

Starrett®

PRECISION MEASURING TOOLS FOR AMMUNITION RELOADING AND GUNSMITHS

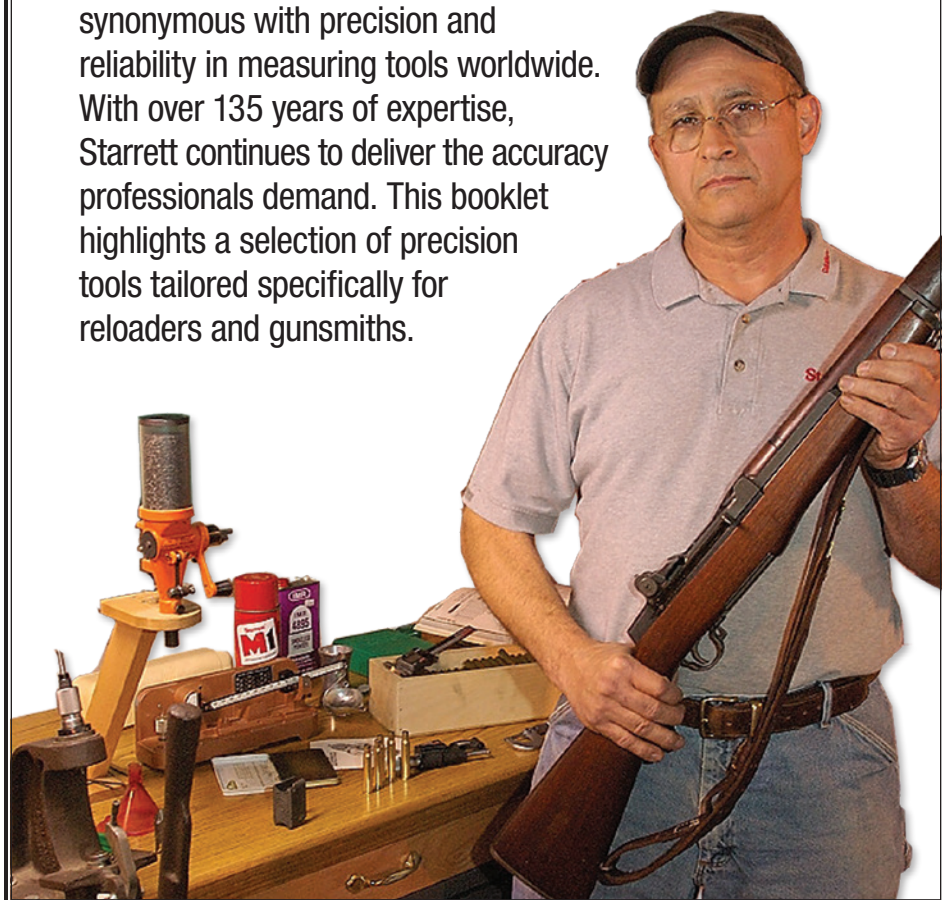


METROLOGY SOLUTIONS

Serious gun owners, target shooters and hunters alike, know that a lot of things go into making an accurate shot. While nothing is more important than the skill of the shooter, the type, make and condition of the firearm as well as the ammunition are also critical. To ensure the best possible accuracy, many gun owners reload their own ammunition. Very precise measurement is a vital part of ammunition reloading, and tools used in precision machining are also among those used to ensure accuracy.

For generations, ammunition reloaders have trusted The L.S. Starrett Company – a name synonymous with precision and reliability in measuring tools worldwide.

With over 135 years of expertise, Starrett continues to deliver the accuracy professionals demand. This booklet highlights a selection of precision tools tailored specifically for reloaders and gunsmiths.



OUTSIDE MICROMETERS

In addition to the listed features, all of the micrometers on pages 4 and 5 provide the following:

- No-glare black or satin finish on frame and satin chrome finish on thimble and sleeve
- Starrett workmanship with balanced, tapered frame for comfortable and accurate measuring
- Extremely hard, stable one piece spindle, and smooth operating one-piece friction thimble
- Micro-lapped carbide measuring faces (spindle only on tube micrometers)

T216 DIGITAL MICROMETER

- Mechanical digital micrometer with clear, easily read numbers to reduce errors, even by the inexperienced
- .001" read directly from the counter with .0001" read from the vernier scale on the sleeve
- .250" (6.35mm) anvil and spindle diameter
- Ring-type knurled lock nut for quick and sure locking
- Ratchet stop and lock nut

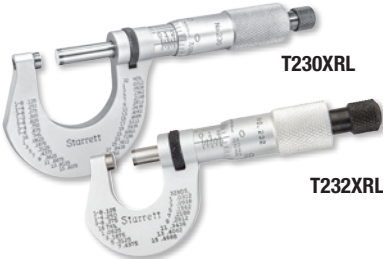


T216XRL-1

Cat. No.	EDP	Graduations	Range	Measuring Faces
T216XRL-1	55959	.0001"	0-1"	Carbide

T230 AND T232 MICROMETERS

- Staggered lines and distinct, quick-reading figures with every thousandth numbered for precise and easy readability
- Ring-type knurled lock nut for quick and sure locking
- Extremely hard and stable one-piece spindle
- Advanced sleeve design with staggered lines and distinct figures for precise and easy readability
- Balanced frame and thimble design ensure easy handling and better readability
- Gracefully designed tapered frame for use in narrow slots and tight places
- Fraction to decimal equivalents on the frame for easy conversion



T230XRL
T232XRL

Cat. No.	EDP	Range	Graduation
T230XRL	50944	0-1"	.0001"
T232XRL	50968	0-1/2"	.0001"

T444.1XRL-1 OUTSIDE MICROMETER

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



444.1XRL-1

Cat. No.	EDP	Graduation	Range
T444.1XRL-1	52083	.0001"	0-1"

207Z STAINLESS STEEL SLIDE RAIL MICROMETER

- No glare Starrett satin finish stainless steel
- Advanced sleeve design with staggered lines and distinct figures for precise, easy readability
- Quick-reading figures - every thousandth numbered on inch tools
- Extremely hard and stable one-piece spindle
- Used to measure the slide and frame rails during the fitting process
- Only tool available for gauging handgun slide width
- Quick and easy adjustment



207Z

Cat. No.	EDP	Graduation	Description
207Z	56173	.0001"	Snub nose for slide and frame rails

733.1 ELECTRONIC MICROMETER (WITH OUTPUT)

- IP67 protection against coolants, water, chips, dust and dirt
- Equipped with an RS232 output - ideal for use with DataSure Wireless Data Collection System
- Starrett no-glare satin chrome finish on thimble and sleeve
- Micro-lapped carbide measuring faces
- Large, easy-to-read .275" (7mm) tall characters, high contrast LCD digital readout
- Balanced and tapered frame
- Extremely hard and stable one-piece spindle
- Inch/millimeter conversion on English versions
- Accuracy $\pm .0001"$ ($\pm .002\text{mm}$)



733.1XFL-1

Cat. No.	EDP	Range	Resolution		Accuracy	
			in	mm	in	mm
733.1XFL-1	72529	0-1"	.00005	0.001	$\pm .0001$	± 0.003

3732.1 ELECTRONIC OUTSIDE MICROMETER

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



3732.1XFL-1

Cat. No.	EDP	Range in	Approx. mm	Resolution in	mm	Accuracy in	mm
3732.1XFL-1	12268	0-1	0-25.4	.00005	0.001	± .0001	± 0.002

TUBE OUTSIDE MICROMETERS

FOR PRECISION MEASUREMENT OF WALL THICKNESS AND SIMILAR APPLICATIONS

569 TUBE MICROMETER

- Advanced sleeve design with staggered lines and distinct figures for precise and easy readability
- Balanced frame and thimble design ensure easy handling and better readability
- Rigid steel frame ribbed for strength and stability
- Extremely hard and stable one-piece spindle
- Micro-lapped measuring faces includes fitted case



569AXP

Cat. No.	EDP	Graduation	Minimum Hole Size	Description
569AXP	66437	.001"	3/16"	Carbide Faced Spindle

3206 OUTSIDE MICROMETER STAND

- Converts outside micrometers to a sturdy bench gage for batch inspection of small parts
- Useful as a handy bench vise or assembly fixture
- Secure gripping surfaces
- Ball joint construction allows head to be positioned as much as 30° off perpendicular in any direction
- Positive lock on the base
- Accommodates all Starrett 1/2" (13mm) and 1" (25mm) Outside Micrometers, 2 and 2A 2" Outside Micrometers and 210, 220, 483, 485, 569 Special Purpose Outside Micrometers



3206

Cat. No.	EDP	Base Dimensions Length x Width x Thickness	Tilting Head Clamping Thickness x Throat Depth
3206	68917	6-3/8 x 3-1/2 x 3/4" (162 x 89 x 19mm)	3/4 x 1" (19 x 25mm)

MICROMETER HEADS

PRECISION MEASUREMENTS FOR CUSTOM FIXTURES

T1463XRL / T1263XRL

STAINLESS STEEL MICROMETER HEADS

- Accuracy .0005"
- Ring type lock nut for quick and sure locking at any setting
- Advanced sleeve design with staggered lines and distinct figures for precise and easy readability
- Extremely hard one-piece spindle (the heart of our accuracy)
- Micro lapped carbide measuring surface for flatness and squareness
- Quick and easy adjustment
- Furnished with 1/2"(12.7mm) diameter clamping surface on the T1263XRL, 3.8"(9.5mm) diameter clamping surface on the T1463XRL



T1463XRL

Cat. No.	EDP	Range	Graduation
T1463XRL	66004	0-1/2"	.0001"
T1263XRL	66005	0-1"	.0001"

762.1 ELECTRONIC MICROMETER HEAD

0-1" / 0-25MM

- Equipped with an RS232 output
- Starrett no-glare satin chrome finish on thimble and sleeve
- Large, easy-to-read .275" (7mm) tall characters, high contrast LCD digital readout
- Extremely hard and stable one-piece spindle
- Auto Off after 20 minutes of nonuse
- Measurement HOLD button
- Inch/millimeter conversion on English versions
- Smooth friction thimble for uniform pressure
- Zero at any position
- Retain and return to true zero reading
- PRESET button to install any reading at any position
- Ability to set minimum and maximum limits



762.1XFL

Cat. No.	EDP	Range	Resolution	mm	Accuracy	mm
762.1XFL	72786	0-1"	.00005	0.001	±.0001	±0.002

SLIDE CALIPERS

FOR CHECKING OUTSIDE, INSIDE AND DEPTH DIMENSIONS OF AMMUNITION AND FIREARMS

120 DIAL CALIPER

The Only American Made Dial Caliper

- Sharp, black graduations on the satin finished bar, every .100"
- Sharp, clear dial graduations of .001" –.100" per revolution
- Rack teeth point down to make it easy to shed foreign matter
- Lock screws for dial bezel and for holding the sliding jaw in position
- Hardened stainless steel bar, measuring surfaces, rack, gears and depth rod
- Positive, split-gear anti-backlash control
- Fine adjustment roll
- Knife-edge contacts
- Covered rack depth rod
- Fitted plastic case
- No. 915 sturdy leather holster (EDP: 64166) provides excellent protection for 120 and 3202 Dial Calipers



Cat. No.	EDP	Range	Dial Color	Jaw Depth in	mm
120A-6	64514	0-6"	White	5/8	16
R120A-6	64516	0-6"	Red	5/8	16
B120A-6	64515	0-6"	Black	5/8	16
Accessories					
Cat. No.	EDP	Description			
915	64166	Leather holster for 6" (150mm) calipers			



798 ELECTRONIC SLIDE CALIPER

- IP67 level of protection
- Fine adjustment
- Hardened stainless steel measuring surfaces
- Large, easy-to-read, high-contrast LCD digital readout
- Induction type linear encoder system
- RS232 output
- Heavy-duty bar and slide
- Slide lock
- One 3-volt battery for over one year of normal usage
- In/mm conversion
- Zero at any position
- Auto-Off after 30 minutes
- Reactivation of display with no loss of position
- Works well with Starrett DataSure® Wireless Data Collection Systems



798B-6/150

Cat. No.	EDP	Resolution in	mm	Range in	mm	Output
798B-6/150	12521	.0005	0.01mm	0-6"	150mm	Caliper with output

EC799 ELECTRONIC SLIDE CALIPER

- Lightweight, ergonomic design
- Inch/millimeter conversion reads .0005" or 0.01mm
- Easy access to the single, long-life battery
- Last measuring position retained when shut off
- Hardened stainless steel body for long life
- Find adjustment thumb wheel
- Lock screw to hold the slide in position
- Zero at any position

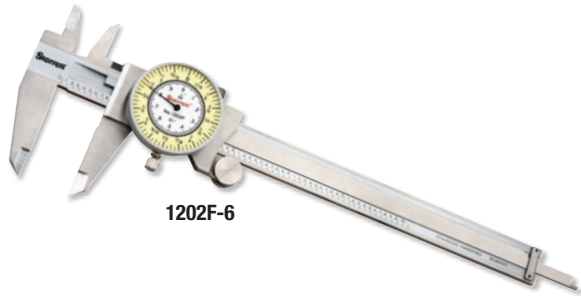


EC799A-6/150

Cat. No.	EDP	Resolution in	mm	Range in	mm
EC799A-6/150	00142	.0005"	0.01mm	0-6	0-150

1202 FRACTIONAL DIAL SLIDE CALIPER

- 1/64" graduations on the yellow outer scale, and .01" on the white inner scale

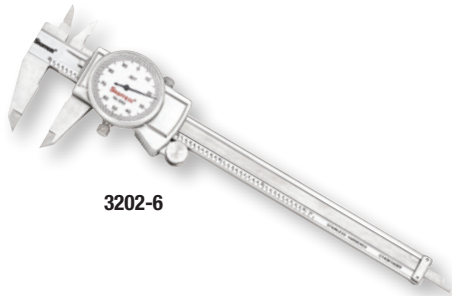


1202F-6

Cat. No.	EDP	Range	Graduation
1202F-6	68931	0-6"	.010"

3202 DIAL SLIDE CALIPER

- Sharp, clear dial graduations of 0.001"
- 1" per revolution
- Thumb-operated fine adjustment roll
- Sharp, black graduations on the satin finished bar, every .1"
- Hardened stainless steel bar, measuring surfaces, rack, gears, and depth rod
- Positive, spring-loaded double pinion anti-backlash control
- Lock screws for sliding jaw and dial bezel
- Knife-edge contacts
- Adjustable bezel



3202-6

Cat. No.	EDP	Range	Graduation
3202-6	61467	0-6"	.001"

DEPTH MEASUREMENT TOOLS

HOLE DEPTH MEASUREMENT WITH CHOICES OF TOOL TYPE AND LEVEL OF PRECISION

237 RULE DEPTH GAGE

- Quickly obtain measurements to a 64th of an inch
- Hardened steel head and an accurate steel rule
- Lock nut
- Base is cut out on one side, for easy, accurate measurements



237

Cat. No.	EDP	Graduation	Head Length x Width
237	51080	32nds, 64ths	2-5/8 x 1/8"

449Z DEPTH MICROMETER

- Includes three non-rotating blades .045" thick x 1/8" wide
- Combination ratchet and speeder with ring-type lock nut
- Case included



449AZ-3R

Cat. No.	EDP	Range	Graduation	Base Width	Rods	Rod Size
449AZ-3R	52318	0-3"	.001"	2-1/2"	3	.045 x 1/8"

643Z DIAL DEPTH GAGE

- Hardened, ground needle point contact
- Knife-edge base which can be precisely positioned for close work
- Point is 1/2" (12.7mm) long with 40 degree included angle
- Case included



643JZ

Cat. No.	EDP	Range	Graduation	Dial Reading
643JZ	52714	0-.125"	.0005"	0-25-0

Electronic version available from Special Order Division.

SLIDE CALIPER DEPTH ATTACHMENT

- Attaches perpendicular to the caliper bar end to increase the accuracy of caliper depth measurements
- Works with all 798, 799, 120, 1202 and 3202 calipers shown on page 7, 8 and 9



Cat. No.	EDP	Description
PT22431	64640	Depth attachment

DIAL INDICATORS AND ACCESSORIES

MOUNT ON STAND OR FIXTURE TO MEASURE RUNOUT AND OTHER DIMENSIONS

25 DIAL INDICATOR

- Rugged and simple unit construction with a "universally fitting" design
- Sharp bezel serrations for positive grip
- Unbreakable crystal
- Hardened stainless steel stem
- No-glare satin finish on case
- Hardened stainless steel rack and spindle
- Massive bridge for rigid bearing support
- Hardened stainless steel gears and pinions
- Non-reflecting white eggshell finish on dial
- Jewel Bearings



Cat. No.	EDP	Graduation	Range One Rev.	Total	Dial Reading
25-441J	53295	.001"	.100"	1.000"	0-100

81 DIAL INDICATOR

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



Cat. No.	EDP	Graduation	Range One Rev.	Total	Dial Reading
81-144J	53402	.001"	.040"	.100"	0-20-0

196A1Z UNIVERSAL BACK PLUNGER DIAL INDICATOR

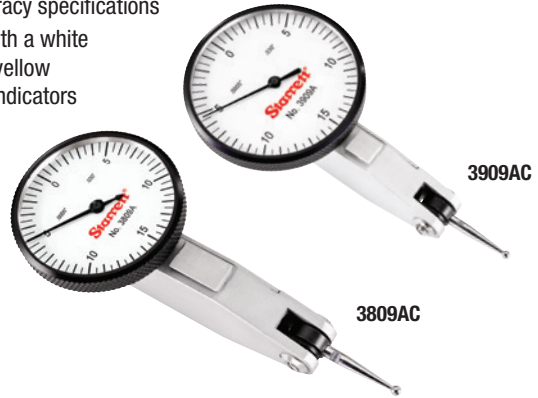
- One of the most versatile indicators available
- Accurate and reliable
- Simple to operate
- Rugged, with few moving parts
- Smooth in operation
- For full use, the operator first chooses the proper contact from the three hardened contact points that come with each model
- Shank diameter is 1/4" (6.3mm)
- Attachments include clamp, tool post holder, snug and hole attachment
- In Case



Cat. No.	EDP	Range	Graduation	Dial Reading
196A1Z	50697	.200"	.001"	0-100

3908AC AND 3909AC DIAL TEST INDICATOR SETS

- Three dovetail positioning mounts work with most existing test indicator accessories
- Precision gear-driven design with smooth, jeweled movement
- Contact point reverses automatically, always maintaining clockwise hand rotation
- Contacts are frictionally adjustable and replaceable
- Meets or exceeds ANSI/ASME accuracy specifications
- High contrast, easy-to-read dials with a white background on inch reading and a yellow background on millimeter reading indicators
- Narrow body for in reach ability
- Satin chrome finish for durability
- Indicator includes two contact points, two dovetail clamps, swivel post holder, tool post holder, contact wrench and case.



Cat. No.	EDP	Graduation	Range	Dial Reading	Dial Diameter
3908AC	12636	.0001"	.008"	0-4-0	1-9/16"
3909AC	12669	.0005"	.030"	0-15-0	1-9/16"

657A SWIVEL POST MAGNETIC INDICATOR BASE

- Three precision ground magnetic contact surfaces (plus V-step)
- Powerful, permanent magnetic base holds firmly to steel or iron surfaces - horizontally, vertically, upside-down
- The swivel post assembly on these holders provides universal adjustment in both horizontal and vertical planes



Cat. No.	EDP	Description
657A	52744	Magnetic Base with Swivel Post Assembly

660 MAGNETIC INDICATOR BASE

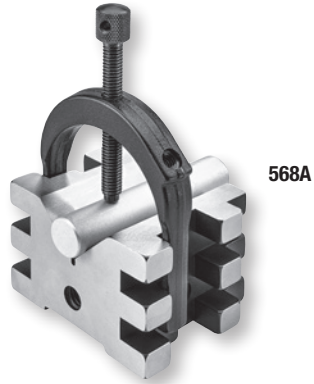
- Compact and versatile, with three adjustable pivots controlled by a single knob for fast, easy indicator positioning



Cat. No.	EDP	Description
660	68621	Base Indicator Holder

568 V BLOCK AND CLAMP

- Rugged and versatile block is of hardened steel, precision ground parallel and square
- V-grooves are ground central and parallel to the sides and base
- Block is 2-1/2" x 3" x 2" with 2" (50mm) Round, 1-7/16" (36mm) Square Capacity
- Clamp can be used on the base, ends or sides. Stepped grooves permit high or low mounting.
- Clamp screw holes at 45° and 90° to hold either square or round work
- 3/8-16 tapped holes permit block mounting
- Matched sets available for larger parts



Cat. No.	EDP	Capacity	Description
568A	52590	Dia. Round - 2" (50mm) Square - 1-7/16" (36mm) (1-9/16" [40mm] with screw at top	1 V-Block and Clamp

SNAP GAGES

HIGH QUALITY, ECONOMICAL GAGE THAT IS IDEAL FOR QUICKLY MEASURING MATERIALS UP TO 1/2" OR 12.7MM THICK.

765A ELECTRONIC SNAP GAGE

- Balanced, compact design
- Simple, logical control buttons
- Light-weight aluminum frame
- In/mm conversion
- Zero at any position
- Manual ON/OFF, AUTO OFF
- Furnished in fitted plastic case



Cat. No.	EDP	Range		Linear Accuracy			
		in	mm	in	mm	in	mm
765A	67659	0-1/2	0-12.7	±.0010	±0.02	.0005	0.01
Part No.	EDP	Description					
PT99492	65650	Two Replacement Batteries, CR2032					

*No output available on the 765A.

TOOL SETS

CONVENIENT BASIC MEASURING TOOL SETS

S9723 BASIC ELECTRONIC TOOL SET-IP67 PROTECTION This Basic starter electronic tool kit includes a slide caliper, one inch micrometer, drop indicator and a mini magnetic base. IP67 rating for protection against dust, dirt, water, and coolants. All tools equipped with an RS232 output – ideal for use with DataSure 4.0 Wireless data collection systems. Set comes in attractive wooden case.



S9723

Cat. No.	Description
798B-6/150	0-6"/0-150mm electronic slide caliper IP67
733.1XFL-1	0-1"/0-25mm electronic outside micrometer IP67
2900-3-1	1"/25mm range/.0005 resolution electronic indicator IP67
660	Mini magnetic base indicator holder

S909 BASIC PRECISION MEASURING TOOL SET

- Sets contain three of the most commonly used precision tools
- Furnished in an attractive, protective case
- T230XRL outside micrometer with carbide faces
- 120A-6: 6" dial caliper
- C604R-6: 6" spring tempered precision rule



S909Z

Cat. No.	Description
T230XRL	1" Outside Micrometer with Carbide Faces
120A-6	6" Dial Caliper
C604R-6	6" Spring Tempered Precision Rule

PRECISION RULES

ACCURATE AND DURABLE PROFESSIONAL PRECISION RULES

C304R Precision Rule

- 6" steel rule. Full flexible
- Starrett satin chrome finish
- Inch graduations.
1st edge: 8ths,
2nd edge: 16ths,
3rd edge: 32nds,
4th edge: 64ths

C304R-6

Cat. No.	EDP	Length	Width x Thickness	Graduations
C304R-6	51368	6"	1/2" x 1/64"	4R – Quick-Reading 8ths, 16ths, 32nds, 64ths

C316R Precision Rule

- 6" steel rule. Full flexible
- Inch graduations. 1st edge: 50ths, 2nd edge: 100ths, 3rd edge: 64ths, 4th edge: 32nds

C316R-6

Cat. No.	EDP	Length	Width x Thickness	Graduations
*C316R-6	51374	6"	1/2" x 1/64"	16R – Quick-Reading 32nds, 64ths, Aircraft Quick-Reading 50ths and 100ths

*Indicates rules with single row of inch figures (all rules under 1" width). Rules without asterisk have double row of inch figures, and each edge represents the bottom edge reading left to right (rules 1" and wider).

C636ME-150 Spring-Tempered Steel Rule with Millimeter and Inch Graduations

- Spring-Tempered
- Satin chrome finish
- End Graduations
- 5-3/4"

C636ME-150

Cat. No.	EDP	Description
C636ME-150	52634	Steel-tempered steel rule with millimeter and inch graduations

DH604R Precision Rule

- 6" Spring tempered steel rule. Steel finish
- Inch graduations. 1st edge: 8ths, 2nd edge: 16ths, 3rd edge: 32nds, 4th edge: 64ths
- Adjustable double hook

DH604R-6

Cat. No.	EDP	Length	Width x Thickness	Graduations	Feature Remarks
*DH604R-6	52667	6"	3/4" x 3/64"	4R – 8ths, 16ths, quick-reading 32nds and 64ths	Regular steel finish with adjustable double hook

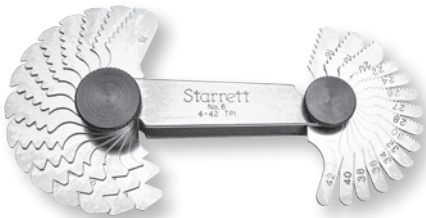
*Indicates rules with single row of inch figures (all rules under 1" width). Rules without asterisk have double row of inch figures, and each edge represents the bottom edge reading left to right (rules 1" and wider).

FIXED GAGE STANDARDS

INVALUABLE FOR QUICKLY CHECKING SPACING, HOLE SIZE AND OTHER DIMENSIONS

6 SCREW PITCH GAGE

- Quickly determine the pitch of various threads
- Sturdy steel case with a number of folding leaves
- Each leaf has teeth corresponding to the pitch marked on it
- V, Unified, American National 60° threads
- 30 leaves from 4 to 42 threads per inch



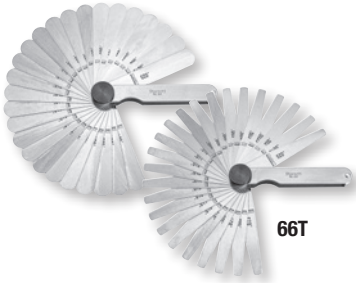
A Starrett 6 Screw Pitch Gage, model 50035, featuring a central metal handle with two circular locking devices. It has 30 folding leaves, each marked with thread pitch values. The leaves are arranged in two semi-circular fans on either side of the handle.

6

Cat. No.	EDP	No. of Leaves	TPI Range	Threads per Inch (TPI)	Description
6	50035	30	4–42	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	With Locking Device and 11-1/2 and 27 Pipe Thread Pitches

66 AND 66T THICKNESS GAGES

- Tempered-steel, carefully finished to correct thickness
- Individually tested and marked with thickness
- Leaves easily removed or replaced
- Rugged, substantial stainless steel case protects leaves
- Straight leaves
- Leaves made of finest tempered-steel
- Locking device



Two Starrett thickness gages are shown: model 66 (left) and model 66T (right). Both have a central handle with a locking device and multiple straight, tempered-steel leaves. The leaves are marked with thickness values. Model 66 has 26 leaves, and model 66T also has 26 leaves.

66

66T

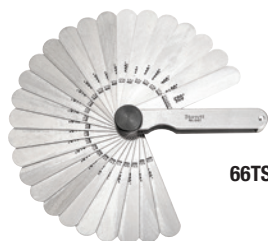
Cat. No.	EDP	No. of Leaves	Size Leaves	Range Leaf Thickness (in)	Description/Remarks
66	50314	26	1/2 x 3-1/32"	.0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025	With Locking Device

Cat. No.	EDP	No. of Leaves	Size Leaves	Range Leaf Thickness (in)	Description/Remarks
66T	50315	26	1/2-1/4 x 3-1/32"	.0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025	With Locking Device

66TS THICKNESS GAGES

.0015-.200" / 0.03-5MM

- Now available in stainless and tempered steel.
- Leaves carefully finished to correct thickness, individually tested and marked with thickness.
- Locking device on most gages permits securely locking of one or more leaves in position.
- Leaves are easily removed or replaced.
- Rugged, substantial steel case protect leaves.
- All include locking device



66TS

Stainless Steel Cat. No.	EDP	No. of Leaves	Size Leaves	Range
				Leaf Thickness (in)
66TS	73442	26	1/2-1/4 x 3-1/32"	.0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025

130 BENCH LEVEL

3-3/8" / 85MM

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



130

Cat. No.	EDP	Size		Description
		in	mm	
130	50560	3-3/8	85	With main vial

135 BENCH LEVELS WITH SATIN NICKEL-PLATED FINISH

2-1/2 AND 3-1/2" / 63 AND 88MM

Another extremely useful Starrett level that fits handily in the pocket with no sharp edges. Made from hexagonal stock with convex ends and satin nickel-plated finish.



135B

Cat. No.	EDP	Size		Description
		in	mm	
135A	50570	2-1/2	63	With main vial
135B	50571	3-1/2	88	

156M INTERNATIONAL METRIC STANDARD SCREW PITCH GAGE

- Includes 28 leaves
- Locking device
- 0.25-2.50mm Range
- Leave Sizes (mm): 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

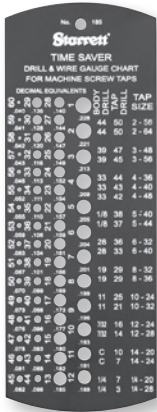


156M

Cat. No.	EDP	Description
156M	50589	International Metric standard screw pitch gage with locking device

185 TIME SAVER® TAP AND DRILL GAGE

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

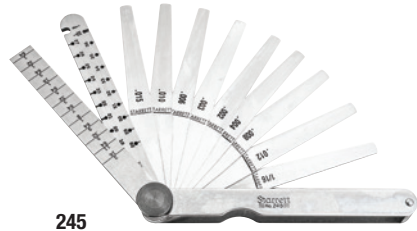


185

Cat. No.	EDP	Range Tap Size	Tap Drill	Body Drill	Dimensions Thickness x Width x Length
185	50675	2-56 to 1/4-28	50 to 3	44 to 1/4	5/64" x 2-5/16" x 6-1/4"

245, 245M ENGINEERS' COMBINATION TAPER, WIRE AND THICKNESS GAGE

- Consists of a wire gauge, an Engineers' combination taper gage for measuring slot widths, and an assortment of thickness gage leaves, all folding within a compact steel case
- This product includes a locking device to lock any leaf or leaves in position
- Includes a taper gage leaf for measuring slot widths from 1/64-3/16" in 64ths of an inch



245

Cat. No.	EDP	Description
245	51170	Inch reading, with taper gage, English standard wire gage and 9 inch reading thickness gage leaves
245M	51171	Millimeter reading, With taper gage, English standard wire gage and 11mm reading thickness gage leaves

472 SCREW PITCH GAGE

- Features 51 leaves, 4 to 84 TPI range, with locking device and 11-1/2 and 27 pipe thread pitches
- 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



472

Cat. No.	EDP	Description
472	52484	Screw pitch gage with locking device and 11-1/2 and 27 pipe thread pitches

S829 SMALL HOLE GAGE SET

- Hardened-ball measuring surface with two-point contact ideal for accurately measuring small holes, slots, grooves, and recesses
- Radius is less than the minimum diameter to be measured to ensure two-point contact
- Safety stop prevents adjustment of the gage beyond its range to prevent breakage
- The final size is determined by measuring over the ball contacts with a micrometer
- Set includes case and four gages to measure from .125 – .500":
.125 – .200", .200 – .300", .300 – .400", .400 – .500"



S829EZ

Cat. No.	EDP	Description
S829EZ	53074	Set of 4 in Case

MICROACCURATE® B-GRADE RECTANGULAR STEEL GAGE BLOCK SETS UN CASE

- Etched, unique serial numbers are included on each block. Custom numbers are not available.
- Sets available with a choice of two types of certificates of calibration as described below.
- Inch System sets have a tolerance of $\pm 50 \mu\text{in}$.
- Metric System sets have a tolerance of $\pm 1.25 \mu\text{m}$.



RS 81.B

MicroAccurate® Inch System Sets

Cat. No.	Measuring Range	Blocks Per Set	Blocks included in Sets
RS 81.B	.100-12.000 in steps of .001	81	9 blocks .1001 through .1009 (steps of .0001)
RS 81. W	.200-12.000 in steps of .0001		49 blocks .101 through .149 (steps of .001)
			19 blocks .050 through .950 (steps of 0.50)
			4 blocks 1.000 through 4.000 (steps of 1)

MicroAccurate® Metric System Sets

Cat. No.	Measuring Range	Blocks Per Set	Blocks included in Sets
RS 88. MB	3.0 through 450in .0005 steps	88	1 block .5
RS 88. MW	2.0 through 450in .001 steps		1 block 1.0005
	1.0 through 450in .01 steps		9 blocks 1.001 through 1.009 (steps of .001)
	1.0 through 450in .1 steps		49 blocks 1.01 through 1.49mm (steps of .01)
			18 blocks 1 through 9.5 (steps of .5)
			10 blocks 10 through 100 (steps of 10)
RS 11.2 MB	3.0 through 250in .0005 steps	112	1 block .5
RS 112. MW	2.0 through 250in .001 steps		1 block 1.0005
	1.0 through 250in .01steps		9 blocks 1.001 through 1.009 (steps of .001)
	1.0 through 250in .1 steps		49 blocks 1.01 through 1.49 (steps of 0.1)
			48 blocks 1 through 24.5 (steps of .5)
			4 blocks 25 through 100 (steps of 25)

Specifications

Cat. No.	Features
RS 81.B	Calibration performed at Webber Gage in Cleveland, OH. Certificate of Calibration with NVLAP® accreditation. Calibration in accordance with ISO 17025 with dated calibration certificate and NIST traceability number. The name and address of the user may be added to the calibration certificate.
RS 88. MB	
RS 112. MB	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 and RS 112. MB) uncertainty of measurement ($k=2$): $u=0.15 + .001L$ where L is in mm, but not less than 0.18 μm .
RS 81. W	Calibration performed in China in partnership with Webber Gage samples the measurements to monitor the calibration results. Calibrations are traceable to NIST, but no NIST traceability or dates will be given. The name and address of the user will be left blank on the calibration certificate.
RS 88. MW	
RS 112. MW	Inch System (RS 81. W) uncertainty of measurement ($k=2$): 10 μin . Metric Systems (RS 88. MW and RS 112. MW) uncertainty of measurement ($k=2$): $U=0.25 \mu\text{m}$.

SHOP TOOLS

DURABLE, HIGH QUALITY TOOLS FOR GENERAL TASKS

93 T-HANDLE TAP WRENCHES

- For holding taps, drills reamers and small tools
- Properly centered
- Wrenches have sliding handle
- Designed to hold square shanks



Cat. No.	EDP	Capacity Tap Size		Square Shank		Body Length	
		in	mm	in	mm	in	mm
93A	50427	1/16-3/16	1.6-4.7	1/16-5/32	1.6-4	2	50
93B	50428	7/32-7/16	5.5-11	5/32-1/4	4-6.4	2-1/2	65

S162Z PIN VISE SET

- The handles of these pin vises are reduced in size so that they can be rapidly rotated between thumb and finger when filing small work
- Special tapered collet, providing maximum clamping surface
- Smaller body diameter than the chuck to allow fast opening and closing and rapid rotation when used on small work
- Available individually or as a complete set in a convenient case



Cat. No.	EDP	Description
S162Z	50604	Set of All 4 Sizes in Protective Vinyl Case

NOTE: These tools not recommended for powered use.

S555Z-7 SCREWDRIVER SET

- Ideal for relatively small and very delicate work.
- Designed for watch and clockmakers, jewelers, opticians and toolmakers
- The bodies are made from steel, nicely knurled and nickel-plated
- The blades are made from the best quality steel, properly tempered and nickel-plated
- Blades are replaceable
- When not in use, the blades can be reversed into the screwdriver body
- Set of 7 in Case. .025" (0.6mm), .040" (1mm), .055" (1.4mm), .070" (1.8mm), .080" (2mm), .100" (2.5mm), and #0 Phillips



S555Z-7

Cat. No.	EDP	Description
S555Z-7	52566	Set of 7 Screwdrivers, 555AA/A/B/C/D/E/F – In Case

S565WBS STEEL & BRASS DRIVE PIN PUNCH SET

- Knurled Grip for secure holding
- Round Red Plastic Box
- Hardened and Tempered (Steel)
- Punch diameter clearly marked on the head
- High Quality Brass



S565WBS

Cat. No.	EDP	Description
S565WBS	73732	Steel & Brass Drive Pin Punch Set

SB565Z BRASS DRIVE PIN PUNCH SET

- Knurled Grip for secure holding
- Will not damage softer materials
- Non-sparking
- Fabric Pouch
- Punch diameter clearly marked on the head
- Sizes 1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 5/16"



SB565Z

Cat. No.	EDP	Description
SB565Z	12473	Brass Drive Pin Punch Set

565 STEEL DRIVE PIN PUNCHES

- Knurled Grip for secure holding
- Hardened and Tempered
- Punch diameter clearly marked on the head
- 4"



565A Steel Drive Pin Punch, 1/16



565B Steel Drive Pin Punch, 3/32



565C Steel Drive Pin Punch, 1/8

Cat. No.	EDP	Diameter Punch	
		in	mm
565A	52578	1/16	1.5
565B	52579	3/32	2.5
565C	52580	1/8	3

815 TOOLMAKERS' HAMMER

- Ideal for precise striking or tapping
- The hammer is light (only 4oz.) but is made of a steel forging for strength and rigidity
- Both flat and ball peen heads are hardened and are offset for use close to obstructions
- A magnifying lens, mounted in rubber for shock resistance, is built into the head, making it easy to spot the punch and strike without removing eyes from the work
- Attractive chromium plated finish



Cat. No.	EDP	Description
815	53041	Hammer Only

LUBRICANTS

HIGH QUALITY LUBRICANTS IDEAL FOR FIREARMS MAINTENANCE

1620 TOOL AND INSTRUMENT OIL

- Extra-fine all-purpose lubricant ideal for precision mechanisms such as firearms
- Provides thorough lubrication of close-fitting parts and that holds up even in extremes
- of high and low temperatures
- Provides a strong lasting film over all areas requiring protection against rust



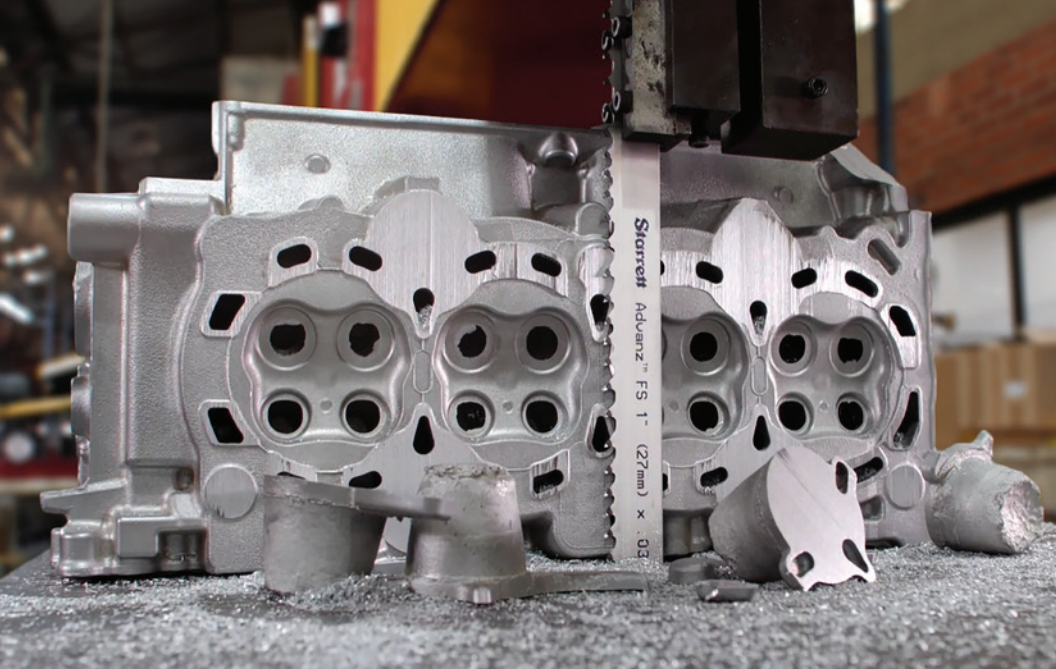
Cat. No.	EDP	Description
1620	53216	4 fl. oz. (0.1 liter) plastic bottle

M1® ALL-PURPOSE LUBRICANT

- Simultaneously dries as it protects, avoiding dirt and grime
- Penetrates quickly to free frozen nuts, bolts and metal parts
- Prevents rust and corrosion by providing a molecular shield that locks to the metal
- Dries to leave a film that protects and lubricates without silicone
- Nonconductive, preventing short circuits
- Non-soluble in water so it displaces moisture to lift it away from the surface to be protected



Cat. No.	EDP	Description
M1-95173	95173	Case of 12 - 12oz spray cans



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