

Mitutoyo

MITUTOYO CANADA INC.

PRECISION TOOL SALE

Prices in effect:
Apr 3 - Jun 30, 2017
while quantities last

OUR FLYER NOW INCLUDES COST FOR ISO17025 CALIBRATION, IF DESIRED

Some items may not be exactly as shown

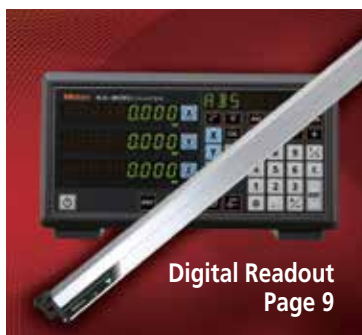
High performance HR-521
Rockwell Hardness Tester
Page 10



Gauging
Solutions
Page 1-8



Digital Readout
Page 9



Surface Finish
Testers
Page 11



Spring 2017

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. Apr 20th: Roundness

What is roundness measurement and why do we need special machines? Data filters - how they affect your measurements. Drawing requirements and interpretations.

Thurs. May 25th: Optics

Strengths and weaknesses of optical devices in measurement. Types of optical instruments. Multi-sensor optical systems.

Thurs. Jun 15th: Surface Testing

Basic understanding of machine, calibration of stylus, measurement of test piece/components. Some principals of surface finish will be covered, as well as reporting functions of the software, unit assessment and hands-on demonstration.

EVENTS & EXHIBITS

Metalworking Mfg. & Production Expo

- **Apr 18** Victoria Convention Centre
Winnipeg, MB
- **May 2** Molson Can. Theatre at Hard Rock
Casino - Coquitlam, BC

Skills Canada - Ontario Provincials

May 1-3rd Toronto Congress Centre

Skills Canada - Nationals

May 31-June 3rd Winnipeg, MB

Western Mfg. Tech. Show (WMTS)

June 6-8th Edmonton Expo Centre

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

Distributed by

OUR PRECISION GAUGES ARE ALWAYS ON THE LEADING EDGE

PRECISION IS OUR PROFESSION

OUTSIDE MICROMETERS



- Ratchet stop
- Hammer tone, baked-enamel finish
- Supplied with a standard bar (except 0-1"/0-25mm models)

Range	Order No.	Graduation	SALE	CALIBRATION
0 - 25mm	103-129	0.001mm	\$ 130.64	\$39.00
0 - 1"	103-131	.0001"	\$ 130.64	
2 - 3"	103-217		\$ 160.55	
3 - 4"	103-218		\$ 169.28	
4 - 5"	103-219		\$ 184.92	
5 - 6"	103-220		\$ 199.64	
6 - 7"	103-221		\$ 222.64	
7 - 8"	103-222		\$ 272.32	
8 - 9"	103-223		\$ 294.40	\$51.00
9 - 10"	103-224		\$ 322.92	

OUTSIDE MICROMETERS



- With a tapered frame
- Ratchet stop
- Hammer tone, baked-enamel finish
- Supplied with a standard bar (except 0-1"/0-25mm models)

Range	Order No.	Graduation	SALE	CALIBRATION
0 - 1"	103-260	.0001"	\$ 120.65	\$39.00
1 - 2"	103-262		\$ 139.65	

MICROMETER SPINDLE ATTACHMENT TIPS

OPTIONAL ACCESSORIES: To measure odd workpieces, several convenient anvil attachments are prepared by Mitutoyo. Among them the most often used one is the ball attachment.

Order No.	PRICE
101468-L	\$10.00
101469-L	\$14.00
208098	\$44.00
208099	\$43.00
208100	\$43.00
208101	\$44.00
208102	\$51.00



OUTSIDE MICROMETER SETS



103-907-40 (6 pc. set)



103-908-40 (12 pc. set)

Range	Order No.	No. of Standards	Graduation	SALE	CALIBRATION
0 - 6"	103-907-40	5	.0001"	\$ 858.80	\$358.00
0 - 12"	103-908-40	11		\$ 2,100.36	\$839.00

DEPTH MICROMETERS

- Ø4mm interchangeable rods provide a wide measuring range
- Base : 4 x .63"
- Ratchet stop
- Rod length can be adjusted in 1" increments
- Graduation .001"



129-131

Range	Order No.	Rod Qty.	SALE	CALIBRATION
0 - 4"	129-131	4	\$ 225.40	\$114.00
0 - 6"	129-132	6	\$ 269.80	

MITUTOYO QUALITY IN A CONVENIENT STORAGE CASE

YOUR MEASUREMENT SOLUTION FOR COUNTLESS INSPECTION APPLICATIONS



S950-001 Digimatic Tool Kit

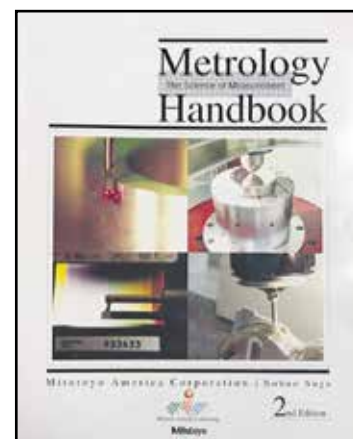


S950-002 Mechanical Tool Kit

Tool Kit No.	DIGIMATIC TOOL KIT INCLUDES:		SALE	CALIBRATION
S950-001	500-196-30	0-6"/0-150mm Digimatic Caliper, .0005"/0.01mm resolution	\$ 389.50	\$78.00
	293-831-30	0-1"/0-25.4mm Digimatic Lite Micrometer, .00005"/0.001 resolution		
	099-15011	Custom tool case		
Tool Kit No.	MECHANICAL TOOL KIT INCLUDES:		SALE	CALIBRATION
S950-002	505-740	0-6" Dial Caliper, .001" graduation	\$ 291.65	\$129.00
	103-177	0-1" Outside Micrometer, .001" graduation		
	182-102	6" Steel Rule, 16R		
	099-15011	Custom tool case		

Great Student Gift*

* EDUCATION DISCOUNT available with Student Card



Metrology Handbook

The Science of Measurement

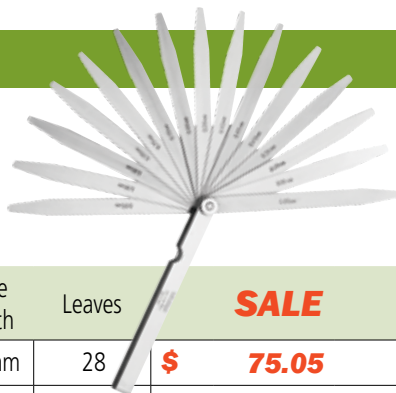
This valuable reference book (English only) contains 16 chapters covering key topics on precision measurement principles and techniques. Written and published by Mitutoyo America.

Order No EDU102-10CA-2

PRICE \$70.00

THICKNESS GAUGES

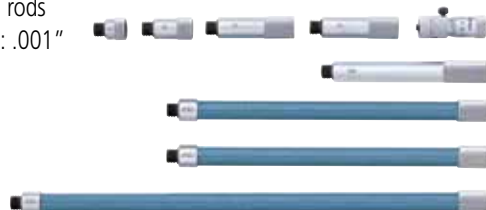
- Each leaf is marked with its thickness and detachable if necessary
- Straight blade, 13mm width



Range	Order No.	Blade Length	Leaves	SALE
0.05 - 1mm	184-313S	100mm	28	\$ 75.05
	184-303S	150mm	28	\$ 86.48
	184-304S	150mm	20	\$ 72.68
	184-305S	100mm	13	\$ 57.96

TUBULAR INSIDE MICROMETER

- Extension rod type
- Travel of micrometer head .5"
- 8 extension rods
- Graduation: .001"



Range	Order No.	SALE	CALIBRATION
2 - 40"	137-214	\$ 613.64	\$165.00



This state-of-the-art centre, located in Mississauga, provides a large scope of calibration services on a comprehensive range of measuring equipment. The Mitutoyo Calibration Laboratory is certified by the Standards Council of Canada as part of the Canadian Laboratory Assessment Services (CLAS) program in accordance with ISO/IEC 17025. Certificate Number 2003-05, Accredited Laboratory No. 503. Visit the following link for more information.

<http://www.mitutoyo.ca/metrology-services.html>

PRECISION IS OUR PROFESSION

MITUTOYO OFFERS OVER 6,000 PRECISION MEASURING PRODUCTS

ABSOLUTE DIGIMATIC CALIPER



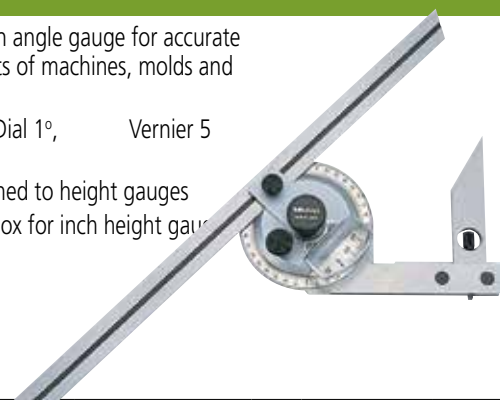
- ABSOLUTE Digimatic Caliper with exclusive AOS sensor technology for improved measurement dependability by increasing resistance to harsh shop conditions
- Absolute encoder keeps track of its origin point once set

Range	Order No.	Graduation	SALE	CALIBRATION
0 - 4" / 0-100mm	500-195-30 ¹	.0005" / 0.01mm	\$ 165.30	\$39.00
0 - 6" / 0-150mm	500-196-30		\$ 178.60	\$39.00
0 - 8" / 0-200mm	500-197-30		\$ 257.45	\$51.00
0 - 12" / 0-300mm	500-193 ²		\$ 485.45	\$64.00

Remarks: ¹ .075" rod depth bar ² Electrostatic capacitance encoder type

UNIVERSAL BEVEL PROTRACTOR

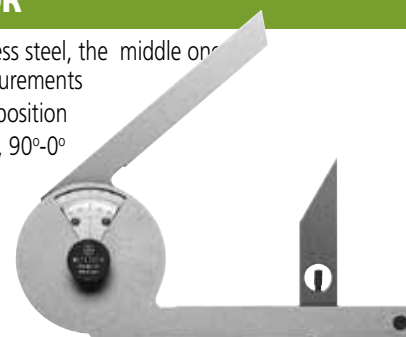
- High precision angle gauge for accurate measurements of machines, molds and jigs
- Graduation: Dial 1°, Vernier 5 min.
- Can be attached to height gauges
- With clamp box for inch height gauge



Order No.	Blade	SALE
187-904	6"	\$ 359.10
187-906	12"	\$ 393.76

BEVEL PROTRACTOR

- Consists of 3 sheets of stainless steel, the middle one which is made of angle measurements
- Centre knob locks the blade position
- Protractor graduation: 0°-90°, 90°-0°



Graduation	Order No.	SALE
1° / 5min.	187-201	\$ 218.04

PROLONG THE LIFE OF YOUR MITUTOYO TOOLS

Mitutoyo Canada offers repair services to most Mitutoyo products, and ISO/IEC 17025 certified calibration services to any manufacturer's measuring tools within our scope, at our Mississauga facility.

As a Mitutoyo tool user, you already know that you have purchased a premium quality product. We do not sell "disposable" instruments. On occasion, there may be a need for repairs/calibrations and our services will be a tremendous benefit to help prolong the life of your Mitutoyo measuring tools. With proper maintenance and care, they can last your lifetime! We have a generous inventory of parts with quick turn-around time. Certified calibration services are provided at an additional cost.

Now, for a limited time, for every approved tool repair, where a certified calibration is required or requested, Mitutoyo will offer a **20% discount off the calibration cost**.

**SAVE
20%**

Mitutoyo REPAIR & CALIBRATION

Now, for a limited time, for every approved tool repair, where a certified calibration is required or requested, Mitutoyo will extend a **20% discount off the calibration cost**. Repairs can be performed on Mitutoyo tools only. Calibrations available on products that fall within scope of Calibration Lab.



This offer is valid on approved repairs between April 3 to June 30, 2017 only

Mitutoyo Quality

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Mississauga, ON L5N 5N1
Tel (905) 821-1261
www.mitutoyo.ca

QUALITY PRODUCTS FROM A BRAND YOU CAN TRUST

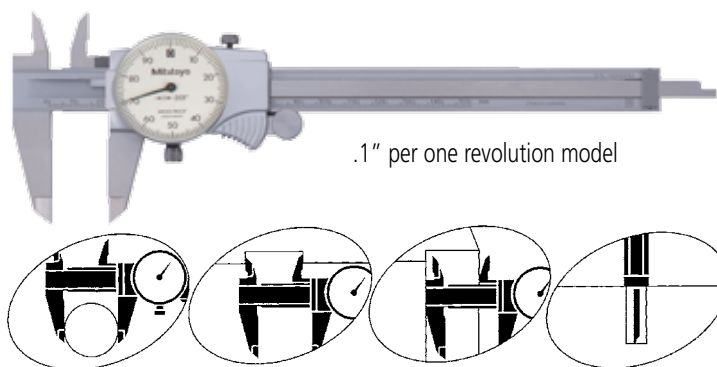
MITUTOYO PRECISION MEASURING INSTRUMENTS ARE TRUSTED WORLDWIDE

DIAL CALIPERS

- New design dial movement for ultra-smooth sliding and high shock protection
- Lock screw for dial bezel and for holding the sliding jaw in position
- Measures OD, ID, depth and steps

Range	Order No.	Graduation	Range/ Rev.	SALE	CALIBRATION
0-6"	505-736 ¹	.001"	.1"	\$ 204.24	\$39.00
0-6"	505-738 ²			\$ 230.00	\$39.00

Remarks: ¹Carbide-tip jaws for OD ²Carbide-tip jaws for OD & ID



.1" per one revolution model

COOLANT PROOF™ IP67



COOLANT PROOF is the universal term of Mitutoyo Digimatic Small Tool Instruments that are free from measurement error and physical deterioration due to routine exposure to water, cutting oil or coolant. This high performance is achieved by using encoders that are inherently immune to contamination, where exposure is inevitable, combined with comprehensive sealing techniques and extremely oil-resistant materials to guarantee a long working life under normal operating conditions.

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ABSOLUTE COOLANT PROOF CALIPERS

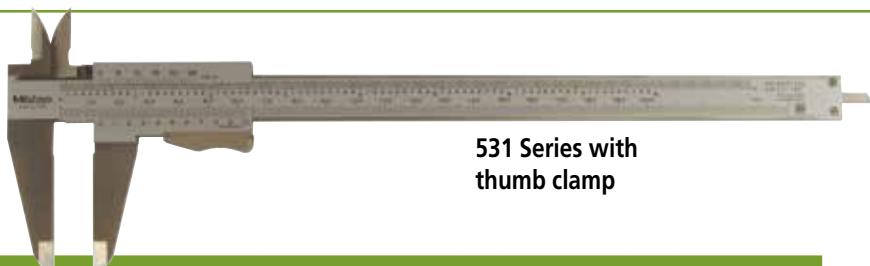
- ABSOLUTE encoder keeps track of its origin point once set
- Dust/water protection conforming to IP67 level
- With SPC output



Range	Order No.	Resolution	SALE	CALIBRATION
0-6"/0-150mm	500-762-20	.0005"/	\$ 284.05	\$39.00
0-12"/0-300mm	500-764-10	0.01mm	\$ 592.48	\$64.00

Optional Accessories

05CZA624	SPC Cable 40"/1m	\$108.00
05CZA625	SPC Cable 80"/2m	\$115.00



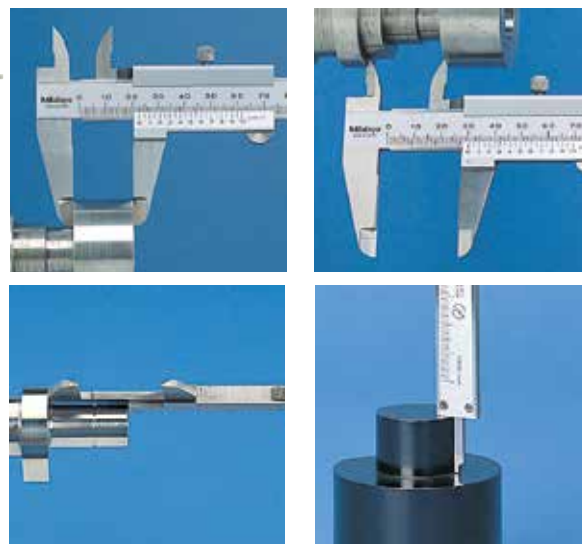
531 Series with thumb clamp

VERNIER CALIPERS

- The slider moves only when the spring loaded thumb clamp is depressed
- Measures OD, ID, depth and steps
- Dual reading scales (metric/inch)

Range	Order No.	Graduation	SALE	CALIBRATION
0-150mm / 0-6"	531-122 ¹	0.05mm / 1/128"	\$ 126.35	\$39.00
0-150mm / 0-6"	531-128 ²	0.02mm / .001"	\$ 110.20	\$39.00
0-200mm / 0-8"	531-129 ²		\$ 126.04	\$51.00
0-200mm / 0-8"	531-108	0.05mm / 1/128"	\$ 148.12	\$51.00

Remarks: ¹with inch/metric conversion label ²High accuracy model



PRECISION IS OUR PROFESSION

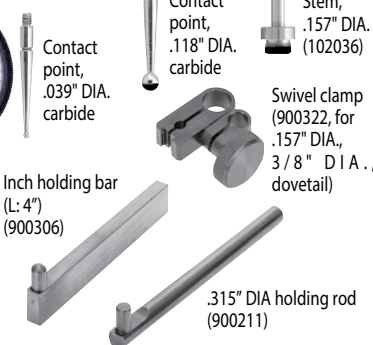
POCKET DIAL TEST INDICATORS

- Jeweled bearings assure higher sensitivity and accuracy
- Reversible measuring direction with fully adjustable bezel/dial face
- Contact point is adjustable within 220°
- Bezel is sealed with O-ring to keep out water/oil

513-518

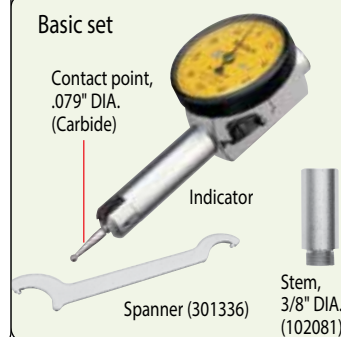


Full set



Set Configuration: Inch

Basic set



Range	Order No.	Graduation	Dial	Remarks	SALE
.04"	513-518T	.001"	0-20-0	Full set	\$ 167.20
.01"	513-504T	.0001"	0-5-0		\$ 201.40

CALIBRATION \$39.00

Range	Order No.	Graduation	Dial	Remarks	SALE
.02"	513-512	.0005"	0-10-0	Basic set	\$ 192.28
	513-512T			Full set	\$ 200.56

CALIBRATION \$39.00

DIAL TEST INDICATORS - HORIZONTAL

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

513-412



Range	Order No.	Graduation	Dial	Remarks	SALE
.03"	513-402T	.0005"	0-15-0	Full set	\$ 176.70
.03"	513-412¹	.0005"	0-15-0	Basic set	\$ 209.95
.03"	513-412T¹	.0005"	0-15-0	Full set	\$ 237.50
.008"	513-403T	.0001"	0-4-0	Full set	\$ 226.10
.03", 0.7mm	513-406T	.0005"/ 0.01mm	0-15-0 0-35-0	Full set	\$ 187.68

CALIBRATION \$39.00

Remarks: ¹ Long contact point

STEEL RULES

- Full Flexible Rule Thickness 1/64"
- Clear graduations on satin chrome finish
- Stainless tempered



Range	Order No.	Graduations	Width	SALE
6" (4R)	182-201	1/8, 1/16, 1/32, 1/64"	1/2"	\$ 16.15
6" (16R)	182-202	1/32, 1/64, 1/50, 1/100th		\$ 16.15
6" (5R)	182-203	1/32, 1/64, 1/10, 1/100th		\$ 16.15
6" (3R)	182-204	1/32, 1/64, 1/10, 1/50th		\$ 15.64
6" x 150mm	182-205	1/32, 1/64, 1mm, 0.5mm		\$ 16.15
6" x 150mm	182-206	1/50, 1/100, 1mm, 0.5mm		\$ 16.15

CALIBRATION \$51.00

DIAL TEST INDICATOR - UNIVERSAL

- Universal application for all directions. Direction of measuring point and direction of measurement itself can be adjusted 360° without moving the indicator
- Range: .03"
- Graduation: .0005"
- Jeweled bearings



Order No.	Dial	Remarks	SALE
513-302GT	0-15-0	Full set	\$ 494.96

CALIBRATION \$39.00

SERIES 3 DIAL INDICATOR

- Large diameter (78mm / 3.07") graduation face for easy reading
- Lug back
- Many optional contact points and back accessories available
- ANSI/AGD type, 3/8" stem dia.
- Range: 1"
- Range/rev.: .1"
- Graduation: .001"
- Dial: ±0-100



Order No. 3416S

SALE \$171.12

CALIBRATION \$39.00

CHOOSE MITUTOYO FOR PRODUCT EXCELLENCE

UNPRECEDENTED SUPPORT AND SERVICE

SERIES 2 DIAL INDICATORS

- Hard coated crystal for durability and scratch resistance
- Lug back
- Many optional contact points and back accessories available

2046S-60



Range	Range/Rev	Order No.	Grad.	Type Stem Dia.	Dial	SALE	CALIBRATION
10mm	1mm	2046S	0.01mm	ISO/JIS 8mm	0-100	\$ 103.04	\$39.00
10mm	1mm	2046S-11 ^{1,3}	0.01mm	ANSI/AGD 3/8"	0-100	\$ 123.28	
10mm	1mm	2046S-60 ²	0.01mm	ISO/JIS 8mm	0-100	\$ 188.60	

Remarks: ¹Jeweled bearings ²Waterproof type ³Yellow dial face

PEAK HOLD DIAL GAUGE

- Displays the maximum value
- ISO/JIS type
- 8mm stem dia.



Peak hold

Order No. 2046S-80
SALE \$197.80



Range	Range/Rev	Order No.	Graduation	Dial
10mm	1mm	2046S-80	0.01m	0-100

CALIBRATION \$39.00

ABSOLUTE DIGIMATIC ID-C INDICATOR



- Stem dia. 3/8"
- ANSI-AGD type
- GO/NG judgment
- SPC data output
- Internal calculations using the simple formula of $[F(x) = Ax]$
- Flat back type
- Face rotates 330°

SPC
ABSOLUTE™

Range	Order No.	Resolution	SALE	CALIBRATION
1"/25.4mm	543-472B*	Switchable resolution type*	\$ 698.28	\$39.00
2"/50.8mm	543-492B*		\$ 779.00	

Remarks: *.00005", .0001", .0005", .001mm, .01mm

Optional Accessories

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

MAGNETIC FLEXI-STAND

- Applicable holding stem dia.: ø6mm, ø8mm*, ø9.53mm (3/8")
- For dial test indicators



Order No.	Remarks	SALE
7012-10	*Supplied with collar 02AZC291	\$ 197.60

PRECISION IS OUR PROFESSION

MITUTOYO OFFERS OVER 6,000 PRECISION MEASURING PRODUCTS

ABSOLUTE DIGIMATIC HEIGHT GAUGES

- Built-in ABSOLUTE linear encoder eliminates zero setting at every power-on
- No over-speed errors
- Carbide tipped scriber
- Large smooth slider wheel
- SPC data output

SPC ABSOLUTE™



Large smooth slider feed wheel



Large clamp lever



Comfortable grip base

Range	Order No.	Resolution	SALE	CALIBRATION
0-12"/0-300mm	570-312	.0005"/ 0.01mm	\$ 696.44	\$140.00
0-18"/0-450mm	570-313		\$ 975.20	
0-24"/0-600mm	570-314		\$ 1,249.36	

Optional Accessories

905338 SPC Cable 40"/1m \$46.30

905409 SPC Cable 80"/2m \$51.00

SAVE
15%

SURFACE PLATES

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

Size	H	Acc.	Order No.	Wt. (lbs.)	Grade	SALE Includes Freight
9 x 12"	3"	100	517-801	40	A (Inspection)	\$165.75
12 x 12"	3"	100	517-802	50		\$204.00
12 x 18"	4"	100	517-803	100		\$260.95
18 x 24"	4"	130	517-805	200		\$509.15
24 x 36"	5"	170	517-808	500		\$969.00
24 x 36"	6"	85	517-708	600	AA (Inspection)	\$1,222.30
36 x 48"	8"	150	517-714	1500		\$2,494.75

Remarks: Accuracies shown in microinches (µin)

STEEL STANDS

Size	Order No.	Wt. (lbs.)	PRICE ¹
18 x 24"	517-952	50	\$675.00
24 x 36"	517-956	73	\$789.00
36 x 48"	517-964	105	\$964.00
36 x 48"	517-964-1*	109	\$1,465.00

Remarks: *with casters

¹Freight charges included when shipped with granite plate

BUILD YOUR OWN DIGITAL READOUT PACKAGE

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

BUILD YOUR OWN DRO PACKAGE:

MINIMUM PURCHASE:	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	

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

**SAVE
5%**

with minimum purchase



View video
KA-200
functions

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!

**SAVE
10%**

HR-521 ROCKWELL HARDNESS MACHINE

- Multiple test force generation for Rockwell, Rockwell Superficial and Brinell hardness
- Real time electronic test force control for accurate loading, eliminating load force overshooting
- Auto-stop elevation table and automatic preliminary test force loading to provide stable test force generation
- Indenter escape function for continuous testing at fixed table position, eliminating instability caused by table retraction
- Complete with one flat and VEE anvil, diamond and 1/16" carbide ball indenters, 2 HRC and 1 HRBW Rockwell test blocks and an HR30N and HR30TW test block

Model HR-521		Order No. 810-202-03A
Preliminary Test Force		29.42N (3kgf), 98.07N (10kgf)
Test Force	Rockwell	588.4N (60kgf), 980.7N (100kgf), 1471N (150kgf)
	Rockwell Superficial	147.1N (15kgf), 294.2N (30kgf), 441.3N (45kgf)
Light Force Brinell		HBW2.5/187.5
Maximum Specimen Height		Height: 8.1"/205mm Depth: 5.9"/150mm
SALE		\$16,875.00 List Price \$18,750.00

The HR-521 uses a dolphin-nose indenter to maximize space around the test zone so more specimens of various shapes can be tested without having to section them.



View video
Mitutoyo Hardness Testers



Hardness testing of internal surfaces, which previously was impossible without sectioning, is now possible. The minimum diameter that can be tested is 34mm as standard. Measurement can be performed down to an inside diameter of 22mm by using the diamond indenter (19BAA292-optional).



The operation panel can be installed on top of the machine, which is very helpful when installation space is limited.



Touch screen control panel

Advanced control panel able to perform functions such as statistical analysis and graphical display of test results in addition to basic functions.

Test force auto switch function

The type of the indenter is set in advance. The desired hardness scale can be selected on the operation panel. The test force can be automatically switched to the level corresponding to the selected hardness scale.

Graphic display of X-R control chart and statistical calculation results

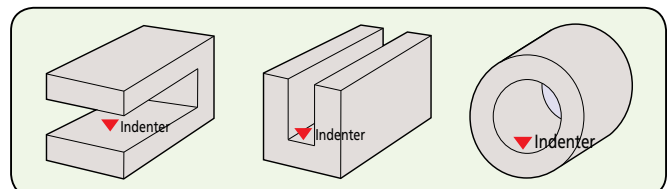
Statistical calculation values such as the maximum, minimum, and mean, X-R control charts, and histograms, which are required for hardness evaluation, can be displayed.

Equipped with the continuous measurement function

An electromagnetic brake means that handle operations are not required for measurement from the 2nd point. All operations can be completed by pressing buttons, which allows continuous, speedy measurement.

Various shapes of specimen can be measured. (Nose-type indenter has been adopted)

The nose-type indenter allows internal measurement of pipe samples as well as the top surface of a flat sample.



Want more information? Email us at info@mitutoyo.ca

SURFACE FINISH INSPECTION SYSTEMS

Skidded Systems

SURFTEST SJ-210

The portable solution for precise, effective and uncomplicated surface testing in the production environment. With a large, easily legible 2.4" (6 cm) color graphic LCD for the clear representation of measurement values

- Intuitive menu navigation
- High-resolution detector with broad measuring range
- Removable traverse unit for measurements where space is restricted
- Standard USB, RS232C, SPC interfaces



SURFTEST SJ-210

with standard Drive Unit

Order No. 178-561-02A

PRICE \$3,038.00

TEST SPECIMEN

CALIBRATION \$125.00

SURFTEST SJ-310

Portable surface testing instrument with touch sensitive operation panel and integral printer. For rapid portable measurement in the production environment.

- Intuitive menu navigation
- 5.7" color graphic LCD
- 10 different measurement conditions can be stored internally; up to 500 with optional SD card
- 16 languages supported

SAVE 15%

SURFTEST SJ-310



SURFTEST SJ-310

with standard Drive Unit

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Reg. List \$5,213.00

TEST SPECIMEN

CALIBRATION \$125.00



View video

Mitutoyo Surface Testers

Skidless System

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Machines that can be used as portable or stationary units. For portable reference plane measurement of surface roughness and waviness as well as contact area ratio and amplitude distribution.

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- 5.7" (14,5 cm) color graphic LCD
- Analysis of primary profile (P), roughness profile (R), filtered waviness (W)
- 16 languages supported



SAVE 15%

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SURFTEST SJ-411

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CALIBRATION \$125.00

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\$806.00

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Order No. 178-010

SALE \$3,506.25

Reg. List \$4,125.00



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- Top quality ceramic axis
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- TFT color display (touch screen)
- USB, RS-232C, SPC interfaces

SAVE 15%

SURFTEST SJ-500



SURFTEST SJ-500

Standard Drive Unit

Order No. 178-533-02A

SALE \$14,450.00

Reg. List \$17,000.00

TEST SPECIMEN

CALIBRATION \$125.00

CRYSTA-Plus M574

Manual CMM Package

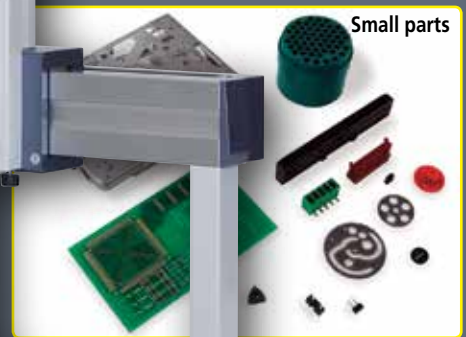
High operability, environmental stability and performance. Manual CMM quality inspection system for many types of part verification.



Resin molded or plastic formed products



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Small parts

Complete package includes:

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- Required cables and hardware

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- Three year Dell PC warranty
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- Installation, calibration, training (travel related expenses are extra)

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with QM Data Processor

*Freight charges are extra.

\$26,343* USD
with PC System & MCOSMOS

Mitutoyo

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