

Starrett®

PRECISION TOOLS



CATALOGUE

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Athol, Massachusetts, USA



Laguna Hills, California, USA



Waite Park, Minnesota, USA



Cleveland, Ohio, USA



Mount Airy, North Carolina, USA



Santo Domingo, Dominican Republic



Toronto
Canada

Saltillo
Mexico

Schmitt
Germany

Buenos Aires
Argentina



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.



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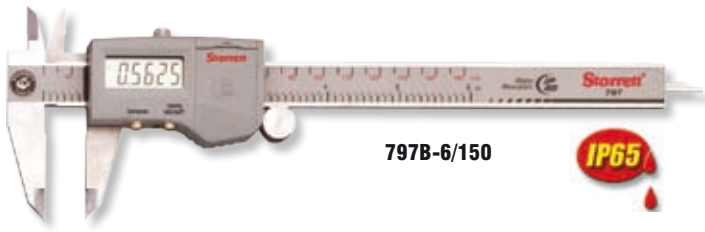
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797 SERIES - WATER RESISTANT ELECTRONIC DIGITAL CALIPERS



797B-6/150



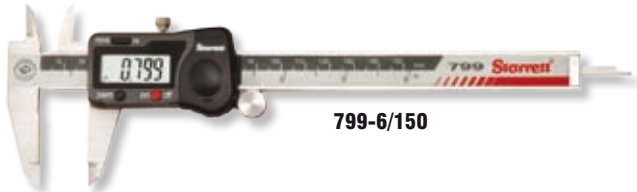
IP65 PROTECTION AGAINST COOLANT, WATER, DIRT AND DUST.

The Starrett 797 Electronic Caliper provides an IP65 level of protection against coolant, water, dirt and dust in hostile shop environments. In addition to being coolant and water resistant, the 797 also offers excellent protection against other contaminants.

- Instant inch/mm conversion.
- Fine adjustment thumb wheel.
- IP65 level of protection against foreign matter.
- Large, easy to read LCD display.
- Hardened stainless steel measuring surface for long life.
- Zero the reading at any position.
- Output port.

Cat No	Range	Graduation	Item No
797B-6/150	150mm / 6"	0.01mm / 0.0005"	DM610
797B-8/200	200mm / 8"		DM612
797B-12/300	300mm / 12"		DM614

799 SERIES - ELECTRONIC DIGITAL CALIPERS



799-6/150

799 Electronic Calipers are light, comfortable, easy to use and constructed with features that have made Starrett slide calipers the machinists' first choice for many years. Offering a slim, streamlined profile, a large clear easy to read LCD display, long life battery and function buttons for zero and inch/mm.

- 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	Item No
799-6/150	150mm / 6"	0.01mm / 0.0005"	DM620
799-8/200	200mm / 8"		DM625
799-12/300	300mm / 12"		DM630

799 SERIES - LONG RANGE ELECTRONIC DIGITAL CALIPERS



799AZ-24/600

799 Series also offers a small selection of long range calipers measuring from 600mm (24") to 1000mm (40").

- 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	Item No
799AZ-24/600	600mm / 24"	0.01mm / 0.0005"	DM6302
799AZ-40/1000	1000mm / 40"		DM6305

1201 & 1202 SERIES - DIAL CALIPERS



1201M-150

The Starrett 1201 and 1202 Dial Calipers have the ability to provide quick, accurate measurement of outside and inside diameters and depth. The dial caliper is the most versatile precision hand tool on the market.

- 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	Range	Graduation	Item No
1201M-150	150mm	0.01mm	BQ994
1201M-200	200mm		BQ995
1202M-150	150mm	0.02mm	BQ996
1202M-200	200mm		BQ997
1202M-300	300mm		BQ998
1202-6	6"	0.001"	BQ9991
1202-8	8"		BQ9993
1202-12	12"		BQ9995

125 SERIES - VERNIER CALIPERS



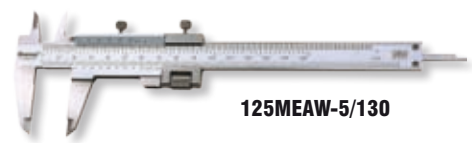
125MEB-6/150

The 125 Series is a high quality, basic vernier caliper that offers both inch and metric measurement.

- High quality basic vernier caliper.
- Lock screw for sliding jaw.
- Hardened stainless steel depth rod.
- Sharp, black graduations on the satin finished bar.

Cat No	Range	Graduation	Item No
125MA-150	150mm	0.02mm	BR5820
125MA-200	200mm		BR5824
125MA-300	300mm		BR5828
125MB-150	150mm	0.05mm	BR5822
125MB-200	200mm		BR5826
125MB-300	300mm		BR5830
125MEA-6/150	150mm / 6"	0.02mm / 0.001"	BR550
125MEA-8/200	200mm / 8"		BR578
125MEA-12/300	300mm / 12"		BR564
125MEB-6/150	150mm / 6"	0.05mm / 1/128"	BR555
125MEB-8/200	200mm / 8"		BR561
125MEB-12/300	300mm / 12"		BR567

125MEAW SERIES - VERNIER CALIPERS WITH FINE ADJUSTMENT



125MEAW-5/130

Cat No	Range	Graduation	Item No
125MEAW-5/130	0 - 130mm / 0 - 5"	0.02mm / 0.001"	BR5902
125MEAW-7/180	0 - 180mm / 0 - 7"		BR5904
125MEAW-11/280	0 - 280mm / 0 - 11"		BR5906

1251 SERIES - LONG RANGE VERNIER CALIPERS



1251MEA-20/500

Long range vernier caliper complete with fine adjustment thumb wheel.

- Sharp, black graduations on the satin finished bar.
- Fine adjustment thumb wheel.

Cat No	Range	Graduation	Item No
1251MEA-12/300	300mm / 12"	0.02mm / 0.001"	BR5860
1251MEA-20/500	500mm / 20"		BR587
1251MEA-24/600	600mm / 24"		BR588
1251MEA-40/1000	1000mm / 40"		BR5890

1025 SERIES - POCKET SLIDE CALIPER



Cat No	Size	Range		Depth Of Jaws	Width Of Nibs Closed	Graduation		Item No
		Outside	Inside			Slide	Stock	
1025ME-130	130mm / 5"	0-96mm / 0-3.3/4"	6-100mm / 1/4-4"	36mm / 1.3/8"	6mm / 0.236"	1/2mm / 64ths	mm	DP767

3753 SERIES - ELECTRONIC DIGITAL DEPTH GAUGES & ACCESSORIES



3753A-6/150

This light, portable and easy to use depth gauge is reliable and accurate for measurements to 0.01mm (0.0005").

- Hardened stainless steel body and slide for long life.
- Fine adjustment thumb wheel.
- Sharp, easy to read LCD display.
- 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.
- Lock to hold the slide in position.
- Instant inch/mm conversion.

Cat No	Range	Graduation / Description	Item No
3753AZ-6/150	150mm / 6"	0.01mm / 0.0005"	DR9450
3753AZ-8/200	200mm / 8"		DR9453
3753AZ-12/300	300mm / 12"		DR9456
3648-180	180mm	Base Extension With Screws	DR94250
3648-260	260mm	Base Extension With Screws	DR94251
3648-320	320mm	Base Extension With Screws	DR94252

5000 SERIES - CARBON FIBRE CALIPERS



- Strong, lightweight and stable carbon fibre bar.
- TiN coated stainless steel jaws.
- Tight, smoothly fitted slides for maximum accuracy and easy adjustment.
- Locknut to hold measurement.
- Screw-type adjusting nut allows for fine measuring adjustment.

- Large easy to read display with resolution 0.01mm/0.0005".
- MM/Inch conversion.
- Output port.
- Two preset modes to install any reading at any point.
- Ability to zero the reading at any position.
- Packed in a wooden case.

Cat No	Range	Graduation	Item No
B5000BZ-20/500	500mm / 20"	0.01mm / 0.0005"	DR9600
B5000BZ-24/600	600mm / 24"		DR9603
B5000BZ-40/1000	1000mm / 40"		DR9606

5006 SERIES - INTERNAL / EXTERNAL CALIPER

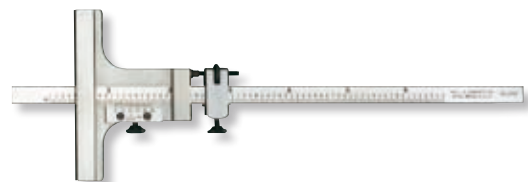


- Stainless steel construction.
- Interchangeable ball contact standard.
- Other contacts available on special request.
- Tight, smoothly fitted slides for maximum accuracy and easy adjustment.
- Lock nut to hold measurements.
- Large easy to read display with resolution 0.01mm/0.0005".

- MM/Inch conversion.
- Output port.
- Two preset modes to install any reading at any point.
- Ability to zero the reading at any position.
- Packed in a wooden case.

Cat No	Range	Graduation	Item No
5006BZ-14/350	Internal: 42-350mm / 1.654"-13.780" External: 0-270mm / 0"-10.630"	0.01mm / 0.0005"	DR9620

448 SERIES - VERNIER DEPTH GAUGES



These are easy to use, very accurate depth gauges. They are designed for measuring the depths of holes, slots and recesses and for inspecting jig, fixtures and die work. They are also ideal for measuring from a plane surface to toolmakers' buttons for locating centre distances.

- Heads are hardened, ground and lapped.
- Measuring blades are hardened and ground and have accurate and sharp machine divided graduations.
- Slide lock nut to hold measurement.
- Screw type adjusting nut allows for fine measuring adjustment.
- All metric graduations read to 0.02mm with the bar graduated in 0.5mm increments.

Cat No	Range	Blades Furnished	Base Length x Width	Item No
448MEZ-6	0 - 150mm / 0 - 6"	One (150mm / 6")	70 x 6.35mm / 2.3/4" x 1/4"	CV732
448MEZ-12	0 - 300mm / 0 - 12"	One (300mm / 12")		CV734
448MEZ-612	0 - 300mm / 0 - 12"	Two (150mm / 6" & 300mm / 12")		CV752

ELECTRONIC DIGITAL HEIGHT GAUGES WITH OR WITHOUT OUTPUT



3751AZ-6/150



3751AZ-6/150 - Supplied In Aluminium Case

Starrett 3751 Electronic Height Gauge features an easy to read display, hardened, stainless steel bar for long life and a hardened, ground and lapped base with finger grooves which provides fine adjustment movement with ease.

- 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.

The 3752 Electronic Height Gauge is a full featured, versatile and economic solution for most height measurement applications. All measuring information from these tools can be entered directly into Starrett Data Collection Systems for analysis, data collection and hard copy documentation.

- 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.

Cat No	Range	Graduation	Item No
3751AZ-6/150	150mm / 6"	0.01mm / 0.0005"	DR9430
3752-24/600	600mm / 24"	0.01mm / 0.0005"	DR9054

795 / 796 SERIES - ELECTRONIC DIGITAL MICROMETERS WITH OR WITHOUT OUTPUT



795MEFL-25



Starrett 795 and 796 Electronic Micrometers provide an IP67 level of protection against coolant, water, chips, dirt, dust and other contaminants in hostile shop environments. The 795 includes an RS232 output port for data transmission. The 796 has all of the features of the 795 except that it does not include output. Both micrometers have carbide measuring faces.

- IP67 level of protection against coolant, water, dust and dirt.
- 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.

Cat No	Range	Graduation	Item No
796MXFL-25	0 - 25mm / 0 - 0.984"	0.001mm / 0.00005"	DM6015
795MEFL-25			DM6005

733 / 3734 SERIES - ELECTRONIC DIGITAL MICROMETERS WITH OR WITHOUT OUTPUT



733MEFL-25

The 733 and 3734 are full function electronic outside micrometers complete with a full range of features. The 733 Series is offered in a wide variety of sizes up to 150mm (6") complete with an output port for transmitting data. The 3734 Series is available in a 0-25mm (0-1") version. No output port available.

- Carbide measuring faces.
- Ability to zero reading at any position.
- 733 Series - Output signal, PRESET button to install any reading at any position.
- Install minimum and maximum limits.
- Automatic switch OFF after 30 minutes of non-use.
- Instant inch/mm conversion.
- 3734 No output.

Cat No	Range	Graduation	Item No
733MEFL-25	0 - 25mm / 0 - 1"	0.001mm / 0.00005"	DL966920
733MEFLZ-50	25 - 50mm / 1 - 2"		DL966921
733MEFLZ-75	50 - 75mm / 2 - 3"		DL966922
733MEFLZ-100	75 - 100mm / 3 - 4"		DL966923
733MEFLZ-125	100 - 125mm / 4 - 5"		DL966924
733MEFLZ-150	125 - 150mm / 5 - 6"		DL966925
3734XFL-1	0 - 25mm / 0 - 1"	0.001mm / 0.00005"	DL9671

3732 SERIES - ELECTRONIC DIGITAL MICROMETERS WITHOUT OUTPUT

NEW



COMING SOON

Cat No	Range	Graduation	Item No
3732MEXFL-25	0 - 25mm / 0 - 1"	0.001mm / 0.00005"	NEW PRODUCT COMING SOON. Available October 2009. Image shown is a display model only and the actual micrometer may vary slightly.
3732MEXFLZ-50	25 - 50mm / 1 - 2"		
3732MEXFLZ-75	50 - 75mm / 2 - 3"		
3732MEXFLZ-100	75 - 100mm / 3 - 4"		
3732MEXFLZ-125	100 - 125mm / 4 - 5"		
3732MEXFLZ-150	125 - 150mm / 5 - 6"		

436 SERIES - STANDARD OUTSIDE MICROMETERS



436.2MXRL-25

These are the most popular precision micrometers used by skilled workmen worldwide. They are accurate, rugged and easy to use.

No other micrometer manufacturer can match the breadth and depth of the Starrett product line.

- 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.

Cat No	Range	Graduation	Item No	
436.2MXRL-25	0 - 25mm	0.01mm	CU9800	
436.1MXRL-50	25 - 50mm		CU9514	
436.1MXRL-75	50 - 75mm		CU9522	
436.1MXRL-100	75 - 100mm		CU9532	
436.1MXRL-125	100 - 125mm		CU9542	
436.1MXRL-150	125 - 150mm		CU9552	
436MXRL-175	150 - 175mm		CS772	
436MXRL-200	175 - 200mm		CS812	
436MXRL-225	200 - 225mm		CS852	
436MXRL-250	225 - 250mm		CS892	
436MXRL-275	250 - 275mm		CS932	
436MXRL-300	275 - 300mm		CS972	
436.1XRL-1	0 - 1"		0.001"	CU9408
436.1XRL-2	1 - 2"			CU9424
436.1XRL-3	2 - 3"	CU9438		
436.1XRL-4	3 - 4"	CU9450		
436.1XRL-5	4 - 5"	CU9460		
436.1XRL-6	5 - 6"	CU9470		

Cat No	Range	Graduation	Item No
436XRL-7	6 - 7"	0.001"	CR652
436XRL-8	7 - 8"		CR692
436XRL-9	8 - 9"		CR732
436XRL-10	9 - 10"		CR772
436XRL-11	10 - 11"		CR812
436XRL-12	11 - 12"		CR852
V436.2MXRL-25	0 - 25mm	0.001mm	CU9508
V436.1MXRL-50	25 - 50mm		CU9516
T436.1XRL-1	0 - 1"	0.0001"	CU9412
T436.1XRL-2	1 - 2"		CU9428

S436 SERIES - MICROMETER SETS WITH STANDARDS



S436.2MCXRLZ

Cat No	Range	Graduation	Description	Item No
S436.2MCXRLZ	0 - 150mm	0.01mm	Each set includes: 25, 50, 75, 100, 125 & 150mm Micrometers, with Five Standards, in Case	CU9735
S436MEXRLZ	0 - 300mm	0.01mm	Each set includes: 25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275 & 300mm Micrometers, with Eleven Standards, in Case	CU877
S436.1CXRLZ	0 - 6"	0.001"	Each set includes: 1", 2", 3", 4", 5" & 6" Micrometers, with Five Standards, in Case	CU9645
S436EXRLSZ	0 - 12"	0.001"	Each set includes: 1", 2", 3", 4", 5", 6", 7", 8", 9", 10", 11" & 12" Micrometers, with Eleven Standards, in Case	CU537

3206 SERIES - MICROMETER STAND



A new universal holder complete with a heavier cast base.

- Adjustable position yolk.
- Nylon holding pads.
- Non skid rubber pads.

Cat No	Capacity	Inclination	Item No
3206	16mm / 5/8"	45°	DR9420

234 SERIES - PRECISION END MEASURING RODS



234 Rod With Insulating Handle

These rods or "standards" are for checking and setting micrometers of 50mm (2") capacity and larger, and are also used on machine tools for comparing gauges, checking precision measuring tools, parallel surfaces, and many other types of work.

- *Manufactured from a special tool steel.*
- *Hardened ends and accurately lapped to a spherical radius.*

Cat No	Range	Item No
234MA-25	25mm	CC437
234MA-50	50mm	CC442
234MA-75	75mm	CC447
234MA-100	100mm	CC452
234MA-125	125mm	CC457
234MA-150	150mm	CC462
234MA-175	175mm	CC467
234MA-200	200mm	CC472
234MA-225	225mm	CC477
234MA-250	250mm	CC482
234MA-275	275mm	CC487
234MA-300	300mm	CC492

Cat No	Range	Item No
234A-1	1"	CC317
234A-2	2"	CC322
234A-3	3"	CC327
234A-4	4"	CC332
234A-5	5"	CC337
234A-6	6"	CC342
234A-7	7"	CC347
234A-8	8"	CC352
234A-9	9"	CC357
234A-10	10"	CC362
234A-11	11"	CC367
234A-12	12"	CC372

234 Rods are also available without insulating handle. Cat No. changes to 234MB. Please note that these standards are supplied with all micrometers that are furnished with standards.

224 SERIES - OUTSIDE MICROMETERS WITH INTERCHANGEABLE ANVILS



224MARLZ

Unusual flexibility, plus a wide range of measurement makes the Starrett No.224 Series satin-chrome micrometers very popular in machine or automotive repair shops and for all applications requiring a versatile micrometer.

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

Graduation 0.01mm

Cat No	Range	Standards (mm)	Item No
224MAARLZ	0 - 100mm	25, 50, 75	BZ742
224MARLZ	50 - 150mm	50, 75, 100, 125	BZ747
224MGRLZ	150 - 300mm	150, 175, 200, 225, 250, 275	BZ757
224MDRLZ	300 - 400mm	300, 325, 350, 375	BZ767
224MERLZ	400 - 500mm	400, 425, 450, 475	BZ772
224MJRLZ	500 - 600mm	500, 525, 550, 575	BZ777

Graduation 0.001"

Cat No	Range	Standards (Inches)	Item No
224AARLZ	0 - 4"	1", 2", 3"	BZ702
224ARLZ	2 - 6"	2", 3", 4", 5"	BZ707
224BRLZ	6 - 9"	6", 7", 8"	BZ712
224GRLZ	6 - 12"	6", 7", 8", 9", 10", 11"	BZ717
224CRLZ	9 - 12"	9", 10", 11"	BZ714
224DRLZ	12 - 16"	12", 13", 14", 15"	BZ727
224ERLZ	16 - 20"	16", 17", 18", 19"	BZ732
224JRLZ	20 - 24"	20", 21", 22", 23"	BZ737

486 SERIES - BLADE TYPE MICROMETERS WITH NON-ROTATING SPINDLE



The Starrett 486 Series is designed for fast and accurate measurements of circular form tools, diameter and depth of narrow grooves, slots, keyways, recesses and depths between lands and fins.

- *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.*

Cat No	Range	Graduation	Item No
486MP-25	0 - 25mm	0.01mm	CZ142
486MP-50	25 - 50mm		CZ152
486MP-75	50 - 75mm		CZ162
486MP-100	75 - 100mm		CZ172

Cat No	Range	Graduation	Item No
486P-1	0 - 1"	0.001"	CZ082
486P-2	1 - 2"		CZ092
486P-3	2 - 3"		CZ102
486P-4	3 - 4"		CZ112

256 SERIES - DISC TYPE MICROMETERS WITH ROTATING OR NON-ROTATING SPINDLES



These tools are used to measure the thickness of work sections such as ribs, lands, fins, cutting edges on form tools and chordal thickness of gear teeth. Because of their large anvil and spindle faces, they are also useful for measuring the thickness of sheet materials like paper, rubber, cardboard and plastics.

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

Cat No	Range	Graduation	Item No
256MRL-25	0 - 25mm	0.01mm	CH368
256MPN-25*			CH377
256MRL-50	25 - 50mm		CH387
256MRL-75	50 - 75mm		CH397

Cat No	Range	Graduation	Item No
256RL-1	0 - 1"	0.001"	CH327
256PN-1*			CH332
256RL-2	1 - 2"		CH337
256RL-3	2 - 3"		CH357

* Non-Rotating Spindle

222 SERIES - SHEET METAL MICROMETERS



These micrometers reach over the edge of sheet metal and take measurements away from the edge towards the centre.

- *Balanced frame and thimble design insure easy handling and better readability.*
- *150mm throat depth.*

Cat No	Range	Anvil	Graduation	Item No
222MBXR-25	0 - 25mm	Flat	0.01mm	BZ482
222BXR-1	0 - 1"		0.001"	BZ417

220 SERIES - MUL-T-ANVIL MICROMETERS



A new development in micrometer design and patent is held by Starrett. This micrometer will handle a wide variety of measurements impossible to obtain with regular micrometers, such as measuring the wall thickness of tubing, cylindrical walls from a hole or slot to an edge, many hard-to-reach locations and the thickness of screw heads, shoulder lengths, etc.

- *Balanced frame and thimble design insure easy handling, better readability.*
- *Ring type knurled lock nut for quick and sure locking.*
- *A choice of smooth friction thimble for uniform pressure or the combination ratchet and speeder for uniform pressure and quicker adjustment.*

Cat No	Range	Graduation	Item No
220MXRL-25	0 - 25mm	0.01mm	BZ050
220XRL-1	0 - 1"	0.001"	BY927

576 & 577 SERIES - ROUNDED ANVIL MICROMETERS



Ideal for measuring the wall thickness of parts such as solid and split bearings, tubing, sleeves, collars, rings, various cylinders and also measuring from the inside of a hole to an edge.

- *576 Series can get into holes as small as 8mm (5/16") and measure up to 13mm (1/2").*
- *577 Series can get into holes as small as 9.5mm (3/8") and measure up to 25mm (1").*

Cat No	Range	Minimum Diameter	Graduation	Item No
576MXR	0 - 13mm	8mm	0.01mm	DC647
577MXP	0 - 25mm	9.5mm	0.01mm	DC765
576XR	0 - 1/2"	5/16"	0.001"	DC637
577XP	0 - 1"	3/8"	0.001"	DC757

483 SERIES - V-ANVIL MICROMETERS



These micrometers are used to check out-of-roundness from centreless grinding or other machining operations. They are also used for measuring odd fluted taps, milling cutters and reamers.

- *Direct measuring of three fluted tools.*
- *Advanced sleeve design with staggered lines and distinct figures for precise and easy readability.*

Cat No	Range	No of Flutes It Will Measure	Graduation	Description	Item No
483MXRL-25	2 - 25mm	3	0.01mm	Ratchet Stop, Lock Nut,	CY842
T483XRL-1	0.093 - 1"		0.0001"	Tapered Spindle	CY812

207 SERIES - STAINLESS STEEL CAN SEAM MICROMETERS

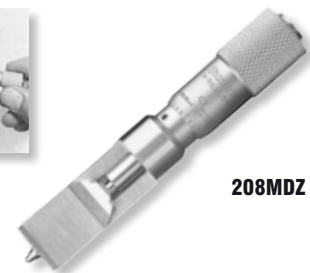


Starrett Can Seam Micrometers are made of stainless steel and designed to measure the thickness and depth of can seams. The No. 207 Series is used to measure the seam at the outside bottom edge of the dome on the top of an aerosol can.

- *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).*

Cat No	Range	Graduation	Item No
207MZ	0 - 9.5mm	0.01mm	BX642
207Z	0 - 0.375"	0.001"	BX637

208 SERIES - STAINLESS STEEL CAN SEAM MICROMETERS



208MDZ

Starrett Can Seam Micrometers are made of stainless steel and designed to measure the thickness and depth of can seams. The No. 208 Series is used to measure the thickness of the seam at the top and bottom of a flat-topped can.

- *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).*

Cat No	Range	Graduation	Description	Item No
208MZ	0 - 9.5mm	0.01mm	Without Depth Gauge	BX757
208MDZ			With Depth Gauge	BX762
208Z	0 - 0.375"	0.001"	Without Depth Gauge	BX742
208DZ			With Depth Gauge	BX752

1175 SERIES - DIAL INDICATOR GROOVE GAUGES



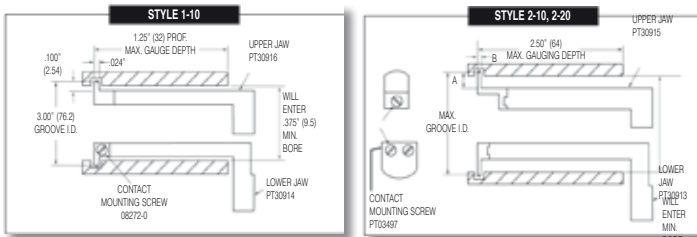
A lightweight gauge is used for in-process or bench inspection of oil grooves, snap ring retainer grooves, "O" ring seat retainer grooves and similar internal recesses. It is also useful for checking bore dimensions and testing for taper, bell-mouth and out-of-roundness.

The movable, sensitive gauging contact has a 12.7mm (2.1/2") retractable range and transfers the measurement through a linear, friction-free transfer mechanism to the dial indicator. The lower reference jaw is fixed and supports the entire weight of the gauge and the operator's hands, thus preventing incorrect gauging pressure and false readings.

The reference jaw can be mounted in two positions on the range adjusting bar. The bar itself is also adjustable for greater or lesser range. A fine adjustment screw and a lock are also provided.

- Supplied with two sets of jaws, both readily interchangeable.
- Three sets of contacts are furnished (Styles 1-10, 2-10, 2-20) that can be attached to the ends of the jaws without replacing the entire jaw. Contacts have flush ends so that grooves at the bottom of blind holes can be gauged. The contacts are hardened steel with a hard chrome finish for long life.

Cat No	Range	Graduation	Item No
1175MZ	9.5 - 150mm	0.01mm	DQ767
1175Z	0.375 - 6"	0.0005"	DQ762

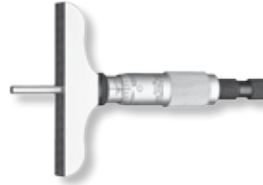


Contact Set Specifications

Style 1-10 is for the smaller jaws and can enter a 9.5mm (0.375") bore. Styles 2-10 and 2-20 are used on the larger jaws to reach a range up to 150mm (6").

Contact Set	Part No (PT)		Will Enter Minimum Bore		Maximum Groove I.D.		A		B	
	Upper	Lower	mm	inch	mm	inch	mm	inch	mm	inch
Style 1-10	30917	30917	9.5	0.375"	75	3"	2.5	0.100"	0.6	0.024"
Style 2-10	30918	30919	17.5	0.690"	125	5"	3.6	0.140"	0.8	0.034"
Style 2-20	30920	30921	25	1"	150	6"	6.7	0.265"	1.3	0.051"

440 & 445 SERIES - DEPTH MICROMETERS



Starrett 440 Gauge Micrometers are furnished with a 64mm (2.1/2") base and 3.2mm (1/8") diameter measuring rods.

The 445 Series Gauge Micrometers are furnished with 100mm (4") bases and have 4mm (5/32") diameter measuring rods. Other base sizes are available.

- Reading surfaces have a satin chrome finish that resists rust.
- Ring-type lock nut for quick and sure locking.
- Combination ratchet and speeder for uniform pressure and quicker adjustment.

Cat No	Range	Graduation	Base	No Of Rods	Rod Diameter	Description	Item No
440MZ-75RL	0 - 75mm	0.01mm	63.5mm	3	3.2mm	With Ratchet Stop & Lock Nut In Case	CV147
440MZ-150RL	0 - 150mm			6			CV152
440MZ-225RL	0 - 225mm			9			CV157
440Z-3RL	0 - 3"	0.001"	2.1/2"	3	1/8"		CV127
440Z-6RL	0 - 6"			6			CV132
440Z-9RL	0 - 9"			9			CV142
445MBZ-75RL	0 - 75mm	0.01mm	100mm	3	4mm		CV452
445MBZ-150RL	0 - 150mm			6			CV457
445MBZ-225RL	0 - 225mm			9			CV462

749 SERIES - ELECTRONIC DIGITAL DEPTH MICROMETER WITH OUTPUT



The Starrett 749 has a wide 0-150mm (0-6") range for measuring the depth of most holes, slots, shoulders and projections. The 100mm (4") base is hardened for long lasting precision. Features include ring-type lock nut and combination ratchet and speeder.

- 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 output.

Cat No	Range	Graduation	Base	Item No
749MEBZ-150	0 - 150mm / 0 - 6"	0.001mm / 0.0001"	100mm (4")	DM251

762 SERIES - ELECTRONIC DIGITAL MICROMETER HEADS WITH ROTATING OR NON-ROTATING SPINDLES & WITH OUTPUT



- Starrett designed microprocessor.
- Carbide measuring faces.
- Ability to zero reading at any position.
- Instant inch/mm conversion.
- With data output.
- Attractive black wrinkle finish on frame.

Cat No	Range	Graduation	Description	Item No
762MEXFL-25	0 - 25mm / 0 - 1"	0.001mm / 0.00005"	Friction Thimble, Lock Nut	DM3930
762NXRL*			Ratchet Stop, Lock Nut	DM3910
762MEXFL-50	0 - 50mm / 0 - 2"		Friction Thimble, Lock Nut	DM3940

* Non-Rotating Spindle

460 SERIES - STANDARD MICROMETER HEADS



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

Cat No	Range	Graduation	Item No
460MB	0 - 13mm	0.01mm	CW987
460B	0 - 1/2"	0.001"	CW977

463 SERIES - STANDARD MICROMETER HEADS



Reading surfaces are satin finished stainless steel for easy readability.

Cat No	Range	Graduation	Description	Item No
463MRL	0 - 13mm	0.01mm	Ratchet Stop, Lock Nut	CX082
463ML			Lock Nut	CX077
463MP			Plain	CX072
463L	0 - 1/2"	0.001"	Lock Nut	CX012

263 SERIES - MICROMETER HEADS



- *Satin chrome finish, produces no glare.*
- *Available with reverse reading if required.*
- *With or without ring type knurled lock nut for quick and sure locking.*

Cat No	Range	Graduation	Description	Item No
263MRL*	0 - 25mm	0.01mm	Ratchet Stop, Lock Nut	CI307
263ML*			Lock Nut	CI302
263MP*			Plain	CI297
V263MRL*		0.001mm	Ratchet Stop, Lock Nut	CI322
263L	0 - 1"	0.001"	Lock Nut	CI252

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

63 SERIES - LONG RANGE MICROMETER HEADS



- *Ring type lock nut for quick and sure locking.*
- *With combination ratchet and speeder for uniform pressure and quicker adjustment.*

Cat No	Range	Graduation	Description	Item No
63MRL*	0 - 50mm	0.01mm	Ratchet Stop, Lock Nut	BM477
63RL	0 - 2"	0.001"		BM452

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

124 SERIES - SOLID-ROD INSIDE MICROMETERS



Measuring I.D. with micrometer and rod.



The most popular inside micrometers because of their lightness, ease of use and range. Ideal for measuring inside diameters of cylinders and rings, measuring parallel surfaces, etc.

Rod diameters are approximately 6mm (1/4") on the A and B sizes, and approximately 8.5mm (11/32") on the C size. Each rod has individual length adjustment for the anvil by means of special wrenches included.

- *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	Movement Of Screw	No Of Measuring Rods	No Of Spacing Collars	Item No
124MAZ	50 - 200mm	0.01mm	13mm	6	One 12mm	BR452
124MBZ	50 - 300mm			10		BR462
124MCZ	200 - 800mm		25mm	4	One 25mm, Two 50mm	BR472
124AZ	2 - 8"	0.001"	1/2"	6	One 1/2"	BR412
124BZ	2 - 12"			10		BR422
124CZ	8 - 32"		1"	4	One 1", Two 2"	BR432

78 SERIES - 3 POINT INTERNAL BORE GAUGE MICROMETER SETS



The 78 Series feature extended travel, reducing the need to exchange anvils. The ground contact points seat the internal micrometer faster and more accurately than the spherical contacts found in other gauges.

- *Resolution 0.005mm (.0002").*
- *3-Point contact with carbide measuring faces on all 3-point heads above 12.5mm (1/2").*
- *Ratchet stop ensures consistent measurements.*
- *Self-centering contacts for true readings.*

Cat No	Range	No of Heads	No of Rings	Item No
S78MXTCZ	6 - 10mm	2	1	BN6871
S78MXTDZ	10 - 20mm	3	2	BN6872
S78MXTEZ	20 - 50mm	3	2	BN6873
S78MXTFZ	50 - 100mm	3	2	BN6874
S78XTCZ	1/4 - 3/8"	2	1	BN6880
S78XTDZ	3/8 - 3/4"	3	2	BN6881
S78XTEZ	3/4 - 2"	3	2	BN6882
S78XTFZ	2 - 4"	3	2	BN6883

823 SERIES - TUBULAR INSIDE MICROMETERS



823MAZ



Measuring inside diameter using convenient handle attached to the micrometer.

Starrett 823 Series Micrometers are highly useful tools for internal linear measurements such as measuring cylinders, rings, setting calipers, comparing gauges and measuring parallel surfaces.

The extension rods are made of steel tubing, light in weight, yet extremely rigid. Rods are approximately 9.5mm (3/8") diameter to meet the requirements of mechanics who prefer this larger diameter. By removing the hardened and ground anvil ends (end caps) of the micrometer head, the rods may be attached to either or both ends of the micrometer as preferred.

- 140mm long, convenient 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	Movement Of Screw	Description	Item No
823MAZ	40 - 200mm	0.01mm	13mm	With 6 Rods & Handle	DN672
823MBZ	40 - 300mm			With 8 Rods & Handle	DN677
823MEZ	100 - 1000mm		25mm	With 10 Rods	DN682
823AZ	1.1/2 - 8"	0.001"	1/2"	With 5 Rods & Handle	DN642
823BZ	1.1/2 - 12"			With 8 Rods & Handle	DN647
823CZ	4 - 24"		1"	With 7 Rods	DN652

780 SERIES - 3 POINT ELECTRONIC DIGITAL INTERNAL MICROMETERS WITH OUTPUT



Starrett 780 Series provide IP65 level of protection against coolant, water and dirt in hostile shop environments. In addition, they offer extended travel, reducing the need to exchange anvils.

The ground contact points seat the internal micrometer faster and more accurately than the spherical contacts found in other gauges.

These rugged and accurate internal micrometers are available individually or in sets from 6mm (1/4") to 200mm (8").

- Wide measurement range without changing anvils.
- Resolution to 0.001mm (0.00005").
- Carbide measuring faces on sizes above 12.5mm (1/2") diameter.
- Includes instant inch/mm conversion and preset + and - functions.
- IP65 level of protection against coolant, water, dirt and dust.
- Includes an RS232 output port for data transmitting.

Cat No	Range	Graduation	No Of Heads	No Of Rings	Item No
S780XTCZ	6 - 10mm / 1/4 - 3/8"	0.003mm / 0.0001"	2	1	DM4460
S780XTDZ	10 - 20mm / 3/8 - 3/4"				DM4461
S780XTEZ	20 - 50mm / 3/4 - 2"	0.004mm / 0.00015"	3	2	DM4462
S780XTFZ	50 - 100mm / 2 - 4"				DM4463
S780XTGZ	100 - 200mm / 4 - 8"				DM4464

3089 SERIES - BORE GAUGE SETS

3089M-181-160J



METRIC BORE GAUGE SET

Suitable for a wide range of bore measurements.

- Carbide Tipped Anvil.
- Ergonomic design with non-slip insulating grip.
- All anvils laser marked for easy selection.
- 0.01mm graduated dial.

Cat No	Range	Graduation	Item No	
3089M-181-10J	6 - 10mm	0.01mm	DR9396	
3089M-181-18J	10 - 18mm		DR9399	
3089M-181-35J	18 - 35mm		DR9402	
3089M-181-50J	35 - 50mm		DR9405	
3089M-181-160J	50 - 160mm		DR9408	
3089M-181-250J	160 - 250mm		DR9411	
3089M-181-450J	250 - 450mm		DR9414	
3089Z-131-715J	0.7 - 1.5"		0.0005"	DR9416
3089Z-131-1424J	1.4 - 2.4"			DR9417
3089Z-131-26J	2 - 6"			DR9418
S3089MZ-181-160J	Metric Bore Gauge Set, Set Contains, 3089M-181-35J, 50J & 160J		DR9415	
S3089Z-131-6J	Imperial Bore Gauge Set, Set Contains, 3089Z-131-715J, 1424J & 26J		DR94185	

829 & 831 SERIES - SMALL HOLE GAUGES



S829EZ - Full Ball



S831EZ - Half Ball With Flat Bottom

These small hole gauges are well balanced tools, ideal for accurately measuring small holes, slots, grooves and recesses in all kinds of work.

Accurate measurements are obtained by slightly "rocking" these gauges in the hole to be measured. This will guarantee contact at the true diameter. The final size is then obtained by measuring over the ball contacts with a micrometer.

- *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.*
- *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	Item No
S829EZ	Set of 4 in Case	3.2 - 5.1mm / 0.125 - 0.200"	75mm / 2.7/8"	DO242
		5.1 - 7.6mm / 0.200 - 0.300"	80mm / 3.1/8"	
		7.6 - 10.2mm / 0.300 - 0.400"	85mm / 3.3/8"	
		10.2 - 12.7mm / 0.400 - 0.500"	90mm / 3.1/2"	
S831EZ	Set of 4 in Case	3.2 - 5.1mm / 0.125 - 0.200"	70mm / 2.13/16"	DO497
		5.1 - 7.6mm / 0.200 - 0.300"	80mm / 3.1/8"	
		7.6 - 10.2mm / 0.300 - 0.400"	85mm / 3.3/8"	
		10.2 - 12.7mm / 0.400 - 0.500"	90mm / 3.1/2"	

3025 & 3081 SERIES - DIAL INDICATORS



3025-481

- *Supplied with tolerance hands and bezel lock.*
- *3025 and 3081 Series Indicators supplied with long life jewel bearings.*
- *All indicators supplied with lug backs.*

Dial Diameter: 57mm

Cat No	Range	Graduation	Dial Reading	Item No
3025-481	10mm	0.01mm	0 - 100	BJ275
3025-481/5	5mm			BJ276
3025-681	20mm			BJ2765
3025-257J	1mm	0.001mm	0 - 200	BJ230

Dial Diameter: 43mm

Cat No	Range	Graduation	Dial Reading	Item No
3081-481/5	5mm	0.01 mm	0 - 100	BO022

579 SERIES - TELESCOPING GAUGES



Cat No	Description	Range	Handle Length	Item No
S579GZ	Set of 4 in Case	8 - 13mm / 5/16 - 1/2"	60mm / 2.3/8"	DC902
		13 - 19mm / 1/2 - 3/4"		
		19 - 32mm / 3/4 - 1.1/4"		
		32 - 54mm / 1.1/4 - 2.1/8"		
S579HZ	Set of 6 in Case	One of each of S579GZ plus two below	60mm / 2.3/8"	DC907
		54 - 89mm / 2.1/8 - 3.1/2"		
		89 - 150mm / 3.1/2 - 6"		

3600 SERIES - ELECTRONIC DIGITAL INDICATORS



3600 Series Electronic Indicators have simple, powerful, easy-to-use functions, all at an attractive price. Versions are available for metric/inch and metric only.

- *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.*

Cat No	Range	Graduation	Item No
3600M-5	12.5mm	0.01mm	DR90524
3600-5	12.5mm / 0.5"	0.01mm / 0.0005"	DR90523

**2700 SERIES - WISDOM® PLUS
ELECTRONIC DIGITAL INDICATORS**



F2710-0M

This is our most versatile line of electronic indicators, available in three styles, in addition to a remote display and accompanying probe series.

All indicators feature a glass scale design with an unsurpassed accuracy of ± two resolutions when measuring from a known standard.

All have rugged, sealed enclosures as well.

- *Preset mode to install any reading at any point in the display. Reading is retained even if the indicator is turned off.*
- *T.I.R.: Displays the difference between the highest and lowest values reached.*
- *Tolerancing: Permits the entering of high and low tolerances. When tolerances are exceeded, the display will flash. Numbers are retained even if the indicator is turned off.*
- *Minimum reading hold.*
- *Hold button to freeze display: Displays and holds the reading after the measurement has been taken.*
- *Feature Lock: Unique feature locks user selections so that a wrong button push will not change your settings.*

Cat No	Range	Resolution	No Of Resolutions Available	Item No
F2710-0M	6mm / 0.250"	0.001mm / 0.00005"	10	DR891652
F2720-1M	15mm / 0.600"	0.002mm / 0.0001"	6	DR891675
F2720-3M		0.01mm / 0.0005"	4	DR891678
F2730-0M	25mm / 1"	0.001mm / 0.00005"	8	DR891697

DIAL TEST INDICATORS



Designed to be positioned for easy and accurate readability the versatility of the angle head, combined with the square mounts eliminates the need for having both vertical and horizontal style test indicators.

- *Dial Test Indicators meet or exceed DIN Standard.*
- *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 approximately 15° from being horizontal with the workpiece.*

Cat No	Range	Graduation	Dial Reading	Accessories	Item No
3808MA	0.2mm	0.002mm	0 - 100 - 0	2 Standards	DR90585
3808MAC				6 Standards	DR90586
3809MA	0.8mm	0.01mm	0 - 40 - 0	2 Standards	DR9059
3809MAC				6 Standards	DR90596

**196 SERIES - UNIVERSAL BACK-PLUNGER
DIAL INDICATORS**



Starrett 196 Series Indicators is one of the most versatile indicators available. Over the years, this tool has been improved by methods and materials but, the basic design is unchanged. The design has withstood the test of time and beaten all competition. While there is a need for indicators with finer graduations, this indicator with graduations to 0.02mm and 0.001" will handle by far the majority of jobs. Shank diameter is 6.35mm (1/4"). Antimagnetic models are also available in series numbers 196A6Z and 196B6. For full use, the operator first chooses the proper contact from the three hardened contact points that come with each model.

Then the contact should be brought against the work with enough pressure to give the hand one full turn. Set the hand at zero by rotating the dial with the knurled bezel. This provides one full rotation of the hand both to the right and left of zero, showing a rise or drop in the work and the amount of that variation.

- *Accurate and reliable.*
- *Simple to operate.*
- *Rugged with few moving parts.*
- *Smooth in operation.*
- *Inexpensive - the best indicator value you can buy.*

Cat No	Graduation	Range	Dial Reading	Description	Item No
196MA1Z	0.02mm	5mm	0 - 100 (Yellow Dial)	Indicator With 3 Contact Points, Adaptor, 4 Attachments*, In Case	BW792
196MB1				Indicator With 3 Contact Points and Adaptor Only	BW827
196MA5Z			0 - 50 - 0 (Yellow Dial)	Indicator With 3 Contact Points, Adaptor 196R, 4 Attachments*, In Case	BW794
196MB5				Indicator With 3 Contact Points and Adaptor Only	BW832
196A1Z	0.001"	0.200"	0 - 100	Indicator With 3 Contact Points, Adaptor, 4 Attachments*, In Case	BW762
196B1				Indicator With 3 Contact Points and Adaptor Only	BW797
196A6Z				Antimagnetic Indicator With 3 Contact Points, 4 Attachments*, In Case	BW782
196B6			Antimagnetic Indicator With 3 Contact Points Only	BW817	
196A5Z			0 - 50 - 0	Indicator With 3 Contact Points, Adaptor, 4 Attachments*, In Case	BW777
196B5				Indicator With 3 Contact Points and Adaptor Only	BW812

* Attachments include Clamp, Tool Post Holder, Snug & Hole Attachment. For more detailed information, see Catalogue 31B.

MAGNETIC BASE INDICATOR HOLDERS



3657AA With Fine Adjustment



3657MTW Flex-O-Post Indicator Holder



660 With Triple Jointed Arm & Fine Adjustment



661A Mini Magnetic Base & Indicator Holder



Starrett Magnetic Base Indicator Holders are for use with all Starrett Test, Back Plunger, AGD, Dial and Miniature-Dial Indicators. Also accommodates similar indicators of other manufacturers.

The Starrett 3657MTW is supplied complete with the flexible post, assembled of short tubular steel sections and precision ball joints, linked by an internal steel cable. It can be adjusted to any position and locked by turning a lever near the magnetic base.

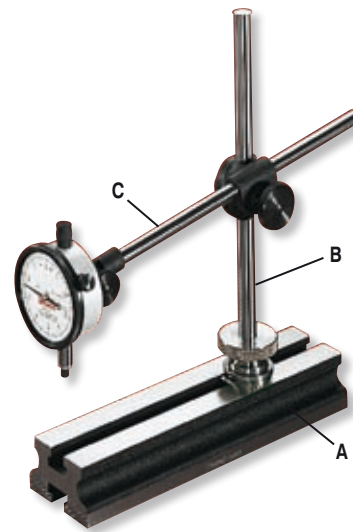
The Starrett 660 Series Magnetic Base Indicator Holder with Triple-Jointed Arm is compact and versatile and comes complete with three adjustable pivots controlled by a single knob for fast, easy indicator positioning.

The new Starrett 661A Mini Magnetic Base and Indicator Holder is ideal when using a dial test indicator or universal indicator. Simple moveability for set up and adjusting.

- *Very sensitive fine-adjustment thumb screw on 3657AA and 660.*
- *660 Series - Small but, powerful magnetic base, with 70lbs holding force.*
- *660 Series - Articulating arm with powerful central locking knob, provides full 360° horizontal positioning and over 180° vertical positioning.*
- *661 Series - NEW DESIGN. Universal mechanical device and extension stem.*
- *661 Series - Simple to use.*

Cat No	Dimensions	Height Total	Column	Item No
3657AA	63 x 55 x 50mm	230mm	Standard	DJ600
3657MTW	380mm Vertical Reach 250mm Horizontal Reach	250mm	Flexible Post	DG752
660	40 x 35 x 30mm	190mm	3 Adjustable Pivots	DG912
661A	30mm Base Diameter	103mm	Mini Standard	DG915

665 SERIES - DIAL GAUGE STAND



This is the most versatile dial indicator holder with an extremely stable base (A) that is 215mm (8.1/2") long x 57mm (2.1/4") wide at the bottom. It can inspect workpieces on the top surface of the ground base or within a working area defined by the 200mm (8") upright base post (B) and the 238mm (9.1/2")

long gauge-holding rod (C). The base post can be conveniently located anywhere along the 215mm (8.1/2") T-slot in the base.

Please note that the indicator is sold separately.

Cat No	Length of Base	Height Total	Gauge Holding Rod Length	Item No
665Z	215mm	200mm	238mm	DH180

653 SERIES - DIAL GAUGE STAND WITH CAST IRON BASE



This bench type comparator is ruggedly built for in-process and final inspection work. The dial indicator can be adjusted vertically and locked in any position. A sliding ring with locking screw below the beam permits swinging the indicator to either side. The ring also acts as a safety device, preventing the beam from accidentally dropping. There is a fine adjustment on the beam for final indicator setting.

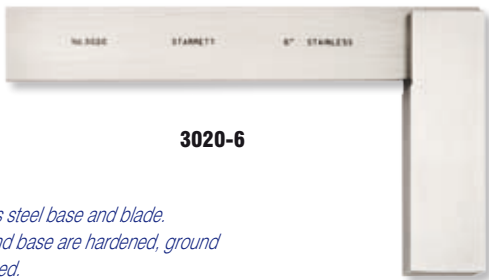
The hand lifting lever on the indicator raises the spindle and releases it to contact the work. Vertical capacity 235mm (9.1/4") and throat depth of 125mm (5") and a vertical indicator fine adjustment of up to 12.7mm (1/2").

Please note that the indicator is sold separately.

Cat No	Description	Item No
653	Comparator With Cast Iron Base, Without Indicator	DF687

3020 & 60 SERIES - PRECISION STEEL SQUARES

With Base



3020-6

- *Stainless steel base and blade.*
- *Blade and base are hardened, ground and lapped.*

Cat No	Specifications	Accuracy	Item No
3020M-75	75mm	0.005mm per 150mm of blade	DR93580
3020M-100	100mm		DR93581
3020M-150	150mm		DR93582
3020M-300	300mm		DR93583
S3020MZ	Set Of 4 (One Of Each Size Listed Above)		DR93590
3020-3	3"	0.0002" per 6" of blade	DR93555
3020-4	4"		DR93556
3020-6	6"		DR93557
3020-12	12"		DR93560

Plain - Without Base



60F-200

- *Stainless steel blade.*
- *Blade is hardened, ground and lapped.*

Cat No	Specifications	Accuracy	Item No
60F-75	75 x 50mm	0.005mm per 150mm of blade	BM1450
60F-100	100 x 70mm		BM1452
60F-150	150 x 100mm		BM1454
60F-200	200 x 130mm		BM1456

Bevel - Without Base

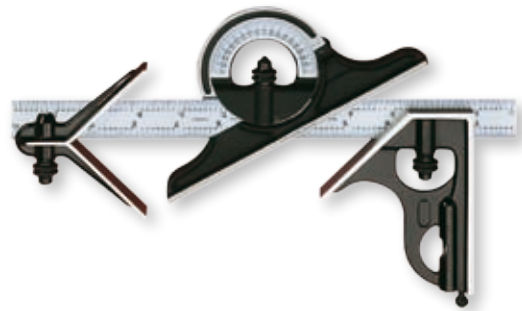


60B-200

- *Stainless steel blade.*
- *Blade is hardened, ground and lapped.*

Cat No	Specifications	Accuracy	Item No
60B-50	50 x 40mm	0.005mm per 150mm of blade	BM1400
60B-75	75 x 50mm		BM1402
60B-100	100 x 70mm		BM1404
60B-150	150 x 100mm		BM1406
60B-200	200 x 130mm		BM1408

COMBINATION SETS



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 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	Blade	Item No
9M-300	300mm	mm & 1/2mm Both Sides	Regular	BH047
9M-600	600mm			BH057
9ME-300	300mm / 11.3/4"	1/2mm & 32nds One Side mm & 64ths Reverse Side		BH052
9ME-600	600mm / 23.1/2"			BH062
435ME-300	300mm / 11.3/4"			CQ842
435ME-600	600mm / 23.1/2"			CQ847
435-12-4R	12"	8ths, 16ths, Quick Reading, 32nds, 64ths		CQ812
435-24-4R	24"			CQ852

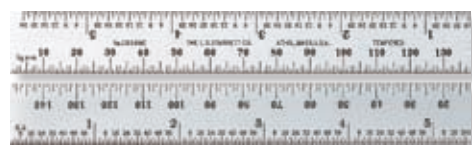
635 SERIES - STEEL RULES



Spring Tempered With MM Graduations

Cat No	Length	Width x Thickness	Graduation	Item No
C635-150	150mm	19 x 1.2mm	mm & 1/2mm Both Sides	DE607
C635-300	300mm	25.4 x 1.2mm		DE612
C635-500	500mm	29 x 1.2mm		DE617
C635-1000	1000mm	32 x 1.2mm		DE622

636 SERIES - STEEL RULES



Spring Tempered With MM/Inch Graduations

Cat No	Length	Width x Thickness	Graduation	Item No
C636ME-150	150mm / 5.3/4"	19 x 1.2mm	32nds & 1/2mm On One Side 64ths & mm On Reverse	DE731
C636-300	300mm / 11.3/4"	25.4 x 1.2mm		DE737
C636-500	500mm / 19.1/2"	29 x 1.2mm		DE742
C636-1000	1000mm / 39.1/4"	32 x 1.2mm		DE747

3015 SERIES - THICKNESS GAUGE



3015MA

After inserting work between the measuring contacts, releasing the lever will cause the spindle to contact the work, giving an accurate size reading because measuring pressure is independent of the user.

• Indicators have jewel bearings and continuous dials.

Cat No	Range	Graduation	Throat Depth	Item No
3015MA	0 - 10mm	0.01mm	63mm	DP634
3015A	0 - 0.5"	0.001"	2.1/2"	DP6335

66, 173 & 467 SERIES - THICKNESS GAUGES



Cat No	Range (mm)	No of Leaves	Size of Leaves	Item No
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, 1.00	20	12.7 x 77mm	BM607
173MAT	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50	13	12.7-7 x 77mm	BU762
173MCT			12.7-7 x 152mm	BU767
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, 5.00		12.7 x 114mm	CX577

Note:

66MA and 467M Series - MM Reading Thickness Gauges With Straight Leaves. 173 Series - MM Reading Thickness Gauges With Tapered Leaves.

245 SERIES - ENGINEERS' COMBINATION TAPER, WIRE & THICKNESS GAUGE



Consisting of a wire gauge, a taper gauge for measuring slot widths, and an assortment of thickness gauge leaves all folding within a compact steel case. The gauge measures 12.7mm wide x 120mm long (1/2" x 4.3/4") and has a locking device to lock any leaf or leaves in position.

Series 245M has a taper gauge leaf for measuring slot widths from 0.5 - 5mm in 0.5mm, the reverse side having an 80mm scale graduated in mm and 1/2mm. It has eleven thickness or feeler leaves as follows: 0.04, 0.05, 0.06, 0.07, 0.08, 0.10, 0.15, 0.20, 0.30, 1 and 2mm.

Series 245 has a taper gauge leaf for measuring slot widths from 1/64" - 3/16" in 64ths of an inch, the reverse side having a 3" scale graduated in 8ths and 16ths. It has nine thickness or feeler leaves as follows: 0.002", 0.003", 0.004", 0.006", 0.008", 0.010", 0.012", 0.015" and 1/16".

Cat No	Description	Item No
245M	With Taper Gauge, English Standard Wire Gauge and 11mm Reading Thickness Gauge Leaves	CD957
245	With Taper Gauge, English Standard Wire Gauge and 9 inch Reading Thickness Gauge Leaves	CD952

269 SERIES - TAPER GAUGES



These gauges are for determining hole sizes in dies and all kinds of other work. They read in 0.02mm or thousandths of an inch.

Made of tempered steel with a locking device for fixing any leaf in position for use.

Cat No	Range	Graduation	Length	No of Leaves	Item No
269MA	2 - 12mm	0.02mm	64mm	10	CI802
269MB	12 - 25mm		70mm	13	CI807
269A	0.100 - 0.500"	0.001"	2.1/2"	8	CI792
269B	0.500 - 1"		2.3/4"	10	CI797

270 SERIES - TAPER GAUGE



The 270 Series Taper Gauge is a very useful tool, especially for bearing work and for gauging slots.

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	Item No
270	0.3 - 4mm / 0.010 - 0.150"	0.05mm / 0.001"	CI913

**667 SERIES - THICKNESS GAUGE
"FEELER STOCK"**



Metric gauges 300mm long.

Inch gauges 12" long.

Cat No	Thickness	Item No
667M-3	0.03mm	DH812
667M-4	0.04mm	DH817
667M-5	0.05mm	DH822
667M-6	0.06mm	DH827
667M-8	0.08mm	DH837
667M-10	0.10mm	DH842
667M-15	0.15mm	DH847
667M-20	0.20mm	DH852
667M-25	0.25mm	DH857
667M-30	0.30mm	DH862
667M-35	0.35mm	DH867
667M-40	0.40mm	DH872
667M-45	0.45mm	DH877
667M-50	0.50mm	DH882
667-1/2	0.0005"	DH637
667-1	0.001"	DH642
667-1.1/2	0.0015"	DH647
667-2	0.002"	DH652
667-2.1/2	0.0025"	DH657
667-3	0.003"	DH662
667-4	0.004"	DH667
667-5	0.005"	DH672
667-6	0.006"	DH677
667-7	0.007"	DH682
667-8	0.008"	DH687
667-9	0.009"	DH692
667-10	0.010"	DH697
667-11	0.011"	DH702
667-12	0.012"	DH707
667-13	0.013"	DH712
667-14	0.014"	DH717
667-15	0.015"	DH722
667-16	0.016"	DH727
667-17	0.017"	DH732
667-18	0.018"	DH737
667-19	0.019"	DH742
667-20	0.020"	DH747
667-21	0.021"	DH752
667-22	0.022"	DH757
667-23	0.023"	DH762
667-24	0.024"	DH767
667-25	0.025"	DH772
667-26	0.026"	DH777
667-27	0.027"	DH782
667-28	0.028"	DH787
667-29	0.029"	DH792
667-30	0.030"	DH797

**666 SERIES - FEELER STOCK
ROLL IN DISPENSER**



Metric rolls 7.6M length.

Imperial rolls 25' length.

Cat No	Thickness	Item No
666M-3	0.03mm	DH467
666M-4	0.04mm	DH472
666M-5	0.05mm	DH477
666M-6	0.06mm	DH482
666M-8	0.08mm	DH492
666M-10	0.10mm	DH497
666M-15	0.15mm	DH502
666M-20	0.20mm	DH507
666M-25	0.25mm	DH512
666M-30	0.30mm	DH517
666M-35	0.35mm	DH522
666M-40	0.40mm	DH527
666M-45	0.45mm	DH532
666M-50	0.50mm	DH537
666-1	0.001"	DH232
666-1.1/2	0.0015"	DH337
666-2	0.002"	DH342
666-2.1/2	0.0025"	DH347
666-3	0.003"	DH352
666-4	0.004"	DH357
666-5	0.005"	DH362
666-6	0.006"	DH367
666-7	0.007"	DH372
666-8	0.008"	DH377
666-9	0.009"	DH382
666-10	0.010"	DH387
666-11	0.011"	DH392
666-12	0.012"	DH397
666-13	0.013"	DH402
666-14	0.014"	DH407
666-15	0.015"	DH412
666-16	0.016"	DH417
666-17	0.017"	DH422
666-18	0.018"	DH427
666-19	0.019"	DH432
666-20	0.020"	DH437
666-21	0.021"	DH442
666-22	0.022"	DH447
666-23	0.023"	DH452
666-24	0.024"	DH457
666-25	0.025"	DH462

SCREW PITCH GAUGES



Quickly determine the pitch of various threads, these gauges consist 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.

International Metric Standard - 60° Threads				
Cat No	Range of Pitches	No of Leaves	Pitches In MM	Item No
156M	0.25 - 2.50mm	28	0.25,0.30,0.35,0.40,0.45,0.50,0.55,0.60,0.65,0.70,0.75,0.80,0.85,0.90,1.1,1.10,1.20,1.25,1.30,1.40,1.50,1.60,1.70,1.75,1.80,1.90,2.2,2.50	BT072
159M	0.5 - 11.5mm		0.5,0.75,1.1,1.10,1.25,1.50,1.75,2.2,2.50,3.3,5.0,4,4.5,5.5,5.0,6.6,6.50,7.7,7.50,8.8,50,9.9,50,10,10.50,11,11.50	BT282

Whitworth Standard - 55° Threads				
Cat No	TPI Range	No of Leaves	Threads Per Inch (TPI)	Item No
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	CY592

American National - 60° Threads				
Cat No	TPI Range	No of Leaves	Threads Per Inch (TPI)	Item No
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	BS967
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	BG802
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	CY382
472	4 - 84	51	<p>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</p> <p>Second Corner 17 Leaves: 20,22,24,26,27,28,30,32,34,36,38,40,42,44,46,48,50</p> <p>Third Corner 17 Leaves: 52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84</p>	CY172

167 & 272 SERIES - RADIUS GAUGES



S167MCHZ

272MA

Radii or fillets can be checked or laid out easier, faster and more accurately with Starrett 167 Series Radius Gauges. They are available individually and in sets. Each set is furnished in an attractive case which provides complete protection and easy, instant selection of the right gauge size for the job.

272 Series - An external and internal radius on each leaf permits both concave and convex surfaces to be measured. The leaves are specially shaped for use in any position at any angle to measure fillets and radii in corners or against shoulders. Each leaf is stamped with a radius size and has an eccentric mounting for clearance between the leaf and the case when opened.

Cat No	Radii Range	Increments	No of Leaves	Item No
S167MCHZ	0.5 - 15mm	0.5mm - 1mm	22	BU402
272MA	0.75 - 5mm	0.25mm	18	CJ142
272MB	5.5 - 13mm	0.5mm	16	CJ147

73, 79 & 83 SERIES - SPRING-TYPE DIVIDERS & CALIPERS



73B-6

79B-6

83B-6



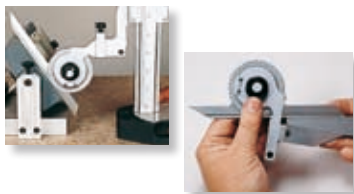
Quick adjusting spring nut - makes fast, accurate settings.

Cat No	Size and Approx. Capacity	Type	Item No
83B-4	100mm / 4"	Spring Divider With Quick Adjusting Spring Nut	BO298
83B-6	150mm / 6"		BO303
83B-8	200mm / 8"		BO307
83B-12	300mm / 12"		BO317
79B-4	100mm / 4"	Outside Spring Caliper With Quick Adjusting Spring Nut	BN718
79B-6	150mm / 6"		BN723
79B-8	200mm / 8"		BN727
79B-12	300mm / 12"		BN737
73B-4	100mm / 4"	Inside Spring Caliper With Quick Adjusting Spring Nut	BN198
73B-6	150mm / 6"		BN203
73B-8	200mm / 8"		BN207
73B-12	300mm / 12"		BN217

359 SERIES - UNIVERSAL BEVEL VERNIER PROTRACTOR



C359BZ

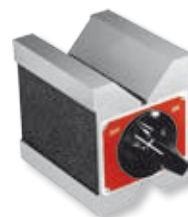


These tools are designed for precision measuring and for laying out angles. The protractor is one of the most valuable and useful tools for the kit of every good toolmaker, inspector or machinist.

- *Satin chrome finish on all reading surfaces.*
- *Sharp, machine divided graduations.*
- *Machine divided graduations read to 5 minutes (1/12 of a degree) and accuracy is finer than can be read.*
- *The most convenient, ultra sensitive fine adjustment for precision setting.*

Cat No	Length	Graduation	Item No
C359DZ	300mm / 12"	5 min. or 1/12 degree	CN282

3566 SERIES - DUAL-VEE MAGNETIC V-BLOCK



3566

Starrett Magnetic V-Blocks are designed for versatility and accuracy. All working surfaces are precision ground with typical Starrett accuracy to provide convenient set-ups for inspection and light machining.

- *A powerful, permanent magnet is controlled by a rotary switch and provides sufficient holding power for positive location.*

Cat No	Dimensions	Capacity	Type	Item No
3566	95 x 70 x 95mm	44mm	Individual	DB627

19 & 183 SERIES - STEEL PROTRACTORS



C19



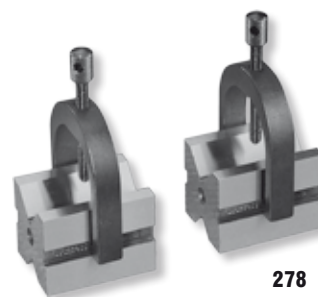
C183

Starrett C19 and C183 Steel Protractors are highly useful and accurate tools for setting bevels, transferring angles, small squaring tasks, checking cutter clearances within certain limits and many other applications. C183 Series has a rectangular head, thus providing four convenient working edges.

- *Double graduations from 0 - 180° in opposite directions permitting the direct reading of angles and supplementary angles.*
- *The back of the tool is flat for ease of use.*
- *The blade can be locked firmly at any angle by the lock nut.*
- *Satin chrome finish for ease of reading and resistance to rust.*

Cat No	Blade Length	Range	Head Type	Item No
C19	150mm / 6"	0 - 180°	Semi-Circular	BI572
C183			Rectangular	BV642

V-BLOCKS & CLAMPS



278

Starrett No. 278 V-Blocks are precision ground to extreme accuracy. The vees are central, parallel and square with the ends and sides.

- *Blocks are made of steel, hardened and ground to extreme accuracy. The vees in each set are always in alignment.*

Cat No	Dimensions	Range	Type	Item No
278	40 x 32 x 32mm	25mm / 1"	Pair	CJ612
568C	75 x 63 x 50mm	50mm / 2"	Pair	DB952
578	133 x 86 x 75mm	100mm / 4"	Individual	DC770

AM-2 - ANGLE METER



Starrett AM-2 Angle Meter offers a fast, easy and inexpensive way to measure angles.

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

Cat No	Dimensions	Item No
AM-2	125 x 125mm	DS0002

3097 SERIES - PRECISION LEVEL



Supplied In Aluminium Case

- *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	Item No
3097Z	200mm	DR90520

130 SERIES - BENCH LEVEL



A very handy, compact bench level with a sensitive and highly accurate single vial. The body is made of seasoned cast iron with black wrinkle finish and an accurately machined base levelling surface.

Cat No	Size	Description	Item No
130	85mm / 3.3/8"	With Main Vial	BR847

98 SERIES - MACHINISTS' LEVELS



98-6

These levels have ground and graduated main vials. All sizes have a cross test vial except for the 100mm (4") model. The 300mm (12") has a plumb vial and the 450mm (18") has a double plumb vial.

• *The base of the levels features an involute groove running the length of the base, which provides a reliable seat for round work such as pipes or shafting.*

Cat No	Size	Description	Item No
98-4	100mm / 4"	Without Cross Test Vial	BP422
98-6	150mm / 6"	With Cross Test Vial	BP427
98-8	200mm / 8"		BP432
98-12	300mm / 12"	With Single Plumb Vial and Cross Test Vial	BP437
98-18	450mm / 18"	With Double Plumb Vial and Cross Test Vial	BP447

154 SERIES - ADJUSTABLE PARALLELS



Starrett adjustable parallels provide a wide range of use in layout, gauging, inspection work and for setups on various machine tools. Their adjustable feature makes it possible to adjust them to exact size by micrometer measurement and also permits use in place of several solid-type parallels. These parallels are useful as gauges in checking the size of slots and openings. They are

also convenient for use in machine vises for levelling or adjusting work on setups of milling and grinding machines, shapers, planers, drill presses and for many other applications. Parallels slide smoothly and can be easily adjusted. The smaller sizes A, B and C are locked by one screw while the larger sizes, D, E and F have two locks screws. All parallels are 7mm (9/32") thick.

Cat No	Range	Length	Item No
154A	9.5mm - 12.7mm / 3/8" - 1/2"	45mm / 1.3/4"	BS827
154B	12.7mm - 17.5mm / 1/2" - 11/16"	55mm / 2.1/8"	BS832
154C	17.5mm - 24mm / 11/16" - 15/16"	70mm / 2.11/16"	BS837
154D	24mm - 33mm / 15/16" - 1.5/16"	90mm / 3.9/16"	BS842
154E	33 - 44mm / 1.5/16" - 1.3/4"	105mm / 4.3/16"	BS847
154F	44 - 57mm / 1.3/4" - 2.1/4"	130mm / 5.1/16"	BS852
S154SZ	Set Of 4 Parallels - Sizes A, B, C, D - In Case		BS862
S154LZ	Set Of 6 Parallels - Sizes A, B, C, D, E, F - In Case		BS857

384 SERIES - STEEL PARALLELS



Starrett 384 Series Steel Parallels are hardened and ground to close limits. They are indispensable for inspection and layout work or for various setups on drill presses, milling and grinding machines, shapers, etc. Furnished in pairs, 150mm (6") length,

they are made from a special grade of tool steel, hardened and accurately ground on the four sides. In tool rooms or machine shops, several pairs of these parallels will be of great value.

Cat No (Pair)	Thickness	Width	Item No
384A	1/8" (3mm)	1" (25mm)	CO662
384C	3/16" (5mm)	7/8" (22mm)	CO672
384E	1/4" (6mm)	3/4" (19mm)	CO684
384F		1" (25mm)	CO687
384G	3/8" (10mm)	1/2" (13mm)	CO694
384H		3/4" (19mm)	CO697
384M	1/4" (6mm)	3/8" (10mm)	CO700
384N		1/2" (13mm)	CO7001
384P		5/8" (16mm)	CO7002
384R	3/8" (10mm)	1" (25mm)	CO7003
384S	1/2" (13mm)	5/8" (16mm)	CO7004
384T		3/4" (19mm)	CO7005
384W		1" (25mm)	CO7006
384X		1.1/8" (28mm)	CO7007
384Y		1.1/4" (31mm)	CO7008
S384JZ	Set Of 4 Pairs - Sizes A, C, E, G - In Case		CO702
S384-1Z	Set Of 4 Pairs - Sizes N, M, P, F - In Case		CO707
S384-2Z	Set Of 4 Pairs - Sizes G, H, R, M - In Case		CO712
S384-3Z	Set Of 5 Pairs - Sizes S, T, W, X, Y - In Case		CO713

18 SERIES - AUTOMATIC CENTRE PUNCHES WITH ADJUSTABLE STROKE



18A

Rugged automatic punches have all-steel handles and parts. 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	Description	Item No
18AA	100mm / 4"	11mm / 7/16"	Punch	BI447
18A	125mm / 5"	14mm / 9/16"	Punch	BI452
18C	130mm / 5.1/4"	17mm / 11/16"	Heavy Duty Punch	BI462

117 SERIES - CENTRE PUNCHES



These centre punches are made of specially selected steel, hardened and properly tempered. They are well proportioned, nicely finished and have a knurled finger grip.

Cat No	Length	Diameter At Top Of Tapered Pt	Item No
117AA	75mm / 3"	1.5mm / 1/16"	BQ592
117A	100mm / 4"	2mm / 5/64"	BQ597
117B		2.5mm / 3/32"	BQ602
117C		3mm / 1/8"	BQ607
117D		4mm / 5/32"	BQ612
117E	125mm / 5"	6.5mm / 1/4"	BQ617
S117PC	Set Of 5 Punches - 117AA, A, B, C, D In Protective Case		BQ627

565 SERIES - DRIVE PIN PUNCHES



S565WB

Starrett 565 Series Drive Pin Punches are well proportioned, hardened, properly tempered, nicely finished and have a knurled finger grip. Each punch has the size stamped on the head.

Cat No	Length	Diameter Punch	Item No
565A	4" (100mm)	1/16" (1.5mm)	DB477
565B		3/32" (2.5mm)	DB482
565C		1/8" (3mm)	DB487
565D		5/32" (4mm)	DB492
565E		3/16" (5mm)	DB497
565F		7/32" (5.5mm)	DB502
565G		1/4" (6mm)	DB507
565H		5/16" (8mm)	DB512
S565WB	Set of 8 Punches (1 of each size) in Red Round Plastic Box		DB517

248 SERIES - LONG RANGE DRIVE PIN PUNCHES



Starrett Long Range Drive Pin Punches are extra-long, measuring 200mm (8"). The bodies are 115mm (4.1/2") and the drive pin sections are 90mm (3.1/2") long. They are well-proportioned, hardened, properly tempered and have a knurled grip. Designed to withstand hard use and provide a most satisfactory punch for machine shop and motor service work.

Cat No	Length	Diameter Punch	Item No
248A	200mm / 8"	1/8" (3mm)	CE332
248B		3/16" (5mm)	CE337
248C		1/4" (6mm)	CE342
248D		5/16" (8mm)	CE347
248E		3/8" (9.5mm)	CE352
S248PC	Set of 5 Punches (1 of each size) in Protective Vinyl Case		CE362

B565 SERIES - BRASS DRIVE PIN PUNCHES



SB565Z

Starrett regular punches, made of hardened, tempered steel able to withstand heavy duty work are occasionally too hard and can damage softer materials. Hence, the introduction of our new brass punches.

Ideal for softer material as the punches are much softer than the steel version. A good approach is to use a brass punch to gently produce the initial movement of delicate work then, finish the job with a steel punch.

Cat No	Length	Diameter Punch	Item No
B565A	4" (100mm)	1/16" (1.5mm)	DB5230
B565B		3/32" (2.5mm)	DB5231
B565C		1/8" (3mm)	DB5232
B565D		5/32" (4mm)	DB5233
B565E		3/16" (5mm)	DB5234
B565F		7/32" (5.5mm)	DB5235
B565G		1/4" (6mm)	DB5236
B565H		5/16" (8mm)	DB5237
SB565Z	Set of 8 Punches (1 of each size) in Protective Durable Fabric Pouch		DB5238

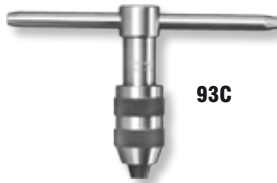
162 SERIES - PIN VISES



Pin vise handles are reduced in size so that they can be rapidly rotated between thumb and finger when filing small work.

Cat No	Range	Item No
162A	0 - 1mm / 0 - 0.040"	BT622
162B	0.8 - 1.6mm / 0.030" - 0.062"	BT627
162C	1.3 - 3.2mm / 0.050" - 0.125"	BT632
162D	2.9 - 4.8mm / 0.115" - 0.187"	BT637
S162Z	Set of All 4 Sizes in Protective Vinyl Case	BT647

93 SERIES - T-HANDLE TAP WRENCHES



Starrett 93 Series T-Handle Tap Wrenches are for holding taps, drills, reamers and other small tools to be turned by hand. The body is centred, enabling the worker to use it on lathe centres or on an upright drilling machine to start the tap straight. The jaws conform to the tool being held, making it rigid and less apt to loosen. They are properly heat treated to

withstand ordinary shop use. All wrenches have a sliding handle that is frictionally held. This feature permits the handle to be removed entirely or positioned so that leverage can be applied when working in close quarters.

Cat No	Tap Size		Square Shank		Body Length	Item No
93A	1.6 - 4.7mm	1/16" - 3/16"	1.6 - 4mm	1/16" - 5/32"	50mm / 2"	BP292
93B	5.5 - 11mm	7/32" - 7/16"	4 - 6.4mm	5/32" - 1/4"	65mm / 2.1/2"	BP297
93C	6.4 - 12.7mm	1/4" - 1/2"	4.7 - 8mm	3/16" - 5/16"	90mm / 3.1/2"	BP302
93D	1.6 - 4.7mm	1/16" - 3/16"	1.6 - 4mm	1/16" - 5/32"	150mm / 6"	BP307
93E	5.5 - 11mm	7/32" - 7/16"	4 - 6.4mm	5/32" - 1/4"	250mm / 10"	BP312
93F	6.4 - 12.7mm	1/4" - 1/2"	4.7 - 8mm	3/16" - 5/16"	330mm / 13"	BP317

70 SERIES - POCKET SCRIBER



The handle is of steel, knurled and nickel plated. The scriber point is steel, properly hardened and finely tapered so that the location of the point is not obscured. The scriber is held firmly in the handle by a

knurled chuck and when not in use can be reversed, telescoped into the handle and locked by the chuck. The hexagon-shaped head prevents rolling.

Cat No	Length	Point	Item No
70A	125mm	Steel	BM937
70B	145mm		BM942
70AX	125mm	Carbide	BM947
70BX	145mm		BM952

827 SERIES - EDGE FINDERS



Work surfaces may be located easily, quickly and accurately with these edge finders. Work with flat, straight edges, shoulders, grooves, round work, studs, dowels or centre points and scribed lines - all can be accurately

located with this handy tool. Body and contacts are made of tool steel, hardened, ground and lapped to close tolerances for diameter and concentricity.

How To Use:

Edge finders are easy to use. They are placed in a collet or chuck. The worktable is then traversed to obtain contact between the rotating edge finder and the work. Contact will shift to concentric position relative to the body and with very slight additional table adjustment, will move off centre with a decided wobble. At this point, the centre of the finder is exactly one-half the diameter of the contact from the work edge, permitting accurate location for other machining

operations relative to the edge. For locating centre points and scribed lines, the pointed contact is used by putting a pencil or rule against the centre point and making it run concentrically. Then the point is brought down to the centre point or intersection of scribed lines and the table is adjusted so that when the tool barely touches the work, the lineup with the point in question can be ascertained.

Collet Adaptor



This is a timesaving accessory for our 827 Series Edge Finders. It allows for quick installation and removal of the edge finder, eliminating the need for collet changes on Bridgeports and similar machines. It can also be used with any other attachment with a 9.5mm (3/8") post.

Cat No	Description	Body Diameter	Contact Diameter	Item No
827MA	Single End	10mm	6mm	DN984
827A		0.375"	0.200"	DN974
827MB	Double End	10mm	6mm & Pointed Contact	DN985
827B		0.500"	0.200" & Pointed Contact	DN979

Cat No	Description	Item No
PT28314	Collet Adaptor	PT28314

828 SERIES - CENTRE FINDER SET



Attachments are snapped in chuck without removing collet nut and clamped by a ball swivel joint.

Cat No	Description	Item No
828A	Wiggler / Centre Finder With Pointed Shank	DO103
828B	Ball Contact Only (6.35mm / 0.250" Ball)	DO109
828C	Disc Contact Only (2.54mm / 0.100" Disc)	DO113
828D	Offset Indicator Holder Only	DO118
PT09186	Pointed Shank Only	09186
S828HZ	Wiggler / Centre Finder, Complete With Case & 4 Attachments, No. 828B, C, D & PT09186	DY659

GAUGE BLOCK SETS



Manufactured from high grade steel to ISO 3650 Grade 0 or Grade 1. All sets include UKAS Calibration Certificate.

Cat No	Set Configurations	No of Blocks in Case	Item No
3047.0	1.005, 1.01 to 1.19 by 0.01mm step, 1.2 to 1.9 by 0.1mm step, 1-10 by 1mm step, 20-100 by 10mm step	47 Grade "0"	DV0620
3047.1		47 Grade "1"	DV0621
3088.0	1.0005, 1.001 to 1.009 by 0.001mm step, 1.01 to 1.49 by 0.01mm step, 0.5 to 9.5 by 0.5mm step, 10-100 by 10mm step.	88 Grade "0"	DV0622
3088.1		88 Grade "1"	DV0623

RECTANGULAR GAUGE BLOCK ACCESSORIES



Individual Accessories		No of Steel Accessories Included		EDP No
Description	Cat No		Set No. AC 11.MA	
	Steel	Croblox®		
Half-Round Jaw ** 5mm Radius	RA 101.		2	91464
Straight Jaw ** 5mm Thick	RA 104.	RA 204.	2 *	91465 (104) 91469 (204)
Clamps				
0 - 38mm Capacity	RA 5.		1	92800
38 - 100mm Capacity	RA 6.		1	91420
100 - 165mm Capacity	RA 7.		1	91421
0 - 300mm Capacity	RA 8.		1	91422
Scriber Point	RA 11.		1	91424
Centre Point, 2mm C/L	RA 112.		1	91466
Base Block, 25mm Thick	RA 113.		1	91467
Case (CS 9111)	DT383		1	92299

* Croblox® jaws available as an option at extra cost. Please specify.

** Jaws are normally used in pairs, but are ordered individually. Please order accordingly.

CHARCOAL BLACK GRANITE SURFACE PLATES



Our charcoal black granite has a high quartz content which provides greater resistance to wear and damage than other black granite plates. This material has low water absorption rates, thus minimising the possibility of precision

gauges rusting while setting on the plates. Chosen specifically to minimise thermal expansion. All surface plates include UKAS Calibration Certificate.

No Ledge

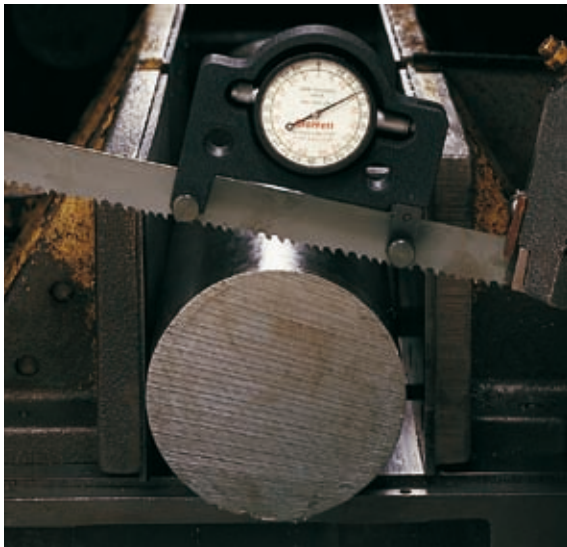
Cat No	Surface Size		Thickness		Flatness Unilateral Tolerance		Approx Wt (Kgs)	Item No
	mm	Inch	mm	Inch	mm	Inch		
3040-25	400 x 250	16" x 10"	100	4"	0.0012	0.000050"	25	DU7100
3040-40	400 x 400	16" x 16"					39	DU7102
3063-40	630 x 400	25" x 16"	120	5"	0.0019	0.000075"	113	DU7104
3063-63	630 x 630	25" x 25"					150	DU7106
3100-63	1000 x 630	40" x 25"	160	6"	0.0025	0.000100"	225	DU7108
3100-100	1000 x 1000	40" x 40"					338	DU7110
3160-100	1600 x 1000	64" x 40"	200	8"	0.0050	0.000200"	599	DU7112
3200-100	2000 x 1000	80" x 40"	240	10"	0.0063	0.000250"	937	DU7114

SURFACE PLATE STANDS



Cat No	Surface Size		Approx Weight (Kgs)	Stationery Stand Item No
	mm	Inch		
SD3063-40	630 x 400	25" x 16"	23	DU804
SD3063-63	630 x 630	25" x 25"	29	DU806
SD3100-40	1000 x 630	40" x 25"	34	DU808
SD3100-100	1000 x 1000	40" x 40"	39	DU810
SD3160-100	1600 x 1000	64" x 40"	43	DU812
SD3200-100	2000 x 1000	80" x 40"	66	DU814

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	Item No
682EMZ	Saw Tension Gauge	DK037

696 SERIES - CRANKSHAFT DISTORTION DIAL/STRAIN GAUGE



An ideal gauge for checking bearing alignment or shaft deflection without dismantling the engine. Also useful as a strain gauge on engine frames. This inside measuring gauge checks the distortion of crankshafts webs. This distortion bears a direct relation to existing misalignment or excessive bearing wear. The gauge makes it possible to check bearing alignment or undue 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.

A comparison of readings taken at top and bottom positions indicates any misalignment of cylinder and frame which results in local over-stress and eventual cracking of the frame neck. A special spring tension in the dial indicator, the gauge is self-sustaining in any position without sacrificing necessary rigidity, thus leaving the operators hands free. The contact points are conical, with an approximate 60° included angle, hardened and ground to a sharp point, and will stay in place on 45° surfaces.

Cat No	Range	Graduation	Item No
696MZ	61 - 458mm	0.02mm	DK147

7793 SERIES - POCKET LASER TACHOMETER KIT WITH CASE

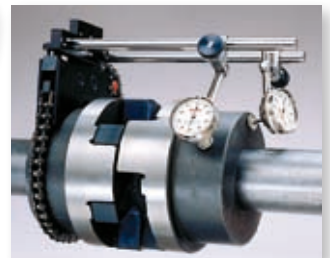
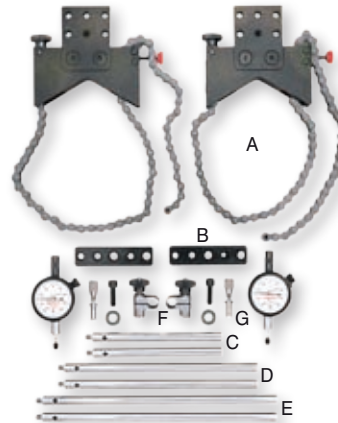


The Pocket Laser Tachometer is a digital, battery operated portable optical tachometer that can operate up to 25 feet from a reflective target using a laser light source. The powerful 32 function Tachometer/Ratemeter, Totaliser/Counter and Timer

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	Range		Accuracy		Item No
	Optical (RPM)	Contact (RPM)	Optical	Contact	
S7793Z	5 to 200,000	0.5 to 20,000	±0.01% of Reading	±0.05% of Reading	DM595

668 SERIES - SHAFT ALIGNMENT CLAMP SETS



S668 mounted on coupling.

The Starrett Shaft Alignment Clamp is designed for fast, precise alignment of motors, pumps, compressors, etc. This system is capable of addressing radial and angular misalignment problems and can be set up within minutes.

Products in photo (Cat No.): **A.** Chain Clamp Only (668); **B.** Extension Plate Screw, Washer (PT99529); **C.** 125mm (5") Post (PT27981); **D.** 186mm (7-7/16") Post (657G); **E.** 225mm (9") Post (PT27982); **F.** Snug Complete (PT18724); **G.** Indicator Attachment (657Y).

- *Lightweight clamp design made of black anodized aluminium.*
- *Rigid 9.5mm (3/8") diameter stainless steel indicator posts provided in three lengths.*
- *Extension plate allows for added radial clearance.*
- *Heavy duty roller chain can accommodate up to a 190mm (7-1/2") diameter shaft.*
- *Sets are available with either two Starrett Nos. 196MB5 or 81-181J Indicators.*
- *Excess roller chain can be secured to the side of the chain clamp.*
- *A second shaft alignment clamp can be mounted across from the first clamp to act as a vertical "target" for face alignment.*

Cat No	Description	Item No
S668A	1 each: Chain Clamp, Extension Plate, Posts 125mm (5"), 186mm (7-7/16"), 225mm (9"), Without Case	DH897
S668BZ	2 each: Chain Clamp, Extension Plate, Posts 125mm (5"), 186mm (7-7/16"), 225mm (9"), With Case	DH898

M1 SERIES - ALL PURPOSE LUBRICANT



All purpose lubricant which forms a unique air tight coating that simultaneously dries as it protects, unlike other lubricants which stay "wet" and attract dirt.

- Protection against corrosion.
- Releases seized nuts and bolts.
- Displaces moisture/non conductive.
- Cleans and protects tools and gauges.
- Preventative maintenance.
- Cleans and polishes.
- Stops squeaks and lubricates.
- Protects marine equipment.

Cat No	Description	Item No
M1-6	200ml Aerosol Can	DR918
M1-12	400ml Aerosol Can	DR9215



GRANITE SURFACE PLATE CLEANER



Allows surface plates and other precision granite products to be kept in perfect condition. All granite products should be cleaned frequently, this helps prevent abrasion of tools by dirt and other foreign

particles. The liquid cleaner, which also acts as a degreaser and rust inhibitor, should be used without water to minimise the risk of rusting tools.

Cat No	Capacity	Item No
Granite Surface Plate Cleaner	1 Quart (2 Pint) Bottle	DU923
Granite Surface Plate Cleaner	1 Gallon Bottle	DU927
Waterless Surface Plate Cleaner	0.5 Kg Container	DU947

1620 SERIES - TOOL & INSTRUMENT OIL



For mechanics, homeowners, sportsmen... This oil is the same extra-fine lubricant made to our specifications and used in our factories

worldwide to lubricate and protect our precision measuring tools and instruments.

Cat No	Capacity	Item No
1620	110ml	DR712



Decimals To Millimeters			
Decimal	mm	Decimal	mm
0.001	0.0254	0.500	12.7000
0.002	0.0508	0.510	12.9540
0.003	0.0762	0.520	13.2080
0.004	0.1016	0.530	13.4620
0.005	0.1270	0.540	13.7160
0.006	0.1524	0.550	13.9700
0.007	0.1778	0.560	14.2240
0.008	0.2032	0.570	14.4780
0.009	0.2286	0.580	14.7320
		0.590	14.9860
0.010	0.2540		
0.020	0.5080	0.600	15.2400
0.030	0.7620	0.610	15.4940
0.040	1.0160	0.620	15.7480
0.050	1.2700	0.630	16.0020
0.060	1.5240	0.640	16.2560
0.070	1.7780	0.650	16.5100
0.080	2.0320	0.660	16.7640
0.090	2.2860	0.670	17.0180
		0.680	17.2720
0.100	2.5400	0.690	17.5260
0.110	2.7940		
0.120	3.0480	0.700	17.7800
0.130	3.3020	0.710	18.0340
0.140	3.5560	0.720	18.2880
0.150	3.8100	0.730	18.5420
0.160	4.0640	0.740	18.7960
0.170	4.3180	0.750	19.0500
0.180	4.5720	0.760	19.3040
0.190	4.8260	0.770	19.5580
		0.780	19.8120
0.200	5.0800	0.790	20.0660
0.210	5.3340		
0.220	5.5880	0.800	20.3200
0.230	5.8420	0.810	20.5740
0.240	6.0960	0.820	20.8280
0.250	6.3500	0.830	21.0820
0.260	6.6040	0.840	21.3360
0.270	6.8580	0.850	21.5900
0.280	7.1120	0.860	21.8440
0.290	7.3660	0.870	22.0980
		0.880	22.3520
0.300	7.6200	0.890	22.6060
0.310	7.8740		
0.320	8.1280	0.900	22.8600
0.330	8.3820	0.910	23.1140
0.340	8.6360	0.920	23.3680
0.350	8.8900	0.930	23.6220
0.360	9.1440	0.940	23.8760
0.370	9.3980	0.950	24.1300
0.380	9.6520	0.960	24.3840
0.390	9.9060	0.970	24.6380
		0.980	24.8920
0.400	10.1600	0.990	25.1460
0.410	10.4140		
0.420	10.6680	1.000	25.4000
0.430	10.9220		
0.440	11.1760		
0.450	11.4300		
0.460	11.6840		
0.470	11.9380		
0.480	12.1920		
0.490	12.4460		

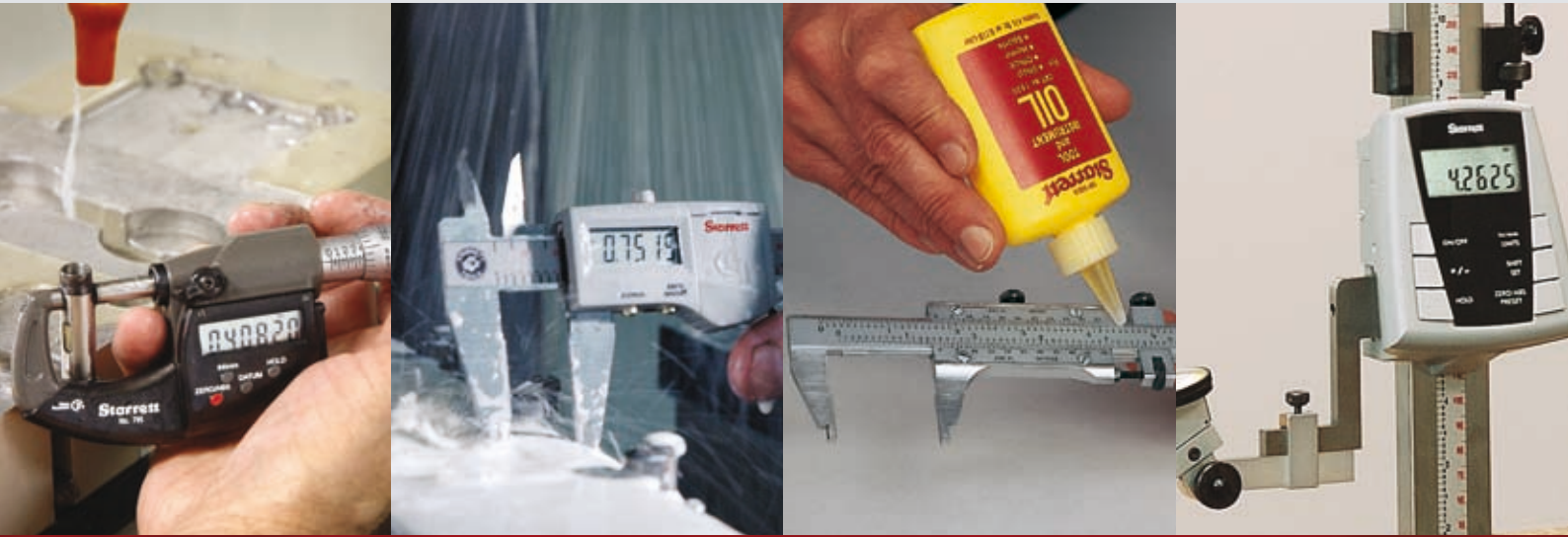
Millimeters To Inch			
mm	Decimal	mm	Decimal
0.01	0.00039	0.64	0.02520
0.02	0.00079	0.65	0.02559
0.03	0.00118	0.66	0.02598
0.04	0.00157	0.67	0.02638
0.05	0.00197	0.68	0.02677
0.06	0.00236	0.69	0.02717
0.07	0.00276	0.70	0.02756
0.08	0.00315	0.71	0.02795
0.09	0.00354	0.72	0.02835
0.10	0.00394	0.73	0.02874
0.11	0.00433	0.74	0.02913
0.12	0.00472	0.75	0.02953
0.13	0.00512	0.76	0.02992
0.14	0.00551	0.77	0.03031
0.15	0.00591	0.78	0.03071
0.16	0.00630	0.79	0.03110
0.17	0.00669	0.80	0.03150
0.18	0.00709	0.81	0.03189
0.19	0.00748	0.82	0.03228
0.20	0.00787	0.83	0.03268
0.21	0.00827	0.84	0.03307
0.22	0.00866	0.85	0.03346
0.23	0.00906	0.86	0.03386
0.24	0.00945	0.87	0.03425
0.25	0.00984	0.88	0.03465
0.26	0.01024	0.89	0.03504
0.27	0.01063	0.90	0.03543
0.28	0.01102	0.91	0.03583
0.29	0.01142	0.92	0.03622
0.30	0.01181	0.93	0.03661
0.31	0.01220	0.94	0.03701
0.32	0.01260	0.95	0.03740
0.33	0.01299	0.96	0.03780
0.34	0.01339	0.97	0.03819
0.35	0.01378	0.98	0.03858
0.36	0.01417	0.99	0.03898
0.37	0.01457	1.00	0.03937
0.38	0.01496		
0.39	0.01535		
0.40	0.01575		
0.41	0.01614		
0.42	0.01654		
0.43	0.01693		
0.44	0.01732		
0.45	0.01772		
0.46	0.01811		
0.47	0.01850		
0.48	0.01890		
0.49	0.01929		
0.50	0.01969		
0.51	0.02008		
0.52	0.02047		
0.53	0.02087		
0.54	0.02126		
0.55	0.02165		
0.56	0.02205		
0.57	0.02244		
0.58	0.02283		
0.59	0.02323		
0.60	0.02362		
0.61	0.02402		
0.62	0.02441		
0.63	0.02480		

Millimeters To Inch			
mm	Decimal	mm	Decimal
1	0.03937	64	2.51969
2	0.07874	65	2.55906
3	0.11811	66	2.59843
4	0.15748	67	2.63780
5	0.19685	68	2.67717
6	0.23622	69	2.71654
7	0.27559	70	2.75591
8	0.31496	71	2.79528
9	0.35433	72	2.83465
10	0.39370	73	2.87402
11	0.43307	74	2.91339
12	0.47244	75	2.95276
13	0.51181	76	2.99213
14	0.55118	77	3.03150
15	0.59055	78	3.07087
16	0.62992	79	3.11024
17	0.66929	80	3.14961
18	0.70866	81	3.18898
19	0.74803	82	3.22835
20	0.78740	83	3.26772
21	0.82677	84	3.30709
22	0.86614	85	3.34646
23	0.90551	86	3.38583
24	0.94488	87	3.42520
25	0.98425	88	3.46457
26	1.02362	89	3.50394
27	1.06299	90	3.54331
28	1.10236	91	3.58268
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31	1.22047	94	3.70079
32	1.25984	95	3.74016
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36	1.41732	99	3.89764
37	1.45669	100	3.937010
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63	2.48031		

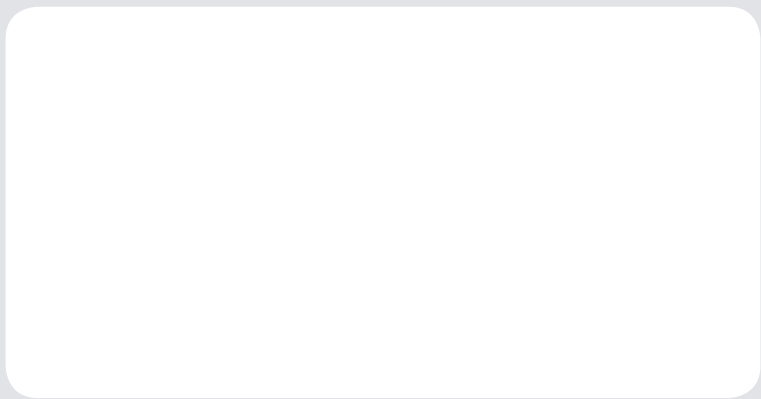
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