

CATALOGUE



Athol, Massachusetts, USA



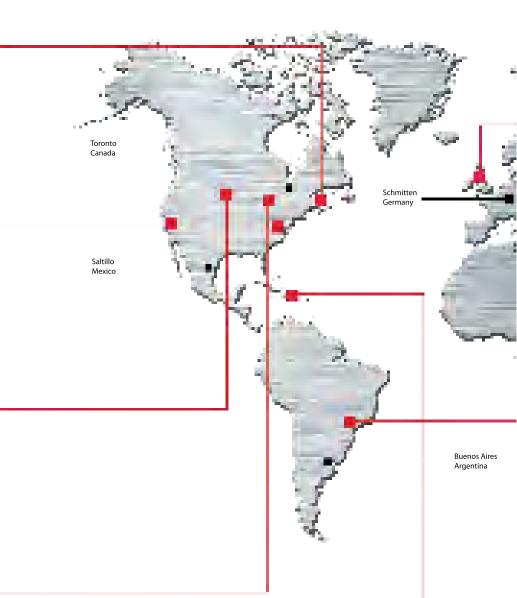
Laguna Hills, California, USA



Waite Park, Minnesota, USA



Cleveland, Ohio, USA





Mount Airy, North Carolina, USA

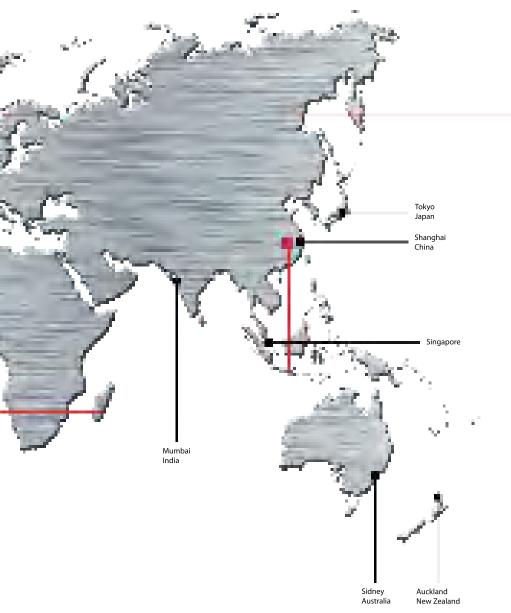


Santo Domingo, Dominican Republic



MANUFACTURED AND MARKETED WORLDWIDE

STARRETT CORPORATE HEADQUARTERS AND INTERNATIONAL LOCATIONS





Jedburgh, Scotland



Suzhou, China



Itu, São Paulo, Brazil

Starrett Distribution Centers and Offices Factories The L.S. Starrett Company has been involved in precision tool manufacturing since 1880, sold products worldwide since the 1890s and introduced its first saw blade in about 1904.

Headquartered in Athol, MA since its founding, Starrett has a tradition and reputation so rich and solid that the words "quality" and "Starrett" have become synonymous.

The Company employs over 2,000 people worldwide with sales of over \$200,000,000.















CALIPERS

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- 6 Electronic Digital Calipers
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- · IP67 level of protection against foreign matter.
- Instant inch/mm conversion.
- · Fine adjustment thumb wheel.
- · Large, easy to read LCD display.

Cat No

798A-6/150

798A-8/200

798A-12/300

798B-6/150

798B-8/200

798B-12/300

- · Hardened stainless steel measuring surface for long life.
- Zero the reading at any position.
- 798A Without data output.
- 798B With data output.



799 SERIES - ELECTRONIC DIGITAL CALIPERS

- · Instant inch/mm conversion.
- Zero the reading at any position.
- Fine adjustment thumb wheel.
- Lightweight, ergonomic design.
- Large, easy to read LCD display.



Cat No	Range	Graduation
799A-6/150	150mm / 6"	
799A-8/200	200mm / 8"	0.01mm / 0.0005"
799A-12/300	300mm / 12"	

125 SERIES - VERNIER CALIPERS

Range

150mm / 6"

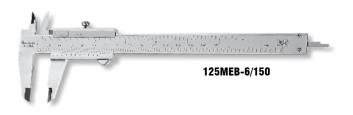
200mm / 8"

300mm / 12"

150mm / 6"

200mm / 8"

300mm / 12"



- High quality basic vernier caliper.
- · Sharp, black graduations on the satin finished bar.

Graduation

Graduation

0.01mm / 0.0005"

- · Lock screw for sliding jaw.
- Hardened stainless steel depth rod. Cat No Range

125MEA-6/150 150mm	/ 6"
125MEA-8/200 200mm	/ 8" 0.02mm / 0.001"
125MEA-12/300 300mm	/ 12"
125MEB-6/150 150mm	/ 6"
125MEB-8/200 200mm	/ 8" 0.05mm / 1/128"
125MEB-12/300 300mm	/ 12"

1201 & 1202 SERIES - DIAL CALIPERS



- Knife edge contacts for inside and outside measurements.
- · Adjustable bezel.
- · Lock screws for sliding jaw and dial bezel.
- Thumb-operated fine adjustment roll.
- Cat No Graduation Range 1201M-150 150mm 0.01mm 1201M-200 200mm 1202M-150 150mm 1202M-200 200mm 0.02mm 1202M-300 300mm 4" 1202-4 6" 1202-6 0.001" 1202-8 8" 1202-12 12"

799 & 1251 SERIES - LONG RANGE CALIPERS



- · Instant inch/mm conversion.
- Zero the reading at any position.

• LCD characters are 13mm (1/2") high.

· Fine adjustment thumb wheel.

Cat No Range Graduation 799AZ-24/600 600mm / 24" 0.01mm / 0.0005" 799AZ-40/1000 1000mm / 40"

3753 SERIES - ELECTRONIC DIGITAL DEPTH GAUGES & ACCESSORIES



- · Hardened stainless steel body and slide for long life.
- · Hook attachment is furnished with the gauge, making it possible to take readings from the edge of the workpiece to edges of slots, grooves, shoulders and other ID length dimensioning.
- · Fine adjustment thumb wheel.
- Sharp, easy to read LCD display.
- Lock to hold the slide in position.
- Instant inch/mm conversion.

Cat No	Range	Graduation / Description
3753AZ-6/150	150mm / 6"	
3753AZ-8/200	200mm / 8"	0.01mm / 0.0005"
3753AZ-12/300	300mm / 12"	
3648-180	180mm	Base Extension With Screws
3648-260	260mm	Base Extension With Screws
3648-320	320mm	Base Extension With Screws

Cat No	Range	Graduation
1251MEA-12/300	300mm / 12"	
1251MEA-20/500	500mm / 20"	0.00 / 0.004 //
1251MEA-24/600	600mm / 24"	0.02mm / 0.001"
1251MEA-40/1000	1000mm / 40"	

ELECTRONIC DIGITAL HEIGHT GAUGES



Starrett 3752 Electronic Height Gauge.

- Clear bar graduations in 5mm increments. • Instant inch/mm conversion.
- Large LCD display.
- "Hold" control feature retains a reading at any position.
- · Ability to retain and return to the true zero reading of the height gauge.

Range

150mm / 6"

300mm / 12"

600mm / 24"

• With RS232 data output.

Cat No

3751AZ-6/150

3752-12/300

3752-24/600

Starrett 3751 Electronic Height Gau	ae.
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- Instant inch/mm conversion.
 - Zero the reading at any position.
 - · Lock to hold slide in position.
 - Vertical bar is back from the edge of the
 - nose to provide better stability.
 - Manual ON/OFF plus a built in automatic OFF after 5 minutes of non use.

Graduation

· Without data output.



2000 SERIES - ALTISSIMO ELECTRONIC HEIGHT GAUGES

- A unique, ergonomically shaped base, hardened and ground, that fits your grip just right to easily move the gauge and press the "Hot Key".
- "Hot Key" allows you to select measuring results on the fly.
- 0 600mm (0 24") measuring range.
 Smart probe that can measure I.D. or O.D.
- without attachments.Electronically adjustable probe force.
- Large, easy-to-read interactive LCD with
- unique scanning meter for monitoring
- probe position.Electronically adjustable probe force.
- Electronically adjustable beeper volume.
- Bold screen icons indicate current routine.
- Three electronically adjustable resolutions.
- Retains the last calibrated diameter of the measuring probe, even after the gauge is shut down.
- Dynamic bi-directional probing with point and scan modes.
- Easy operation with speed wheel complete with fine-adjust feature.
- Locking mechanism for scribing.
- Five measurement modes: ID/OD, Centre, TIR, MAX/MIN, Continuous Display.

- Instant mm/inch conversion.
- Two selectable Datums and Preset.
 Auto Power Off after two hours with
- retention of probe calibration.
- Automatic calculation of eight measurement routines:
- Centre.
- Diameter.
- Height.
- Max.
- Min. - TIR.
 - HR. Distance to last
- Distance to last feature.
- Distance between last two points.
 Rechargeable NiMH batteries with 100
- hours of continuous life.Optional probe kit features a variety of probes for many applications.
- Gauges include carbide probe, probe holder and probe calibration block.
- RS232 Data Output.
- Starrett capacitive measurement system ensures the accuracy and reliability you expect.
- Excellent value loaded with features and competitively priced.

Technical	Specifications
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Measuring Range	600mm (Extendible to 750mm by rotating the probe holder 180°)	
Resolution	0.001mm / 0.01mm / 0.02mm	
Accuracy	±0.008mm	
Repeatability	±0.002mm	
Power Source	NiMH Rechargeable Batteries (120V AC/60Hz Charger/Adaptor Included)	
Included	4.8mm/0.1875" Diameter Carbide Probe, Probe Holder	
Accessories	AC Charger/Adaptor, Probe Calibration Block	
Dimensions	Length 279mm (11"), Width 197mm (7.3/4"), Height 927mm (36.1/2")	
Weight	18Kgs / 40lbs	
Perpendicularity	0.010mm (0.0004")	



2000 SERIES - ALTISSIMO ELECTRONIC HEIGHT GAUGES



Large, easy-to-view /understand display shows the diameter of a hole or boss.



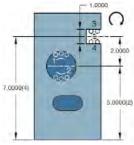
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Measurement

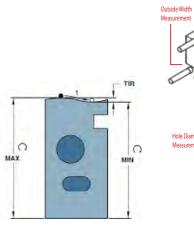
Display showing TIR.



Interactive LCD with unique scanning meter for easy probe position viewing.



Altissimo includes many routines including diameter of a bore (1 & 2), width of a slot or a rib (3 & 4), distance from datum to center of a hole or slot and distance between features.



TIR mode can measure the high or low point of a diameter or other surface. The datum can then be set to the max or min value.

Cat No	Description	
2000-24	Height Gauge	
PT27937	Carbide Probe 4.8mm (0.1875") Diameter (Standard)	
 PT27940	Probe Holder (Standard)	
PT27944	Probe Calibration Block (Standard)	

Cat No	Description	
S2000AZ	Accessory Set Includes (All Items Marked With *):	
PT27948	* Probe Tip, 5-Way Adaptor	
PT23942	* 1mm (0.040") Carbide Contact Point	
PT23914	* 2mm (0.078") Carbide Contact Point	
PT23943	* 3mm (0.120") Carbide Contact Point	
PT27952	* Contact Wrench	
PT27945	* 10.2mm (0.400") Cylindrical Probe	
PT27950	* Circular Carbide Probe	
PT27949	* Depth Gauge Attachment	
PT27946	* Holder For Dovetail Indicators	
PT62011	Replacement Battery Pack, NiMH 6V	
PT62015	Power Supply Charger For USA and Canadian Configuration	
PT62130	Power Supply Charger For UK Configuration	
PT62131	Power Supply Charger For European Configuration	
PT61768	Interface Adaptor For Starrett Tools To PC	
PT62103	Shielded Cable To Starrett 761/772 Series Starrett Modules & PT61768 Adaptor	
PT62425	Computer Interface Cable To PC	



3732 SERIES - ELECTRONIC DIGITAL MICROMETERS WITHOUT OUTPUT

795 / 796 SERIES - IP67 ELECTRONIC DIGITAL MICROMETERS



- Instant inch/mm conversion.
- · Zero the reading at any position.
- Starrett no-glare satin chrome finish on thimble and sleeve.

Starrett

- Balanced, tapered frame for comfortable and accurate measuring.
- Micro-lapped carbide measuring faces.
- Auto OFF after 30 minutes of non-use.
- Extremely hard and stable one piece spindle, the heart of our accuracy and smooth operating one piece friction thimble.
- MEXFL Thimble with mm scale.
- XFL Thimble with imperial scale. Without data output.
- Sets available.



- IP67 level of protection against coolant, water, dust and dirt.
- Instant inch/mm conversion.
- Zero the reading at any position.
- Starrett no-glare satin chrome finish on thimble and sleeve.
- Balanced, tapered frame for comfortable and accurate measuring.
- Micro-lapped carbide measuring faces.
- Extremely hard and stable one piece spindle, the heart of our accuracy and smooth operating one piece friction thimble.
- MEXFL Thimble with mm scale.
- XRL Thimble with imperial scale.
- 795 With data output.
- 796 Without data output.

Cat No	Range	Graduation
3732MEXFL-25	0 - 25mm / 0 - 1"	
3732MEXFL-50	25 - 50mm / 1 - 2"	
3732MEXFL-75	50 - 75mm / 2 - 3"	0.001mm / 0.00005"
3732MEXFL-100	75 - 100mm / 3 - 4"	0.001mm / 0.00005"
3732MEXFL-125	100 - 125mm / 4 - 5"	
3732MEXFL-150	125 - 150mm / 5 - 6"	
3732XFL-1	0 - 1" / 0 - 25mm	
3732XFL-2	1 - 2" / 25 - 50mm	
3732XFL-3	2 - 3" / 50 - 75mm	0.00005" / 0.001mm
3732XFL-4	3 - 4" / 75 - 100mm	0.00005 / 0.00 min
3732XFL-5	4 - 5" / 100 - 125mm	
3732XFL-6	5 - 6" / 125 - 150mm	
S3732BXFLZ	0 - 4" / 0 - 100mm	0.00005" / 0.001mm
S3732CXFLZ	0 - 6" / 0 - 150mm	0.00005" / 0.001mm

Cat No	Range	Graduation
795MEXFL-25	0 - 25mm / 0 - 1"	
795MEXRL-50	25 - 50mm / 1 - 2"	0.001mm / 0.00005"
795MEXRL-75	50 - 75mm / 2 - 3"	0.001mm / 0.00005"
795MEXRL-100	75 - 100mm / 3 - 4"	
795XRL-1	0 - 1" / 0 - 25mm	
795XRL-2	1 - 2" / 25 - 50mm	0.00005# / 0.004
795XRL-3	2 - 3" / 50 - 75mm	- 0.00005" / 0.001mm
795XRL-4	3 - 4" / 75 - 100mm	
796MXFL-25	0 - 25mm	0.001mm
796XRL-1	0 - 1"	
796XRL-2	1 - 2"	0.00005"
796XRL-3	2 - 3"	0.00005"
796XRL-4	3 - 4"	

444 SERIES - OUTSIDE MICROMETERS WITH THERMAL INSULATED COVER

- Carbide measuring faces.
- Starrett satin chrome finish no glare and rust resistant.
- Extremely hard and stable one piece spindle (the heart of our accuracy).
- Ring-type knurled lock nut for quick and sure locking.







436 SERIES - OUTSIDE MICROMETERS



- Carbide measuring faces.
- Starrett satin chrome finish no glare and rust resistant.
- Extremely hard and stable one piece spindle (the heart of our accuracy).

Cat No	Range	Graduation
436.2MXRL-25	0 - 25mm	
436.1MXRL-50	25 - 50mm	
436.1MXRL-75	50 - 75mm	
436.1MXRL-100	75 - 100mm	
436.1MXRL-125	100 - 125mm	
436.1MXRL-150	125 - 150mm	0.01mm
436MXRL-175	150 - 175mm	0.011111
436MXRL-200	175 - 200mm	
436MXRL-225	200 - 225mm	
436MXRL-250	225 - 250mm	
436MXRL-275	250 - 275mm	
436MXRL-300	275 - 300mm	
436.1XRL-1	0 - 1"	
436.1XRL-2	1 - 2"	
436.1XRL-3	2 - 3"	
436.1XRL-4	3 - 4"	
436.1XRL-5	4 - 5"	
436.1XRL-6	5 - 6"	1
436XRL-7	6 - 7"	- 0.001"
436XRL-8	7 - 8"	
436XRL-9	8 - 9"	
436XRL-10	9 - 10"	
436XRL-11	10 - 11"	
436XRL-12	11 - 12"]
V436.2MXRL-25	0 - 25mm	
V436.1MXRL-50	25 - 50mm	0.001mm
T436.1XRL-1	0 - 1"	
T436.1XRL-2	1 - 2"	0.0001"

• Ring-type knurled lock nut for quick and sure locking.

S436 SERIES - MICROMETER SETS WITH STANDARDS



Cat No	Range	Graduation	Description
S436.2MCXRLZ	0 - 150mm	0.01mm	Each set includes: 25, 50, 75, 100, 125 & 150mm Micrometers, with Five Standards, in Case
S436.1CXRLZ	0 - 6"	0.001"	Each set includes: 1", 2", 3", 4", 5" & 6" Micrometers, with Five Standards, in Case

224 SERIES - OUTSIDE MICROMETERS WITH INTERCHANGEABLE ANVILS



- Starrett satin chrome finish no glare and resists rust.
- Advanced sleeve design with staggered lines and distinct figures for precise and easy readability.

Cat No	Range	Graduation		
224MAARLZ	0 - 100mm			
224MARLZ	50 - 150mm			
224MGRLZ	150 - 300mm		-	
224MDRLZ	300 - 400mm	0.01mm		-
224MERLZ	400 - 500mm			
224MJRLZ	500 - 600mm		-	

• Large thimble diameter with distinct figures.

Cat No	Range	Graduation
224AARLZ	0 - 4"	
224ARLZ	2 - 6"	
224BRLZ	6 - 9"	
224GRLZ	6 - 12"	0.004
224CRLZ	9 - 12"	0.001"
224DRLZ	12 - 16"	
224ERLZ	16 - 20"	
224JRLZ	20 - 24"	

486 SERIES - BLADE TYPE MICROMETERS

- · Non-rotating spindle prevents blade from turning in narrow slots or rolling off shoulder.
- Blade thickness is 0.8mm.
- · Blades will measure to 8mm depths. • Starrett satin chrome finish - no glare resists rust.



256 SERIES - DISC TYPE

MICROMETERS

- Exremely hard and stable one piece spindle (the heart of our accuracy).
- Tapered frame designed specifically for use in narrow slots and tight places.
- Balanced frame and thimble design insure easy handling and better readability.
- · Micro lapped measuring faces.

Cat No	Range	Graduation	
486MP-25	0 - 25mm		
486MP-50	25 - 50mm	0.01mm	
486MP-75	50 - 75mm	0.011111	
486MP-100	75 - 100mm		
486P-1	0 - 1"		
486P-2	1 - 2"	0.001"	
486P-3	2 - 3"	0.001	
486P-4	3 - 4"		

Cat No Range		Graduation
256MRL-25	0 - 25mm	
256MPN-25*	0 - 2511111	0.01mm
256MRL-50	25 - 50mm	0.0111111
256MRL-75	50 - 75mm	
256RL-1	0 - 1"	0.001"
256PN-1*	0-1	
256RL-2	1 - 2"	0.001
256RL-3	2 - 3"	

* Non-Rotating Spindle

207 SERIES - STAINLESS STEEL CAN SEAM MICROMETERS

208 SERIES - STAINLESS STEEL CAN SEAM MICROMETERS



- Designed to measure the thickness and depth of can seams.
- Satin finish stainless steel no glare rust and stain resistant.
- Advanced sleeve design with staggered lines and distinct figures for precise and easy readability.
- The No. 207 Series has a snub nose which permits measuring aerosol type cans.
- · Extremely hard and stable one piece spindle (the heart of our accuracy).
- Designed to measure the thickness and depth of can seams.
- · Satin finish stainless steel no glare rust and stain resistant.
- · Advanced sleeve design with staggered lines and distinct figures for precise and easy readability.
- Quick and easy adjustment.
- Extremely hard and stable one piece spindle (the heart of our accuracy).

208MDZ

Cat No	Range	Graduation
207MZ	0 - 9.5mm	0.01mm
207Z	0 - 0.375"	0.001"

Cat No	Range	Graduation	Description
208MZ	0 - 9.5mm	0.01mm	Without Depth Gauge
208MDZ	0 - 9.511111		With Depth Gauge
208Z	0.0075"	0.001"	Without Depth Gauge
208DZ	0 - 0.375"	0.001	With Depth Gauge

700 SERIES - INSIDE MICROMETER

Cat No	Range	Graduation	
700MA	5 - 30mm	- 0.01mm	
700MB	25 - 50mm		
700A	0.200 - 1.200"	0.001"	
700B	1 - 2"	0.001	



749 SERIES - ELECTRONIC DIGITAL DEPTH MICROMETER



- Adjustable measuring rods are 4mm (5/32") in diameter.
- Instant inch/mm conversion.
- Ability to zero the reading at any position.
- Large, high contrast LCD digital readout.
- With data ouput.
- Ratchet stop and lock nut.
- MEBZ Thimble with mm scale.

Starrett

• BZ - Thimble with imperial scale.

• 440 are finished with 63mm (2.1/2") base

• 445 are finished with 100mm (4") base and

4mm (5/32") diameter measuring rods.

and 3.2mm (1/8") diameter measuring

Cat No	Range	Graduation	Base
749MEBZ-150	0 - 150mm / 0 - 6"	0.001mm / 0.0001"	100mm (4")
749BZ-6RL	0 - 6" / 0 - 150mm	0.0001" / 0.001mm	100mm (4")

440 & 445 SERIES - DEPTH MICROMETERS



- Ring-type lock nut for quick and sure locking.
- · Combination ratchet and speeder for uniform pressure and quicker adjustment. • Ratchet stop and lock nut.

Cat No	Range	Graduation	No Of Rods
440MZ-75RL	0 - 75mm		3
440MZ-150RL	0 - 150mm	0.01mm	6
440MZ-225RL	0 - 225mm		9
440Z-3RL	0 - 3"		3
440Z-6RL	0 - 6"	0.001"	6
440Z-9RL	0 - 9"		9
445MBZ-75RL	0 - 75mm		3
445MBZ-150RL	0 - 150mm	0.01mm	6
445MBZ-225RL	0 - 225mm		9

rods.

762 SERIES - ELECTRONIC DIGITAL **MICROMETER HEADS**



- Instant inch/mm conversion.
- · Friction thimble and lock nut.
- Carbide measuring faces. · Ability to zero reading at any position.
- With data ouput.
- MEXFL Thimble with mm scale.
- XFL Thimble with imperial scale.

,		
Cat No	Range	Graduation
762MEXFL-25	0 - 25mm / 0 - 1"	0.001mm / 0.00005"
762MEXFL-50	25 - 50mm / 1 - 2"	0.001mm / 0.00005"
762XFL-1	0 - 1" / 0 - 25mm	0.00005" / 0.001mm
762XFL-2	1 - 2" / 25 - 50mm	0.00005" / 0.001mm

MICROMETER HEADS

UNE





These are plain micrometer heads with no lock nut or ratchet.



• RL - Ratchet stop and lock nut.

• P - Plain head, no nut or ratchet.

Cat No	Range	Graduation	
460MB	0 - 13mm	0.01mm	
460B	0 - 1/2"	0.001"	
463MRL	0 - 13mm	0.01mm	
463RL	0 - 1/2"	0.001"	
263MP*	0.05		
263MRL*	0 - 25mm	0.01mm	
263P	0.4	0.004	
263RL	0 - 1"	0.001"	
63MRL*	0 - 50mm	0.01mm	
63P	0.0	0.004	
63RL	0 - 2"	0.001"	

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

124 SERIES - SOLID-ROD INSIDE MICROMETERS



Starrett

Measuring I.D. with micrometer and rod.



- Rod diameters are approximately 6mm (1/4") on the A and B sizes, and approximately 8.5mm (11/32") on the C size.
- Hardened and ground anvils on rods, adjustable for length. Head anvil is hardened and ground.

Each rod marked with length.

- Rods are insulated. Measuring rods are solid and assembled
- on one side of the micrometer head.Quick-reading figures every thousandth numbered on inch reading tools.

Cat No	Range	Graduation	No Of Measuring Rods
124MAZ	50 - 200mm		6
124MBZ	50 - 300mm	0.01mm	10
124MCZ	200 - 800mm		4
124AZ	2 - 8"		6
124BZ	2 - 12"	0.001"	10
124CZ	8 - 32"		4

823 SERIES - TUBULAR INSIDE MICROMETERS



- 140mm long, covenient handle included on A and B micrometers may be clamped where it will provide correct balance and reach.
- Interchangeable anvils on 13mm and 25mm heads.
 Each rod is marked with length.
- Tubular measuring rods are lightweight, yet extremely rigid.
- Both the adjustable anvils on rods and the head anvil are hardened and ground.
- Lock nut included with 25mm heads.

Cat No	Range	Graduation	Description
823MAZ	40 - 200mm		With 6 Rods & Handle
823MBZ	40 - 300mm	0.01mm	With 8 Rods & Handle
823MEZ	100 - 1000mm		With 10 Rods
823AZ	1.1/2 - 8"		With 5 Rods & Handle
823BZ	1.1/2 - 12"	0.001"	With 8 Rods & Handle
823CZ	4 - 24"		With 7 Rods

781 SERIES - ACCUBORE[®] ELECTRONIC BORE GAUGES & SETS





AccuBore[®] is a high quality, trigger-activated, three-point contact bore gauging system with extended range. Its convenient single-hand operation provides speed and control. Squeeze the trigger, insert the gauge into the bore and release the trigger for an instant reading.

- Convenient "Go/No Go" tolerance indicator lights.
- Instant inch/mm conversion.
- HOLD, MAX/MIN and ZERO capabilities.
- With data output.
- Specialised heads available upon request.
- True alignment with mechanically-driven parallel anvils.

Cat No	Range	Approx Measuring Depth	Accuracy
781XTZ-500	10 - 12.5mm / 3/8 - 1/2"	58mm / 2.1/4"	
781XTZ-625	12.5 - 16mm / 1/2 - 5/8"	60mm / 0.0/0"	
781XTZ-750	16 - 20mm / 5/8 - 3/4"	62mm / 2.3/8"	0.004mm / 0.00015"
781XTZ-1	20 - 25mm / 3/4 - 1"	66mm / 0.5/0"	0.004(1)(1)/ 0.00015
781XTZ-138	25 - 35mm / 1 - 1.3/8"	66mm / 2.5/8"	
781XTZ-2	35 - 50mm / 1.3/8 - 2"		
781XTZ-258	50 - 65mm / 2 - 2.5/8"	80mm / 3.1/16"	
781XTZ-314	65 - 80mm / 2.5/8 - 3.1/4"		0.005mm / 0.0002"
781XTZ-4	80 - 100mm / 3.1/4 - 4"	85mm / 3.3/8"	

Cat No	Range	No of Heads	No of Rings
S781XTHZ	6 - 20mm / 0.250 - 0.750"	5	3
S781XTDZ	10 - 20mm / 0.375 - 0.750"	3	2
S781XTEZ	20 - 50mm / 0.750 - 2"	3	3
S781XTJZ	20 - 100mm / 0.750 - 4"	6	4
S781XTFZ	50 - 100mm / 2 - 4"	3	2

3089 SERIES - BORE GAUGE SETS



78 SERIES - 3 POINT INTERNAL BORE GAUGE MICROMETERS





- 3-Point contact with carbide measuring faces on all 3-point heads above 12.5mm (1/2").
- Self-centering contacts for true readings.Complete with setting ring.
- Ratchet stop ensures consistent measurements.

Cat No	Range	Graduation	Approx Measuring Depth
78MXTZ-12.5	10 - 12.5mm		58mm
78MXTZ-16	12.5 - 16mm	1	
78MXTZ-20	16 - 20mm	1	62mm
78MXTZ-25	20 - 25mm]	66mm
78MXTZ-35	25 - 35mm	25 - 35mm	
78MXTZ-50	35 - 50mm		
78MXTZ-65	50 - 65mm	0.005mm	80mm
78MXTZ-80	65 - 80mm]	
78MXTZ-100	80 - 100mm]	100mm
78MXTZ-125	100 - 125mm]	
78MXTZ-150	125 - 150mm	1	
78MXTZ-175	150 - 175mm]	115mm
78MXTZ-200	175 - 200mm		
Cat No	Range	No. of Heads	No. of Rings
S78MXTCZ	6 - 10mm	2	1
S78MXTDZ	10 - 20mm		
		3	2
S78MXTEZ	20 - 50mm	3	2
S78MXTEZ S78MXTFZ	20 - 50mm 50 - 100mm	3	2
		3	
S78MXTFZ	50 - 100mm Range	3 Graduation	Approx Measuring Depth
S78MXTFZ	50 - 100mm	-	
S78MXTFZ	50 - 100mm Range	-	Approx Measuring Depth 2.1/4"
S78MXTFZ Cat No 78XTZ-500	50 - 100mm Range 3/8 - 1/2"	-	Approx Measuring Depth
S78MXTFZ Cat No 78XTZ-500 78XTZ-625	50 - 100mm Range 3/8 - 1/2" 1/2 - 5/8"	-	Approx Measuring Depth 2.1/4" 2.7/16"
S78MXTFZ Cat No 78XTZ-500 78XTZ-625 78XTZ-750	50 - 100mm Range 3/8 - 1/2" 1/2 - 5/8" 5/8 - 3/4"	-	Approx Measuring Depth 2.1/4"
S78MXTFZ Cat No 78XTZ-500 78XTZ-625 78XTZ-750 78XTZ-1	50 - 100mm Range 3/8 - 1/2" 1/2 - 5/8" 5/8 - 3/4" 3/4 - 1"	-	Approx Measuring Depth 2.1/4" 2.7/16"
S78MXTFZ Cat No 78XTZ-500 78XTZ-625 78XTZ-750 78XTZ-1 78XTZ-138	50 - 100mm Range 3/8 - 1/2" 1/2 - 5/8" 5/8 - 3/4" 3/4 - 1" 1 - 1.3/8"	-	Approx Measuring Depth 2.1/4" 2.7/16"
S78MXTFZ Cat No 78XTZ-500 78XTZ-625 78XTZ-750 78XTZ-1 78XTZ-138 78XTZ-2	50 - 100mm Range 3/8 - 1/2" 1/2 - 5/8" 5/8 - 3/4" 3/4 - 1" 1 - 1.3/8" 1.3/8 - 2"	Graduation	Approx Measuring Depth 2.1/4" 2.7/16" 2.5/8"
S78MXTFZ Cat No 78XTZ-500 78XTZ-625 78XTZ-750 78XTZ-1 78XTZ-138 78XTZ-2 78XTZ-258	50 - 100mm Range 3/8 - 1/2" 1/2 - 5/8" 5/8 - 3/4" 3/4 - 1" 1 - 1.3/8" 1.3/8 - 2" 2 - 2.5/8"	Graduation	Approx Measuring Depth 2.1/4" 2.7/16" 2.5/8"
S78MXTFZ Cat No 78XTZ-500 78XTZ-625 78XTZ-750 78XTZ-1 78XTZ-138 78XTZ-2 78XTZ-2 78XTZ-258 78XTZ-314	50 - 100mm Range 3/8 - 1/2" 1/2 - 5/8" 5/8 - 3/4" 3/4 - 1" 1 - 1.3/8" 1.3/8 - 2" 2 - 2.5/8" 2.5/8 - 3.1/4"	Graduation	Approx Measuring Depth 2.1/4" 2.7/16" 2.5/8" 3.1/16"
S78MXTFZ Cat No 78XTZ-500 78XTZ-625 78XTZ-750 78XTZ-11 78XTZ-138 78XTZ-2 78XTZ-258 78XTZ-314 78XTZ-4	50 - 100mm Range 3/8 - 1/2" 1/2 - 5/8" 5/8 - 3/4" 3/4 - 1" 1 - 1.3/8" 1.3/8 - 2" 2 - 2.5/8" 2.5/8 - 3.1/4" 3.1/4 - 4"	Graduation	Approx Measuring Depth 2.1/4" 2.7/16" 2.5/8" 3.1/16"
S78MXTFZ Cat No 78XTZ-500 78XTZ-625 78XTZ-750 78XTZ-11 78XTZ-138 78XTZ-2 78XTZ-258 78XTZ-314 78XTZ-4 78XTZ-5	50 - 100mm Range 3/8 - 1/2" 1/2 - 5/8" 5/8 - 3/4" 3/4 - 1" 1 - 1.3/8" 1.3/8 - 2" 2 - 2.5/8" 2.5/8 - 3.1/4" 3.1/4 - 4" 4 - 5" 5 - 6" 6 - 7"	Graduation	Approx Measuring Depth 2.1/4" 2.7/16" 2.5/8" 3.1/16"
S78MXTFZ Cat No 78XTZ-500 78XTZ-625 78XTZ-750 78XTZ-11 78XTZ-138 78XTZ-2 78XTZ-258 78XTZ-314 78XTZ-4 78XTZ-5 78XTZ-6	50 - 100mm Range 3/8 - 1/2" 1/2 - 5/8" 5/8 - 3/4" 3/4 - 1" 1 - 1.3/8" 1.3/8 - 2" 2 - 2.5/8" 2.5/8 - 3.1/4" 3.1/4 - 4" 4 - 5" 5 - 6"	Graduation	Approx Measuring Depth 2.1/4" 2.7/16" 2.5/8" 3.1/16" 4"
S78MXTFZ Cat No 78XTZ-500 78XTZ-625 78XTZ-750 78XTZ-11 78XTZ-138 78XTZ-2 78XTZ-258 78XTZ-314 78XTZ-4 78XTZ-5 78XTZ-6 78XTZ-7	50 - 100mm Range 3/8 - 1/2" 1/2 - 5/8" 5/8 - 3/4" 3/4 - 1" 1 - 1.3/8" 1.3/8 - 2" 2 - 2.5/8" 2.5/8 - 3.1/4" 3.1/4 - 4" 4 - 5" 5 - 6" 6 - 7"	Graduation	Approx Measuring Depth 2.1/4" 2.7/16" 2.5/8" 3.1/16" 4"
S78MXTFZ Cat No 78XTZ-500 78XTZ-625 78XTZ-13 78XTZ-138 78XTZ-138 78XTZ-258 78XTZ-314 78XTZ-5 78XTZ-5 78XTZ-7 78XTZ-8	50 - 100mm Range 3/8 - 1/2" 1/2 - 5/8" 5/8 - 3/4" 3/4 - 1" 1 - 1.3/8" 1.3/8 - 2" 2 - 2.5/8" 2.5/8 - 3.1/4" 3.1/4 - 4" 4 - 5" 5 - 6" 6 - 7" 7 - 8"	Graduation	Approx Measuring Depth 2.1/4" 2.7/16" 2.5/8" 3.1/16" 4" 4.1/2"
S78MXTFZ Cat No 78XTZ-500 78XTZ-625 78XTZ-750 78XTZ-138 78XTZ-138 78XTZ-258 78XTZ-314 78XTZ-5 78XTZ-6 78XTZ-7 78XTZ-8 Cat No	50 - 100mm Range 3/8 - 1/2" 1/2 - 5/8" 5/8 - 3/4" 3/4 - 1" 1 - 1.3/8" 1.3/8 - 2" 2 - 2.5/8" 2.5/8 - 3.1/4" 3.1/4 - 4" 4 - 5" 5 - 6" 6 - 7" 7 - 8" Range	Graduation 0.00025"	Approx Measuring Depth 2.1/4" 2.7/16" 2.5/8" 3.1/16" 4" 4.1/2" No. of Rings
S78MXTFZ Cat No 78XTZ-500 78XTZ-625 78XTZ-750 78XTZ-13 78XTZ-138 78XTZ-2 78XTZ-258 78XTZ-314 78XTZ-5 78XTZ-6 78XTZ-7 78XTZ-8 Cat No S78XTCZ	50 - 100mm Range 3/8 - 1/2" 1/2 - 5/8" 5/8 - 3/4" 3/4 - 1" 1 - 1.3/8" 1.3/8 - 2" 2 - 2.5/8" 2.5/8 - 3.1/4" 3.1/4 - 4" 4 - 5" 5 - 6" 6 - 7" 7 - 8" Range 1/4 - 3/8"	Graduation 0.00025"	Approx Measuring Depth 2.1/4" 2.7/16" 2.5/8" 3.1/16" 4" 4.1/2" No. of Rings

- Carbide Tipped Anvil.
- Ergonomic design with non-slip insulating

grip.

Cat No Range Graduation 3089M-181-10J 6 - 10mm 3089M-181-18J 10 - 18mm 3089M-181-35J 18 - 35mm 3089M-181-50J 35 - 50mm 0.01mm 3089M-181-160J 50 - 160mm 3089M-181-250J 160 - 250mm 3089M-181-450J 250 - 450mm 3089Z-131-715J 0.7 - 1.5" 3089Z-131-1424J 1.4 - 2.4" 0.0005" 3089Z-131-26J 2 - 6" S3089MZ-181-160J Metric Bore Gauge Set, Set Contains, 3089M-181-35J, 50J & 160J S3089Z-131-6J Imperial Bore Gauge Set, Set Contains, 3089Z-131-715J, 1424J & 26J

· All anvils laser marked for easy selection.

0.01mm graduated dial.2 point contact.

15

82 SERIES - DIAL BORE GAUGES



- The split-ball contact is self-centering and the two-point contact makes the gage useful for detecting hole geometry problems like taper, bell-mouth and out-ofroundness.
- Reads to .0001" and 0.002mm.
- Useful for controlling approach to tolerance without removing the workpiece from a machine.
- Interchangeable probes are hard chrome plated and polished.
- Sets furnished in attractive, protective case.

Cat No	Range	Graduation	No of Probes
82MAZ	2.7 - 6.76mm	0.002mm	5
82MBZ	5.5 - 15.1mm	0.00211111	6
82MAB1	2.7 - 15.1mm	Head Only	
82AZ	0.107 - 0.266"	0.0001"	5
82BZ	0.217 - 0.594"	0.0001"	6
82AB1	0.107 - 0.594"	Head Only	

Cat No	Range	Max Bore Depth
82A2	2.70 - 3.55mm / 0.107 - 0.140"	
82A3	3.55 - 4.35mm / 0.139 - 0.172"	
82A4	4.35 - 5.15mm / 0.171 - 0.203"	20.6mm / 13/16"
82A5	5.15 - 5.95mm / 0.202 - 0.234"	
82A6	5.90 - 6.76mm / 0.233 - 0.266"	
82B2	5.50 - 7.15mm / 0.217 - 0.281"	
82B3	7.10 - 8.75mm / 0.279 - 0.344"	38mm / 1.1/2"
82B4	8.70 - 10.30mm / 0.279 - 0.344"	
82B5	10.25 - 11.90mm / 0.342 - 0.469"	
82B6	11.90 - 13.50mm / 0.467 - 0.532"	44mm / 1.3/4"
82B7	13.50 - 15.10mm / 0.530 - 0.594"	

829 & 831 SERIES - SMALL HOLE GAUGES



S829EZ - Full Ball

- Hardened-ball measuring surface with two
 -point contact.
- Radius on each gauge is less than the minimum diameter to be measured, which provides the two-point contact necessary for maximum accuracy.



S831EZ - Half Ball With Flat Bottom

- Smooth, sensitive adjustment for better feel, giving more accurate measurements.
- The adjustment of the gauge beyond their range is restricted by a safety stop that prevents breakage.

Cat No	Description	Range	Length
		3.2 - 5.1mm / 0.125 - 0.200"	75mm / 2.7/8"
S829EZ		5.1 - 7.6mm / 0.200 - 0.300"	80mm / 3.1/8"
3029EZ	Set of 4 in Case	7.6 - 10.2mm / 0.300 - 0.400"	85mm / 3.3/8"
		10.2 - 12.7mm / 0.400 - 0.500"	90mm / 3.1/2"
		3.2 - 5.1mm / 0.125 - 0.200"	70mm / 2.13/16"
S831EZ Set of 4 in Case	Cat of 4 in Case	5.1 - 7.6mm / 0.200 - 0.300"	80mm / 3.1/8"
	Set of 4 in Case	7.6 - 10.2mm / 0.300 - 0.400"	85mm / 3.3/8"
		10.2 - 12.7mm / 0.400 - 0.500"	90mm / 3.1/2"

579 SERIES - TELESCOPING GAUGES



Cat No	Description	Range	Handle Length
		8 - 13mm / 5/16 - 1/2"	
	Cat of 4 in Case	13 - 19mm / 1/2 - 3/4"	60mm / 0.2/0"
22/9GZ	S579GZ Set of 4 in Case	19 - 32mm / 3/4 - 1.1/4"	60mm / 2.3/8"
		32 - 54mm / 1.1/4 - 2.1/8"	
	S579HZ Set of 6 in Case	One of each of S	579GZ plus two below
S579HZ		54 - 89mm / 2.1/8 - 3.1/2"	60mm / 2.3/8"
		89 - 150mm / 3.1/2 - 6"	82mm / 3.1/4"

196 SERIES - UNIVERSAL BACK-PLUNGER DIAL INDICATORS & ATTACHMENTS

Starrett 196 Series Indicators is one of the most versatile indicators available. The design has withstood the test of time. While there is a need for indicators with finer graduations, this indicator graduates to 0.02mm and 0.001" will handle by far the majority of jobs. Shank diameter is 6.3mm (1/4").

Antimagnetic models are also available.



A. Clamp PT99437 With a 1-5/16" (33mm) flat or round capacity – 5/16" (8mm) post (PT03709-1/2) used with PT18718 Snug. (See right).

B. Tool Post Holder

PT99438 3/8" x 3/4" x 6" (9.5 x 19 x 150mm) with upright spindle (PT03820-0) 5/16" dia. x 4-1/2" length (8 x 114mm). Use with PT18718 Snug.

C. Snug Complete PT18718 Post hole has a 5/16" diameter† and 3/32-1/4" holding capacity. Can be used on our 252 Height Transfer Gage, 57 and 257A and B Surface Gages, on 657A Magnetic Base and Swivel Post Assembly.

D. Snug Complete PT18724 Post hole has a 3/8" diameter (9.5mm) and 3/32.1/4" (2.4-6.3mm) holding capacity. Can be used with our 57 and 257C and D Surface Gages or 657AA Magnetic Base with upright post.

E. Universal Snug

57S With spindle hole diameters 5/16", 3/8" (8, 9.5mm) and gripping hole diameters 9/64", 5/32", 3/16", 1/4" (3.5, 4, 4.8, 6.3mm).

F. Universal Snug

58S With spindle hole diameters 1/4", 5/16", 3/8" (6.3, 8, 9.5mm). Gripping hole diameters range from 3/32-1/4"used on holders with smaller clamp hole.

Attachments for 196 & 196M Series only

G. Hole Attachment

196F allows indicator be used over obstructions and inside holes to a depth of approximately 1-5/8" (40mm).

H. Shock Absorbing Anvil PT08726A.

I. Split Bushing PT00764 Allows attachment of 196 Indicator to 660 Magnetic Base.

Cat No	Photo Key	Description
196R	1	Adaptor **
196MR	1	Adaptor (Metric Threads)
PT05471	2	
PT05472	3	Hardened Steel Contact Point
PT05473	4	
PT99437	A*	Clamp
PT99438	B*	Tool Post Holder
PT18718	C*	Snug Complete
PT18724	D	Snug Complete - 1/4" & 3/8" Holes
57S	E	Universit Cours
58S	F	Universal Snug
196F	G*	Hole Attachment For 196 & 196M Series Only
PT08726A	н	Shock Absorbing Anvil For 196 & 196M Series Only
PT00764	I	Split Bushing For 196 & 196M Series Only

* Attachments marked with an asterix (*) are furnished with all sets having "A" in the catalogue number.

** For Contact Points with #4-48 Thread, see AGD Contact Listings in Cat 32.

Cat No	Graduation	Range	Dial Reading	Description		
196MA1Z			0 - 100	Indicator With 3 Contact Points, Adaptor, 4 Attachments*, In Case		
196MB1	0.02mm	-	(Yellow Dial)	Indicator With 3 Contact Points and Adaptor Only		
196MA5Z		5mm	5mm	Indicator With 3 Contact Points, Adaptor 196R, 4 Attachments*, In Case		
196MB5			(Yellow Dial)	Indicator With 3 Contact Points and Adaptor Only		
196A1Z				Indicator With 3 Contact Points, Adaptor, 4 Attachments*, In Case		
196B1		0.200"	0, 400	Indicator With 3 Contact Points and Adaptor Only		
196A6Z			0 - 100	Antimagnetic Indicator With 3 Contact Points, 4 Attachments*, In Case		
196B6	0.001"		0.200*	0.200"	0.200"	Antimagnetic Indicator With 3 Contact Points Only
196A5Z			0 50 0	Indicator With 3 Contact Points, Adaptor, 4 Attachments*, In Case		
196B5			0 - 50 - 0	Indicator With 3 Contact Points and Adaptor Only		

* Attachments include Clamp, Tool Post Holder, Snug & Hole Attachment. For more detailed information, see Catalogue 32

3015 SERIES - DIAL THICKNESS GAUGE



• 57mm dial face.

• Throat depth of 63mm (2.1/2").

Cat No	Range	Graduation	Throat Depth
3015MA	0 - 10mm	0.01mm	63mm
3015A	0 - 0.5"	0.001"	2.1/2"

2900 SERIES - IP67 ELECTRONIC DIGITAL INDICATORS



- IP67 protection against dirt, dust, water and coolant to withstand hostile shop environments.
- Data output on all models.
- Choice of Basic, Standard or Advanced feature levels.
- Selectable resolution models available.
- · Instant mm/inch conversion.

Cat No	Range	Graduation
2900-1	0.5" / 12mm	0.00005" / 0.001mm
2900-4	0.5" / 12mm	0.0005" / 0.0001" / 0.00005" / 0.01mm / 0.001mm
2900-6	0.5" / 12mm	0.0005" / 0.0001" / 0.00005" / 0.01mm / 0.001mm

3600 SERIES - ELECTRONIC DIGITAL INDICATORS

DIAL INDICATORS



- Supplied with tolerance hands and bezel lock.
- All indicators supplied with 57mm dial face, exept for 3081-481 (43mm dial face).
- 3025 and 3081 Series Indicators supplied with long life jewel bearings and lug back.

Cat No	Range	Graduation	Dial Reading
25-151J-8	0.25mm		0 - 50 - 0
3025-257J	1mm	0.001mm	0 - 200
25-181J-8	2.5mm	0.01mm	0 - 50 - 0
3025-481/5			0 - 100
3081-481/5	5mm		
3025-481	10mm		
3025-681	20mm		
25-2081J *	50mm		0 - 100
25-3081J *	75mm		0 - 100
25-4081J *	100mm		
25-5081J *	125mm		

* Complete with 9.5mm (3/8") stem diameter.

DIAL TEST INDICATORS





approximately 15° from being horizontal with the workpiece.

- Large easy to read LCD display.
- AGD group 2 size.
- Range: 12.7mm or 0.500"
- Reverse travel (± control indicates direction.
- Zero setting at any position.
- 9.5mm diameter stem for mm/inch model (8mm on metric only model).
- Lug-on-centre-back + additional flat back.
- Dust cap.
- Long battery life.
- Reversible contact point direction for versatility.
 - Precision, gear driven design with smooth, jeweled movement.
 - For extreme accuracy we recommend positioning the lever contact so that it is

Cat No	Range	Graduation
3600M-5	12.5mm	0.01mm
3600-5 *	12.5mm / 0.5"	0.01mm / 0.0005"

* 9.5mm (3/8") stem diameter.



Cat No	Range	Graduation	Dial Reading
3808MA	0.2mm	0.002mm	0 - 100 - 0
3809MA	0.8mm	0.01mm	0 - 40 - 0

MAGNETIC BASE INDICATOR HOLDERS, DIAL GAUGE STANDS & MICROMETER STAND



COMBINATION SETS WITH SQUARES



A complete substitute for a whole set of common solid try squares, a 45 degree mitre, a depth gauge, a height gauge, a marking or scribing gauge, a level, a plumb and by withdrawing the blade, it can also be used as a precision rule.

The Starrett 435 Series Combination Squares

Starrett

are the very best sets available, with reversible lock bolts, scriber, spirit level in both square head and protractor head, direct reading double 180° protractor scale, and a hardened steel, machine-divided blade.

Forged and hardened heads and centre heads, cast iron protractor head with smooth, black enamel finish.

Cat No	Range	Graduation	
9M-300	300mm	mm & 1/2mm Both Sides	
9M-600	600mm		
9ME-300	300mm / 11.3/4"		
9ME-600	600mm / 23.1/2"	1/2mm & 32nds One Side mm & 64ths Reverse Side	
435ME-300	300mm / 11.3/4"		
435ME-600	600mm / 23.1/2"		
435-12-4R	12"	8ths, 16ths, Quick Reading,	
435-24-4R	24"	32nds, 64ths	

635 SERIES - STEEL RULES

Spring Tempered With MM Graduations

Cat No	Length	Width x Thickness	Graduation
C635-150	150mm	19 x 1.2mm	
C635-300	300mm	25.4 x 1.2mm	mm & 1/2mm Both
C635-500	500mm	29 x 1.2mm	Sides
C635-1000	1000mm	32 x 1.2mm	

636 SERIES - STEEL RULES

distribution of the second sec

Spring Tempered With MM/Inch Graduations

Cat No	Length	Width x Thickness	Graduation
C636ME-150	150mm / 5.3/4"	19 x 1.2mm	
C636-300	300mm / 11.3/4"	25.4 x 1.2mm	32nds & 1/2mm On
C636-500	500mm / 19.1/2"	29 x 1.2mm	One Side 64ths & mm On Reverse
C636-1000	1000mm / 39.1/4"	32 x 1.2mm	

PRECISION STEEL SQUARES





Cat No	Specifications	Accuracy	
3020M-75	75mm		
3020M-100	100mm	0.005mm par 150mm of blade	
3020M-150	150mm	0.005mm per 150mm of blade	
3020M-300	300mm		
S3020MZ	Set Of 4 (One Of Each Size Listed Above)		
3020-3	3"		
3020-4	4"	0.0002" per	
3020-6	6"	6" of blade	
3020-12	12"		

Plain - Without Base

* **	11000011 00000 10000.000	
	60F-200	
	_	
Cat No	Specifications	Accu
60F-75	75 x 50mm	

Cat No	Specifications	Accuracy
60F-75	75 x 50mm	
60F-100	100 x 70mm	0.00Emm per 1E0mm of blade
60F-150	150 x 100mm	0.005mm per 150mm of blade
60F-200	200 x 130mm	

Bevel - Without Base

	60B-200	20
Cat No	Specifications	Accuracy
60B-50	50 x 40mm	
60B-75	75 x 50mm	
60B-100	100 x 70mm	0.005mm per 150mm of blade
60B-150	150 x 100mm	
60B-200	200 x 130mm	



154 SERIES - ADJUSTABLE PARALLELS



- Parallels slide smoothly and can be easily adjusted.
 All parallels are 7mm (9/32") thick.
- The smaller sizes A, B and C are locked by one screw while the larger sizes, D, E and F have two locks screws.

Cat No	Range	Length
154A	9.5mm - 12.7mm / 3/8" - 1/2"	45mm / 1.3/4"
154B	12.7mm - 17.5mm / 1/2" - 11/16"	55mm / 2.1/8"
154C	17.5mm - 24mm / 11/16" - 15/16"	70mm / 2.11/16"
154D	24mm - 33mm / 15/16" - 1.5/16"	90mm / 3.9/16"
154E	33 - 44mm / 1.5/16" - 1.3/4"	105mm / 4.3/16"
154F	44 - 57mm / 1.3/4" - 2.1/4"	130mm / 5.1/16"
S154SZ	Set Of 4 Parallels - Sizes A, B, C, D - In Case	
S154LZ	Set Of 6 Parallels - Sizes A, B, C, D, E, F - In Case	

FEELER / THICKNESS GAUGES



• 66MA and 467M Series - Straight Leaves.

• 173 and 66T Series - Tapered Leaves.

Cat No	Range	No of Leaves	Size of Leaves
66MA	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00mm	20	12.7 x 77mm
173MAT	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15,		12.7-7 x 77mm
173MCT	0.20, 0.30, 0.40, 0.50mm	13	12.7-7 x 152mn
467M	0.04, 0.05, 0.06, 0.07, 0.08, 0.10, 0.15, 0.20, 0.30, 1.00, 2.00, 3.00, 5.00mm		12.7 x 114mm
66	0.0015", 0.002", 0.0025", 0.003", 0.004", 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.022", 0.023", 0.024", 0.025"	26	1/2 x 3.1/32"
467	0.0015", 0.002", 0.003", 0.004", 0.006", 0.008", 0.010", 0.020", 0.030", 0.040", 0.075", 0.100", 0.200"	13	1/2 x 4.1/2"
66T	0.0015", 0.002", 0.0025", 0.003", 0.004", 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.022", 0.023", 0.024", 0.025"	26	1/2-1.4" x 3.1/32"

SCREW PITCH GAUGES



International Metric Standard - 60° Threads			
Cat No	Range of Pitches	No of Leaves	Pitches In MM
156M	0.25 - 2.50mm	28	0.25,0.30,0.35,0.40,0.45,0.50,0.55,0.60,0.65, 0.70,0.75,0.80,0.85,0.90,1,1.10,1.20,1.25,1.30, 1.40,1.50,1.60,1.70,1.75,1.80,1.90,2,2.50
159M	0.5 - 11.5mm		0.5,0.75,1,1.10,1.25,1.50,1.75,2,2.50,3,3.50,4, 4.50,5,5.50,6,6.50,7,7.50,8,8.50,9,9.50,10, 10.50,11,11.50

Whitworth Standard - 55° Threads

Cat No	TPI Range	No of Leaves	Threads Per Inch (TPI)
476	3.1/2 - 60	30	3.1/2,4,4.1/2,5,6,7,8,9,10,11,12,13,14,16,18, 19,20,22,24,25,26,28,30,32,36,40,44,48,50,60

America	American National - 60° Threads			
Cat No	TPI Range	No of Leaves	Threads Per Inch (TPI)	
155	2.1/4 - 28	27	2.1/4,2.3/8,2.1/2,2.5/8,2.3/4,2.7/8,3.3.1/4, 3.1/2,4,4.1/2,5,5.1/2,6,7,8,9,10,11,12,13,14, 16,18,20,24,28	
6	4 - 42	30	4,4.1/2,5,5.1/2,6,7,8,9,10,11,11.1/2,12,13,14, 15,16,18,20,22,24,26,27,28,30,32,34,36, 38,40,42	
474	4 - 80	28	4,4.1/2,5,6,7,8,9,10,11,11.1/2,12,13,14,16, 18,20,24,27,28,32,36,40,44,48,56,64,72,80	
472	4 - 84	51	First Corner 17 Leaves: 4,4.1/2,5,5.1/2,6,7, 8,9,10,11,11.1/2,12,13,14,15,16,18 Second Corner 17 Leaves: 20,22,24,26,27,28,30,32,34,36,38,40,42, 44,46,48,50 Third Corner 17 Leaves: 52,54,56,58,60,62,64,66,68,70,72,74,76,78, 80,82,84	

270 SERIES - TAPER GAUGE



- The gauge is made of quality tool steel 11mm (7/16") wide by 160mm (6.1/4") long and is accurately tapered throughout its entire length for quick and convenient measuring of slot widths, etc.
- One side is graduated from 0.010" to 0.150" in thousandths of an inch and the reverse side from 0.3mm to 4mm in one-twentieth of a mm (0.05mm).

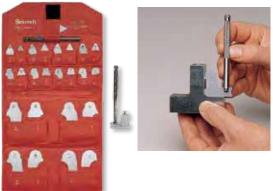
Cat No	Range	Graduation
270	0.3 - 4mm / 0.010 - 0.150"	0.05mm / 0.001"

269 SERIES - TAPER GAUGES



Cat No	Range	Graduation	Length	No of Leaves
269MA	2 - 12mm	0.02mm	64mm	10
269MB	12 - 25mm	0.0211111	70mm	13
269A	0.100 - 0.500"	0.001	2.1/2"	8
269B	0.500 - 1"	0.001"	2.3/4"	10

167 SERIES - RADIUS GAUGES

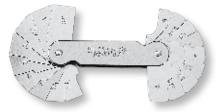


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S167MCHZ

Cat No	Radii Range	Increments	No of Leaves
S167MCHZ	0.5 - 15mm	0.5mm - 1mm	22

272 SERIES - RADIUS GAUGES



• An external and internal radius on each leaf permits both concave and convex surfaces to be measured.

22

 The leaves are specially shaped for use in any position at any angle to measure fillets and radii in corners or against shoulders.

Cat No	Radii Range	Increments	No of Leaves
272MA	0.75 - 5mm	0.25mm	18
272MB	5.5 - 13mm	0.5mm	
272A	1/32 - 17/64"	C 445 -	16
272B	9/32 - 33/64"	64ths	

667 SERIES - THICKNESS GAUGE "FEELER STOCK"



Metric gauges 300mm long.

Inch gauges 12" long.

Metric gauges ooornin long.	indit gauges 12 long.
Cat No	Thickness
667M-3	0.03mm
667M-4	0.04mm
667M-5	0.05mm
667M-6	0.06mm
667M-8	0.08mm
667M-10	0.10mm
667M-15	0.15mm
667M-20	0.20mm
667M-25	0.25mm
667M-30	0.30mm
667M-35	0.35mm
667M-40	0.40mm
667M-45	0.45mm
667M-50	0.50mm
667-1/2	0.0005"
667-1	0.001"
667-1.1/2	0.0015"
667-2	0.002"
667-2.1/2	0.0025"
667-3	0.003"
667-4	0.004"
667-5	0.005"
667-6	0.006"
667-7	0.007"
667-8	0.008"
667-9	0.009"
667-10	0.010"
667-11	0.011"
667-12	0.012"
667-13	0.013"
667-14	0.014"
667-15	0.015"
667-16	0.016"
667-17	0.017"
667-18	0.018"
667-19	0.019"
667-20	0.020"
667-21	0.021"
667-22	0.022"
667-23	0.023"
667-24	0.024"
667-25	0.025"
667-26	0.026"
667-27	0.027"
667-28	0.028"
667-29	0.029"



666 SERIES - FEELER STOCK ROLL IN DISPENSER



Metric rolls 7.6M length.

Imperial rolls 25' length.

Cat No	Thickness
666M-3	0.03mm
666M-4	0.04mm
666M-5	0.05mm
666M-6	0.06mm
666M-8	0.08mm
666M-10	0.10mm
666M-15	0.15mm
666M-20	0.20mm
666M-25	0.25mm
666M-30	0.30mm
666M-35	0.35mm
666M-40	0.40mm
666M-45	0.45mm
666M-50	0.50mm
666-1	0.001"
666-1.1/2	0.0015"
666-2	0.002"
666-2.1/2	0.0025"
666-3	0.003"
666-4	0.004"
666-5	0.005"
666-6	0.006"
666-7	0.007"
666-8	0.008"
666-9	0.009"
666-10	0.010"
666-11	0.011"
666-12	0.012"
666-13	0.013"
666-14	0.014"
666-15	0.015"
666-16	0.016"
666-17	0.017"
666-18	0.018"
666-19	0.019"
666-20	0.020"
666-21	0.021"
666-22	0.022"
666-23	0.023"
666-24	0.024"
666-25	0.025"

827 SERIES - EDGE FINDERS



Cat No	Description	Body Diameter	Contact Diameter
827MA	Cinalo End	10mm	6mm
827A	Single End	0.375"	0.200"
827MB	Davible Fael	10mm	6mm & Pointed Contact
827B	Double End	0.500"	0.200" & Pointed Contact

130 SERIES - BENCH LEVEL



Cat No	Size	Description
130	85mm / 3.3/8"	With Main Vial

98 SERIES - MACHINISTS' LEVELS



98-6

Cat No	Size	Description
98-4	100mm / 4"	Without Cross Test Vial
98-6	150mm / 6"	With Cross Test Vial
98-8	200mm / 8"	With Cross lest viai
98-12	300mm / 12"	With Single Plumb Vial and Cross Test Vial
98-18	450mm / 18"	With Double Plumb Vial and Cross Test Vial

3097 SERIES - PRECISION LEVEL



- Main vials have seven graduations on each side of the bubble.
- Auxiliary level vial shows lateral position and assists in horizontal setting.
- Special alloy iron used to obtain freedom from thermal effects.
- One division equals 0.02mm/M or (0.0005") of an inch per foot.

Cat No	Length
3097Z	200mm

18 SERIES - AUTOMATIC CENTRE PUNCHES WITH ADJUSTABLE STROKE



- These punches have a mechanism that automatically strikes a blow when downward pressure is applied.
- No hammer is required, making one hand always free to steady the work.

Cat No	Length	Diameter
18AA	100mm / 4"	11mm / 7/16"
18A	125mm / 5"	14mm / 9/16"
18C	130mm / 5.1/4"	17mm / 11/16"

Cat No	Length	Diameter At Top Of Tapered Pt
117AA	75mm / 3"	1.5mm / 1/16"
117A	100mm / 4"	2mm / 5/64"
117B		2.5mm / 3/32"
117C		3mm / 1/8"
117D		4mm / 5/32"
117E	125mm / 5"	6.5mm / 1/4"
S117PC	Set Of 5 Punches - 117AA, A, B, C, D In Protective Case	

117 SERIES - CENTRE PUNCHES

248 SERIES - LONG RANGE DRIVE PIN PUNCHES



- Long Range Drive Pin Punches are extralong, measuring 200mm (8").
- The bodies are 115mm (4.1/2") and the drive pin sections are 90mm (3.1/2") long.

Cat No	Length	Diameter Punch
248A	200mm / 8"	1/8" (3mm)
248B		3/16" (5mm)
248C		1/4" (6mm)
248D		5/16" (8mm)
248E		3/8" (9.5mm)
S248PC	Set of 5 Punches (1 of each	size) in Protective Vinyl Case

565 SERIES - DRIVE PIN PUNCHES



Cat No	Length	Diameter Punch
565A		1/16" (1.5mm)
565B		3/32" (2.5mm)
565C	4" (100mm)	1/8" (3mm)
565D		5/32" (4mm)
565E		3/16" (5mm)
565F		7/32" (5.5mm)
565G		1/4" (6mm)
565H		5/16" (8mm)
S565WB	Set of 8 Punches (1 of each size) in Red Round Plastic Box	

24



AM-2 - ANGLE METER



• Large, readable scale for accurate readings from 0-90° in any quadrant.

1620

- Magnetic base frees hands when used on ferrous surfaces.
- Measures any angle for pitch or slope. • Handy rise, run, angle and pitch
- information on back of tool.



1610 SERIES - KLEENSCRIBE LAYOUT DYE

- Deep, opaque blue makes lines stand out sharp and clear.
- Dries quickly, does not flake.

Cat No	Capacity
1610-4	4 oz (0.1 Litre)

Cat No	Dimensions	Cat No	Capacity
AM-2	125 x 125mm	1610-4	4 oz (0.1 Litre)





M1 SERIES - INDUSTRIAL QUALITY ALL PURPOSE LUBRICANT

• Prevents Rust: Protects metal against rust and corrosion damage by providing a molecular shield that locks to the metal.

110ml

- Penetrates: Deep-down penetration works quickly to free frozen nuts, bolts and metal parts.
- Lubricates: M1 is free of silicone, making it an excellent lubricant. Its ability to stand up to extreme temperatures makes it ideal all year round.
- Cleans: Removes grease, tar and grime from metal parts and painted surfaces. Cleans and polishes for lasting protection.
- Displaces Moisture: M1 is not soluble in water, therefore it gets under moisture to lift it away from the surface to be protected.



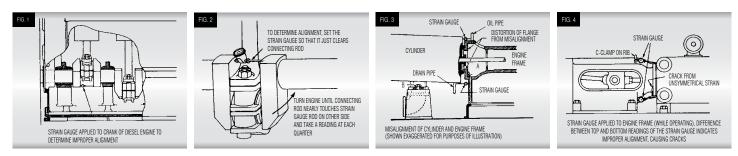


696 SERIES - CRANKSHAFT DISTORTION DIAL / STRAIN GAUGE

An ideal gauge for checking bearing alignment or shaft deflection without dismantling the engine. Used on all diesel engine shafts and the centre crankshafts on any type of engine or compressor, the gauge can also be applied as a strain gauge on engine frames while the engine is operating.

Cat No	Range	Graduation
696MZ	61 - 458mm	0.02mm
696Z	2.3/8 - 18"	0.001"

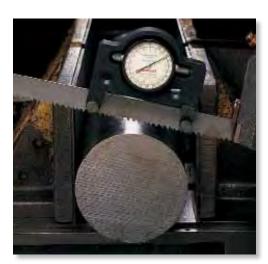




682 SERIES - SAW TENSION GAUGE

The Starrett Saw Tension Gauge will check for proper blade tension in either English or metric and is graduated both in pounds and kilograms.

The tension gauge can be read directly on either band saws of any type, or power hacksaws. It is graduated to read up to 60,000 PSI or 4,000kg per cm² and is furnished with instructions, including suggested tensions.



Cat No	Description
682EMZ	Saw Tension Gauge

7793 SERIES - POCKET LASER TACHOMETER KIT

The Pocket Laser Tachometer is a digital, battery operated portable optical tachometer that can operate up to 25 feet from a reflective target using a laser light source.

The powerful 32 function Tachometer/Ratemeter, Totaliser/Counter and Timer is programmable in both inch and metric rates. It has TTL compatible pulse output to trigger devices such as data collectors or stroboscopes.

Ergonomic design makes measurement of speed and RPM simple.

Cat No	Ran	nge	Accu	racy
	Optical (RPM)	Contact (RPM)	Optical	Contact
S7793Z	5 to 200,000	0.5 to 20,000	±0.01% of Reading	$\pm 0.05\%$ of Reading

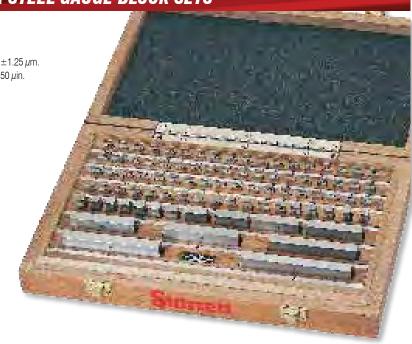




RECTANGULAR STEEL GAUGE BLOCK SETS

- All gauge blocks are manufactured from a high grade steel.Etched, unique serial numbers are
- Tolerance class for B and W
- Metric sets have a tolerance of $\pm 1.25 \,\mu\text{m}$. - Inch sets have a tolerance of $\pm 50 \,\mu\text{in}$.





Cat No	Tolerance Class	No of Blocks in Case	Nominal Size	Steps	Gauge Blocks
3047.0	0	- 47	1.0005mm 1.01 through 1.19mm 1.2 through 1.9mm	- 0.01mm 0.1mm	1 19 8
3047.1	1	4/	1 through 10mm 20 through 10mm	1mm 10mm	8 10 9
3088.0	0		1.0005mm 1.001 through 1.009mm	- 0.001mm	1 9
3088.1	1	- 88	1.01 through 1.49mm 0.5 through 9.5mm 10 through 100mm	0.01mm 0.5mm 10mm	49 19 10
RS 88.MB	В	- 88	0.5mm 1.0005mm 1.001 through 1.009mm	- - 0.001mm	1 1 9
RS 88.MW	W		1.01 through 1.49mm 1 through 9.5mm 10 through 100mm	0.01mm 0.5mm 10mm	49 18 10
RS 112.MB	В		0.5mm 1.0005mm 1.001 through 1.009mm	- - 0.001mm	1 1 9
RS 112.MW	W	112	1.01 through 1.49mm 1 through 24.5mm 25 through 100mm	0.01mm 0.5mm 25mm	49 48 4
RS 81.B	В		0.1001" through 0.1009" 0.101" through 0.149"	0.0001" 0.001"	9 49
RS 81.W	W	- 81	0.050" through 0.950" 1" through 4"	0.050" 1"	19 4

Cat No	Tolerance Class	Description	
RS 81.B RS 88.MB RS 112.MB	В	Inch System (RS 81.B) uncertainty of measurement (k=2): U = 6 + L where L is in inches, but U not less than 7 min. Metric Systems (RS 88.MB & RS 112.MB) uncertainty of measurement (k=2): U = $0.15 + .001L$ where L is in millimeters, but U not less than 0.18 mm.	
RS 81.W RS 88.MW RS 112.MW	W	Inch System (RS 81.W) uncertainty of measurement (k=2): 10 μ in. Metric Systems (RS 88.MW & RS 112.MW) uncertainty of measurement (k=2): U = 0.25 μ m.	

698 & 699 SERIES - VIDEO BORESCOPES





Starrett 698 and 699 Video Borescopes are ideal for inspection of inaccessible areas. Applications include viewing hard-to-see areas during machining operations, inspection of internal parts of engines and machinery, A/C systems and interior structures of walls.

- Camera has a tempered glass lens and durable, corrosion resistant stainless steel body.
- Flexible, water resistant conduit with high quality metal tip.
- Detachable 1m (39.4") conduit (other lengths available by special order).
- Bright LED illumination.

Starrett

- High quality image.
- Camera IP67 and body IP65 protection against water, dirt and dust.



Model Specifications		699-5.5	699-10	698-10
	Diameter	5.5mm / 0.217"	10mm / 0.394"	10mm / 0.394"
	Focal Distance	20 - 70mm / 30 - 60mm / 0.79 - 2.76" 1.18 - 2.36"		30 - 60mm / 1.18 - 2.36"
Camera	FOV			
Probe	Resolution	720 x 480 (D1)	720 x 480 (D1) 640 x 480 (VGA)	
	Light Source	White LCD x4	White LCD x6	White LCD x6
	Material	Stainless Steel		
	IP Protection			
Conduit	Length, Type	1m / 39.4" Flexible	1m / 39.4" Gooseneck	1m / 39.4" Gooseneck
т.,	Operating		0 - 50°C / 32° - 122°F	
Temperature	Storage			
	Size	89mm /	61mm / 2.4"	
Display	Photo Res.	720 x 480 (D1) & 360 x	N/A	
Diopiay	Video Res.	720 x 480 (D1) & 30fps@360 Recording 30fp	480(W) x 230(H)	
Video Output			NTSC / PAL	
Memory		Micro SD Card Slot		N/A
Data Output		USB 2.0		N/A
D	Power	4 x AA Batteries, 5V DC & 12V DC		4 x AA Batteries, 5V DC
Power Source	Charge Duration	3 H	4 Hours	
Size &	Weight)	
Weight	Dimensions	L: 225mm	mm (2.60")	
Accessories I	Included		Cable, USB Cable, 2GB Micro d, Case	Owner Manual, Video Output Cable, Case

Cat No	Cat No Description	
699-5.5	699-5.5 Video Borescope, Manual, Video Output Cable, USB Cable, 45° Mirror, 2GB Micro SD Card, Case	
699-10	Video Borescope, Manual, Video Output Cable, USB Cable, 2GB Micro SD Card, Case	10mm
698-10	Video Borescope, Manual, Video Output Cable, Case	10mm

3812 SERIES - ULTRASONIC THICKNESS GAUGE

Starrett 3812 Ultrasonic Thickness Gauge is a menu driven, multfunctional tester with basic measurement capabilities.

This gauge is designed to measure the thickness of metallic and non-metallic materials such as aluminium, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor, as long as it has parallel top and bottom surfaces. The 3812 will accurately display readings in either mm or inch after a simple calibration to a known thickness or sound velocity.

- Upper/Lower limit preset alarm.
- Measurment and scanning capabilities.
- Extended memory.
- 20 memory groups (100 files/group).
- Minimum display unit: 0.01mm (0.001") selectable.
- 0.040-12.0" measuring range (in steel with standard probe).
- 3280-32805ft/s (1000-9999m/s) sound velocity range.
- 5MHz Frequency.
- 4Hz update range. USB Output.
- Power supply: Two 3V AA alkaline batteries.
- Accuracy: \pm (0.5% thickness + 0.001").
- Dimensions: 150 x 74 x 33mm.
- Weight: 245gms.



Cat NoDescription312Utrasonic Thickness Gauge

3813 SERIES - COATING THICKNESS GAUGE

The 3813 is capable of measuring the thickness of non-magnetic materials, (paint, plastic, enamel, copper, zinc, aluminium and chrome) on magnetic materials. It is often used to measure the thickness of a galvanized layer, lacquer, porcelain, phosphide, copper tile, aluminium tile and some alloy tiles, etc. The 3813 is also capable of measuring the thickness of non-magnetic coatings on non-magnetic metals. It is used on anodizing, varnish, paint, enamel, plastic coatings and powder applied to aluminium, brass and non-magnetic stainless steel.

- Measuring range: 0-40mils (0-100µm) max.
- Resolution: 0.1 μ m/0.1mils (0-99 μ m) or 1 μ m (over 100 μ m).
- Guaranteed tolerance (after one-point calibration): ±1-3%n or 2µm (whichever is greater).
- Minimum measuring area: 5 x 5mm (0.20" x 0.20").
- Minimum radius of curvature: Convex: 3mm (0.12"); Concave: 30mm (1.2").
- Minimum substrate thickness: Ferrous: 0.5mm (20mils); Non-ferrous: 50µm (2mils).
- Zero calibration.
- Foil calibration.
- Maximum surface temperature of test object: 302°F (maximum contact time two seconds).
- Power source: Four AA batteries.
- Includes steel and aluminium substrate samples.
- Includes four calibrated thickness samples.
- Dimensions: 161 x 69 x 32mm.
- Weight: 260gms.



Cat No	Description
3813	Coating Thickness Gauge



3805B SERIES - ELECTRONIC DUROMETER

Starrett 3805B measures Shore A values for a wide variety of soft materials including, rubber, soft vulcanised (i.e. tyre), natural nitrile, elastomeretric materials (rubber and rubber-like) GR-S, GR-1, neoprene, thiokol, flexible polyacrylic esters. Other soft materials including wax, felt, leather etc.

- Extra large LED display.
- Simple 3 button control.
- Auto HOLD feature.
- Measuring range: 0-100 HSA. • Deviation: <1% H.
- Resolution: 0.5 H.
- Accurate and repetitive deviation = 20~90 HSA.
- HSA <+/ 1grade.





3810A SERIES - DIGITAL PORTABLE HARDNESS TESTER

The Starrett 3810A is a state-of-the-art, digital instrument designed to test the hardness of large hard metal parts. Loaded with useful functions such as USB output and a built in printer, the 3810A is an ideal choice for fast accurate hardness testing.

This versatile tester can perform tests that easily convert to the most popular hardness scales, including Rockwell, Brinell, Vickers and Shore.

The tester is easy to use, simply load the impact body, place the impact body on your test piece then, push the button to begin testing.

The 3810A is designed to test large hard parts. For example, tool steel should be close to 1" thick of solid material. The 3810A comes with a D impact device, calibration block, cleaning brush, manual and carrying case.

- Accuracy: ±0.5% (referred to L=800).
- Repeatability accuracy: ± 4L units L=Leeb.
- Measuring range: 200-960 HL For steel and cast steel, alloy tool steel, stainless steel, gray cast iron, spheroidal iron, cast aluminium, brass, bronze, wrought copper alloy.
- Operating temperatures: 5-104°F
- Dimensions: 150 x 74 x 32mm (5.96" x 2.938" x 1.270").
- · Weight: 245gms.
- Kit Includes: 3810A Tester, impact device D, calibration test block, cleaning brush, manual and custom carry case.
- Available options include DC, D+15, DL, G, C impace devices and special support rings



Cat No	Description
3810A	Digital Portable Hardness Tester in Case



3811A SERIES - PORTABLE HARDNESS TESTER

The Starrett 3811A is a state-of-the-art, digital portable hardness tester. The 3811A is designed to test hardness of large hard metal parts.

The 3811A combines fast test speeds coupled with ample memory and output. It performs tests that easily convert to most popular hardness scales such as Rockwell, Brinell, Vickers and Shore.

- Accuracy: ±0.5% (referred to L=800).
- Repeatability accuracy: ± 4L units L=Leeb.
- Measuring range: 200-960 HL For steel and cast steel, alloy tool steel, stainless steel, gray cast iron, spheroidal iron, cast aluminium, brass, bronze, wrought copper alloy. Tool steel should be 25.4mm (1") thick solid material or larger.
- Operating temperatures: 5-104°F
- Dimensions: 150 x 74 x 32mm (5.96" x 2.938" x 1.270").
- · Weight: 245gms.

Cat No	Description
3811A	Portable Hardness Tester in Case



3814 SERIES - ANALOGUE BENCH HARDNESS TESTER

The 3814 Hardness Tester provides reliable Rockwell Hardness values on all types of metal and alloys, hard or soft and in many shapes. This reliable bench hardness tester has a high quality casting, is ergonomically designed for easy operation and is engineered to ensure accurate results.

It is an ideal basic hardness solution, economically priced to suit a variety of lab, workshop, toolroom and inspection department applications. The 3814 conforms to ASTM E-18 standard.

The tester is furnished with a diamond indentor, a 1.6mm (1/16") ball indentor, three certified test blocks, four test tables - 149mm (5.87") and 63.5mm (2.5") flat anvils, 15.9mm (5/8") spot anvil and a standard vee anvil and accessory case.

• Ideal basic hardness testing for many

- Ability to handle Rockwell Scales A through H and K.
 Stable cast iron construction.
 - typical applications.

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Technical Specifications				
Major Load	A: 60Kgf, B: 100Kgf, C: 150Kgf			
Minor Load	10Kgf			
Maximum Test Height	169.9mm (6.69")			
Results Display	Analogue - Dial Gauge			
Test Force Application	Dead Weight Applies Test Force			
Test Force Control	Hydraulic Dashpot System			
Throat Depth	168mm (6.6")			
Unit Height / Width / Depth	762 x 216 x 508mm (30" x 8.5" x 20")			



Cat No	Description
3814	Analogue Bench Hardness Tester

3815 SERIES - TWIN ANALOGUE BENCH HARDNESS TESTER

The Starrett 3815 Twin Analogue Hardness Tester features state-of-the-art design and rugged construction. It is engineered to provide highly sensitive, accurate readings and excellent repeatability in all Rockwell and Superficial Rockwell hardness scales.

The 3815 is ideal for heat treatment facilities, tool rooms, workshops, laboratories and inspection labs.



- Direct analogue dial reading.
- Advanced design provides Rockwell and Rockwell Superficial testing.
- Engineered to provide highly sensitive and accurate readings.
- Conforms to ASTM E-18.
- Tests Rockwell Scales: A, B, C, D, E, F, G, H, K, L, M.
- Tests Superficial Rockwell Scales: HR15N, HR15T, HR30N, HR30T, HR45N, HR45Ts.
- Includes a diamond conical indentor, 1/16" ball indentor, HRC, HRB, HR15N, HR30N and HR45T test blocks, 150mm (5.87") test table, 63mm (2.5") flat anvil, standard vee anvil, accessory case and dust cover.

Technical Specifications				
Major Load	60Kgf / 100Kgf / 150Kgf			
Minor Load	10Kgf Minor Load - Superficial 3Kgf			
Maximum Test Height	15.2mm (6.0")			
Results Display	Dual Scale Dial			
Test Force Application	Dead Weight			
Test Force Control	Manual			
Throat Depth	14mm (5.5")			
Unit Height / Width / Depth	66 x 46.2 x 23.9mm (26" x 18.2" x 9.4")			
Unit Weight	113Kgs			

Cat No	Description
3815	Twin Analogue Bench Hardness Tester

3816 SERIES - DIGITAL BENCH HARDNESS TESTER

The microprocessor controlled 3816 Bench Hardness Tester offers easy, fully automated testing procedures and provides highly sensitive and accurate readings.

The 3816 can measure the full regular Rockwell Scales according to ASTM and SAE guidelines. It accommodates all types of hard or soft metals and alloys, in numerous configurations. Overall, the 3816 is packed with features and provides excellent value. The tester is furnished with a diamond indentor, a 1.6mm (1/16") ball indentor, three certified test blocks, four test tables - 149mm (5.87") and

63.5mm (2.5") flat anvils, 15.9mm (5/8") spot anvil and a standard vee anvil, and an accessory case.

Automated routines reduce operator involvement and speed measurements.

tarrett

- Large, easy-to-view LED panel displays proper load setting.
- Programmable scale conversions, dwell times and tester counting.

Results Display

Test Force Application

Unit Height / Width / Depth

Test Force Control

Throat Depth

Unit Weight

- Sample averaging is automatically
- calculated. • With data output.

Digital Readout

Dead Weight Applies Test Force

Motorised

168mm (6.6")

711 x 226 x 498mm (28" x 8.9" x 19.6")

85Kqs

Convenient mini-printer for outputting readings.

times and tootor ocariting.	
Technical Specifications	
Major Load	A: 60Kgf, B: 100Kgf, C: 150Kgf
Minor Load	10Kgf
Maximum Test Height	169.9mm (6.69")



_	Cat No	Description
	3816	Digital Bench Hardness Tester

TEST BLOCKS & ACCESSORIES FOR HARDNESS TESTERS

Starrett blocks can be used to test Rockwell, Brinell or Vickers scales. They are available in steel, brass and aluminum. Each block is serialized, with a certificate detailing the environmental conditions used to test the block.

Actual readings are given, with the averages of these readings: min. reading, max reading and a repeatability figure. The blocks are calibrated according to ASTM E-18 standards, ANSI (NCSL) Z540-1, (ISO) 10012-1, ISO/IEC 17025 and Mil-std 45662A.

Starrett hardness test blocks are manufactured from square steel or brass plates, as opposed to the more common round bar stock. The use of plate gives a more accurate and consistent surface for inspection. Metallurgical tests have proved that during the production of round bar stock, suspended carbides in the mix migrate to the center of the rod.

The scientific name for this condition is carbide segregation and results in different readings being found in the center of a rod rather than at its outer edges. Some manufacturers remedy this situation by removing the centers from their blocks.

Hardness test blocks are designed to be used only on one side and the indents should be more than .010" from the centers of two indents or no closer to the block's edge than .040". Calibration kits are also available from Starrett. No facility with a hardness tester in use should be without a calibration kit. These kits come with from 3 to 20 calibrated test blocks and the serialized penetrator that was used to inspect each of the blocks in the set. When a discrepancy is detected in a tester, these kits allow you to determine the direction to proceed to resolve the issue.



Cat No	Description
PT05272	HRC 3-Block Master Calibration Kit
PT05273	HR30N 3-Block Master Calibration Kit
PT05276	HRB 3-Block Master Calibration Kit
PT05277	C&B Scale 20-Block Master Calibration Kit
PT05278	C&30N Scale 6-Block Master Calibration Kit

PT05272 HRC 3-Block Master Calibration Kit

TEST BLOCKS & ACCESSORIES FOR HARDNESS TESTERS

В

С

А

Variety of Rockwell and Brinell test blocks at a variety of hardness levels. (A) Aluminum Brinell, (B) Steel Brinell, (C) Vickers, (D) Rockwell, (E) 187.5kg./2.5mm Brinell, (F) Extra-Soft Rockwell and (G) Brass Rockwell.

Rockwell Test Blocks		
Cat No	Description *	
PT05050	RC63 Test Block	
PT05051	RC60 Test Block	
PT05052	RC55 Test Block	
PT05053	RC50 Test Block	
PT05054	RC45 Test Block	
PT05055	RC40 Test Block	
PT05056	RC35 Test Block	
PT05057	RC30 Test Block	
PT05058	RC25 Test Block	
PT05059	RB90 Test Block	
PT05060	RB80 Test Block	
PT05061	RB70 Test Block	
PT05062	RB60 Test Block	
PT05063	RB50 Test Block	
PT05064	RB40 Test Block	
PT05065	RB30 Test Block	
PT05067	RB20 Test Block	
PT05068	RB10 Test Block	
PT05069	RA80 Test Block	
PT05091	RA70 Test Block	
PT05092	RA60 Test Block	
PT05100	RF100 Test Block	
PT05101	RF90 Test Block	
PT05102	RF80 Test Block	
PT05103	RF70 Test Block	
PT05104	RF60 Test Block	
PT05105	RF50 Test Block	
PT05106	RE100 Test Block	
PT05107	RE90 Test Block	
PT05108	RE80 Test Block	
PT05112	RE70 Test Block	
PT05113	RE60 Test Block	
PT05114	RE50 Test Block	
PT05115	HR30N80 Test Block	
PT05122	HR30N70 Test Block	
PT05123	HR30N60 Test Block	
PT05124	HR30N50 Test Block	
PT05125	HR30N40 Test Block	
PT05127	HR30T80 Test Block	
PT05128	HR30T70 Test Block	
PT05129	HR30T60 Test Block	

Rock	Rockwell Test Blocks		
Cat No	Description *		
PT05130	HR30T50 Test Block		
PT05177	HR30T40 Test Block		
PT05178	HR30T30 Test Block		
PT05179	HR30T20 Test Block		
PT05180	HR30T10 Test Block		
PT05181	HR15N90 Test Block		
PT05182	HR15N80 Test Block		
PT05183	HR15N70 Test Block		
PT05184	HR15T90 Test Block		
PT05185	HR15T80 Test Block		
PT05186	HR15T70 Test Block		
PT05187	HR15T60 Test Block		
PT05188	HR45T70 Test Block		
PT05189	HR45T60 Test Block		
PT05191	HR45T50 Test Block		
PT05192	HR45T40 Test Block		
PT05193	HR45T20 Test Block		
PT05194	HR45T10 Test Block		
PT05195	HRH90 Test Block		
PT05196	HRH80 Test Block		
PT05197	HRR120 Test Block		
PT05198	HR30Y Test Block		
PT05199	HRM Test Block		
PT05200	HR15W Test Block		

Brinell Test Blocks	
Cat No	Description
PT05257	3000kg High Brinell Test Block
PT05258	3000kg Low Brinell Test Block
PT05259	500kg High Brinell Test Block
PT05260	500kg Low Brinell Test Block



D



Standard and special anvils.

Anvils & Table		
Cat No	Description	
PT05267	Pedestal Anvil	
PT05268	2-1/2" Flat Anvil	
PT05269	Small "V" Anvil	
PT05270	Large "V" Anvil	
PT05271	8" Anvil Testing Table	

F

Vickers/Knoop and (G) Newage-type indentor styles are also shown - contact Starrett for further information.

Penetrators	
Cat No	Description
PT05245	"C" Regular
PT05246	Indentron
PT05247	Versitron
PT05248	"N" Regular
PT05249	1/16" (1.6mm) Ball Unit
PT05250	1/8" (1.7mm) Ball Unit
PT05251	1/4" (6.4mm) Ball Unit
PT05252	1/2" (12.7mm) Ball Unit
PT05253	1/16" (1.6mm) Carbide Ball Unit, with Certification
PT05254	1/8" (1.7mm) Carbide Ball Unit, with Certification
PT05255	1/4" (6.4mm) Carbide Ball Unit, with Certification
PT05256	1/2" (12.7mm) Carbide Ball Unit, with Certification
PT05261	Heavy Load, Vickers 5kg Load
PT05264	Heavy Load Indentor
PT05265	Min. Brinell 2 1/2mm Ball
PT05266	Min. Brinell Block 187 1/2kg, 2-1/2mm Ball



SR100 - SURFACE ROUGHNESS TESTER

The SR100 portable surface roughness tester is powerful, accurate and easy to use. The SR100 can measure roughness almost anywhere. It is ideal for checking large components, structures, auditing batch production prior to shipment and production line process control. The innovative SR100 separates into two pieces to measure surface roughness.

The bottom half of the SR100 contains the traverse mechanism and stylus pickup assembly which is placed on the surface to be measured. Its wide base ensures stability.

The upper half includes a large LCD display, start button, mode and parameter buttons, comfortably hand-held for easy operation and clear viewing.

A diamond stylus is drawn across the part, the motorised traverse mechanism is cam driven to ensure that the correct horizontal distance is traveled.

Vertical movement of the stylus as it travels across peaks and valleys is detected by a piezoelectric pickup which converts the mechanical movement of the stylus into an electrical signal. The electrical signal is digitized and sent to a microprocessor where the parameters are calculated using standarised algorithms.

Technical Specifications	
Gauge Range	200µm / 0.008µin
Accuracy	5% of Reading + 0.1µm / 4µin
Pick Up Type	Piezoelectric
Gauge Force	200mg
Stylus	Diamond, Radius 5µm / 200µin
Cut Off Value	0.8mm / 0.03" ±15%
Filter	2CR
Traverse Length	5mm / 0.2"
Traverse Speed	2mm/Sec, 0.8"/Sec
Display Units	μm / μin
Battery Life	5,000 Operations Minimum
Dimensions	125 x 80 x 38mm / 4.92 x 3.15 x 1.5"
Weight	200gms
Component Dimensions & C	ondition
Min Bore	65mm / 2.6"
Min Diameter	25mm / 1"
Max Temperature	35°C / 95°F
Nominal Operating Condition	15
Temperature	20°C / 68°F
Humidity	0 - 80% Non Condensing
Storage Conditions	
Temperature	0 - 50°C / 32 - 122°F
Humidity	0 - 80% Non Condensing
Parameter Results	
Ra, Rz, Rv, Rp, Rt	

Parameters	Range	Resolution
Ra	40µm / 1600µin	0.01µm / 0.4µin
Rz, Rv, Rp, Rt	199µm / 7800µin	0.1µm / 4µin





The SR100 uses an infra-red (IrDA) link between the upper and lower units to provide remote, cable free operation up to a distance of one metre (40").

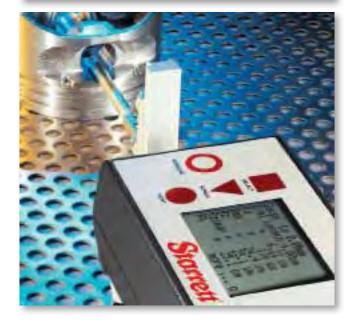


Cat No	Description
SR100	Two Piece Surface Roughness Tester

SR200 - SURFACE ROUGHNESS TESTER





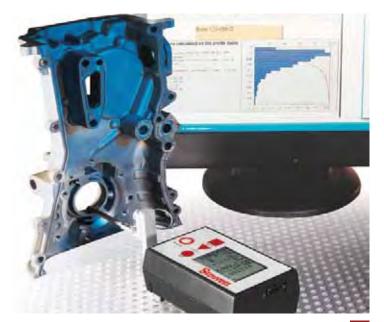




The Starrett SR200 is a full featured, powerful and versatile surface roughness tester. It can be used either freestanding (on horizontal, vertical or even inverted surfaces) or bench mounted with fixturing for batch measurement and laboratory applications. It is battery powered for portability, with an AC adapter available.

The SR200 is truly portable with no PC or printer cables in the way of measurements - take it to wherever you need to take measurements, save up to 100 batch readings and then download to your PC or printer at your convenience.

MEASUREMENT PARAMETERS Amplitude Parameters - Measures Vertical Characteristics Of Surface Deviations Parameters Description Ra Arithmetic Mean Deviation Rsk Skewness Average Peak To Valley Height Rz Rt Total Height Of Profile Rp Max Profile Peak Height Rz1max Max Peak To Valley Height Spacing Parameters - Measures Horizontal Characteristics Of Surface Deviations Parameters Description RPc Peak Count RSm Mean Width Of Profile Elements Hybrid Parameters - Combinations Of Spacing & Amplitude Parameters Parameters Description Rmr Material Ratio Rda R∆a Arithmetic Mean Slope



SR200 - SURFACE ROUGHNESS TESTER

TalyProfile Lite Software Included with the SR200

The SR200 includes TalyProfile Lite, Windows software with powerful analysis features.

After receiving data from the SR200, TalyProfile Lite can immediately analyze, print, export as a .txt or .csv file, or save it as a document that can be reopened and used as a template for future measurements.

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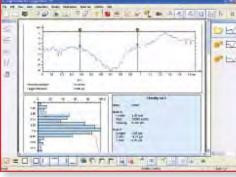
Outstanding Graphics

TalyProfile Lite provides clear on screen profile images. Users can take basic measurements and create a full report using the software's detailed analysis options and publishing capabilities.

In-Depth Analysis

Time-saving Templates

Profiles can be levelled and zoomed to remove unwanted features or defects from the analysis. Distance measurement between features and areas of a profile, step height, area of a hole and peak can all be easily displayed, graphically and numerically.



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A sequence of analysis functions can be saved as a "template" and applied to future measurements, turning detailed reporting tasks into routine documents.

Presentation

TalyProfile Lite includes professional presentation capabilities. Graphs, profiles and results can be arranged and printed within TalyProfile and also has the flexibility for export to other presentation software.

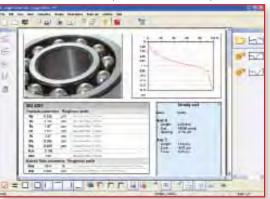
Easy Upgrade Path

TalyProfile Lite provides an easy upgrade path to the more advanced Silver and Gold versions. TalyProfile Silver has all functions typically used for shopfloor inspection. TalyProfile Gold includes complete laboratory analysis functions.



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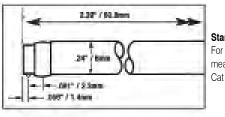
TalyProfile Features	Lite	Silver	Gold
Acquisition interface	x	x	х
Multiple file format reports	x	х	x
Graphical display	x	х	x
Desktop publishing templates	x	х	х
Document page viewer	x	х	x
Levelling	х	х	х
Symmetries	х	х	х
Zoom	х	х	x
Distance measurement	х	х	х
Profile curves	х	х	х
Area of a hole / peak	х	х	x
Abbott-Firestone Curve	х	х	х
Mini Documents		х	х
Save Profile (export data)		х	х
Basic & 2D file formats		х	х
Tolerance limits		х	х
Join Two Profiles			х
Resampling			х
Form removal			х
Retouch profile points			х
Filtering by FFT			х
Fractal analysis			х
R & W Motifs (ISO 12085)			х
Rk Calculation of Profiles			х
Graphical RK Parameters			х
Step height measurement			х
Frequency spectrum			х
Morphological Envelopes			х
Thresholding			х
Power spectrum density			х



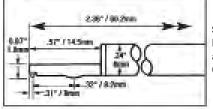
SR200 - SURFACE ROUGHNESS TESTER

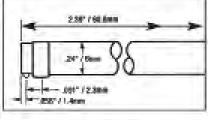
Pickups

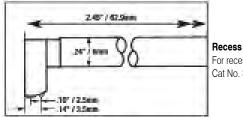
An extensive range of pick-ups are available to meet a variety of measurement requirements.



Standard Pickup For general surface roughness measurement. Cat No. SR-112-1502







Small Bore Pickup For general use in small bores, grooves and on narrow surfaces. Cat No. SR-112-1504

Right Angle Pickup For measurement at right angles to the direction of traverse. Cat No. SR-112-1505

Recess Pickup For recess to a depth of 5.7mm / 0.23" Cat No. SR-112-1506

Technical Specifications			
Pickup			
Gauge Range	300µm / 0.012µin		
Resolution	0.01µm / 0.04µin		
Accuracy	2% of Reading + LSD µm		
Pick Up Type	Inductive		
Gauge Force	150 - 300mg / 0.005 - 0.01oz		
Diamond Stylus	Tip Radius $5\mu m$ / 200 $\mu in,$ unless otherwise specified		
Instrument			
Cut Off Value	0.25, 0.8, 2.5, 8mm / 0.01, 0.03, 0.3"		
Filter	2CR or Gaussian (Selectable)		
Traverse Length	0.25 - 25mm / 0.01 - 0.98"		
Traverse Speed	1mm/Sec / 0.04"/Sec		
Display Units	μm / μin		
Data Ouput	RS232		
Power	9V Battery or Optional Power Supply		
Dimensions			
Overall	127 x 85 x 60mm / 5 x 3.35 x 2.4"		
Weight	450gms / 1lb		
Max Temperature	35°C / 95°F		
Nominal Operating Condition	IS		
Temperature	5 - 40°C / 41 - 104°F		
Humidity	0 - 80% Non Condensing		
Storage Conditions			
Temperature	0 - 50°C / 32 - 122°F		
Humidity	0 - 80% Non Condensing		
Storage Capacity			
Capacity	100 Measurement Results		
Parameters			
Ra, Rz, Rt, Rp, Rmr, Rpc, Rsm	, Rz1max, Rsk, Rda		

Cat No	Description
SR200	Surface Roughness Tester
SR-112-1510	200mm / 7.875" Extension Rod With Lead
SR-112-1534	Reference Standard
SR-112-1517	Support Stand
SR-112-2693	Column & Stand
SR-112-1502	Standard Pickup With 5µm / 200µ" Stylus
SR-112-1503	Standard Pickup With 10µm / 400µ" Stylus
SR-112-1504	Small Bore Pickup
SR-112-1505	Right Angle Pickup
SR-112-1506	Recess Pickup
SR-112-3680	TalyProfile Gold - 2D Analysis Software c/w Cable
SR-112-3681	TalyProfile Silver - 2D Analysis Software c/w Cable
SR-K509-1578	TalyProfile 2.5M / 8' Cable
SR-K509-1820	TalyProfile 1.5M / 5' Cable
SR-112-3530	Power Adapter UK
SR-112-3531	Power Adapter 110V US
SR-112-3532	Power Adapter 230V EURO



METROLOGY SOLUTIONS























Interpart of the second seco	CAT NO	DESCRIPTION	PAGE	CAT NO	DESCRIPTION	PAGE
2 Angle Meirr 25 611 Minit Magneice Base Indicator Moldari 19 3 Combination Seis 20 667 Thickness Gauge Tecler Stock*10 22 3 Munchic Centre Punches 24 682 Saw Traision Sauge 28 6 Dial Indicators 18 682 Saw Traision Sauge 28 6 Precision Steel Squares 21 700 Inside Micrometer Ields 13 7 Precision Iterent Sauge Micrometer Teals 15 79 Video Borescope 28 66 Thickness Sauge Block Sets 27 750 IPER Electronic Digital Micrometer 131 7 Rectanguira Steel Gauge Block Sets 27 750 IPER Electronic Digital Micrometer 161 8 Machanguira Steel Gauge Block Sets 27 79 IERetronic Digital Micrometer 171 100 Surface Scuiphness Teater 28 31 Small Hole Gauges 161 117 Centre Punches 28 31 Small Hole Gauges 162 <td< td=""><td>1</td><td>M1 All Purpose Lubricant</td><td>25</td><td>660</td><td>Magnetic Base Indicator Holder</td><td>19</td></td<>	1	M1 All Purpose Lubricant	25	660	Magnetic Base Indicator Holder	19
Screw Pich Gauge 21 660 Feeler Stock Roll in Depenser) 23 18 Automatic Centre Punches 24 647 Thickness Gauge Techns Gauge 28 19 Dial Indicators 18 699 Conschaft Distortion Dial / Strain Gauge 28 60 Thickness Gauge Micrometer Heads 13 699 Video Borescope 28 61 Long Range Micrometer Heads 13 691 Video Borescope 28 63 Phoin Internal Bore Gauge Micrometer Sets 17 72 Electronic Digital Micrometer Heads 13 73 Phoin Internal Bore Gauge Block Sets 27 75 IPFC Electronic Digital Micrometer 16 74 Rectangular Steel Gauge Block Sets 27 75 IPFC Electronic Digital Micrometer 16 74 Rectangular Steel Gauge Block Sets 27 75 IPFC Electronic Digital Micrometer 16 74 Rectangular Steel Gauge Block Sets 27 75 IPFC Electronic Digital Micrometer 28 75 Rectangular Steel Gauge Block Sets 27 1201	2	Angle Meter	25	661	•	19
9 Combination Sents 20 647 Thickness Gauge Treater Stock? 22 25 Dial Indicators 18 642 Saw Traison Gauge 28 26 Dial Indicators 18 649 Crankshart Distortion Dial / Stain Gauge 28 26 Long Range Micrometer Heads 13 649 Video Borescope 28 26 Johnt Internal Bore Gauge Micrometer Sets 15 749 Electronic Digital Micrometer 16 13 27 Johnt Internal Bore Gauge Block Sets 27 750 IPF Z Electronic Digital Micrometer 101 28 Machinasis Levels 27 750 IPF Z Electronic Digital Micrometer 101 29 Natione Rougher Block Sets 27 750 IPF Z Electronic Digital Micrometer 101 20 Surface Nonlinker Micrometers 24 23 Ubukar Inside Micrometer 101 117 Centre Punches 24 82 Biole Gauges 101 118 Adjustable Ponallels 27 799 Electronic Digital Micrometer 1	6	-	21	666		23
IB Automatic Contrie Punches IA 620 Saw Transion Gauge 28 60 Procision Steel Squares 20 698 Video Borescope 28 61 Long Range Micrometer Heads 13 699 Video Borescope 28 63 Diard Range Micrometer Heads 13 77 F20 Inside Micrometer 13 78 S Point Inernal Bore Gauge Block Sets 27 720 Electronic Digital Micrometer Heads 13 82 Point Bore Gauges Block Sets 27 730 Electronic Digital Micrometer 100 98 Machinisti Levelis 28 735 IP67 Electronic Digital Calipors 67 112 Rectangular Steel Gauge Block Sets 27 730 Electronic Digital Calipors 67 113 Rectangular Steel Gauge Block Sets 27 730 Electronic Digital Calipors 67 114 Solit-Rod Inside Micrometers 14 831 Small Hole Gauges 76 114 Solit-Rod Inside Micrometers 120 Dial Calipors 76 <td>9</td> <td>-</td> <td>20</td> <td>667</td> <td></td> <td>22</td>	9	-	20	667		22
25 Dial hoticators 18 64 Cranshalt Diatorion Dial Strain Gauge 28 64 Long Range Morometer Heads 13 69 Video Borescope 28 64 Thickness Gauge Morometer Sets 15 740 Electronic Digital Morometer 31 84 Norin Internal Bore Gauge Micrometer Sets 15 740 Electronic Digital Morometer 31 84 Roctangular Steel Gauge Block Sets 27 75 IPOT Electronic Digital Morometer 100 84 Roctangular Steel Gauge Block Sets 27 75 IPOT Electronic Digital Micrometer 100 95 Mardac Koughness Tester 34 78 IPOT Electronic Digital Micrometers 66 100 Surface Koughness Tester 34 78 IPOT Electronic Digital Micrometers 123 110 Centre Punches 24 82 Tobular Inside Micrometers 124 121 Centre Punches 24 120 Dial Calipers 66 133 Bench Level 23 Stanil Assatter 124	18	Automatic Centre Punches	24	682	-	26
60 Procession Stead 22 63 Videa Borescope 28 63 Long Range Micrometer Heads 13 699 Videa Borescope 28 63 Thickness Gauge Micrometer Sets 15 740 Electronic Digital Micrometer Heads 13 78 3 Faint Internal Bore Gauge Micrometer Sets 27 722 Electronic Digital Micrometer Heads 13 82 Dial Bore Gauges Gauge Stock Sets 27 750 IPOF Electronic Digital Micrometer 10 98 Machinist: Levels 23 756 IPOF Electronic Digital Micrometer 6 112 Rectangular Steel Gauge Block Sets 27 793 Electronic Digital Calipers 6 112 Rectangular Steel Gauge Block Sets 27 793 Electronic Digital Calipers 6 112 Rectangular Steel Gauge Block Sets 27 702 Edge Finders 23 125 Straiter Bunchness 14 627 Edge Finders 23 126 Andustable Micrometers 12 Straiter Setee Cansets 72		Dial Indicators	18	696	-	26
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