

Starrett®

PROMO 2014.5

PRECISION HAND TOOL PROMOTION



METROLOGY SOLUTIONS



124 INSIDE MICROMETERS

- Insulated rods marked with length
- Adjustable for length
- 6-1/2" (165mm) long handle is available
- Measuring rods are solid
- Graduations: .001"



124AZ

Cat. No.	EDP	Range	Screw Movement	Spacing Collars	Rods	Sale Price
With Case						
124AZ	50542	2-8"	1/2"	One 1/2"	6	233.70
124BZ	50546	2-12"	1/2"	One 1/2"	10	285.00
124CZ	50550	8-32"	1"	One 1"; Two 2"	4	517.75
124DZ	50554	2-32"	1/2" and 1" (2 heads)	Set 124A and 124C		735.30
124MAZ	56141	50-200mm	13mm	One 12mm	6	233.70
124MDZ	56144	50-800mm	13mm and 25mm (2 heads)	Comprised of set 124MA and 124MC		735.30

224 INTERCHANGEABLE ANVIL MICROMETERS

- Suitable wrenches are furnished to make necessary adjustments
- Combination ratchet and speeder for uniform pressure and quicker adjustment
- Quick and easy sleeve adjustment
- Advanced sleeve design with staggered lines and distinct figures for precise and easy readability



224AARLZ

Cat. No.	EDP	Range	Graduations	Standards (included)	Sale Price
224AARLZ	50770	0-4"	.001"	1", 2", 3"	413.25
224ARLZ	50772	2-6"	.001"	2", 3", 4", 5"	454.10
224BRLZ	50774	6-9"	.001"	6", 7, 8	602.30
224GRLZ	50776	6-12"	.001"	6, 7, 8, 9, 10, 11	898.70
224CRLZ	50778	9-12"	.001"	9", 10", 11"	682.10
224DRLZ	50780	12-16"	.001"	12", 13", 14", 15"	845.50
224ERLZ	50782	16-20"	.001"	16", 17", 18", 19"	1,049.75
224JRLZ	50784	20-24"	.001"	20", 21", 22", 23"	1,236.90
224MAARLZ	50771	0-100mm	0.01mm	25, 50, 75mm	462.65
224MARLZ	50773	50-150mm	0.01mm	50, 75, 100, 125mm	468.35
224MGRLZ	50777	150-300mm	0.01mm	150, 175, 200, 225, 250, 275mm	898.70
224MDRLZ	50781	300-400mm	0.01mm	300, 325, 350, 375mm	862.60



263 MICROMETER HEADS

- Furnished with 1/2" (12.7mm) diameter clamping surface
- No glare satin chrome finish
- Reading surfaces: satin-finish
- Graduations: .001" (0.01mm)
- Includes lock nut plain thimble ratchet and lock nut



263RL

Cat. No.	EDP	Range	Sale Price
263P	51251	0-1"	79.80
263P-38	67108	0-1"	79.80
263L	51253	0-1"	85.50
263RL	51254	0-1"	89.30
263MP*	51275	0-25mm	79.80
263MRL*	51257	0-25mm	89.30

* 0-25mm models specify clamping diameter 12 or 12.7mm sent unless otherwise ordered.

445 DEPTH MICROMETERS

- Depths of holes, slots, shoulders and projections can be measured to .001" (0.01mm)
- Furnished with choices of 3" (75mm), 4" (100mm), and 6" bases and have 5/32" (4mm) diameter measuring rods
- Combination ratchet and speeder for uniform pressure and quicker adjustment
- Ring-type lock nut for quick and sure locking



445AZ-3RL

Cat. No.	EDP	Range	Sale Price
445AZ-3RL	52208	0-3"	228.95
445AZ-6RL	52212	0-6"	275.50
445AZ-9RL	52216	0-9"	341.05
445AZ-12RL	67117	0-12"	458.85
445BZ-3RL	52220	0-3"	245.10
445BZ-6RL	52224	0-6"	288.80
445BZ-9RL	52228	0-9"	360.05
445BZ-12RL	67118	0-12"	476.90
445DZ-3RL	52244	0-3"	285.00
445DZ-6RL	52248	0-6"	326.80
445DZ-9RL	52252	0-9"	391.40
445DZ-12RL	67119	0-12"	517.75
445MAZ-225RL	52217	0-225mm	341.05
445MDZ-225RL	52253	0-225mm	391.40

444 OUTSIDE MICROMETERS

NEW!

- No-glare satin chrome finish which resists rust
- Advanced sleeve design with staggered lines and distinct figures for precise and easy readability
- Balanced frame and thimble design to ensure easy handling and better readability
- Insulated frame for prevention of temperature related expansion and contraction
- Provides quick and easy adjustment
- Reading in ten-thousandths of an inch (.0001") with a vernier scale on the sleeve



Cat. No.	EDP	Range	Graduations	Sale Price
T444.1XRL-1	52083	0-1"	.0001"	98.80
T444.1XRL-2	52084	1-2"	.0001"	115.90
T444.1XRL-3	52085	2-3"	.0001"	128.25
T444.1XRL-4	52086	3-4"	.0001"	148.20
T444.1XRL-5	52087	4-5"	.0001"	160.55
T444.1XRL-6	52088	5-6"	.0001"	178.60

486 BLADE TYPE MICROMETERS

- The blades are .030" (0.8mm) thick
- Blades will measure to 5/16" (8mm) depths
- Balanced frame and thimble design ensure easy handling and better readability
- Speeder for quicker adjustment on all sizes



486P-2

Cat. No.	EDP	Range	Sale Price
486P-1	52499	0-1"	374.30
486P-2	52501	1-2"	386.65
486P-3	52503	2-3"	396.15
486P-4	52505	3-4"	418.95
486P-5	52507	4-5"	434.15
486P-6	52509	5-6"	515.85
486P-7	67094	6-7"	678.30
486P-8	67095	7-8"	683.05
486P-9	67096	8-9"	696.35
486P-10	67097	9-10"	706.80
486P-11	67098	10-11"	711.55
486P-12	67099	11-12"	800.85



762 ELECTRONIC MICROMETER HEADS

- Starrett satin chrome finish – no glare – resists rust on all reading surfaces
- Extremely hard and stable one-piece spindle (the heart of our accuracy and long life)
- Micro-lapped measuring face for flatness and squareness
- Inch/millimeter conversion
- PRESET button to install any reading at any position
- Measurement HOLD button
- RS232 data output port



762XFL-2

Cat. No.	EDP	Range	Resolution	Accuracy	Sale Price
762XFL	65058	0-1"	0.0005"	±0.0001"	391.40
762NXRL	65060	0-1"	0.0005"	±0.0001"	967.10
762XFL-2	65062	0-2"	0.0005"	±0.0001"	594.70
762MEXFL-25	66077	0-1"	0.0005"	±0.0001"	391.40
762MEXFL-50	66137	0-2"	0.0005"	±0.0001"	594.70

795.1 IP67 ELECTRONIC OUTSIDE MICROMETERS WITH OUTPUT



- IP67 protection against coolants, water, chips, dust and dirt often found in machine shop environments
- Balanced frame for comfortable and accurate measuring
- Starrett No-glare satin chrome finish on thimble and sleeve minimizes annoying surface glare under bright lights indoors or filters out UV light
- Large, easy-to-read, high-contrast LCD digital readout
- Spindle lock
- Micro-lapped carbide measuring faces
- SPC output capability



795.1XFL-1

Cat. No.	EDP	Range	Resolution	Accuracy	Sale Price
795.1XFL-1	01100	0-1"	.00005"	±.0001"	229.90
795.1XFL-2	01101	1-2"	.00005"	±.0001"	263.15
795.1XRL-1	01108	0-1"	.00005"	±.0001"	229.90
795.1XRL-2	01109	1-2"	.00005"	±.0001"	263.15

796.1 IP67 ELECTRONIC OUTSIDE MICROMETERS



- IP67 protection against coolants, water, chips, dust and dirt often found in machine shop environments
- Balanced frame for comfortable and accurate measuring
- Starrett No-glare satin chrome finish on thimble and sleeve minimizes annoying surface glare under bright lights indoors or filters out UV light
- Large, easy-to-read, high-contrast LCD digital readout
- Spindle lock
- Micro-lapped carbide measuring faces



796XFL-2

Cat. No.	EDP	Range	Resolution	Accuracy	Sale Price
796.1XFL-1	01104	0-1"	.00005"	±.0001"	170.05
796.1XFL-2	01105	1-2"	.00005"	±.0001"	227.05
796.1XRL-1	01116	0-1"	.00005"	±.0001"	170.05
796.1XRL-2	01117	1-2"	.00005"	±.0001"	227.05

3732 ELECTRONIC MICROMETERS

- Balanced frame design for comfortable and accurate measuring
- Large, easy-to-read, high-contrast LCD digital readout
- No-glare black wrinkle finish on frame
- Hard and stable one-piece friction thimble permits one-hand operation of micrometer and uniform contact pressure



3732XFL-1

Cat. No.	EDP	Range	Resolution	Accuracy	Sale Price
3732XFL-1	12268	0-1"	0.00005"	± 0.0001"	125.40
3732XFL-2	12269	1-2"	0.00005"	± 0.0001"	170.05
3732XFL-3	12270	2-3"	0.00005"	± 0.0001"	216.60
3732XFL-4	12271	3-4"	0.00005"	± 0.00015"	241.30

125 VERNIER CALIPERS

- High quality, basic vernier caliper that offers inch and metric measurement
- Lock screw for sliding jaw
- Hardened stainless steel depth rod
- Sharp, black graduations on the satin finished bar



125MEA-6/150

Cat. No.	EDP	Range		Sale Price
		in	mm	
125MEA-6/150	61660	0-6	0-150	95.00
125MEA-8/200	61882	0-8	0-200	111.15
125MEA-12/300	61886	0-12	0-300	200.45

798 ELECTRONIC CALIPERS



- IP67 level of protection against coolant, dirt and dust
- Fine adjustment
- Hardened stainless steel measuring surfaces
- Large, easy-to-read, high contrast LCD digital readout



798A-6/150

Cat. No.	EDP	Range	Resolution	Sale Price
798A-6/150	20798	6"	.0005"	189.05
798A-8/200	20799	8"	.0005"	240.35
798A-12/300	20800	12"	.0005"	358.15
798B-6/150	12521	6"	.0005"	227.05
798B-8/200	12523	8"	.0005"	274.55
798B-12/300	12525	12"	.0005"	408.50
798BX-6/150	12782	0-6"	.0005"	319.20

799 ELECTRONIC CALIPERS

- Lightweight, ergonomic design
- Last measuring position retained when shut off
- Large, easy-to-read, high-contrast LCD digital readout
- Inch/millimeter conversion reads .0005" or 0.01mm



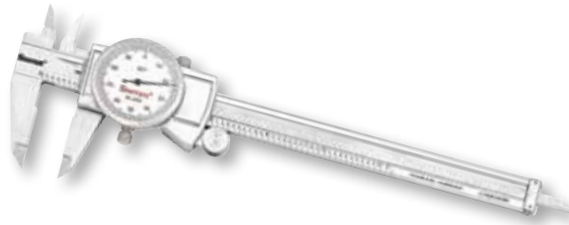
799A-6/150

Cat. No.	EDP	Range	Resolution	Sale Price
799A-6/150	67410	0-6"	.0005"	143.45
799A-8/200	67412	0-8"	.0005"	203.30
799A-12/300	67621	0-12"	.0005"	303.05

3202 SLIDE CALIPERS

NEW!

- Provides quick, accurate measurement of O.D. and depth
- Sharp, clear dial graduations
- Sharp, black graduations on satin finished bar
- Hardened stainless steel
- Lock screws for sliding jaw and dial bezel



3202-6

Cat. No.	EDP	Range	Graduation	Sale Price
3202-6	61467	0-6"	.001"	95.95
3202-8	61468	0-8"	.001"	135.85
3202-12	61466	0-12"	.001"	197.60



3752 ELECTRONIC HEIGHT GAGE

- Clear bar graduations in .100" and 5mm increments
- Large .380" (9.65mm) easy-to-read LCD display - reads to .0005" or 0.01mm
- Instant inch/millimeter conversion
- Carrier and scriber designed to read from zero



3752-12/300

Cat. No.	EDP	Range	Resolution	Sale Price
3752-12/300	68815	0-12"	.0005"	760.00
3752-24/600	68816	0-24"	.0005"	1,246.40

3753 ELECTRONIC DEPTH GAGE

- Clear, easy-read numbers, properly sized for the tool
- Hardened stainless steel body and slide for long life
- Fine adjustment thumb roll for precision measurements
- Lock to hold the slide in position



3753A-8/200

Cat. No.	EDP	Range	Resolution	Accuracy	Sale Price
3753A-6/150	12258	0-6"	.0005"	±.001"	260.30
3753A-8/200	12259	0-8"	.0005"	±.001"	270.75
3753A-12/300	12260	0-12"	.0005"	±.001"	328.70

81 DIAL INDICATORS

- Shockless, hardened steel gear train and jewel bearings
- Furnished with a lug-on-center back
- Anti-magnetic and special non-shock mechanisms are options available for all models
- Double row figure dials
- Graduations: .001"



81-111J

Cat. No.	EDP	Dial Reading	Range	Sale Price
81-111J	53378	0-5-0	.025"	224.20
81-211J	53414	0-10	.025"	224.20
81-136J	53392	0-15-0	.075"	152.95
81-131J	53388	0-25-0	.125"	136.80
81-231J	53420	0-50	.125"	136.80
81-145J	53410	0-25-0	.125"	136.80
81-141J	53400	0-50-0	.250"	136.80
81-241J	53428	0-100	.250"	136.80

647 DIAL COMPARATOR

- Effective non-shock mechanism
- Pinions and shafts of the movement are jeweled
- After removal of the safety cap the adjustment screw on top of the case allows simple and safe zero setting of the instrument over the total measuring
- A safety cap prevents unintentional turning of the fine adjustment screws



647

Cat. No.	EDP	Range	Graduation	Reading	Sale Price
647	00001	.004"	.00005"	20-0-20	211.85
647M	00002	0.1mm	0.001mm	50-0-50	211.85

196 UNIVERSAL BACK PLUNGER DIAL INDICATORS

- One of the most versatile indicators available
- Accurate and reliable
- Simple to operate
- Range: .200" (5mm)
- Graduations: .001" (0.02mm)



196A1Z

Cat. No.	EDP	Reading	Sale Price
196A1Z	50697	0-100	223.25
196B1	50699	0-100	128.25
196A6Z	50701	0-100	260.30
196B6	50702	0-100	167.20
196A5Z	50714	0-50-0	223.25
196B5	50717	0-50-0	130.15
196MA1Z	65251	0-100 Yellow dial face	230.85
196MB1	65252	0-100 Yellow dial face	149.15

1010 DIAL INDICATOR POCKET GAGES

- Throat depth ranges from 1/2" (12.7mm) down to 5/16" (8mm)
- Models are available with flat or rounded contacts as listed
- The diameter of both the flat or round contacts are 1/4" (6.3mm)
- Gage has a small count hand for recording each revolution of large hand
- Chrome plated case, unbreakable crystal dial cover



1010Z

Cat. No.	EDP	Range	Graduation	Contacts	Sale Price
1010Z	53114	.375"	.001"	Flat	289.75
1010EZ	53115	.375"	.0005"	Flat	306.85
1010MZ	53116	9mm	0.01mm	Flat	319.20

2900 ELECTRONIC INDICATORS

NEW!

- True Absolute Sensor Technology - remembers position and zero set point even during battery replacement. Cannot be "over-spun" into failure.
- Intuitive design and layout - easy to learn and use
- Positive, tactile-feel button activation
- IP67 protection against dirt, dust, water and coolant to withstand hostile shop environments



2900-1

3808, 3809, 3908 AND 3909 DIAL TEST INDICATORS

NEW!

- Three dovetail positioning mounts work with most existing test indicator accessories
- Precision gear-driven design with smooth, jeweled movement
- Contact point reverses automatically, always maintaining clockwise hand rotation
- Contacts are frictionally adjustable and replaceable



3808A

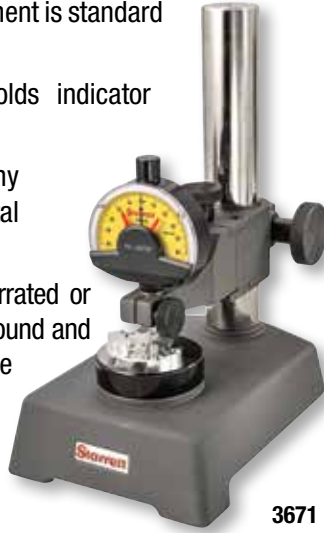
Cat. No.	EDP	Range	Graduation	Reading	Sale Price
3808A	12331	.008"	.0001"	0-4-0	135.85
3808AC	12303	.008"	.0001"	0-4-0	188.10
3809A	12333	.030"	.0005"	0-15-0	88.35
3809AC	12305	.030"	.0005"	0-15-0	129.20
3908A	12488	.008"	.0001"	0-4-0	145.35
3908AC	12636	.008"	.0001"	0-4-0	197.60
3909A	12527	.030"	.0005"	0-15-0	97.85
3909AC	12669	.030"	.0005"	0-15-0	138.70



3670 DIAL INDICATOR STANDS

NEW!

- Designed for comparison measurements using a dial indicator or digital Indicator
- Vertical fine adjustment is standard on all models
- Rugged bracket holds indicator firmly in place
- Can be used with any AGD dial or digital indicator
- Furnished with a serrated or flat anvil which is ground and lapped and removable



3671

Cat. No.	EDP	Description	Sale Price
3671	69901	Indicator stand with round flat anvil	484.50
3672	69902	Indicator stand with round serrated anvil	484.50

657AA MAGNETIC BASE

- For use with all Starrett Test, Back-Plunger, AGD, Dial and Miniature Dial Indicators
- Accommodates similar indicators of other manufacturers
- Includes magnetic base with attachments: upright base post, two snugs, rod and indicator attachment



Cat. No.	EDP	Sale Price
657AA	52743	171.95

657D MAGNETIC BASE

- Designed to hold lug and center back indicators
- Three precision ground magnetic contact surfaces (plus V-step)
- Powerful, permanent magnetic base hold firmly to steel or iron surfaces - horizontally, vertically, upside-down
- The swivel post assembly on these holders provides universal adjustment in both horizontal and vertical planes
- Includes magnetic base with attachments: swivel post snug and gage holding rod



Cat. No.	EDP	Sale Price
657D	52749	202.35

657T AND 657TW MAGNETIC BASE

- For use with all Starrett Test, AGD, Dial and Miniature Dial Indicators
- Accommodates similar indicators of other manufacturers
- Includes Flex-O-Post assembly
- Flexible post can be adjusted to any position and locked by turning a lever



657T

Cat. No.	EDP	Sale Price
657T	52760	241.30
657TW	52761	285.00



84A DIAL BORE GAGES

NEW!

- Can be easily held to inspect bores and hole sizes without removing the workpiece
- Adjustable range screw and two centralizing plungers provide accurate, three-point contact for alignment in larger bores
- All contacts and centralized plungers are of hardened tool steel for wear and spring-loaded for sensitivity
- The housing and knurled handle are aluminum for light weight and good balance
- Furnished in finished wood case



84AZ-111-5J

Cat. No.	EDP	Range	Max. Bore Depth	Sale Price
84AZ-111-4J	00026	1-1/2"-3"	3"	998.45
84AZ-111-5J	00027	3-5-1/16"	6"	985.15
84AZ-134-5J	00031	3-5-1/16"	6"	948.10
84AZ-111-6J	00028	5-8"	6"	1,094.40
84AZ-134-6J	00032	5-8"	6"	996.55
84AZ-111-7J	00029	8-12-1/2"	7"	1,251.15
84MAZ-161-4J	00034	3.175-76.2mm	75mm	1,040.25
84MAZ-181-4J	00038	3.175-76.2mm	75mm	1,019.35
84MAZ-161-5J	00035	76.2-128.58mm	150mm	993.70

780 ELECTRONIC BORE GAGES



- Wide measurement range without changing anvils
- Carbide measuring faces on sizes 1/2" (12.5mm) diameter
- Extension available for deep holes
- Precision ratchet stop provides correct contact pressure for accurate readings
- Resolution: .00005" (0.001mm)
- Large high-contrast LCD digital readout is easy to read and reduces error



780XTZ-200

Cat. No.	EDP	Range	Accuracy	Sale Price
780XTZ-200	12019	.160-.200"	±.00015"	2,601.10
780XTZ-250	12020	.200"-.250"	±.00015"	2,601.10
780XTZ-312	12021	1/4"-5/16"	±.00015"	1,794.55
780XTZ-375	12022	5/16"-3/8"	±.00015"	1,801.20
780XTZ-500	12024	3/8"-1/2"	±.00015"	1,775.55
780XTZ-625	12025	1-2"-5/8"	±.00015"	1,795.50
780XTZ-750	12026	5/8"-3/4"	±.00015"	1,841.10
780XTZ-1	12027	3/4"-1"	±.00015"	2,155.55
780XTZ-138	12028	1-1-3/8"	±.00015"	2,546.00
780XTZ-2	12029	1-3/8"-2"	±.00015"	2,515.60
780XTZ-258	12030	2-2-5/8"	±.00020"	2,869.00
780XTZ-314	12032	2-5/8"-3-1/4"	±.00020"	2,795.85
780XTZ-4	12033	3-1/4"-4"	±.00020"	3,108.40
780XTZ-5	12034	4"-5"	±.00025"	3,237.60
780XTZ-6	12035	5"-6"	±.00025"	3,344.00
780XTZ-9	12038	8"-9"	±.00030"	4,706.30
780XTZ-10	12039	9"-10"	±.00030"	5,186.05
S780XTCZ	12044	1/4"-3/8"	±.00015"	2,487.10
S780XTDZ	12045	3/8"-3/4"	±.00015"	3,005.80
S780XTEZ	12046	3/4"-2"	±.00015"	3,938.70
S780XTFZ	12047	2"-4"	±.00020"	4,500.15
S780XTKZ	12049	4"-6"	±.00025"	3,868.40

3089 DIAL BORE GAGES

- All anvils laser marked for easy selection
- Gage chart for quick and easy anvil selection
- Includes sturdy aluminum case with cut outs for gage and all accessories
- Ergonomic design with non-slip insulating grip
- Resolution: .0005"



3089Z-131-715J

Cat. No.	EDP	Range	Sale Price
3089Z-131-715J	12456	0.7"-1.5"	216.60
3089Z-131-1424J	12457	1.4"-2.4"	216.60
3089Z-131-26J	12458	2"-6"	241.30

829 SMALL HOLE GAGES

- Hardened-ball measuring surface with two-point contact
- Smooth, sensitive adjustment for better feel, giving more accurate measurements
- The adjustment of the gage beyond their range is restricted by a safety stop that prevents breakage



S829EZ

Cat. No.	EDP	Sale Price
S829EZ	53074	150.10
S830FZ	53081	199.50
S831EZ	53087	152.00

L3 SYSTEMS

Starrett L3 systems represent a new and easier solution for creating a test; performing a test; analyzing your test results; and managing test data.

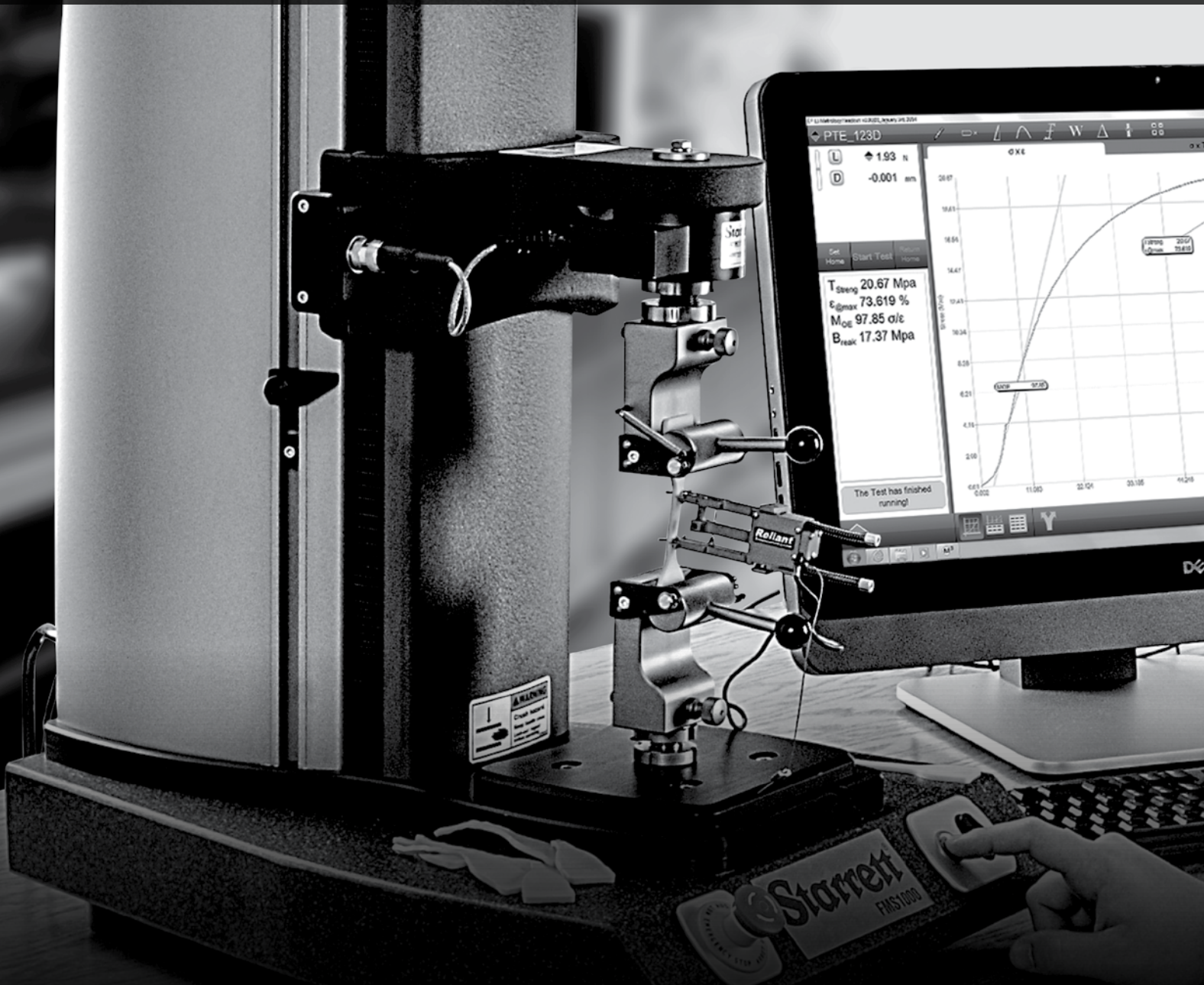
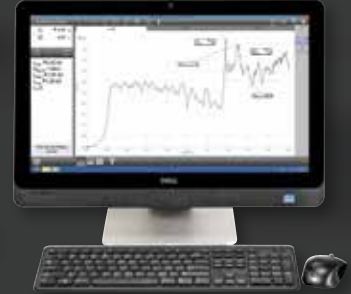
L3 Systems meet the requirements of today's research scientist, design engineer, quality manager or technician responsible for material characterization, verification and validation.



L2 PLUS SYSTEMS

Designed for advanced force measurement and analysis, L2 Plus systems are optimized for quality and engineering personnel. Test setup is intuitive, efficient and non-compromising.

Like our L3 systems, L2 Plus measurements and analysis are performed graphically. Create high resolution graphs based on load, distance, height and time. Then measure any point or segment on your graph using a set of analysis tools.



**FORCE MEASUREMENT +
MATERIAL TESTING**

L2 SYSTEMS

L2 systems operate using a Windows®-based table PC, load, distance and time-based results are displayed in a large format for easy interpretation. Graphical representation of each test can be displayed. Data tables display results with tolerance and statistical calculations. Standard reports are included, or export data for use with other applications.



S2 SYSTEMS

S2 systems are ideal for high-volume production testing, quality control including incoming inspection verification and validation, and research and design engineering. Our simple, fill-in-the-blank test setups let you test and validate your springs in as few as three steps allowing your testing to be performed in seconds.



WATCH OUR INFORMATIONAL VIDEOS TO LEARN MORE ABOUT OUR FORCE AND MATERIAL TESTING SOFTWARE!

Turnkey system solutions for material testing, force analysis and force measurement. Our systems distinguish themselves from the competition by making it easy to create and perform a test, and manage test results. We offer a full range of test frames, software, load cell sensors, test fixtures and more.

DATASURE® WIRELESS DATA COLLECTION

DataSure Facts

- DataSure Wireless Data Collection consists of three primary components:
- Miniature radios (End Nodes) attached to the data output port of an electronic tool
- A Gateway that connects to a PC
- Routers to extend the system's range and make the network more robust

A Comprehensive, Robust Solution

- Works in almost any environment
- Maintains data integrity in electronically noisy shops
- Data receipt confirmation signal
- DataSure stores several readings
- DataSure adapts to all major electronic measuring tools
- "IT" friendly and easily installs on a standard PC

Cat. No.	EDP	Description	Sale Price
1500-1-UN	12051	Gateway, USB, 917MHz	449.00
1500-2-N	12059	Router, 916MHz, 120/240 VAC	799.00
1500-3A-1N	12530	End Node, Starrett Opto	299.00
1500-3A-2N	12531	End Node, Starrett IP67 Micrometer	299.00
1500-3A-3N	12532	End Node, Starrett 3rd Gen.	299.00
1500-3A-4N	12533	End Node, Starrett 2700 Indicators	299.00
1500-3A-5N	12534	End Node, Starrett Cat. No. 2000	299.00
1500-3A-6N	12535	End Node, Mitutoyo 6-Pin	399.00
1500-3A-7N	12536	End Node, Mitutoyo without absolute encoder	399.00
1500-3A-8N	12537	End Node, RS232, Jumpered Port Pins	399.00
1500-3A-9N	12538	End Node, Mitutoyo IP66 Micrometer	399.00
1500-3A-10N	12539	End Node, Mitutoyo IP65 Micrometer	399.00
1500-3A-11N	12540	End Node, Marposs E4N	399.00
1500-3A-12N	12541	End Node, Universal 10-pin connector	399.00
1500-3A-13N	12542	End Node, Absolute Digimatic Indicator	399.00
1500-3A-14N	12543	End Node, Mahr-Federal with µMaxum and XL	399.00
1500-3A-15N	12544	End Node, Opto/Duplex	399.00
1500-3A-16N	12545	End Node, Mahr-Federal EX	399.00
1500-3A-18N	12565	End Node, Starrett 798 Calipers	299.00
1500-3A-21N	00046	End Node, Starrett 2900 Indicator	299.00



SR100 SURFACE ROUGHNESS TESTER

- Measures basic Ra, Rz and advanced Rp,Rv and Rt parameters
- Switches between inch and metric mode without remeasuring
- Automatic shut-off after five minutes of inactivity
- Uses CR2450 batteries
- Two-piece assembly, calibration standard, batteries, operation guide and a carrying case
- Infra-red (IrDA) link provides remote, cable free operation up to a distance of 40"



Cat. No.	EDP	Sale Price
SR100	20950	1,550.40

SR300 AND SR400 SURFACE ROUGHNESS TESTER

NEW!

- Large screen display
- Unique stylus lift mechanism for total flexibility
- Many application specific parameter options
- Comprehensive selection optional accessories and pickups
- Long traverse length and extended pickup reach
- Stores of up to 100 readings



Cat. No.	EDP	Sale Price
SR300	21000	2,845.25
SR400	21001	3,610.00

SR300

3810A DIGITAL PORTABLE HARDNESS TESTER

NEW!

- Combines fast test speeds coupled with ample memory and output
- Performs tests that easily convert to most popular hardness scales such as Rockwell, Brinell, Vickers and Shore
- Designed to test the hardness of large, hard metal parts
- USB output
- Automatic conversions to Rockwell Brinell, Vicker and Shore
- Automatic mean value as well as Min and Max values



Cat. No.	EDP	Sale Price
3810A	69871	2,040.60

3811A COMPACT HARDNESS TESTER

- Combines fast test speeds coupled with ample memory and output
- Performs tests that easily convert to most popular hardness scales such as Rockwell, Brinell, Vickers and Shore
- Designed to test the hardness of large, hard metal parts
- USB output
- Automatic conversions to Rockwell Brinell, Vicker and Shore
- Automatic mean value as well as Min and Max values



Cat. No.	EDP	Sale Price
3811A	69881	1,722.35

3812 ULTRASONIC THICKNESS GAGE

- Menu-driven, multi-functional tester with basic measurement capabilities
- Measures the thickness of metallic and non-metallic materials such as aluminum, titanium, plastics, ceramics and glass
- Accurately display readings in inch or millimeter
- Ideal for measuring a wall thickness that would be difficult to gage with conventional hand tools



Cat. No.	EDP	Sale Price
3812	67668	1,083.95

3814 ANALOG BENCH HARDNESS TESTER

- Ability to handle Rockwell Scales A through H and K
- Stable cast iron construction
- Ideal basic hardness testing for many typical applications



Cat. No.	EDP	Sale Price
3814	67754	2,576.40



STEEL RULES WITH INCH GRADUATIONS

- Full-flexible
- Semi-flexible
- Spring-tempered
- Heavy spring-tempered



C305R-6

Cat. No.	EDP	Length	Sale Price
C305R-6	51347	6"	21.85
C305R-12	51348	12"	44.18
C604R-2	56465	6"	17.58
C604R-3	56466	3"	18.05
C604R-4	56467	4"	19.95
C604R-6	52678	6"	21.85
C604R-12	52679	12"	36.58
C604R-18	52680	18"	70.30
C604R-24	52681	24"	91.20
C604R-36	52682	36"	168.15
C604R-48	52683	48"	221.35

493 PROTRACTOR AND DEPTH GAGE

- Angular measurement is from 0-180° in opposite directions allowing the direct reading of angles and supplementary angles
- Depths are measured from a 6" (150mm) blade
- Both tools have a flat surface on the back of the head permitting laying the tool flat on paper or work
- No-glare satin chrome finish



C493

Cat. No.	EDP	Blade Graduations	Sale Price
C493	52532	32nds, 64ths	73.15
C493B	52534	32nds, 64ths	74.10

167 RADIUS GAGE

- Made of satin finish stainless steel - rust and stain resistant
- Each gage is clearly marked with its radius
- Each gage has five different gaging surfaces for both convex and concave radii
- All gages have precision finished radii with extra smooth, accurate edges



S167CZ

Cat. No.	EDP	Range	Gages	Sale Price
S167CZ	50618	1-32"-17/64"; 9/32"-1/2"	24	133.95
S167CHZ	50619	1/64"-17/64"; 9/32"-1/2"	25	163.40
S167DZ	50620	1/32"-1/2"	16	95.00
S167MCZ	55820	1-7mm; 8-15mm	21	138.70
S167MCHZ	55821	0.5-7mm; 8-15mm	22	167.20
SD167GZ	63433	.010-.025mm; .030-.100mm	26	190.00
SD167GHZ	63463	.120-.300mm; .350-.500mm	26	207.10

245 ENGINEERS' COMBINATION TAPER, WIRE AND THICKNESS GAGE

- Compact steel case
- Locking device to lock any leaf or leaves in position
- English Standard wire gage, sizes numbered from 19-36 (.042- .004"), plus two additional sizes, 1/16" and 1/8".
- The reverse side has decimal equivalents in thousandths
- Has eleven thickness or feeler leaves

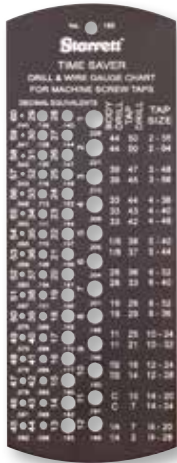


245

Cat. No.	EDP	Description	Sale Price
245	51170	With taper gage, English standard wire gage and 9" reading thickness gage leaves	145.35
245M	51171	With taper gage, English standard wire gage and 11mm reading thickness gage leaves	168.15

185 TIME SAVER® TAP AND DRILL GAGE

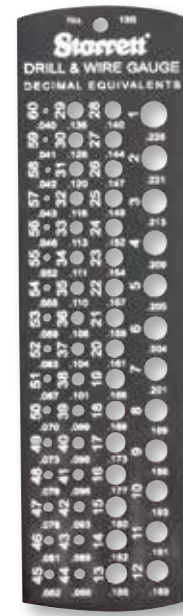
- Correct sizing of tap drill for any common size machine screw in "NF" National Fine or "NC" National Coarse Thread series
- Leaves the right amount of stock for approximately 65% full thread
- Shows correct drill body size
- 60 holes with number sizes and decimal equivalents
- Hardened tool steel construction



Cat. No.	EDP	Sale Price
185	50675	63.65

186 DRILL AND STEEL WIRE GAGE

- Widely used by mechanics for twist drills and drill rod
- Similar to the 185, without the tap and drill information
- 60 holes from 1 to 60
- Marked with number sizes and decimal equivalents
- Hardened tool steel construction



Cat. No.	EDP	Sale Price
186	50676	60.80

187 JOBBERS' DRILL GAGE

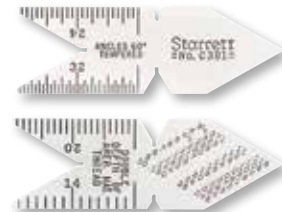
- Quick sizing of any twist drill from 1/16-1/2" by 64ths
- 29 holes marked with drill size inches and decimal equivalents
- Rigidly tested after hardening
- Black matte finish with gage information steel stamped on one side and white marked on reverse side for quick, clear reading
- Hardened tool steel construction



Cat. No.	EDP	Sale Price
187	50677	59.85

C391 CENTER GAGE

- Extremely handy for use in grinding and setting screw cutting tools
- Meet American National or U.S. 60°, Whitworth or English 55°, and Metric 60° standards
- Very useful for finding number of threads per inch through graduations in 14ths, 20ths, and 32nds of an inch
- Table of double depths of threads determining size of tap drills
- Made of spring-tempered steel with satin chrome finish
- Ground gaging surfaces



Cat. No.	EDP	Description	Sale Price
C391	51475	American Unified National Standard, 60°	21.85

666 THICKNESS GAGE "FEELER STOCK" IN ROLLS

- Housed in convenient, rewindable dispenser rolls
- Handy 25' and 7.6m rolls 1/2" and 12.7mm wide
- In a compact, sturdy plastic rewindable dispenser case. This case handles stock up to .015" and 0.35mm only.
- Roll stock in thickness of .016" or 0.40mm and over is furnished in 20' or 6m (non-dispensable) rolls in cardboard box



666-1

Cat. No.	EDP	Thickness	Sale Price
666-1/2	64210	.0005"	222.30
666-1	52796	.001"	94.05
666-1 1/2	52797	.0015"	47.50
666-2	52798	.002"	47.50
666-3	52800	.003"	50.35
666-4	52801	.004"	35.15
666-5	52802	.005"	35.15
666-6	52803	.006"	35.15
666-10	52807	.010"	31.83
666-15	52812	.015"	31.83
666M-3	52823	0.03mm	106.40
666M-5	52825	0.05mm	56.05
666M-10	52828	0.10mm	42.28



472 SCREW PITCH GAGE

- Consists of a substantial steel case with a number of folding leaves at both ends, each leaf having teeth corresponding to a definite pitch, marked on each leaf
- Features a locking device at both ends of the case, so leaves can be securely locked in position for use
- Leaves have a special narrow design, permitting checking internal threads in nuts, etc., as well as external threads



Cat. No.	EDP	Description	Sale Price
472	52484	With locking device and 11-1/2 and 27 pipe thread pitches	72.20

473 SCREW PITCH GAGE

- Consists of a substantial steel case with a number of folding leaves at both ends, each leaf having teeth corresponding to a definite pitch, marked on each leaf
- Features a positive stop design at both ends of the case in position for use
- Leaves have a special narrow design, permitting checking internal threads in nuts, etc., as well as external threads



Cat. No.	EDP	Description	Sale Price
473	52485	With positive stop and 11-1/2 and 27 pipe thread pitches	42.28

474 SCREW PITCH GAGE

- Consists of a substantial steel case with a number of folding leaves at both ends, each leaf having teeth corresponding to a definite pitch, marked on each leaf
- Features a locking device at both ends of the case, so leaves can be securely locked in position for use
- Leaves have a special narrow design, permitting checking internal threads in nuts, etc., as well as external threads



Cat. No.	EDP	Description	Sale Price
474	52486	With locking device and 11-1/2 and 27 pipe thread pitches	38.48

476 SCREW PITCH GAGE

- Consists of a substantial steel case with a number of folding leaves at both ends, each leaf having teeth corresponding to a definite pitch, marked on each leaf
- Features a positive stop design at both ends of the case in position for use
- Leaves have a special narrow design, permitting checking internal threads in nuts, etc., as well as external threads



Cat. No.	EDP	Description	Sale Price
476	52488	With positive stop	45.13



117 CENTER PUNCHES WITH ROUND SHANKS

- Hardened and properly tempered
- Well proportioned
- Knurled finger grip
- Ground at the proper angle
- Accurately centered tips
- 90° included angle



Cat. No.	EDP	Description	Sale Price
S117PC	50488	Set of 5 - 117AA, A, B, C, D in plastic case	35.15

264 CENTER PUNCHES WITH SQUARE SHANKS

- Hardened and properly tempered
- Square knurled grip
- Will not roll
- Accurately centered tips
- Ground at the proper angle



Cat. No.	EDP	Description	Sale Price
S264WB	51285	Set of 7 - 264A, B, C, D, E, F, G in round red plastic box	70.30

565 DRIVE PIN PUNCHES

- Hardened and tempered steel
- Knurled grip



S565WB

Cat. No.	EDP	Description	Sale Price
S565WB	52586	Set of 8 punches (1 of each size) in round red plastic box	53.20
S565PC	52587	Set of 8 punches (1 of each size) in protective vinyl case	47.03

248 DRIVE PIN PUNCHES FOR MACHINE SHOP AND MOTOR SERVICE WORK

- Extra-long drive pin punches, measuring 8" (200mm). The bodies are 4-1/2" (115mm) and the drive pin sections are 3-1/2" (90mm) long.
- Well-proportioned, hardened, properly tempered with a knurled grip
- Designed to withstand hard use
- Provide a most satisfactory punch for machine shop and motor service work
- Diameter of punches is slightly less than listed



S248PC

Cat. No.	EDP	Description	Sale Price
S248PC	51186	Set of 5 punches (1 of each size) in Protective vinyl case	42.75
S248	51187	Set of 5 punches (1 of each size) in plain box	36.58

B565 BRASS DRIVE PIN PUNCHES

- Ideal for softer materials
- Solid brass prevents damaging delicate work
- Knurled grip



Cat. No.	EDP	Description	Sale Price
SB565Z	12473	Set of 8 punches (1 of each size) in fabric pouch	49.40



698 AND 699 INSPECTION VIDEO BORESCOPE

- Robust design and construction
- Camera has a tempered glass lens and durable, corrosion resistant stainless steel body
- Flexible, water resistant conduit with high quality metal tip
- Bright LED illumination
- Camera IP67 and body IP65 protection against water, dirt and dust



NEW!

IP65

IP67

699-10

Cat. No.	EDP	Focal Distance	Resolution	Conduit Length	Probe Diameter	Sale Price
699-5.5	62811	.79"~2.76"	720 x 480 (D1)	39.4" (1m); Flexible	5.5mm	586.15
699-10	62812	1.18"~2.36"	640 x 480 (VGA)	39.4" (1m); Gooseneck	10mm	488.30

827 EDGE FINDER

- Single End
- Work surfaces may be located easily, quickly and accurately with these edge finders
- Flats, straight edges, shoulders, grooves, round work, studs, dowels, center points and scribed lines - all can be accurately located with this tool
- Body and contacts are made of tool steel, hardened, ground and lapped to close tolerances for diameter and concentricity
- Furnished in attractive, protective case



Cat. No.	EDP	Description	Body Diameter	Contact Diameter	Sale Price
827A	53062	Single end	.375"	.200"	23.28

828 WIGGLER OR CENTER FINDER WITH ATTACHMENTS

- Working centers can be quickly and accurately located
- Spring tension on the ball of the point permits guiding point to concentricity
- Ball Contact 828B is useful in locating work by first bringing the contact (ball diameter .250" or 6.35mm) against the work
- Disc Contact .100" (2.54mm) diameter, permits use in more confined areas such as slots or shallow holes
- Offset Indicator Holder can be used with Starrett Test Indicators



Cat. No.	EDP	Description	Sale Price
S828HZ	53064	Wiggler/center finder with case and 4 attachments - 828B, C, D, PT09186	54.15

98 MACHINISTS' LEVELS WITH GROUND AND GRADUATED VIALS

- These levels have ground and graduated main vials
- The base of the levels features an involute groove running the length of the base, which provides a reliable seat for round work
- These vials are adjustable to a positive setting and are housed in a satin finished brass tube with a friction-fit closing cover to prevent breakage

Cat. No.	EDP	Size		Sale Price
		in	mm	
98-4	50440	4	100	98.80
98-6	50441	6	150	115.90
98-8	50442	8	200	142.50
98-12	50443	12	300	200.45



98-6

CRYSTAL PINK® GRANITE SURFACE PLATES

- Accurate for use in metrology laboratories and wear resistant for use in abrasive shop environments
- The finest, most durable granite surface plate available to industry today
- The name is derived from the fact that it has the highest crystalline quartz content of any granite surface plate
- Even distribution of large quartz crystals provides a smooth finish, which significantly reduces wear on the surface plate and the instruments used on it
- Fine micro-finish, combined with the natural voids in the surface, prevents wringing and provides a velvety-smooth tool action
- Non-quartz-bearing granite in average daily use requires resurfacing about once a year, while Crystal Pink® plates used in these same plants have required resurfacing only once every three to five years, on average.
- Meets or exceeds U.S. Federal Specification GGG-P-463c for flatness
- Great surface hardness and wear resistance – the highest percentage of quartz crystals of any granite plate
- Smooth, jewel-like quartz bearing points protect accuracy and finish of both the surface and the tools used on it



EDP	Surface Size		Thickness		Flatness Unilateral Tolerance		Weight		Sale Price
	in	mm	in	mm	in	mm	lb	kg	
80656	24 x 36	600 x 900	6	150	0.000	0.003	495	225	1,509.55
80631	18 x 24	450 x 600	6	150	.000150	0.0038	248	113	539.60

SUPERIOR BLACK GRANITE SURFACE PLATES

- Our superior black granite has low water absorption rates, thus minimizing the possibility of your precision gages rusting while setting on the plates
- This black granite creates little glare resulting in less eye strain for individuals using the plates
- We have chosen our superior black granite with the specific intent of keeping thermal expansion to a minimum



EDP	Surface Size		Thickness		Flatness Unilateral Tolerance		Weight		Sale Price
	in	mm	in	mm	in	mm	lb	kg	
85034	18 x 24	450 x 600	3	75	0.000	0.008	136	62	350.55
85061	24 x 36	600 x 900	4	100	.00040	0.0102	366	166	773.30



PROMO 2014.5

Starrett®

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