage	0.01mm to 0.0005mm / .0005" to .000005"	Depends on gage specification.
List	\$896.00	\$981.00	\$933.00	\$933.00
SALE	\$851.20	\$931.95	\$886.35	\$886.35

EV Counter – Multi-function, Multiple Input Type

Order No. (counter only)	542-063	542-064
Applicable gage head	LGE, LGF, LGK, LGB, LGM, LG not compatible with reference point mark, sine wave output type or 0.1um resolution models.	LGD, LGS
Number of input channels	6	6
Maximum input frequency	1.25MHz (2-phase square wave), response speed depends on gage specification. Max. counting speed: 5MHz	Response speed depends on gage specification.
Resolution	10um to 5um / .0005" to .00005"	Depends on gage specification.
List	\$2,004.00	\$2,004.00
SALE	\$1,903.80	\$1,903.80

- Up to six gages can be connected to one unit, extendable up to 10 units (60 gages at maximum) using the RS Link function to facilitate the configuration of a multi-point measurement system.
- A range of output modes to choose from: I/O output for tolerance judgment and segment output, BCD data output and RS-232C output are available.
- In addition to normal measurement, peak or differential measurement between gages is possible.



542-063



542-064

D-EV Display Unit for EV Counter

Order No.	02ADD400
Number of connections	1 EV counter per unit
Number of digits	Sign plus 6 digits (8 digits internal to EV counter)
Function of operation switch	Channel switching, measurement mode switching (current data, maximum value, minimum value, runout), parameter setting, presetting, tolerance setting
Input/output	RS Link connectors: 1 each for IN, OUT
Power supply (optional)*	Terminal block (M3 screw), 12 - 24V DC, 200mA
List	\$479.00
SALE	\$455.05



- Display unit for the EV counter.
- Allows set up of EV counter without a personal computer or other equipment.

Optional Accessories*

- AC adapter: **No.02ADN460***1
- AC cable (USA): **02ZAA010***1
- Terminal connecting cable: **02ADD930***2

*1: Required when connecting with EV-16P/D/Z.

*2: Required when using AC adapter.

Note: AC adapters may not be needed if using power from EV counter to power the D-EV.

**SAVE
5%**

Mitutoyo

FALL FLYER Oct 2 - Dec 20, 2017

Mu-Checker Probes & Counters

Sensorpak Software

Dynamically Displays Positions, Tolerances and Calculations, and Acquires Basic Data from EH, EV Counters and Litematics.

02NGB073 Sensorpak V3.0 w/cable (Win 7,8.1 - 32/64 bit)



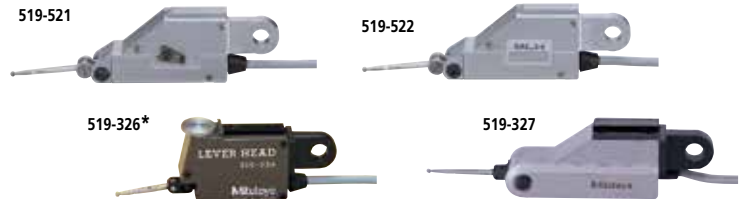
List: \$1,090 **SALE: \$1,035.50**

Mu-Checker Probes (Lever head)

Lever probes are available in two types. The most common type uses a pivoted stylus so the contact point moves in a circular arc; the 519-326 uses a parallel translation leaf-spring mechanism so contact point movement is linear; and requires no cosine correction.

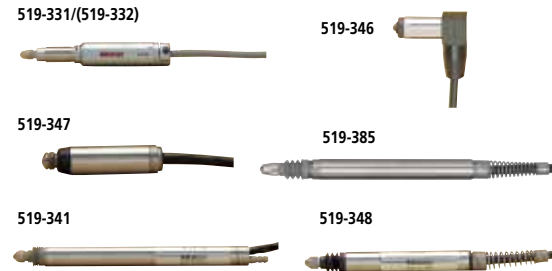
Order No.	Range	Stroke	Linearity(%)	Measuring force(N)	List	SALE
519-521	±0.5mm	±0.6mm	±0.3	Approx. 0.2	\$788.00	\$748.60
519-522	±0.5mm	±0.6mm	±0.3	Approx. 0.02	\$1,288.00	\$1,223.60
519-326*	±0.5mm	±0.6mm	±0.3	Approx. 0.15	\$1,713.00	\$1,627.35
519-327	±0.5mm	±0.65mm	±0.5	Approx. 0.15	\$1,913.00	\$1,817.35

* Parallel translation movement.



Mu-Checker Probes (Cartridge head)

Order No.	Range(mm)	Stroke(mm)	Stem	Linearity (%)	Measuring force(N)	List	Promo
519-331	±0.5	±0.65	ø8mm	±0.5	0.25	\$519.00	\$493.05
519-332	±0.5	±0.65	ø3/8"	±0.5	0.25	\$531.00	\$504.45
519-346	±0.25	+0.34 -0.26	ø8mm	±0.3	0.7	\$1,544.00	\$1,466.80
519-347	±0.5	+0.85 -0.65	ø8mm	±0.3	0.7	\$1,500.00	\$1,425.00
519-385	±1.5	+2.35 -1.65	ø8mm	±0.3	0.7	\$1,294.00	\$1,229.30
519-341	±2.5	+3.2 -2.8	ø8mm	±0.5	0.9	\$2,288.00	\$2,173.60
519-348	±1.0	+1.35 -1.15	ø8mm	±0.3	0.7	\$1,563.00	\$1,484.85



Mu-Checker Counters

Order No.	519-552A	519-554A	519-562A	519-355 [†]
Number of gage inputs	1	2	2	6
Display range	±5µm/±15µm/±50µm/±150µm/±500µm/±1500µm ±.00015"/±.0005"/±.0015"/±.005"/±.015"/±.05"		±2.000mm/±0.2000mm/±.08"/±.008"	±2.000, ±0.200
Resolution	0.1µm/0.5µm/1µm/5µm/10µm/50µm .000005"/.00001"/.00005"/.0001"/.0005"/.001"		0.001mm/0.0001mm/.00005"/.000005"	0.001mm/0.0001mm/.00005"/.000005"
Differential mode	±A, ±B, ±A±B		±A, ±B, ±A±B	Multiple
Display accuracy (linearity)	±1% / ±full scale		-	-
Output	Analog ±1V ±full scale		Analog ±1V ±full scale, Digimatic code out	RS-232C, BCD, tolerance judgment and segment
Power input	AC adapter 120v 60Hz			Optional*
List	\$1,863.00	\$2,113.00	\$2,613.00	\$2,628.00
SALE	\$1,769.85	\$2,007.35	\$2,482.35	\$2,496.60

* Optional AC Adapter Components: 02ZAA010, 02ADN460, 02ADD930

- Single touch zero-set function is standard.
- Switchable measurement ranges make the Mu-Checker suitable for a range of applications.



Standard type
519-552A



Differential type
519-554A

- Single touch zero-set function is standard.
- Switchable measurement ranges make the Mu-Checker suitable for a range of applications.
- Dual input



Digital Mu-Checker
519-562A

- Multi-channel functionality up to 6 gages.
- Up to ten counters can be connected to one PC using the RS Link function allowing a maximum of 60 gages.
- Maximum, minimum and runout measurement between channels is possible in addition to normal measurement on individual channels.



519-355[†]

[†] Optional D-EV counter on page 9

BUILD YOUR OWN DIGITAL READOUT PACKAGE

SAVE 5% ON COUNTER & SCALES (WITH MINIMUM PURCHASE)

BUILD YOUR OWN DRO PACKAGE:

MINIMUM PURCHASE:

- One AT715 Linear Scale (see list below)
- KA-200 Counter (2 or 3 axis)

Code	Description	WITHOUT MIN. PURCHASE	WITH MIN. PURCHASE
174-183A	KA-200 Counter (2-axis)	\$734.00	\$697.30
174-185A	KA-200 Counter (3-axis)	\$1,080.00	\$1,026.00
Your choice	1 pc. Linear Scale (see table below)	See table for pricing	

**SAVE
5%**

with minimum purchase



View video
KA-200
functions

AT715 ABSOLUTE COOLANT PROOF LINEAR SCALES

Order No.	Effective range	WITHOUT MIN. PURCHASE	WITH MIN. PURCHASE
539-801	4" / 100mm	\$ 370.00	\$ 351.50
539-802	6" / 150mm	\$ 370.00	\$ 351.50
539-803	8" / 200mm	\$ 374.00	\$ 355.30
539-804	10" / 250mm	\$ 374.00	\$ 355.30
539-805	12" / 300mm	\$ 374.00	\$ 355.30
539-806	14" / 350mm	\$ 378.00	\$ 359.10
539-807	16" / 400mm	\$ 383.00	\$ 363.85
539-808	18" / 450mm	\$ 390.00	\$ 370.50
539-809	20" / 500mm	\$ 394.00	\$ 374.30
539-811	24" / 600mm	\$ 401.00	\$ 380.95
539-813	28" / 700mm	\$ 409.00	\$ 388.55
539-814	30" / 750mm	\$ 415.00	\$ 394.25
539-815	32" / 800mm	\$ 418.00	\$ 397.10
539-816	36" / 900mm	\$ 456.00	\$ 433.20
539-817	40" / 1000mm	\$ 474.00	\$ 450.30
539-818	44" / 1100mm	\$ 538.00	\$ 511.10
539-819	48" / 1200mm	\$ 603.00	\$ 572.85
539-820	52" / 1300mm	\$ 669.00	\$ 635.55
539-821	56" / 1400mm	\$ 731.00	\$ 694.45
539-822	60" / 1500mm	\$ 811.00	\$ 770.45
539-823	64" / 1600mm	\$ 909.00	\$ 863.55
539-824	68" / 1700mm	\$ 1,004.00	\$ 953.80
539-825	72" / 1800mm	\$ 1,100.00	\$ 1,045.00
539-860	80" / 2000mm	\$ 1,675.00	\$ 1,591.25
539-861	88" / 2200mm	\$ 1,788.00	\$ 1,698.60
539-862	96" / 2400mm	\$ 2,150.00	\$ 2,042.50
539-863	100" / 2500mm	\$ 2,200.00	\$ 2,090.00
539-864	104" / 2600mm	\$ 2,250.00	\$ 2,137.50
539-865	112" / 2800mm	\$ 2,400.00	\$ 2,280.00
539-866	120" / 3000mm	\$ 2,675.00	\$ 2,541.25

The updated KA-200 Counter has many new features making it an excellent addition to manual machine retrofit packages.

- Many high end functions packed into this standard counter
- Large LED display is sharp and bright. Easy to see at a distance
- The positive touch front panel keys are solid and easy to push with fast response
- The sub display lets you know what function you are currently using

AT715 ABSOLUTE COOLANT PROOF SCALES

- ABSOLUTE encoder eliminates the need for origin restoration, and drastically reduces power consumption
- IP67 coolant-proof protection
- 5 Year Warranty!

IP67
ABSOLUTE™

BRACKETS:

Type	Code	Description	Price
Milling Systems	64AAB196	Universal bracket kit (12")	\$267.00
	64AAB197	Universal bracket kit (14-16")	\$275.00
	64AAB199	Screw kit	\$58.00
Lathes	64AAB191	Bracket Kit	\$324.00
Grinders	64AAB194	Scale Y Axis	\$451.00
All Systems	64AAB200	Machine Arm Kit (KA Counter)	\$226.00



We're so confident in the exceptional performance of our AT-715 Series Coolant Proof Linear Scales that we offer a full 5 Year Warranty!

CNC COORDINATE MEASURING

COMPLETE CNC CMM PACKAGES



CRYSTA-APEX S7106 CNC CMM PACKAGES

Measuring Range: (X) 28" x (Y) 40" x (Z) 24"

- ✓ CRYSTA-APEX S7106 CNC CMM
- ✓ Dell PC system, workstation, MCOSMOS Level-1 CNC Software
- ✓ PH10M/TP20 Motorized probe system <<OR>> PH10M/SP25 Scanning probe system
- ✓ Required cables and hardware

MOTORIZED HEAD OPTION

TP20 Touch Trigger Probe

This touch-trigger probe has an outside diameter as small as $\varnothing 13.2$ mm, which greatly contributes to probing complex portions of a workpiece. With the combined use of an appropriate probe extension it can probe even deeper locations.

SALE \$84,766 USD

SCANNING HEAD OPTION

SP25M Scanning Probe

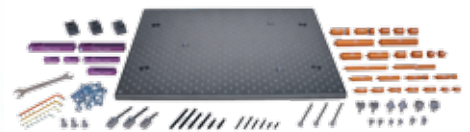
Compact, high-accuracy, multi-function scanning probe without outside diameter $\varnothing 25$ mm that makes scanning measurements, high-accuracy point and centripetal point measurements (optional function).

SALE \$93,945 USD

BONUS: INCLUDES CNC CMM PRODUCTIVITY PACK



Starter Stylus Kit



Eco-Fix L Fixture Kit

Mitutoyo

Mitutoyo Canada Inc.

Mississauga (905) 821-1261 Montréal (514) 337-5994x251

info@mitutoyo.ca www.mitutoyo.ca

Taxes and shipping extra. Installation, calibration, training included - travel related expenses may apply. This offer cannot be used in conjunction with any other offer. Promotion package not exactly as illustrated.

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