

Mitutoyo

Winter 2012

Prices effective from
Jan. 3 to Apr. 30, 2012

New Year Sale

Featuring Mitutoyo Precision Measuring Tools & Instruments



U-WAVE Cable #02AZD790B
See page 5 for details



Coolant Proof Micrometers - Ratchet Stop



Range	Order No.	Resolution	Remarks	MSLP	SALE
0-1"/0-25mm	293-330	.00005"/ 0.001mm	With SPC	\$250	\$225.⁰⁰
1-2"/25-50mm	293-331		With SPC	\$324	\$291.⁶⁰
2-3"/50-75mm	293-332		With SPC	\$383	\$344.⁷⁰
0-1"/0-25mm	293-340		No SPC	\$215	\$193.⁵⁰
1-2"/25-50mm	293-341		No SPC	\$276	\$248.⁴⁰
2-3"/50-75mm	293-342		No SPC	\$336	\$302.⁴⁰

Optional Accessories

	MSLP	SALE
05CZA662 SPC cable (40" / 1m)	\$100. ⁰⁰	\$90.⁰⁰
05CZA663 SPC cable (80" / 2m)	\$147. ⁸⁰	\$133.⁰²

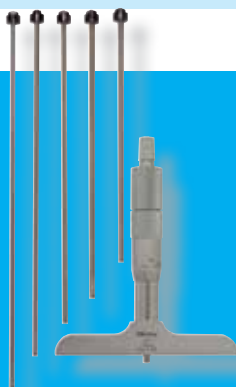


Dial Depth Gauge

Order No. 7211

- Range: 0-200mm
- Graduation: 0.01mm
- Stroke: 10mm
- 5 Extension rods

SALE \$263.⁷⁰
MSLP \$293



Depth Micrometer

Order No. 129-132

- Range: 0-6" **SALE \$231.³⁰**
- Base: 4" x .63" MSLP \$257
- 6 rods
- Graduation .001"

Micrometer Stand

Order No. 156-101-10

- For micrometers up to 4" (100mm)
- Adjustable angle type

SALE \$81.⁹⁰
MSLP \$91



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INDUSTRIAL SUPPLIES

Brampton PH 905.459.1312
Burlington PH 905.335.6575
Montreal PH 514.697.2987
Oakville PH 905.844.3371


Oshawa PH 905.723.1151
Owen Sound PH 519.371.2402
Peterborough PH 705.742.4206
Stratford PH 519.273.0822

MICROMETERS



OUTSIDE MICROMETERS

- Ratchet stop
- With standard bar (except for 0-1" model)



Order No.	Range	Graduation	MSLP	SALE
103-177	0-1"	.001"	\$91	\$81.⁹⁰
103-178	1-2"		\$105	\$94.⁵⁰
103-179	2-3"		\$130	\$117.⁰⁰
103-180	3-4"		\$147	\$132.³⁰
103-181	4-5"		\$157	\$141.³⁰

OUTSIDE MICROMETERS

- Easy one-handed operation
- Heat insulation cover (supplied with 102-718 model only)



Order No. 101-711
0-1" Model
Graduation .001"
SALE \$104.⁴⁰
MSLP \$116

Order No. 102-718
1-2" Model
Graduation .0001"
SALE \$145.⁸⁰
MSLP \$162

MICROMETER SET


Order No. 103-942

- 0-3" Range (3 pcs.)
- .0001" Graduation
- Standard bars not included



SALE \$170.¹⁰
MSLP \$189

OUTSIDE MICROMETERS



- Satin chrome finish
- Standard bar included (except for 0-1" models)

Order No.	Range	Graduation	Remarks	MSLP	SALE
101-112	25-50mm	0.001mm	Ratchet	\$154	\$138.⁶⁰
101-117	0-1"	.0001"	Friction	\$136	\$122.⁴⁰
101-114	1-2"	.0001"	Ratchet	\$163	\$146.⁷⁰

DIGIT MICROMETER


Order No. 193-102

- 25-50mm Range
- 0.01mm Graduation
- Mechanical digit counter with Standard



SALE \$176.⁴⁰
MSLP \$196

INSIDE MICROMETERS



Order No.	Range	MSLP	SALE
145-193	.2-1.2"	\$217	\$195.³⁰
145-194	1-2"	\$247	\$222.³⁰

- Caliper type jaws
- Locking clamp
- Graduation .001"

INSIDE MICROMETER

Order No. 141-001

- 25-32mm Range
- 7mm Travel of micrometer head



SALE \$75.⁶⁰
MSLP \$84

MICROMETER SET

Order No. 103-909

- 6-12" Range (6 pcs.)
- .0001" Graduation



SALE \$1,316.⁷⁰
MSLP \$1,463



Product excellence from a brand you can trust.

MICROMETERS



MICROMETER HEAD Order No. 148-811

- 0-.5" Range
- Stem dia. .375"
- Spindle face: Spherical
- Graduation .001"

SALE \$61.20
MSLP \$68



MICROMETER HEAD Order No. 148-852

- 0-.5" Range
- Stem dia. .375"
- Spindle face: Spherical
- With clamp nut
- Zero adjustable thimble
- Graduation .001"

SALE \$76.50
MSLP \$85



MICROMETER HEAD Order No. 152-372

- 0-1" Range
- Stem dia. .5"
- Spindle face: Flat (carbide tip)
- Bidirectional graduation
- Graduation .0001"

SALE \$252.00
MSLP \$280



MICROMETER HEAD Order No. 152-392

- 0-1" Range
- Stem dia. .709"
- Spindle face: Flat (hardened) with non-rotating device
- For X-axis, bidirectional graduation
- Graduation .0001"

SALE \$261.00
MSLP \$290



SPHERICAL FACE MICROMETERS



Order No. 295-115

Range 0-25mm
Spherical anvil and flat spindle

SALE \$218.70
MSLP \$243

- Mechanical counter type
- IP65 water/dust protection
- Ratchet stop
- 0.01mm Graduation

Order No. 295-215

Range 0-25mm
Spherical anvil and spherical spindle

SALE \$228.60
MSLP \$254

SPLINE MICROMETER Order No. 331-351

U-WAVE COMPATIBLE
U-WAVE Cable #02AZD790B
See page 5 for details



SALE \$464.40
MSLP \$516

- Range 0-1"/0-25mm
- Ratchet stop
- .00005"/0.001mm Resolution
- Anvil and spindle have small diameter for measuring splined shafts, slots and keyways
- SPC output

Optional Accessories

	MSLP	SALE
05CZA662 SPC cable (40" / 1m)	\$100.00	\$90.00
05CZA663 SPC cable (80" / 2m)	\$147.80	\$133.02

ABSOLUTE DIGIMATIC DEPTH GAUGE

U-WAVE COMPATIBLE
U-WAVE Cable #02AZD790A
See page 5 for details



SALE \$504.90
MSLP \$561

- Range 0-12"/0-300mm
- Resolution .0005"/0.01mm
- ABSOLUTE technology
- Optional wider extension bases are available
- SPC data output

Optional Accessories

	MSLP	SALE
05CZA624 SPC cable (40" / 1m)	\$108.00	\$97.20
05CZA625 SPC cable (80" / 2m)	\$115.00	\$103.50

DIGIMATIC MICROMETER HEAD

U-WAVE COMPATIBLE
U-WAVE Cable #02AZD790B
See page 5 for details



SALE \$319.50
MSLP \$355

- Range 0-1"/0-25mm
- Resolution .00005"/0.001mm
- Stem dia. .375"
- Spindle face: Flat (carbide tip)
- With clamp nut
- SPC output

Optional Accessories

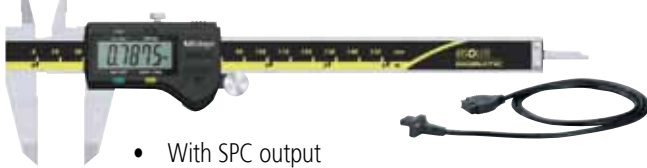
	MSLP	SALE
05CZA662 SPC cable (40" / 1m)	\$100.00	\$90.00
05CZA663 SPC cable (80" / 2m)	\$147.80	\$133.02

CALIPERS



ABSOLUTE DIGIMATIC CALIPERS

U-WAVE Cable #02AZD790C
See page 5 for details



- With SPC output
- Absolute technology keeps track of its origin point once set

Order No.	Range	Resolution	MSLP	SALE
500-151-20	0-150mm	0.01mm	\$297	\$267.³⁰
500-171-20	0-6" / 0-150mm	.0005" / 0.01mm	\$216	\$194.⁴⁰
500-172-20	0-8" / 0-200mm		\$283	\$254.⁷⁰

Optional Accessories

	MSLP	SALE
959149 SPC cable (40" / 1m)	\$61. ⁵⁰	\$55.³⁵
959150 SPC cable (80" / 2m)	\$69. ⁰⁰	\$62.¹⁰



ABSOLUTE COOLANT PROOF CALIPERS

U-WAVE Cable #02AZD790A
See page 5 for details



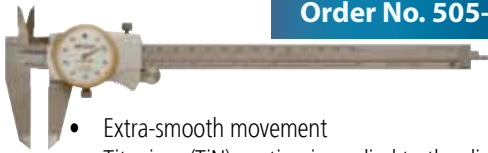
- With SPC output
- For workshop conditions exposed to coolant, water, dust or oil

Order No.	Range	Resolution	MSLP	SALE
500-762-10	0-6" / 0-150mm	.0005" / 0.01mm	\$271	\$243.⁹⁰
500-753-10	0-8" / 0-200mm		\$316	\$284.⁴⁰
500-764-10	0-12" / 0-300mm		\$506	\$455.⁴⁰
500-713-10	0-200mm	0.01mm	\$400	\$360.⁰⁰

Optional Accessories

	MSLP	SALE
05CZA624 SPC cable (40" / 1m)	\$108. ⁰⁰	\$97.²⁰
05CZA625 SPC cable (80" / 2m)	\$115. ⁰⁰	\$103.⁵⁰

DIAL CALIPER Order No. 505-690



- Extra-smooth movement
- Titanium (TiN) coating is applied to the sliding surface to increase wear resistance.
- 0-8" Range
- .001" Graduation
- .1" per one revolution

SALE \$207.⁰⁰
MSLP \$230

VERNIER HEIGHT GAUGE Order No. 514-103



- Range 0-12" / 0-300mm
- Graduation .001" / 0.02mm
- Zero reference point can be adjusted
- Carbide tipped scriber

SALE \$625.⁵⁰
MSLP \$695



VERNIER CALIPER Order No. 530-119

- High accuracy model
- 12" x 300mm Range
- Graduation: 0.02mm
- Metric/Inch dual scale
- With lock screw

SALE \$238.⁵⁰
MSLP \$265



VERNIER CALIPER Order No. 530-122

- High accuracy model
- 0-150mm Range
- Graduation: 0.02mm
- With lock screw

SALE \$97.²⁰
MSLP \$108



VERNIER CALIPER Order No. 532-119

- With fine adjustment
- 0-5" / 0-130mm Range
- Graduation:
Lower Scale 0.02mm
Upper scale .001"
- With mm/inch dual scale

SALE \$92.⁷⁰
MSLP \$103

Product excellence from a brand you can trust.

U-WAVE WIRELESS SYSTEM



Manage and analyze data with **MeasurLink® Real Time Plus**

U-WAVE-T (Transmitter)
Transmits data from measuring tools to U-WAVE-R

Look for this symbol for items in this flyer that are U-WAVE compatible

U-WAVE-R (Receiver)
Loads data received from U-WAVE-T to PC software via USB port

The U-WAVE system enables easy wireless data communication from a measuring tool to a PC using the Digimatic protocol. Measurement efficiency is improved by eliminating the long and cumbersome data cables. The user friendly interface allows data to be loaded into any software product that accepts keyboard input, such as Excel or Notepad.

U-WAVE-R

U-WAVE-R comes with set-up software, wall bracket and 1m cable. Connect up to 16 U-WAVE-R units to one PC.

+

U-WAVE-T

U-WAVE-T sends measurement data to **U-WAVE-R**. Select IP67 or buzzer model, according to your application. Connect up to 100 U-WAVE-T units.

+

U-WAVE Cable

A short cable (160mm) is used to connect a measuring tool to its **U-WAVE-T** unit. Select the appropriate cable from **A to G** below (7 types) to suit the measuring tool.

HOW TO ORDER U-WAVE:

1. One U-Wave-R (receiver) is required per system (supports up to 100 U-Wave-T units)
2. One U-Wave-T (transmitter) is required for each digimatic Mitutoyo tool
3. Select appropriate cable for each tool (this connects the measuring tool to the U-Wave-T)

Optional Accessory **MSLP** **SALE**

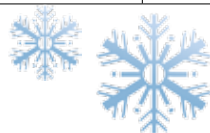
02AZE200 Bracket Kit \$30.00 \$27.00

U-WAVE Receiver & Transmitters

Order No.	Description	MSLP	SALE
02AZD810D	U-Wave-R	\$580	\$522.00
02AZD730D	U-Wave-T (IP67 type)	\$280	\$252.00
02AZD880D	U-Wave-T (Buzzer type)	\$280	\$252.00

U-WAVE Cables

Order No.	Applicable measuring instrument	MSLP	SALE
A 02AZD790A	Water-proof (caliper)	\$140	\$126.00
B 02AZD790B	Water-proof (micrometer)	\$140	\$126.00
C 02AZD790C	Digimatic caliper	\$140	\$126.00
D 02AZD790D	10 pin plain	\$140	\$126.00
E 02AZD790E	6 pin round	\$140	\$126.00
F 02AZD790F	Plain type straight	\$140	\$126.00
G 02AZD790G	Water-proof (Indicator)	\$140	\$126.00



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INDICATORS



DIAL TEST INDICATORS

- Basic Set
- One piece bezel and crystal design with O-ring



513-402



513-414E

Order No.	Range	Graduation	Dial	Remarks	MSLP	SALE
513-414E	0.5mm	0.01mm	0-25-0	<ul style="list-style-type: none"> • Anti-magnetic • Double scale spacing • Long contact point • Jeweled bearings 	\$154	\$138.⁶⁰
513-415E	1mm	0.01mm	0-50-0	<ul style="list-style-type: none"> • Anti-magnetic • Long contact point • Jeweled bearings 	\$170	\$153.⁰⁰
513-402	.03"	.0005"	0-15-0	<ul style="list-style-type: none"> • Anti-magnetic • Jeweled bearings 	\$119	\$107.¹⁰
513-403	.008"	.0001"	0-4-0		\$148	\$133.²⁰



DIAL TEST INDICATOR Order No. 513-302GT

- Range .03"
- Graduation .0005"
- Dial: 0-15-0
- Jeweled bearings
- Universal application to all directions
- Basic set

SALE \$485.¹⁰
MSLP \$539

PEAK HOLD INDICATOR Order No. 2046S-80



- Range 10mm
- Graduation 0.01mm
- ISO/JIS type (Stem ø8mm)
- Dial: 0-100

SALE \$140.⁴⁰
MSLP \$156

DIAL TEST INDICATOR Order No. 513-454T



- Full Set
- Range: 0.8mm
- Graduation: 0.01mm
- Dial: 0-40-0
- Anti-magnetic
- Jeweled bearings

SALE \$183.⁶⁰
MSLP \$204

ABSOLUTE DIGIMATIC INDICATOR ID-B Order No. 543-581

- Range: .22"/5.6mm
- Resolution: .0005"/0.01mm
- Slim body design
- LCD readout rotation function
- Back plunger design
- ISO/JIS type (Stem dia. 3/8")

SALE \$388.⁸⁰
MSLP \$432



U-WAVE Cable #02AZD790A
See page 5 for details



Optional Accessories	MSLP	SALE
21EAA194 SPC cable (40" / 1m)	\$51. ⁰⁰	\$45.⁹⁰
21EAA190 SPC cable (80" / 2m)	\$60. ⁰⁰	\$54.⁰⁰



2424S-19

2109S-10

- ANSI/AGD type
- Stem 3/8" dia.

DIAL INDICATORS

Order No.	2109S-10	2424S-19
Range	1mm	2"
Range/Rev	0.2mm	1"
Graduation	0.001mm	.001"
Dial	0-100-0	0-100
Remarks	<ul style="list-style-type: none"> • Shockproof • Jeweled bearings 	
MSLP	\$176	\$227
SALE	\$158.⁴⁰	\$204.³⁰

Indicator Points

Dial Test Indicators are available with different contact points.

Ball Diameter:

- 1mm is used when required for very small features
- 2mm is a good general purpose size for most applications
- 3mm is used when the surface is rough to dampen the reading

Length:

Standard and long length contact points are available. Only use a long contact point when required by a measured feature. A long contact point is easy to bump and may damage the dial test indicator. NOTE: Different length points are not interchangeable due to cosine error.



Contact Point Ball Material:

- Steel: General purpose
- Carbide: Use for extra wear resistance
- Ruby: Lighter weight, greater wear resistance

Mounting:

Dial Test Indicators are generally mounted using a stem that attaches or dovetails on the test indicator or on an arm with a dovetail swivel that may also have mounting holes for the stem. A large variety of attachments are available to enable the test indicator to be used in a multitude of attitudes. However the test indicator is mounted, it must be a rigid setup to ensure accurate and repeatable measurements.



LINEAR GAUGE LGS

Order No. 575-303

IP66



- Range: 12.7mm
- Resolution: 0.01mm
- Stem dia. 8mm
- Digimatic output
- Compact for tight spaces
- Display counter is required

SALE \$235.⁸⁰

MSLP \$262

Optional Accessories

- | | | |
|-----------------------------|---------------------|---------------------------|
| | MSLP | SALE |
| 936937 SPC cable (40" / 1m) | \$66. ⁸⁰ | \$60.¹² |
| 965014 SPC cable (80" / 2m) | \$95. ⁰⁰ | \$85.⁵⁰ |



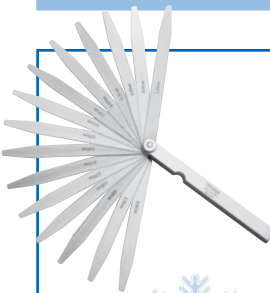
STEEL RULES



Order No.	Range	Graduations	Width	Remarks	MSLP	SALE
182-102	6" (16R)	1/32, 1/64, 1/50, 1/100ths	3/4"	Wide rigid type Thickness 3/64"	\$17	\$15.³⁰
182-219*	12" (16R)		1/2"	Full-Flexible Rule Thickness 1/64"	\$16	\$14.⁴⁰
182-242	18" (16R)		3/4"		\$49	\$44.¹⁰

*Black chrome finish

THICKNESS GAUGES



Order No. 184-304S

Range: 0.05-1mm
Blade length: 150mm
20 leaves

SALE \$50.⁴⁰

MSLP \$56

Order No. 184-307S

Range: 0.03-0.5mm
Blade length: 100mm
13 leaves

SALE \$34.²⁰

MSLP \$38



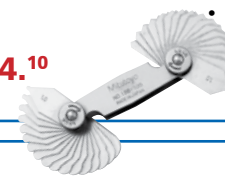
RADIUS GAUGE

Order No. 186-106

- Size 7.5-15mm
- Locking clamp

SALE \$44.¹⁰

MSLP \$49



EDGE FINDER

Order No. 050110

- Double edge finder
- Shank 1/2"
- Tip DIA. .20", .50"

SALE \$19.⁸⁰

MSLP \$22



HERMAPHRODITE CALIPER

Order No. 950-241

- Range: 4"/100mm

SALE \$19.⁸⁰

MSLP \$22

PITCH GAUGE

Order No. 188-122

- Metric Screw Pitch (60°), 21 leaves
- Range: 0.4-7mm

SALE \$32.⁴⁰

MSLP \$36



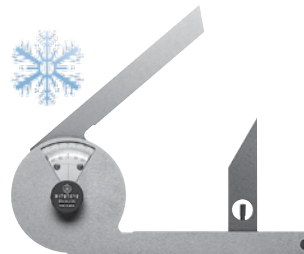
BEVEL PROTRACTOR

Order No. 187-201

- Graduation: 1°/5min
- Knob lock
- Protractor graduation: 0-90°, 90-0°

SALE \$166.⁵⁰

MSLP \$185



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INTERNAL MICROMETERS



HOLTEST - INDIVIDUAL GAUGE Order No. 368-280

- Range: 10-11"
- Ratchet stop
- TiN coated contact points
- Optional extension rods
- Graduation .0002"

SALE \$1,843.²⁰
MSLP \$2,048



HOLTEST - COMPLETE SET Order No. 368-911

- Range: 6-12mm
- Ratchet stop
- TiN coated contact points
- Includes complete gauges (micrometer head and measuring heads for each size), ø8mm, and 10mm setting rings
- Graduation 0.001mm

SALE \$2,007.⁰⁰
MSLP \$2,230



HOLTEST - COMPLETE SET Order No. 368-927

- Range: .120-.280"
- Ratchet stop
- Includes complete gauges (micrometer head and measuring heads for each size), .16" and .24" DIA. setting rings
- Graduation .0001"

SALE \$5,320.⁸⁰
MSLP \$5,912



U-WAVE Cable #02AZD790B
See page 5 for details



DIGIMATIC HOLTEST SET Order No. 468-976

- Range: .275-.5"/6.925-12.7mm
- Ratchet stop
- Includes one display unit with interchangeable measuring heads, .35" and .425" DIA. setting rings, extension rods
- TiN coated contact points
- Resolution .00005"/0.001mm

SALE \$1,951.²⁰ **IP65**
MSLP \$2,168

Optional Accessories

- 05CZA662** SPC cable (40" / 1m)
- 05CZA663** SPC cable (80" / 2m)

MSLP **SALE**
\$100.⁰⁰ **\$90.⁰⁰**
\$147.⁸⁰ **\$133.⁰²**



BORE GAUGE Without Indicator

- Indicator not included
- Carbide tipped contact points
- Optional extension rods

Order No. 511-731 **SALE \$261.⁹⁰**
Range: .7 - 1.4" MSLP \$291

Order No. 511-732 **SALE \$261.⁹⁰**
Range: 1.4 - 2.5" MSLP \$291

Order No. 511-703 **SALE \$228.⁶⁰**
Range: 50 - 150mm MSLP \$254



BORE GAUGE with Indicator Order No. 511-713

- Includes 2046SB dial indicator (Graduation 0.01mm)
- Range: 50-150mm
- Carbide tipped contact points
- Optional extension rods

SALE \$338.⁴⁰
MSLP \$376

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INTERNAL MICROMETERS



BOREMATIC - ABSOLUTE DIGIMATIC SNAP BORE GAUGE



- TiN coated contact points
- 330° rotatable display
- GO/NG judgment
- ABSOLUTE encoder always retains the origin setting for the entire battery life
- Can measure deep holes by attaching an optional extension rod
- SPC Data output



U-WAVE Cable #02AZD790E
See page 5 for details



Order No.	Range	Resolution	MSLP	SALE
568-338-10	30-40mm	0.001mm	\$1,630	\$1,467.⁰⁰
568-348-10	100-125mm		\$2,256	\$2,030.⁴⁰
568-431-10	.275 - .350" / 6.985 - 8.89mm		\$1,400	\$1,260.⁰⁰
568-433-10	.425 - .5" / 10.795 - 12.7mm		\$1,400	\$1,260.⁰⁰
568-434-10	.50 - .65" / 12.7 - 16.51mm		\$1,447	\$1,302.³⁰
568-435-10	.65 - .80" / 16.51 - 20.32mm	.00005" / 0.001mm	\$1,447	\$1,302.³⁰
568-437-10	1.0 - 1.2" / 25.4 - 30.48mm		\$1,493	\$1,343.⁷⁰
568-441-10	2.5 - 3.0" / 63.5 - 76.2mm		\$1,775	\$1,597.⁵⁰
568-442-10	3.0 - 3.5" / 76.2 - 88.9mm		\$1,859	\$1,673.¹⁰
568-444-10	4.0 - 4.5" / 101.6 - 114.3mm		\$1,935	\$1,741.⁵⁰
568-445-10	4.5 - 5.0" / 114.3 - 127mm		\$2,000	\$1,800.⁰⁰
568-446-10	2.0 - 3.0" / 50.8 - 76.2mm		\$2,063	\$1,856.⁷⁰

Optional Accessories

937387 SPC cable (40" / 1m)	MSLP \$60. ⁰⁰	SALE \$54.⁰⁰
965013 SPC cable (80" / 2m)	MSLP \$96. ⁰⁰	SALE \$86.⁴⁰

BOREMATIC SETS - ABSOLUTE DIGIMATIC SNAP BORE GAUGE

- Each set includes complete gauges (display units and measuring heads)
- SPC output
- Resolution .00005"/0.001mm



Order No. 568-988-10

- Range: .5" - 1" / 12.7 - 25.4mm
- Includes .65" and .8" DIA. setting rings

SALE \$4,657.⁵⁰
MSLP \$5,175



Order No. 568-989-10

- Range: 1" - 2" / 25.4-50.8mm
- Includes 1.2" and 1.6" DIA. setting rings

SALE \$4,753.⁸⁰
MSLP \$5,282



U-WAVE Cable #02AZD790E
See page 5 for details



U-WAVE Cable #02AZD790E
See page 5 for details

Optional Accessories

937387 SPC cable (40" / 1m)	MSLP \$60. ⁰⁰	SALE \$54.⁰⁰
965013 SPC cable (80" / 2m)	MSLP \$96. ⁰⁰	SALE \$86.⁴⁰

DIGITAL READOUTS



FEATURES: AT-715 Scale



- ABSOLUTE electromagnetic induction system to achieve IP67 environmental resistance
- 2 mounting directions of the scale main unit allows flexible mounting options
- Operation is not affected by electric noise

FEATURES: KA Counter

- High performance, low cost counter available in 2 or 3 axis
- Features both mill and lathe functions as well as standard functions
- Compatible with AT715 electromagnetic scales and AT100 series glass scales

All DRO Packages Include:

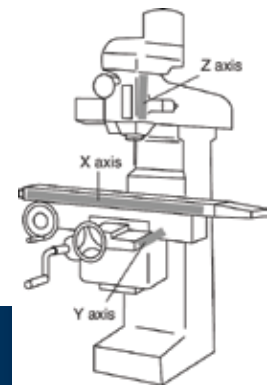
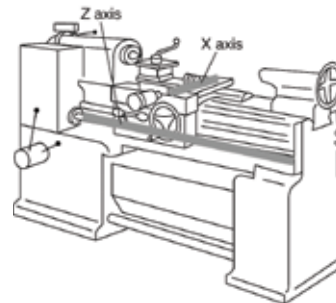
- 2-axis KA Counter
- KA Counter tray/arm kit
- AT715 ABSOLUTE Scales (2)
- Bracket kit
- Extension cable (for scales over 36")

DRO SYSTEMS FOR MILL APPLICATIONS

Size: 12" x 30"
Code No. D950-993
SALE \$1,269.00
 MSLP \$1,410
 (MSLP \$1,569 if purchased separately)

Size: 12" x 36"
Code No. D950-995
SALE \$1,305.00
 MSLP \$1,450
 (MSLP \$1,602 if purchased separately)

Size: 16" x 36"
Code No. D950-996
SALE \$1,305.00
 MSLP \$1,450
 (MSLP \$1,608 if purchased separately)



DRO SYSTEMS FOR LATHE APPLICATIONS

Size: 12" x 52"
Code No. D950-985
SALE \$1,633.50
 MSLP \$1,815
 (MSLP \$2,017 if purchased separately)

Size: 12" x 60"
Code No. D950-986
SALE \$1,689.30
 MSLP \$1,877
 (MSLP \$2,086 if purchased separately)

Size: 16" x 80"
Code No. D950-987
SALE \$2,025.00
 MSLP \$2,250
 (MSLP \$2,403 if purchased separately)

DRO System Components: Digital Readout Systems for machine tools have three basic component parts.

DRO Scales use several different methods to determine machine tool travel. Glass scales, electromagnetic induction, reflective, magnetic tape, rotary encoder and laser scale systems. Without respect to the type of reading scale used, DRO scales can be divided into two broad categories; incremental and absolute reading. The absolute reading scale is encoded so the display understands the absolute position of the reader head to the scale, even after the system has been turned off and then back on. Another important distinction between scales is whether or not the scales are water/coolant proof. DRO scales are generally available up to 120" but longer scales of up to 64 feet are manufactured.

DRO Displays interpret the information from the scales and provide the operator with a visual display of the machine tool travel. In addition, the travel information may also be routed to an external control or PC. The simplest display is a point-to-point counter. This type of counter can be zeroed or preset with a known value. The display then adds or subtracts machine tool displacement to the original zero or preset number. Multi-feature displays not only show machine tool travel but can guide the operator to the next machine tool position.

Mounting hardware is used to mount the scales to a machine tool. Common machine tools such as Bridgeport style mills normally have bracket kits that are designed for the machines. Other machine tools will normally have generic mounting bracket kits and will require the mounting brackets to be custom fitted at the time of installation.



Product excellence from a brand you can trust.



Model RA-10*

- Shop floor compact tester for high throughput with built-in processor
- SALE \$11,997.00**
MSLP \$13,330



Model RA-120P*

- Compact tester accommodates larger workpieces
- Roundpak software for added versatility



Model RA-1600*

- High accuracy, motor driven, programmable PC based system
- High accuracy column allows cylindrical analysis



RA-2200



Model RA-2200*

- PC based with automatic centering/leveling capability
- Large workpiece capacity



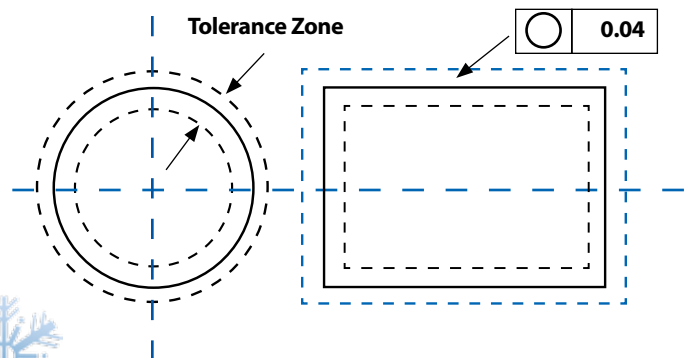
Helping you get "A-Round"



Would you use all-season tires if you were living up in the Arctic? Though all-season tires are very useful and flexible, using dedicated winter tires would probably be a better choice for those harsh winter conditions. This is the same idea with Roundness testers. Though other flexible gaging like Co-ordinate Measuring machines are very accurate and have great flexibility, A dedicated Roundness machine is probably a better fit if the roundness is critical for the parts functionality.

Mitutoyo Canada Inc. has a wide range of Roundness testers ranging in many sizes and are also available in both manual to CNC. The entry-level Roundness machine known as the RA-10 has a starting rotational accuracy specification of $(0.04+6H/10000)\mu\text{m}$, therefore is extremely accurate. These Roundness machines have some flexibility as they can also very accurately measure Flatness, Concentricity, Coaxiality and Runout to name a few.

If you require any-more information please contact Mitutoyo Canada @ 905-821-1261 or visit our Website at http://mitutoyo.ca/files/j_section%20us-1001.pdf



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- We offer true **high-speed, 5-Axis scanning**
- Mitutoyo CNC CMM **standard accuracy is $(1.7+3L/1000)\mu\text{m}$**
- Full complement of **Canadian service** and sales support
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