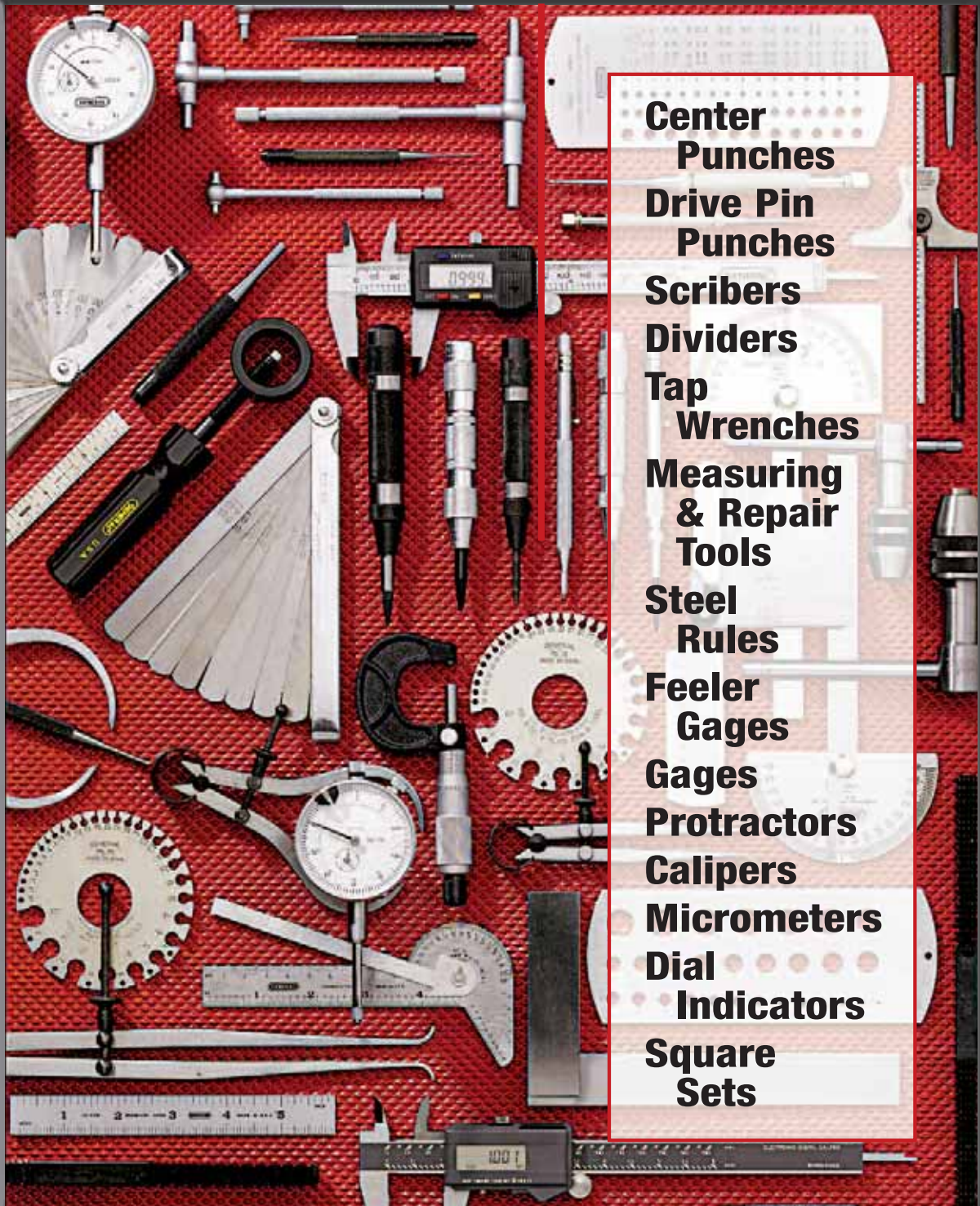


Machinists, Measuring & Precision Tools



**Center
Punches
Drive Pin
Punches
Scribers
Dividers
Tap
Wrenches
Measuring
& Repair
Tools
Steel
Rules
Feeler
Gages
Gages
Protractors
Calipers
Micrometers
Dial
Indicators
Square
Sets**

MACHINIST TOOLS

Center Punches



General's Automatic Center Punches are a precise means of punching center holes for drilling in layout work. A single-handed operation with stored energy design eliminates the need for striking the punch

with a hammer. Spring tension cap can be adjusted for light to heavy strokes. Punch depth can be set for repetitive work. Replacement points, shafts and moving parts are hardened alloy steel.

STAINLESS STEEL AUTOMATIC CENTER PUNCH

- Provides accurate center punches to prevent drill bits from traveling
- One-handed operation - No hammer needed!
- For marking, punching & staking
- Durable stainless steel body will not rust



UPC	NO.	A	B	C	D	E
02131 1	89	5-1/4" (133mm)	4" (102mm)	9/16" (14mm)	5/32" (4mm)	.070" (1.8mm)

MACHINISTS AUTOMATIC CENTER PUNCH

- Punches, marks, scribes and starts drill, nail or screw holes
- One-hand spring impact operation. No hammer needed
- Spring tension adjusts for light or heavy markings
- Ball bearing action
- Lightweight aluminum body with long wearing alloy steel parts
- Hardened steel point

UPC	NO.	A	B	C	D	E
31062 0	77	5" (127mm)	3-29/32" (99mm)	5/8" (16mm)	1/4" (6mm)	.104" (2.6mm)

HEAVY-DUTY STEEL AUTOMATIC CENTER PUNCH

- Heavy-duty center punch
- Punches, marks, scribes and starts drill, nail or screw holes
- One-hand spring impact operation, no hammer needed
- Spring tension adjusts for light or heavy markings
- Black oxide finish inhibits rust
- All-steel body with threaded, replaceable hardened steel point

UPC	NO.	A	B	C	D	E	
31066 8	78	5-5/8" (143mm)	4-9/32" (109mm)	5/8" (16mm)	17/64" (7mm)	.083" (2.1mm)	
31068 2	78P	Replacement point					

STEEL AUTOMATIC CENTER PUNCH

- Punches, marks, scribes and starts drill, nail or screw holes
- One-hand spring impact operation. No hammer needed
- Spring tension adjusts for light or heavy markings
- Ball bearing action
- Black oxide finish inhibits rust
- All-steel body with threaded, replaceable hardened steel point

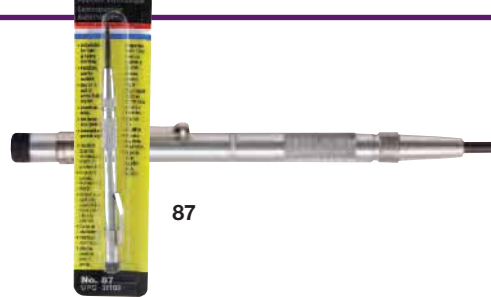
UPC	NO.	A	B	C	D	E	
31072 9	79	4-7/8" (124mm)	3-29/32" (99mm)	1/2" (12mm)	3/16" (5mm)	.055" (1.4mm)	
31078 1	79P	Replacement point					
31079 8	79P/2	Replacement points (2)					

POCKET AUTOMATIC CENTER PUNCH

- Pencil slim design with pocket clip
- Punches, marks, scribes and starts drill, nail or screw holes
- One-hand spring impact operation, no hammer needed
- Spring tension adjusts for light or heavy markings
- Lightweight aluminum body with long wearing alloy steel parts
- Hardened steel point

UPC	NO.	A	B	C	D	E
31108 5	87	5-3/4" (146mm)	5-11/16" (144mm)	5/16" (8mm)	1/8" (3mm)	.058" (1.5mm)

MACHINIST



Center & Drive Pin Punches

Drive Pin Punches are well proportioned, hardened, tempered and have a knurled finger grip. Designed to withstand hard use, they are perfect in the machine shop as well as in the motor service industry.

Machinists use our shank punches for marking work in layout and drilling operations. These tools are constructed of hardened and ground alloy tool steel for maximum strength and durability.



UTILITY AUTOMATIC CENTER PUNCH

- Punches, marks, scribes and starts drill, nail or screw holes
- One-hand spring impact operation, no hammer needed
- Ball bearing action
- Lightweight aluminum body with long wearing alloy steel parts
- Hardened steel point

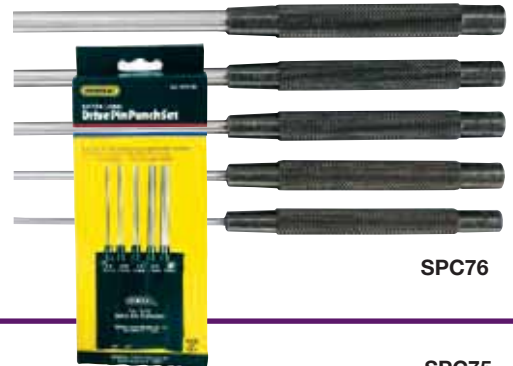


70079

UPC	NO.	A	B	C	D	E
22339 5	70079	5" (127mm)	3-15/16" (100mm)	1/2" (12mm)	5/32" (4mm)	.070" (1.8mm)

EXTRA LONG DRIVE PIN PUNCHES

- Made of tool steel, hardened and centerless ground
- For use on work not accessible with shorter punches
- Knurled body
- Packed in a vinyl case
- Conforms to gov. specs, GGG-P-831E



SPC76

UPC	NO.	PUNCH DIAMETERS		Set contains five punches, A-E, listed below.		
31050 7	SPC76	1/8", 3/16", 1/4" 5/16", 3/8"				
UPC	NO.	A	B	C	D	E
31052 1	76A	8" (203mm)	4-1/2" (114mm)	3/8" (10mm)	1/8" (3mm)	3-1/2" (89mm)
31054 5	76B	8" (203mm)	4-1/2" (114mm)	7/16" (11mm)	3/16" (5mm)	3-1/2" (89mm)
31056 9	76C	8" (203mm)	4-1/2" (114mm)	7/16" (11mm)	1/4" (6mm)	3-1/2" (89mm)
31058 3	76D	8" (203mm)	4-1/2" (114mm)	7/16" (11mm)	5/16" (8mm)	3-1/2" (89mm)
31060 6	76E	8" (203mm)	4-1/2" (114mm)	1/2" (12mm)	3/8" (10mm)	3-1/2" (89mm)

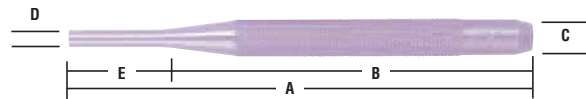
DRIVE PIN PUNCHES

- Tool steel punches are uniformly heat treated and centerless ground to withstand the hardest use
- Ends are ground square for accurate pin driving
- Packed in a plastic case



SPC75

UPC	NO.	Set contains eight punches, A-H, listed below				
31032 3	SPC75					
UPC	NO.	A	B	C	D	E
31034 7	75A	4" (102mm)	2-5/8" (67mm)	1/4" (6mm)	1/16" (2mm)	3/4" (19mm)
31036 1	75B	4" (102mm)	2-9/16" (65mm)	1/4" (6mm)	3/32" (2mm)	3/4" (19mm)
31038 5	75C	4" (102mm)	2-7/16" (62mm)	5/16" (8mm)	1/8" (3mm)	3/4" (19mm)
31040 8	75D	4" (102mm)	2-9/16" (65mm)	5/16" (8mm)	5/32" (4mm)	3/4" (19mm)
31042 2	75E	4" (102mm)	2-5/8" (67mm)	5/16" (8mm)	3/16" (5mm)	1" (25mm)
31044 6	75F	4" (102mm)	2-5/8" (67mm)	3/8" (10mm)	7/32" (6mm)	1" (25mm)
31046 0	75G	4" (102mm)	2-9/16" (65mm)	3/8" (10mm)	1/4" (6mm)	1" (25mm)
31048 4	75H	4" (102mm)	2-3/4" (70mm)	3/8" (10mm)	5/16" (8mm)	1" (25mm)



ROUND SHANK CENTER PUNCHES

- Points are ground to size for maximum strength and penetration
- Knurled body
- Stamped with size for quick identification
- Packed in a vinyl case



SPC74

UPC	NO.	Set contains five punches, AA-D, listed below				
31018 7	SPC74					
UPC	NO.	A	B	C	D	E
31020 0	74AA	3-1/16" (78mm)	2" (51mm)	1/4" (6mm)	1/16" (2mm)	5/32" (4mm)
31022 4	74A	3-19/32" (91mm)	2-1/4" (57mm)	1/4" (6mm)	5/64" (2mm)	3/16" (5mm)
31024 8	74B	3-7/8" (98mm)	2-15/32" (63mm)	5/16" (8mm)	3/32" (2mm)	7/32" (6mm)
31026 2	74C	4" (102mm)	2-5/8" (67mm)	5/16" (8mm)	9/64" (4mm)	1/4" (6mm)
31028 6	74D	4" (102mm)	2-19/32" (66mm)	3/8" (10mm)	5/32" (4mm)	9/32" (7mm)



MACHINIST TOOLS

Scribers



General manufactures a complete line of Scribers for machinists, engravers, mechanics and craftspeople. A basic tool for layout work and tool marking.

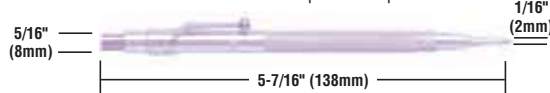
General's Scribers are used for marking and engraving on metal, glass, plastics and ceramics.

TUNGSTEN CARBIDE SCRIBER/ETCHING PEN AND MAGNET

- Tungsten carbide tip marks hard materials including hardened steel, stainless steel, ceramics and glass
- Permanent magnet picks up small parts and retrieves steel chips from hard-to-reach places
- Screw chuck for reversing tungsten carbide point when not in use
- Knurled aluminum handle provides

- maximum control and comfort
- Point is replaceable
- Convenient pocket-clip

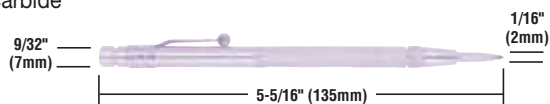
UPC	NO.
31116 0	88CM
31114 6	88P Replaceable point



TUNGSTEN CARBIDE TIP SCRIBER/ETCHING PEN

- Tungsten carbide tip marks hard materials including hardened steel, stainless steel, ceramics and glass
- Screw chuck for reversing tungsten carbide point when not in use
- Knurled aluminum handle provides maximum control and comfort
- Point is replaceable
- Convenient pocket-clip

UPC	NO.
31112 2	88
31114 6	88P Replaceable point



UTILITY TUNGSTEN CARBIDE TIP SCRIBER/ETCHING PEN

- Tungsten carbide point for marking and scribing steel, ceramics and glass
- Magnet picks up small parts and retrieves steel chips from hard-to-reach places
- Knurled aluminum handle provides maximum control and comfort
- Convenient pocket-clip

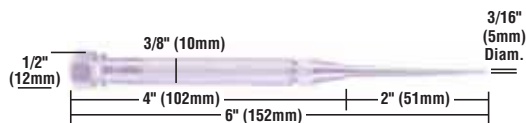
UPC	NO.
22340 1	70088



POCKET SCRIBER

- Replaceable hardened and centerless ground steel point
- Point reverses into knurled body for safety
- Hex cap prevents rolling
- Conforms to government specifications GGG-S-131E

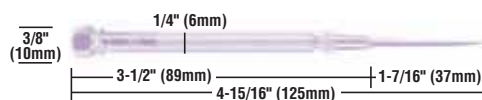
UPC	NO.
31092 7	81
31094 1	81P Replaceable point



POCKET SCRIBER

- Replaceable hardened and centerless ground steel point
- Point reverses into knurled body for safety
- Hex cap prevents rolling
- Conforms to government specifications GGG-S-131E

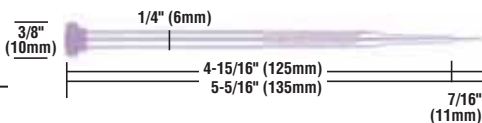
UPC	NO.
31098 9	83
31100 9	83P Replaceable point



REPLACEABLE NEEDLEPOINT SCRIBER

- Scribes stainless steel, copper and brass
- Nork pattern scriber
- Four extra points are stored under cap

UPC	NO.
31102 3	84
31104 7	84P Replaceable point (12 per pkg.)



88CM

88

70088

81

83

84

MACHINIST



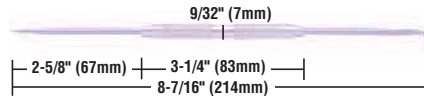
All Dividers' legs and Calipers' legs are forged of special caliper steel. Hardened and tempered bow springs and fulcrum spools assure uniform tension without side play. Adjusting screw has a self-seating

washer and nut to permit quick and positive adjustment. Dividers have hardened points. Calipers have hardened measurement faces and meet government specifications GGG-C-95.

FIXED TWO POINT SCRIBER

- Hardened and ground steel needle points are fixed to a knurled body
- Has one straight point and one 90° bent point

UPC	NO.
31090 3	80
31091 0	80C Individually carded

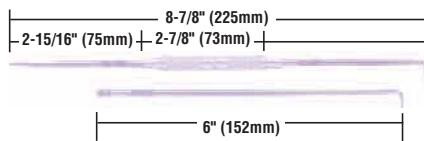


80

THREE POINT SCRIBER

- Finest quality machinist's scriber
- Aluminum knurled body, with three interchangeable threaded steel points: short straight, short bent and long bent

UPC	NO.
31400 0	380A

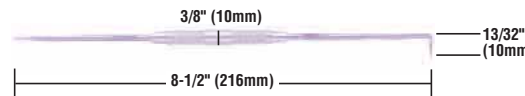


380A

TWO POINT SCRIBER

- This scriber consists of short straight and short 90° bent steel points which thread into knurled body

UPC	NO.
31403 1	380B



380B

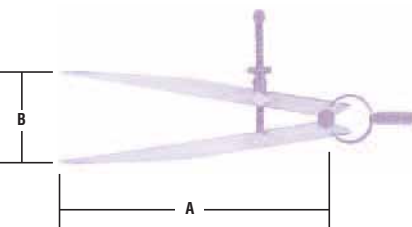
SINGLE POINT SCRIBER

- Hardened tempered steel point

UPC	NO.
31106 1	85



85



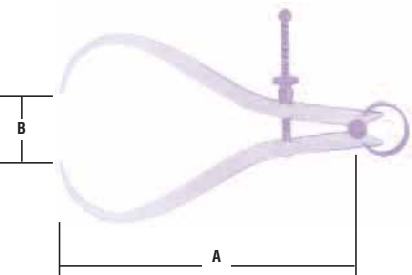
FLAT LEG DIVIDERS

- Legs are forged of special caliper steel
- Hardened and tempered bow springs
- Hardened points

UPC	NO.	A	B
31598 4	450-4	4" (102mm)	4-1/8" (105mm)
31601 1	450-6	6" (152mm)	6-1/4" (159mm)
31604 2	450-8	8" (203mm)	8-1/4" (210mm)
31592 2	450-10	10" (254mm)	10-1/4" (260mm)
31595 3	450-12	12" (305mm)	12-1/4" (311mm)



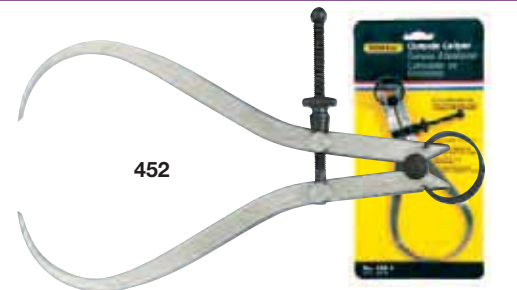
450



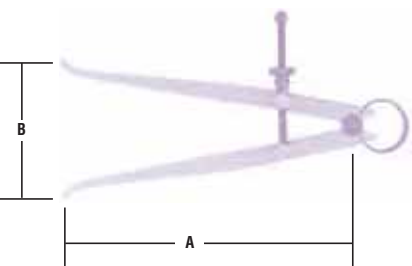
OUTSIDE CALIPERS

- Legs are forged of special caliper steel
- Hardened and tempered bow springs
- Hardened measurement points

UPC	NO.	A	B
31615 8	452-4	4-3/16" (106mm)	4-3/16" (106mm)
31618 9	452-6	6-1/8" (156mm)	6-5/16" (160mm)
31621 9	452-8	8" (203mm)	8-1/16" (205mm)
31607 3	452-10	10" (254mm)	10" (254mm)
31610 3	452-12	12-3/4" (324mm)	12-1/4" (311mm)



452



INSIDE CALIPERS

- Legs are forged of special caliper steel
- Hardened and tempered bow springs
- Hardened measurement points

UPC	NO.	A	B
31636 3	454-4	4" (102mm)	4-7/16" (113mm)
31639 4	454-6	6-5/16" (160mm)	6-1/2" (165mm)
31641 7	454-8	8" (203mm)	8-11/16" (221mm)
31624 0	454-10	10" (254mm)	10-11/16" (271mm)
31627 1	454-12	12-5/16" (313mm)	12" (305mm)



454

MACHINIST TOOLS

Tap Wrenches



General's Tap Wrenches provide good leverage in tight spaces. These top quality tools are designed to give the user the reach and leverage needed for

accurate tapping. The T-handle tap wrenches are for holding taps, drills, reamers and other small tools to be turned by hand.



161R

REVERSIBLE RATCHET TAP WRENCHES

- Ratchet can be set for right- or left-hand operation or locked for non-ratchet use
- Self-centering hardened steel jaws and knurled chuck sleeve provide positive grip on taps, reamers and small tools
- Sliding T-handle for fitting into tight spaces with operator leverage
- No. 161R conforms to government specifications GGG-W-680a

UPC	NO.	TAP CAPACITY	LENGTH
31200 6	160R	No. 0 to No. 8 (1.6 to 4mm)	2-3/4" (70mm)
31203 7	161R	No. 0 to 1/4" (1.6 to 6.3mm)	3-1/2" (88mm)
31209 9	162R	No. 12 to 1/2" (6 to 12mm)	4-1/4" (106mm)



165

PROFESSIONAL REVERSIBLE RATCHETING TAP WRENCH SET

- Set includes: No. 161R Ratcheting Tap Wrench, No. 162R Ratcheting Tap Wrench and No. 715P Reference Table
- Self-centering, hardened steel jaws and knurled chuck sleeve
- For holding taps, reamers, screw extractors, hand turned tools and drill bits

- The No. 715P Plastic Reference Table is the essential reference table for tool makers, machinists and mechanics
- The front has machine screw size tap drill chart for recommended 75% depth thread
- The back has decimal equivalents table in 64ths from 1/64" to 63/64"
- Packaged in a sturdy, fitted foam lined plastic case designed specifically for this set

UPC	NO.
01650 8	165



164

PLAIN TAP WRENCHES

- Self-centering hardened steel jaws and knurled chuck sleeve
- No. 163 has rigid T-handle
- Nos. 164 and 166 have sliding T-handle for fitting into tight spaces with greater leverage

UPC	NO.	TAP CAPACITY (NOS. & INCHES)	LENGTH
31212 9	163	No. 0 to No. 8 (1.6 to 4mm)	2-1/4" (57mm)
31215 0	164	No. 0 to 1/4" (1.6 to 6.3mm)	2-3/4" (70mm)
31218 1	166	No. 12 to 1/2" (6 to 12mm)	3-3/4" (95mm)



167

PROFESSIONAL TAP WRENCH SET

- Set includes: No. 164 Plain Tap Wrench, No. 166 Plain Tap Wrench and No. 715P Reference Table
- Nos. 164 and 166 have sliding T-handles for fitting into tight spaces with greater leverage
- Self-centering, hardened steel jaws and knurled chuck sleeve
- For holding taps, reamers, screw extractors, hand turned tools and drill bits

- The No. 715P Plastic Reference Table is the essential reference table for tool makers, machinists and mechanics
- The front has machine screw size tap drill chart for recommended 75% depth thread
- The back has decimal equivalents table in 64ths from 1/64" to 63/64"
- Packaged in a sturdy, fitted foam lined plastic case designed specifically for this set

UPC	NO.
01670 6	167



Telescoping Gages are used for quick and accurate measurements of inside diameters of holes and widths of slots from which micrometer

measurements are taken. Thread Repair Files restore damaged external threads on studs, bolts, screws, plumbing pipes and pipe fittings.

NUT SPLITTER

- Here is a real timesaver for the removal of frozen, hard to remove rusted nuts
- Only 4-3/4" long, this compact tool will split nuts up to 1/2" automotive series (3/4" or 19mm across flats)
- Standard 3/4" driving hex head for use with wrenches or sockets
- Angled body for getting into hard-to-reach work areas

- Replaceable hardened steel chisel point can be reversed to achieve best cutting angle
- Made of high-grade heat treated forged steel for durability. Plated and black oxide finishes to prevent rust

UPC	NO.
31325 6	175

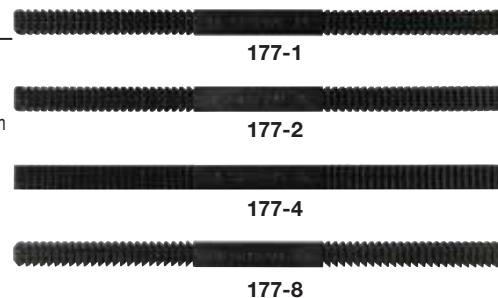


175

THREAD REPAIR FILES

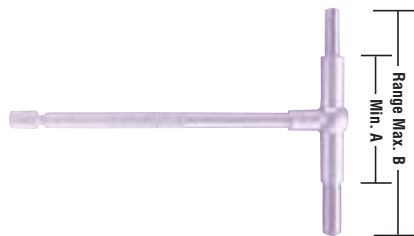
- These indispensable files restore damaged external threads on studs, bolts, screws, plumbing pipe and pipe fittings
- Four different high carbon steel files are available. Each file provides 4 to 8 different thread pitches
- Restores rusted or corroded fasteners
- Doubles as a screw pitch gage
- Black oxide to prevent rust

UPC	FILE NO.	THREAD PITCHES
31236 5	177-1	11,12,13, 14, 16, 18, 20, 24, T.P.I.
31240 2	177-2	9, 10, 12, 16, 20, 27, 28, 32, T.P.I.
31244 0	177-4	8, 11-1/2, 14, 18 iron pipe
31242 6	177-8	0.75, 1.0,1.25, 1.5, 1.75, 2.0, 2.5, 3.0mm

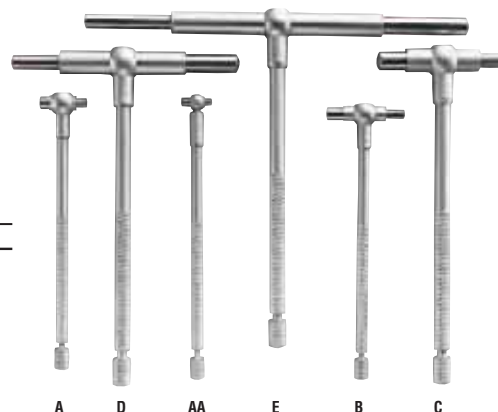


TELESCOPING GAGE SET

- These gages are used for quick and accurate measurements of inside diameters of holes and widths of slots from which micrometer measurements are taken
- Both gaging ends are heat treated tool steel and ground to a radius for measuring the smallest hole the gage will enter
- Self-centering action ensures accuracy
- Long handled design provides improved reach in deep holes and slots
- Satin chrome finish
- Swivel lock at base of handle
- Set of Six, AA-E, listed below, packed in vinyl case



UPC	NO.	RANGE
31130 6	S98-6	
		A B
	AA	5/16" (7.5mm) 1/2" (12mm)
	A	1/2" (12mm) 3/4" (20mm)
	B	3/4"(20mm) 1-1/4" (31mm)
	C	1-1/4" (31mm) 2-1/8" (53mm)
	D	2-1/8" (53mm) 3-1/2" (88mm)
	E	3-1/2" (88mm) 6" (140mm)



S98-6

EDGE FINDERS

- General's edge finders accurately locate working edges, shoulders, grooves, center-points and scribed lines
- Time-saving positioning tools for jig borers, milling and other machines
- Hardened and centerless ground precision tolerance
- All sizes 3" long

UPC	NO.	END	SIZE	SHANK
31329 4	260	Single	.500"	1/2" (12mm)
31331 7	262	Double	.200" and 500"	1/2" (12mm)
31334 8	263	Single	.200"	3/8" (10mm)
31337 9	264	Double	.200" and point	1/2" (12mm)



Rulers

General's Industrial Quality Steel Rules and Economy Steel Rules are precision made with etched fine black graduations for easy reading and long life.

The two finishes available are polished stainless steel, flex and rigid or satin chrome, flex and rigid.

STEEL RULES: ULTRATEST®, INDUSTRIAL & ECONOMY

UPC CODE	ITEM NO	SIZE	GRAD TYPE	GRADUATION SIDE 1	GRADUATION SIDE 2	WIDTH
ULTRATEST® STEEL RULES						
6" CHROME PLATED HARDENED STEEL RULES						
39021 9	CF640MM	150mm Flex	-	mm, .5mm	mm, .5mm	1/2"
33020 8	CF645	6" Flex	5R	10, 100	32, 64	1/2"
33035 2	CF649MD	6" Flex	-	10, 100	mm, .5mm	1/2"
33040 6	CF661	6" Rigid	4R	8, 16 w/32nd End Grads	32, 64	3/4"
33050 5	CF664	6" Rigid	4R	8, 16	32, 64	3/4"
33065 9	CF667ME	6" Rigid	-	32, 64	mm, .5mm	3/4"
12" CHROME PLATED HARDENED STEEL RULES						
33085 7	CF1245	12" Flex	5R	10, 100	32, 64	1/2"
33090 1	CF1246	12" Flex	16R	32, 64	50, 100	1/2"
33095 6	CF1247ME	12" Flex	-	32, 64	mm, .5mm	1/2"
33100 7	CF1249MD	12" Flex	-	10, 100	mm, .5mm	1/2"
33110 6	CF1264	12" Rigid	4R	8, 16	32, 64	1"
18" CHROME PLATED HARDENED STEEL RULE						
33140 3	CF1845	18" Flex	5R	10, 100	32, 64	3/4"
24" CHROME PLATED HARDENED STEEL RULE						
33190 8	CF2445	24" Flex	5R	10, 100	32, 64	3/4"
INDUSTRIAL STEEL RULES						
6" PRECISION STAINLESS STEEL RULES						
32096 4	616	6" Flex	5R	10, 100	32, 64	15/32"
32108 4	634	6" Flex	4R	8, 16	32, 64	15/32"
32111 4	676	6" Rigid	4R	8, 16	32, 64	3/4"
32114 5	678MED	6" Rigid	-	mm, .5mm	10, 20, 50, 100	3/4"
12" PRECISION STAINLESS STEEL RULES						
32162 6	1201ME	12" Flex	-	16, 32, 64, mm, .5mm	8, 16, 32, 64	7/8"
32171 8	1210	12" Flex Center Finding	16, 32	32, 64	1"	
32174 9	1216	12" Flex	5R	10, 100	32, 64	15/32"
32180 0	1251	12" Flex	Model RR	H0, S, O, Gage	N Gg., mm, 64 Dec Equiv.	1"
31286 0	1276	12" Rigid	4R	8, 16	32, 64	1"
6" AND 12" PRECISION SATIN CHROME STAINLESS STEEL RULES						
32123 7	CF616	6" Flex	5R	10, 100	32, 64	15/32"
32141 1	CF676	6" Flex	4R	8, 16	32, 64	3/4"
32147 3	CF678MED	6" Flex	-	mm, .5mm	10, 20, 50, 100, 16, 32, 64	3/4"
32150 3	CF1216	12" Flex	5R	10, 100	32, 64	15/32"
32153 4	CF1227ME	12" Rigid	-	32, 64	mm, .5mm	1"
32159 8	CF1276	12" Rigid	4R	8, 16	32, 64	1"
ECONOMY STEEL RULES						
6" PRECISION STAINLESS STEEL RULES						
32036 0	300/1*	6" Flex		32, 64	Dec. Equiv.	15/32"
32041 4	300MM*	150mm Flex		mm, .5mm		15/32"
32042 1	300ME*	6" Flex (150 mm)		mm, 64	Metric Equiv.	15/32"
32046 9	301/1*	6" Flex		32, 64		1/4"
32049 0	301ME	6" Flex		mm, 16		1/4"
32060 5	305ME	6" Flex		mm, 16		15/32"
32063 6	307	6" Flex		8, 16 w/32nd End Grads		3/4"
30266 3	308	6" Flex		32, 64	Dec. Equiv.	3/4"
32072 8	310	6" Flex		32, 64	B&S Wire Gg.	3/4"
32075 9	311ME	6" Flex		mm-inch 16, 32	Comparison	3/4"
32093 3	CF306MD*	6" Flex		10, 50	mm, .5mm	15/32"

*Furnished with pocket clip

MACHINIST





**ULTRATEST®
STEEL RULES**

ULTRATEST® Steel Rules are manufactured by a special process to meet or exceed federal specification GGG-R-791f for accuracy. They have ultra-fine black graduations against a hard satin chrome finish for easy reading and long life. All Ultratest® Rules are supplied with a plastic sleeve.

4R Graduation - 8ths, 16ths, 32nds, 64ths

5R Graduation - 32nds, 64ths, 10ths, 100ths

16R Graduation - 32nds, 64ths, 50ths, 100ths

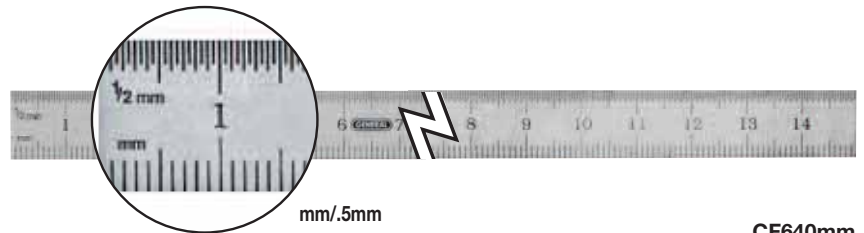
Metric English - 32nds, 64ths, 0.5mm, mm

MACHINIST

ULTRATEST® 150mm FLEX STEEL RULE

- Graduations - mm, .5mm, for both sides
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 150mm long
- Width is 1/2"
- Comes in a plastic sleeve

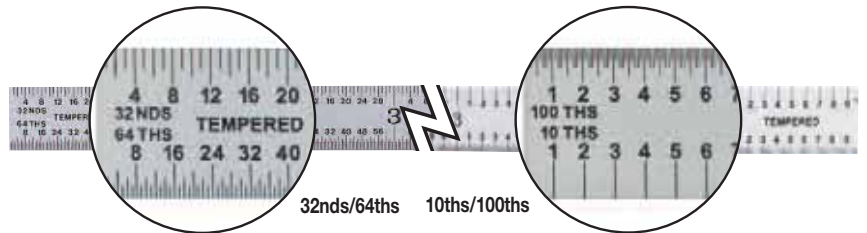
UPC	NO.
39021 9	CF640MM



ULTRATEST® 6" FLEX STEEL RULE

- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 6" long
- Width is 1/2"
- Comes in a plastic sleeve

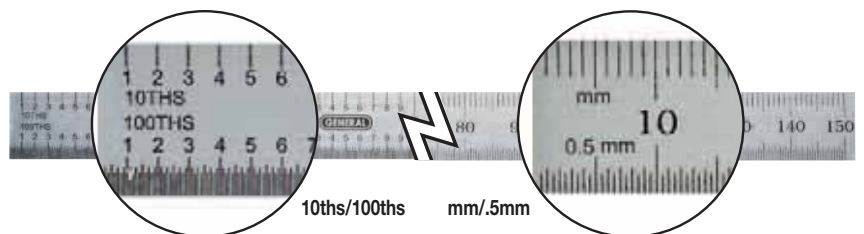
UPC	NO.
33020 8	CF645



ULTRATEST® 6" FLEX STEEL RULE

- Graduation - 10ths, 100ths; mm, .5mm
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 6" long
- Width is 1/2"
- Comes in a plastic sleeve

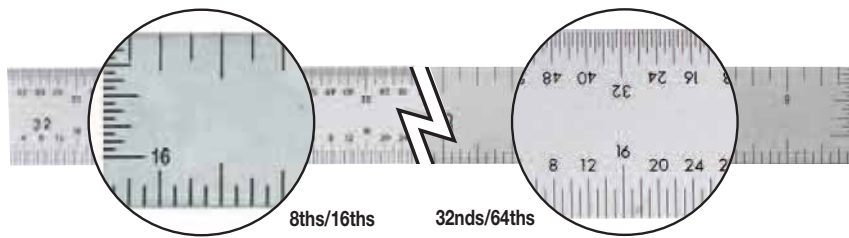
UPC	NO.
33035 2	CF649MD





ULTRATEST® STEEL RULES

ULTRATEST® Steel Rules are manufactured by a special process to meet or exceed federal specification GGG-R-791f for accuracy. They have ultra-fine black graduations against a hard satin chrome finish for easy reading and long life. All Ultratest® Rules are supplied with a plastic sleeve.

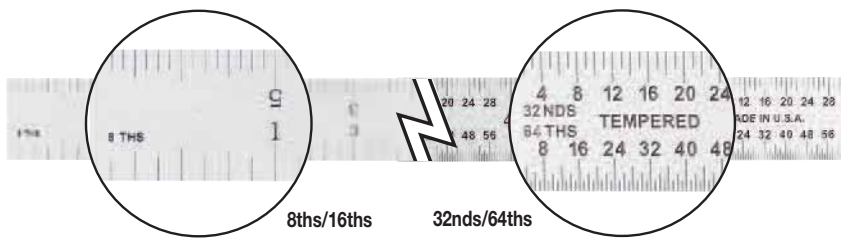


CF661

ULTRATEST® 6" RIGID STEEL RULE

- 4R Graduation - 8ths, 16ths w/32nd End Grads; 32nds, 64ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 6" long
- Width is 3/4"
- Comes in a plastic sleeve

UPC	NO.
33040 6	CF661

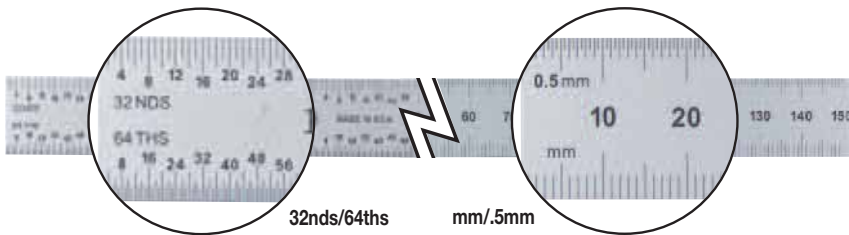


CF664

ULTRATEST® 6" RIGID STEEL RULE

- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 6" long
- Width is 3/4"
- Comes in a plastic sleeve

UPC	NO.
33050 5	CF664

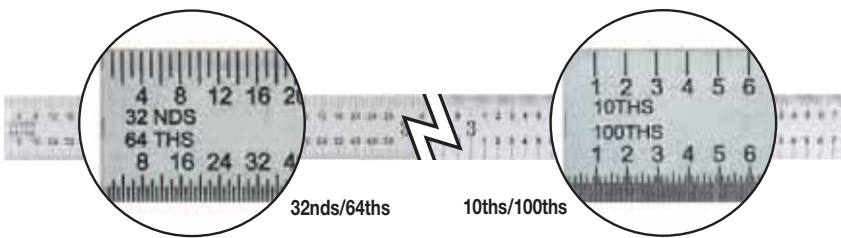


CF667ME

ULTRATEST® 6"/150mm RIGID STEEL RULE

- Graduation - 32nds, 64ths; mm, .5mm
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 6" long
- Width is 3/4"
- Comes in a plastic sleeve

UPC	NO.
33065 9	CF667ME

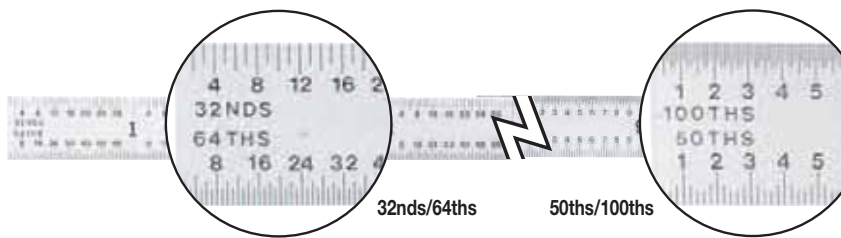


CF1245

ULTRATEST® 12" FLEX STEEL RULE

- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 12" long
- Width is 1/2"

UPC	NO.
33085 7	CF1245



CF1246

ULTRATEST® 12" FLEX STEEL RULE

- 16R Graduation - 32nds, 64ths; 50ths, 100ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 12" long
- Width is 1/2"

UPC	NO.
33090 1	CF1246

MACHINIST



TYPE OF GRADUATIONS:

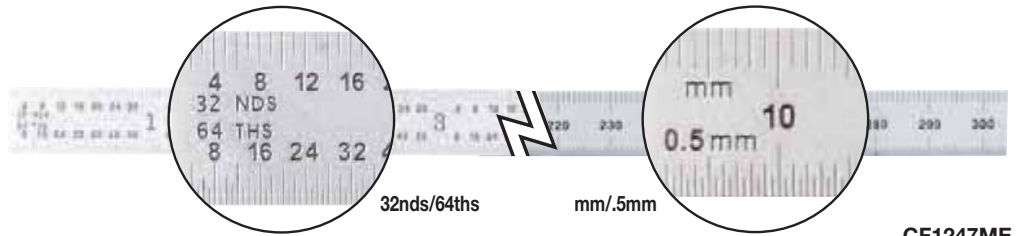
4R Graduation - 8ths, 16ths, 32nds, 64ths.
5R Graduation - 32nds, 64ths, 10ths, 100ths.

16R Graduation - 32nds, 64ths, 50ths, 100ths.
Metric English - 32nds, 64ths, 0.5mm, mm.

ULTRATEST® 12"/300mm FLEX STEEL RULE

- Graduation - 32nds, 64ths; mm, .5mm
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 12" (300mm) long
- Width is 1/2"
- Comes in a plastic sleeve

UPC NO.
33095 6 CF1247ME

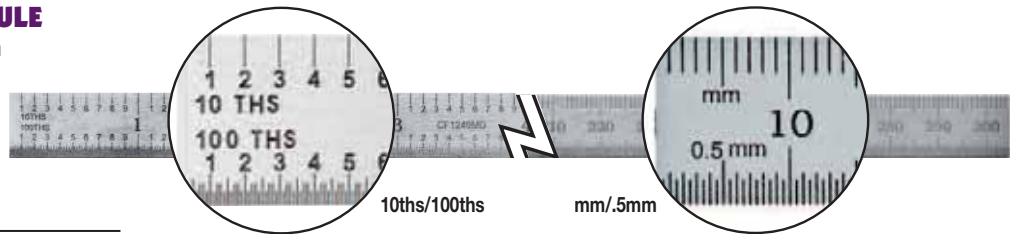


CF1247ME

ULTRATEST® 12" FLEX STEEL RULE

- Graduation - 10ths, 100ths; mm, .5mm
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 12" long
- Width is 1/2"
- Comes in a plastic sleeve

UPC NO.
33040 6 CF1249MD

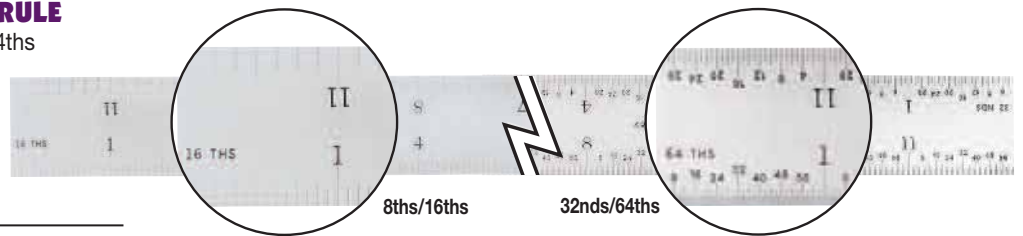


CF1249MD

ULTRATEST® 12" RIGID STEEL RULE

- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 12" long
- Width is 1"
- Comes in a plastic sleeve

UPC NO.
33110 6 CF1264

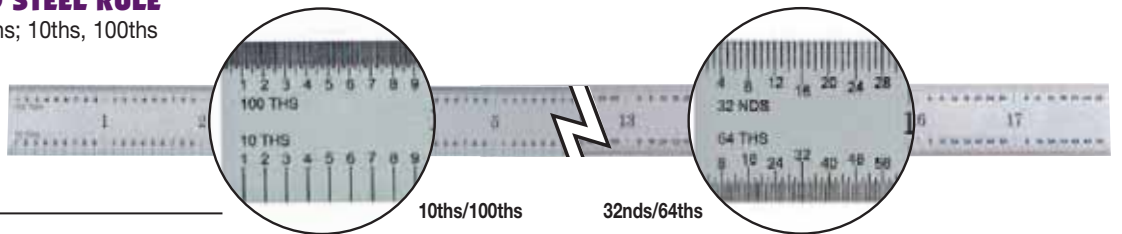


CF1264

ULTRATEST® 18" RIGID STEEL RULE

- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 18" long
- Width is 3/4"
- Comes in a plastic sleeve

UPC NO.
33140 3 CF1845

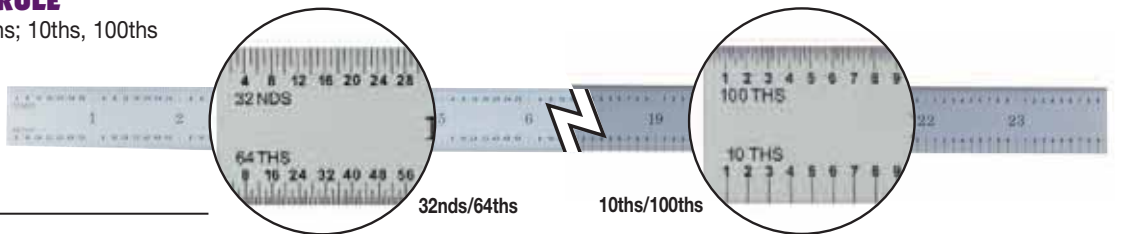


CF1845

ULTRATEST® 24" FLEX RULE

- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Hard satin chrome finish
- Length is 24" long
- Width is 3/4"
- Comes in a plastic sleeve

UPC NO.
39190 8 CF2445

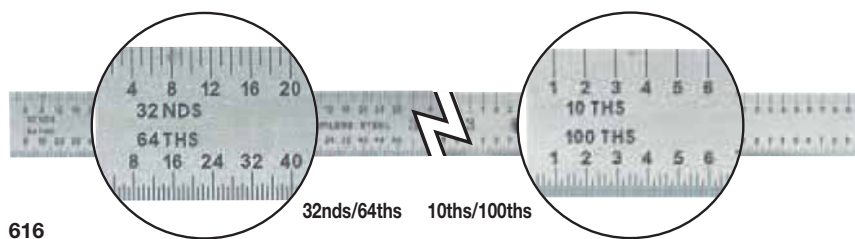


CF2445



General's Industrial Steel Rules and Economy Steel Rules are precision made with etched fine black graduations for easy reading and long life.

The two finishes available are polished stainless steel or satin chrome.

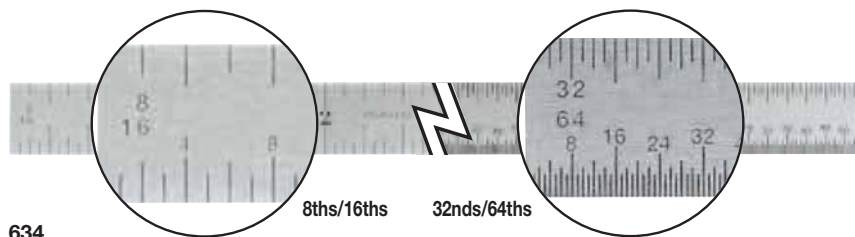


616

PRECISION 6" FLEX STEEL RULE

- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 15/32"

UPC	NO.
32096 4	616

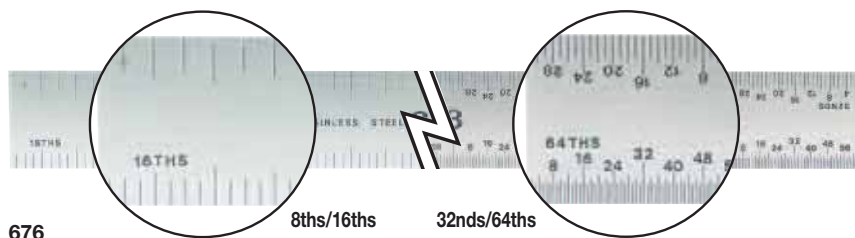


634

PRECISION 6" FLEX STEEL RULE

- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 15/32"

UPC	NO.
32108 4	634

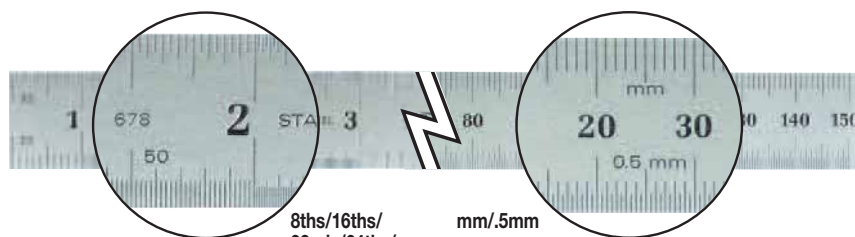


676

PRECISION 6" RIGID STEEL RULE

- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 3/4"

UPC	NO.
32111 4	676

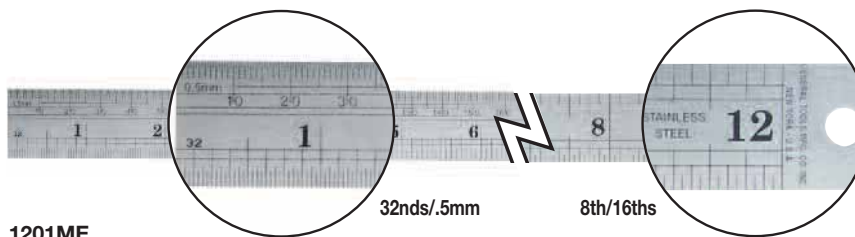


678MED

PRECISION 6"/150mm RIGID STEEL RULE

- 4R Graduation - 8ths, 16ths, 32nds, 64ths, Side 2 - 10, 20, 50, 100; mm, .5mm
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 3/4"

UPC	NO.
32114 5	678MED

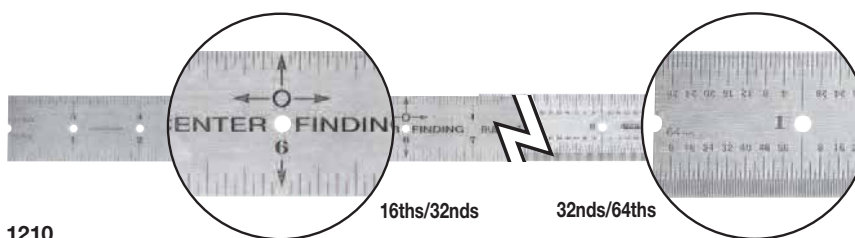


1201ME

PRECISION 12" FLEX STEEL RULE

- Graduation - .5mm, 32nds; 8ths, 16ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 13" overall
- Width is 7/8" • Hanging hole

UPC	NO.
32162 6	1201ME



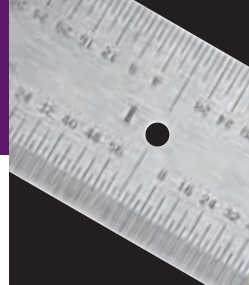
1210

PRECISION 12" FLEX STEEL RULE

- Center finding graduation - 16ths, 32nds, 32nds, 64ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 12" long • Width is 15/32"

UPC	NO.
32171 8	1210

MACHINIST



TYPE OF GRADUATIONS:

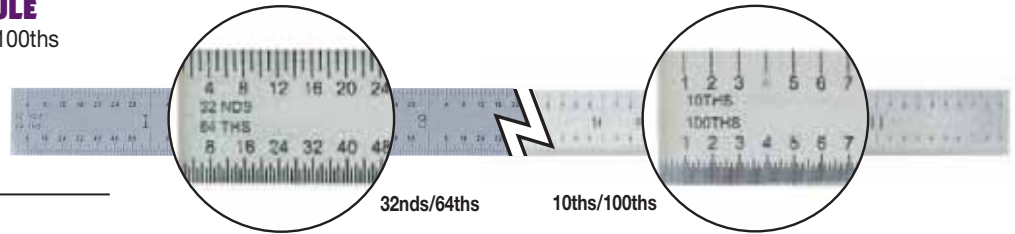
4R Graduation - 8ths, 16ths, 32nds, 64ths.
5R Graduation - 32nds, 64ths, 10ths, 100ths.

16R Graduation - 32nds, 64ths, 50ths, 100ths.
Metric English - 32nds, 64ths, 0.5mm, mm.

PRECISION 12" FLEX STEEL RULE

- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 12" long
- Width is 15/32"

UPC	NO.
32174 9	1216

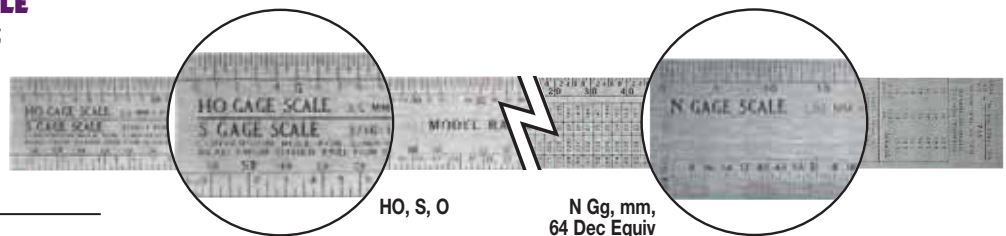


1216

PRECISION 12" FLEX STEEL RULE

- Model RR Graduation - HO, S, O Gage;
- N Gg, mm, 64ths Dec Equiv
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 12" long
- Width is 1"

UPC	NO.
32180 0	1251

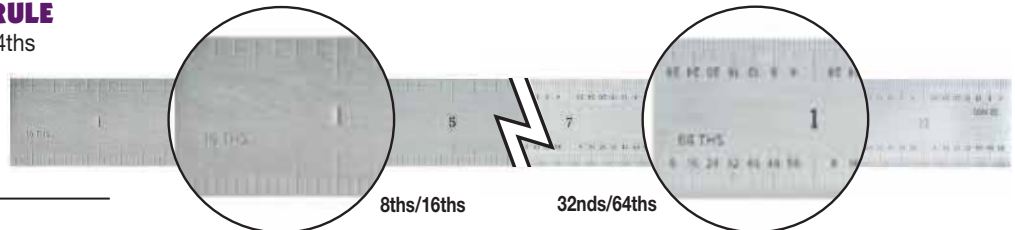


1251

PRECISION 12" RIGID STEEL RULE

- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 12" long
- Width is 1"

UPC	NO.
31286 0	1276

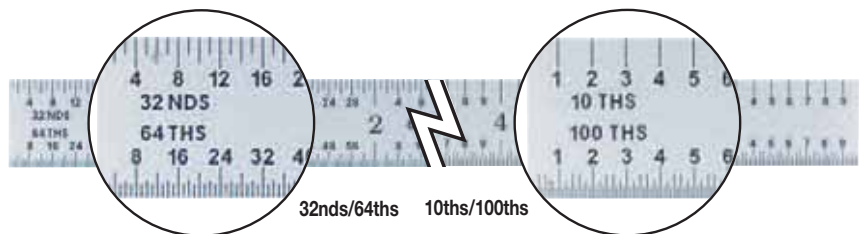


1276

PRECISION 6" FLEX STEEL RULE

- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Satin chrome finish
- Length is 6" long
- Width is 15/32"

UPC	NO.
32123 7	CF616

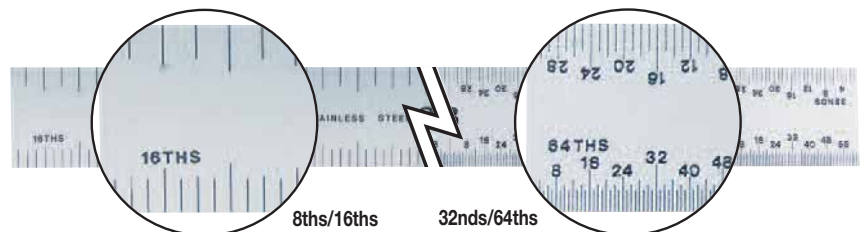


CF616

PRECISION 6" FLEX RULE

- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black graduations
- Satin chrome finish
- Length is 6" long
- Width is 3/4"

UPC	NO.
32141 1	CF676 Carded

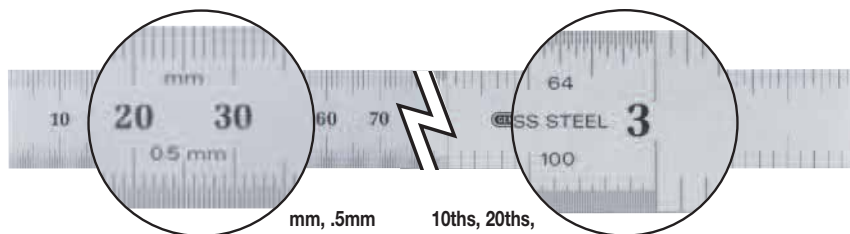


CF676



General's Industrial Steel Rules and Economy Steel Rules are precision made with etched fine black graduations for easy reading and long life.

The two finishes available are polished stainless steel or satin chrome.



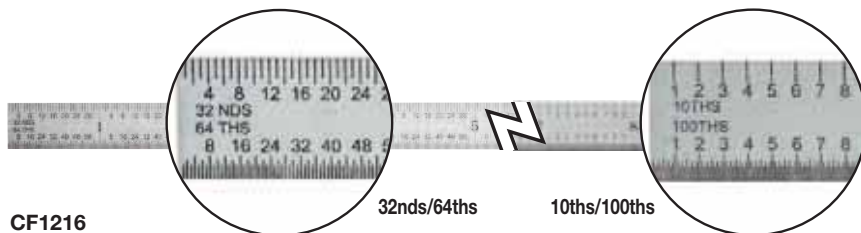
CF678MED

mm, .5mm
10ths, 20ths,
50ths, 100ths,
16ths, 64ths

PRECISION 6" / 150mm FLEX STEEL RULE

- Graduation - mm, .5mm; 10ths, 20ths, 50ths, 100ths, 16ths, 32nds, 64ths
- Ultra fine black etched graduations
- Satin chrome finish
- Length is 6" long
- Width is 3/4"

UPC	NO.
32147 3	CF678MED



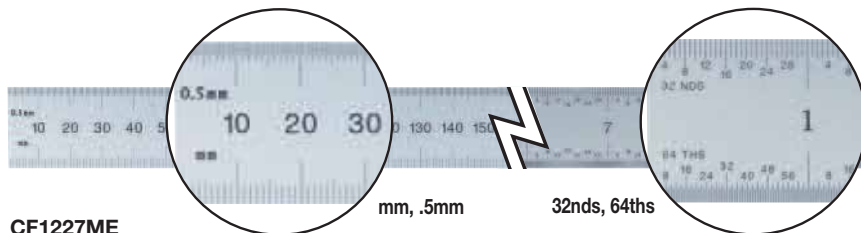
CF1216

32nds/64ths 10ths/100ths

PRECISION 12" FLEX STEEL RULE

- 5R Graduation - 32nds, 64ths; 10ths, 100ths
- Ultra fine black graduations
- Satin chrome finish
- Length is 12" long
- Width is 15/32"

UPC	NO.
32150 3	CF1216



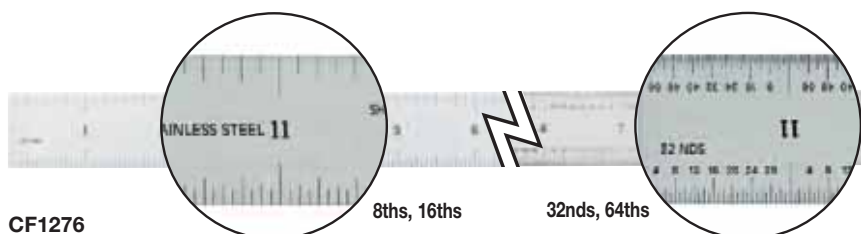
CF1227ME

mm, .5mm 32nds, 64ths

PRECISION 12" RIGID STEEL RULE

- Graduation - mm, .5mm; 32nds, 64ths
- Ultra fine black graduations
- Satin chrome finish
- Length is 12" long
- Width is 1"

UPC	NO.
32153 4	CF1227ME



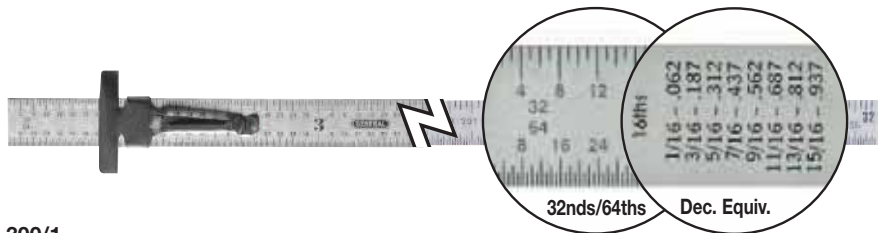
CF1276

8ths, 16ths 32nds, 64ths

PRECISION 12" RIGID STEEL RULE

- 4R Graduation - 8ths, 16ths; 32nds, 64ths
- Ultra fine black graduations
- Satin chrome finish
- Length is 12" long
- Width is 1"

UPC	NO.
32159 8	CF1276



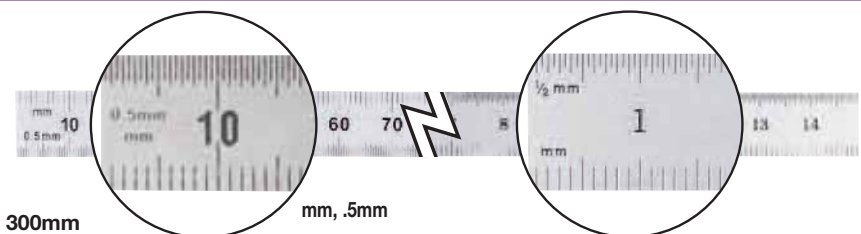
300/1

32nds/64ths Dec. Equiv.

PRECISION 6" FLEX STEEL RULE

- Graduation - 32nds, 64ths; Dec. Equiv
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 6" long • Width is 15/32"
- Convenient Pocket Clip
- Comes in a plastic sleeve

UPC	NO.
32036 0	300/1



300mm

mm, .5mm

PRECISION 150mm FLEX STEEL RULE

- Graduation - mm, .5mm
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 150mm long • Width is 15/32"
- Convenient Pocket Clip

UPC	NO.
32041 4	300MM

MACHINIST



TYPE OF GRADUATIONS:

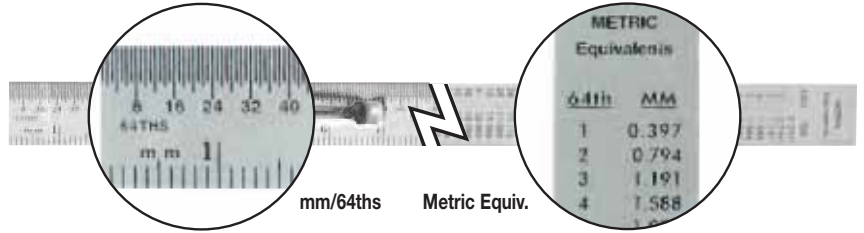
4R Graduation - 8ths, 16ths, 32nds, 64ths.
 5R Graduation - 32nds, 64ths, 10ths, 100ths.

16R Graduation - 32nds, 64ths, 50ths, 100ths.
 Metric English - 32nds, 64ths, 0.5mm, mm.

**PRECISION 6"/150mm
 FLEX STEEL RULE**

- Graduation - mm, 64ths; Metric Equiv.
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" (150mm) long
- Width is 15/32"
- Convenient Pocket Clip

UPC NO.
 32042 1 300ME

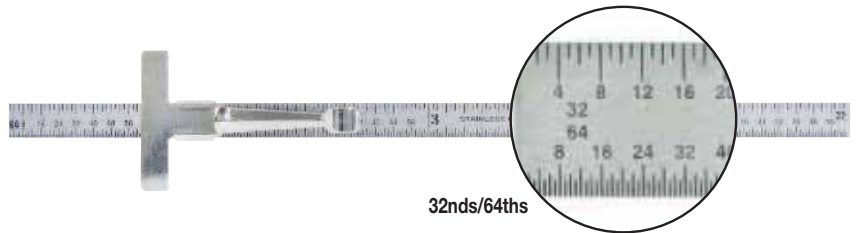


300ME

PRECISION 6" FLEX STEEL RULE

- Graduation - 32nds, 64ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 1/4"
- Convenient Pocket Clip

UPC NO.
 32046 9 301/1



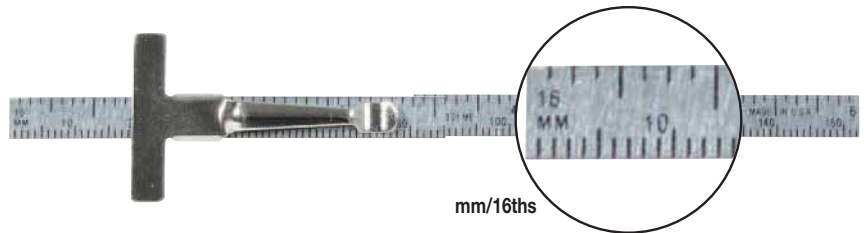
32nds/64ths

301/1

**PRECISION 6"/150mm
 FLEX STEEL RULE**

- Graduation - mm, 16ths
- Ultra fine black graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 1/4"

UPC NO.
 32049 0 301ME



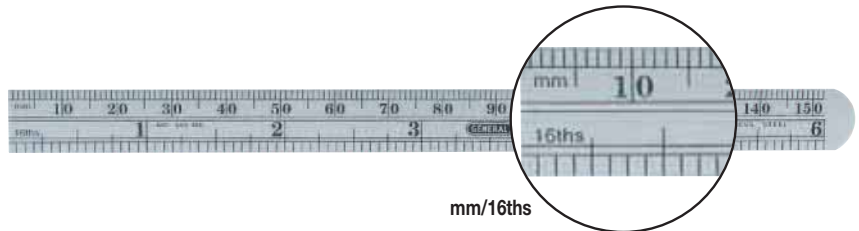
mm/16ths

301ME

**PRECISION 6"/150mm
 FLEX STEEL RULE**

- Graduation - mm, 16ths
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 15/32"

UPC NO.
 32060 5 305ME



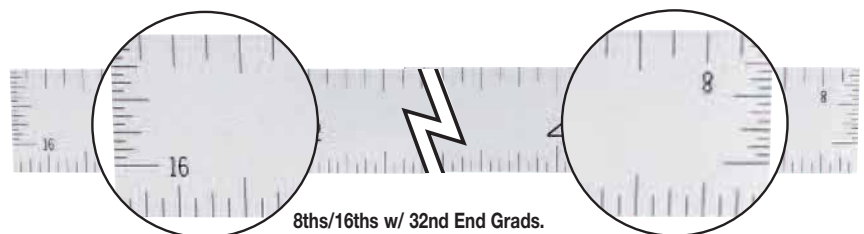
mm/16ths

305ME

PRECISION 6" FLEX STEEL RULE

- Graduation - 8ths, 16ths w/32nd End Grads.
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 3/4"

UPC NO.
 32063 6 307 Carded



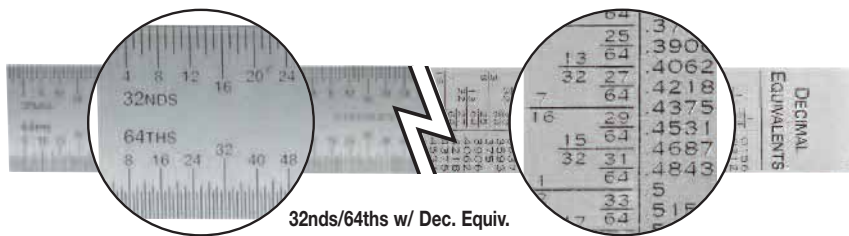
8ths/16ths w/ 32nd End Grads.

307

Economy Precision Rules

ULTRA RULE™ STAINLESS STEEL RULES

General's **ULTRA RULE™** Precision Marking Rule looks like an ordinary ruler. Look closer and you will see micro-fine marking holes and slots at every scale position to instantly locate a sharp pencil point or scriber exactly where you want it. You can effortlessly place your mark precisely on target with zero uncertainty and no eye strain.



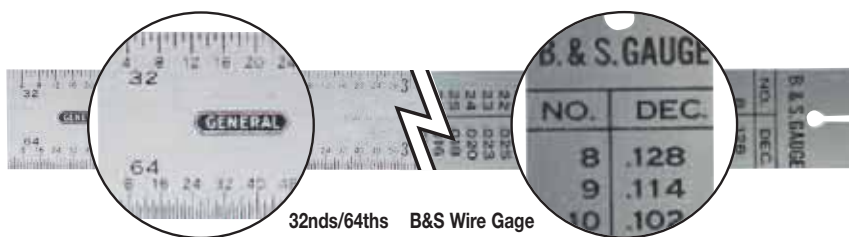
32nds/64ths w/ Dec. Equiv.

308

PRECISION 6" FLEX STEEL RULE

- Graduation - 32nds, 64ths w/ Dec. Equiv. Table
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 3/4"

UPC	NO.
30266 3	308 Carded



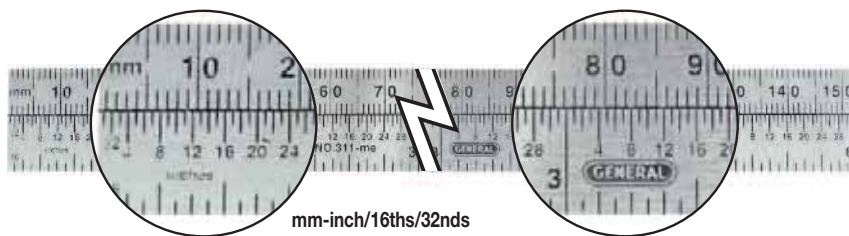
32nds/64ths B & S Wire Gage

310

PRECISION 6" FLEX STEEL RULE

- Graduation - 32nds, 64ths; B & S Wire Gage
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 3/4"

UPC	NO.
32072 8	310 Carded



mm-inch/16ths/32nds

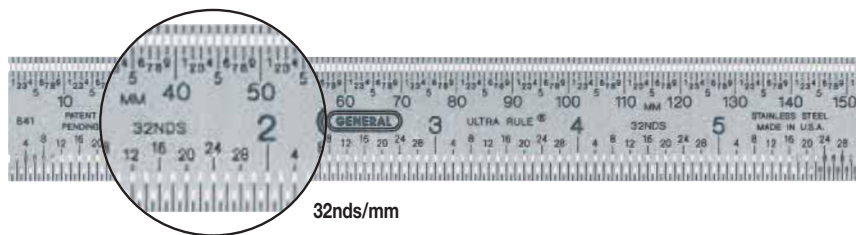
311ME

PRECISION 6"/150mm FLEX STEEL RULE

- Graduation - Comparison mm-inch, 16ths, 32nds
- Ultra fine black etched graduations
- Polished Stainless Steel finish
- Length is 6" long
- Width is 3/4"

UPC	NO.
32075 9	311ME Carded

ULTRA RULE™ STAINLESS STEEL RULES



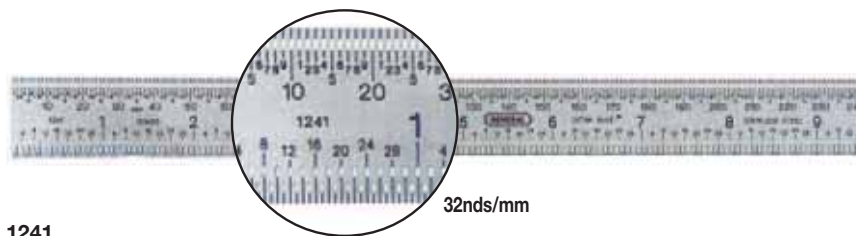
32nds/mm

641

6"/150mm FLEXIBLE MARKING ULTRA-RULE

- Graduation - 32nds, mm's
- Ultra fine black graduations
- Micro-fine marking holes
- Polished Stainless Steel finish
- Width is 7/8"
- Comes with a No. 640 0.5mm Mechanical Pencil

UPC	NO.
32112 1	641



32nds/mm

1241

12"/300mm FLEXIBLE MARKING RULE

- Graduation - 32nds, mm's
- Ultra fine black graduations
- Micro-fine marking holes
- Polished Stainless Steel finish
- Width is 7/8"
- Comes with a No. 640 0.5mm Mechanical Pencil

UPC	NO.
32181 7	1241

MACHINIST



General's Feeler Gages are used for adjusting and gaging spark plugs, distributors points, valve clearances and measuring spaces between parts. All of the feeler gages are made of the finest high

grade precision gage steel. Each leaf is etched with size numbers in the thousandths of an inch, as well as corresponding millimeter sized, for inch identification.

PRECISION FEELER GAGES

- Made of the finest high grade precision gage steel
- Each leaf is etched with size numbers in the thousandths for quick identification
- Knurled locknut holds the leaves in desired position
- Conforms to government specifications GGG-G-17b
- Special holder prevents edges from damage
- Leaves include the following sizes: .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, and .025"

PRECISION 26 STRAIGHT LEAF FEELER GAGE

- 3" (75mm) leaves are 1/2" (12mm) wide

UPC	NO.	LEAVES	SIZES
31306 5	226	26	.0015" to .025"

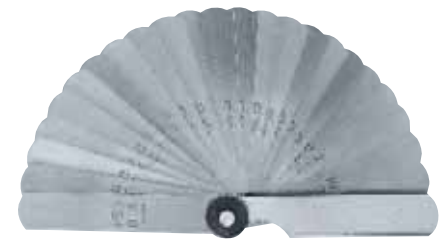
PRECISION 26 TAPER LEAF FEELER GAGE

- 3" (75mm) leaves taper from 1/2" (12mm) to just 1/4" (6.5mm) wide for working in confined spaces

UPC	NO.	LEAVES	SIZES
31309 6	226T	26	.0015" to .025"



226T



226

26-LEAF ECONOMY GAGE

- General's best selling feeler gage provides precision accuracy at a reasonable price
- 3" leaves include the following sizes: .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, and .025"
- Metric range is from .037 to .635mm

UPC	NO.	LEAVES	SIZES
31311 9	230	26	.0015" to .025"



230

15-LEAF ECONOMY GAGE WITH 3" (75MM) LEAVES

- Gage includes .002, .003, .004, .005, .006, .007, .008, .010, .011, .012, .013, .014, .015, .020, and .025"
- Metric range is from .051 to .635mm

UPC	NO.	LEAVES	SIZES
31313 3	231	15	.002" to .025"



231

15-LEAF ECONOMY GAGE WITH 6" (150MM) LEAVES

- Longer leaves allow accurate measuring in hard-to-reach places
- Gage includes .002, .003, .004, .005, .006, .007, .008, .010, .011, .012, .013, .014, .015, .020, and .025"
- Metric range is from .051 to .635mm

UPC	NO.	LEAVES	SIZES
31316 4	232	15	.051 to .635mm



232

Precision Squares and Gages

General's Precision Squares are used for checking internal and external 90° angles. Screw Pitch Gages are notched for measuring inside threads of small holes and nuts as well as external threads.

Center Gages improve efficiency and speed up set-up time for lathe thread cutting. Wiggler/Center Finders locate spindle centers and working points on drill presses, milling and other machines.



S389-4

WIGGLER/CENTER FINDER SET

- The snap-in ball and socket wiggler is essential for precise setups in machine shops
- Locates spindle centers and working points on drill presses, milling and other machines
- Four interchangeable point attachments snap into adjustable spring tension clutch holder

- Set includes snap-in holder, needle point, disk point, ball shaft and indicator shaft packed in a vinyl case

UPC	NO.
31418 5	S389-4



270-6

PRECISION SQUARES

- Use where accurate right angles are essential
- For checking external and internal 90° angles. Beam is riveted to the fully ground and polished carbon steel blade
- Groove on inside corner of beam for clearance of dirt or burrs

UPC	NO.	BLADE LENGTH	BEAM LENGTH
31340 9	270-2	2-1/8" (53mm)	1-3/8" (35mm)
31343 0	270-3	3" (75mm)	1-1/2" (38mm)
31346 1	270-4	4-1/4" (107mm)	2-3/8" (60mm)
31349 2	270-6	6-1/4" (147mm)	3-1/4" (82mm)
02701 6	S270	Set of all 4 Squares	



251

252

255mm

SCREW PITCH GAGES

- These finely crafted measuring devices are used for gaging V, American National or U.S. standard 60° threads
- Gages are notched for measuring inside threads of small holes and nuts as well as external threads

- Set of 51 screw pitches combines all sizes from 4 to 84, including 11-1/2 and 27 pipe thread sizes
- Knurled thumb nuts lock the case in an open or closed position

UPC	NO.	NO. OF PITCHES	SIZES
31321 8	251	51	4 to 84
31323 2	252	22	9 to 40
31326 3	255mm	22	.35 to 6.0mm



CF778

CENTER GAGE

- General's center gage improves efficiency and speeds set-ups for lathe thread cutting
 - The gage is graduated in 14ths, 20ths, 24ths, and 32nds of an inch for checking the number of threads per inch
- 60° angles for U.S. standard threads and double depth of American National thread

- Made of hardened spring tempered steel with protective satin chrome finish
- Notches have clearance slots

UPC	NO.
35010 7	CF778

715



REFERENCE TABLE

- Essential tap drill and decimal equivalents reference table for toolmakers, machinists and mechanics
- Front has machine screw size tap drill chart for recommended 75% depth thread

- Back has decimal equivalents table in 64ths from 1/64" to 63/64"
- For National Fine and National Coarse, American Standard Pipe and metric threads
- Convenient 6" rule is graduated in 64ths

UPC	NO.
35015 2	715

MACHINIST

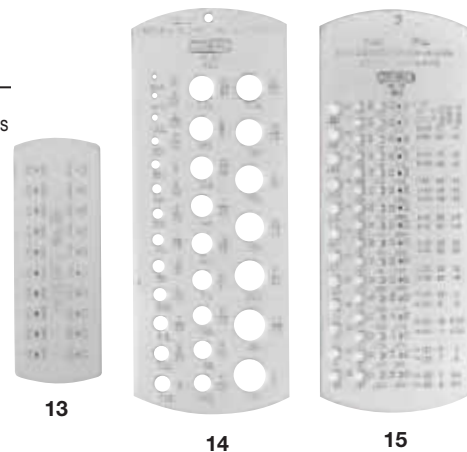
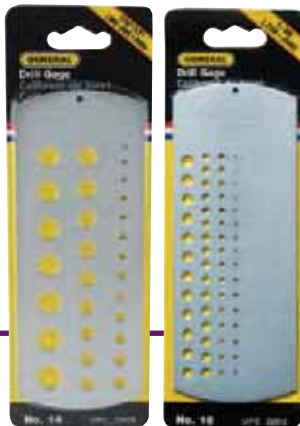
Wire Gages are used for gaging the thickness of non-ferrous wire and metals such as copper, brass and aluminum. Sheet Metal Gages are used for

gaging uncoated sheet metal, plate iron and steel. Drill Gages and Hobby Gages are used to quickly and conveniently identify drill bit sizes.

DRILL GAGES

- General's drill gages are used to quickly and conveniently identify drill bit sizes
- Made of heat treated heavy gage steel, machined and ground to close tolerances
- Hole sizes and decimal equivalents are permanently marked on the face
- No. 13 is 3" x 1-1/8" wide. Nos. 14 and 15 are 6-1/2" x 2-1/2" wide
- No. 14 and No. 15 conform to government specifications GG-G-86b

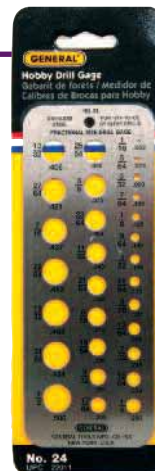
UPC	NO.	SPECIFICATIONS
22006 6	13	Number size drills 61 to 80
22009 7	14	Fractional size drills 1/16" to 1/2" x 64ths
22012 7	15	Number size drills 1 to 60



HOBBY DRILL GAGE

- Made of heat treated heavy gage steel, machined and ground to close tolerances
- Etched graduations are filled in black to give high contrast and will not wear off
- Gage measures 2-3/8" x 6-3/4" (60 x 172mm) overall
- Stainless steel will not rust

UPC	NO.	SPECIFICATIONS
22011 0	24	Fractional size drills 1/16" to 1/2" x 64ths



WIRE GAGE

- American Standard wire gage 0 to 36
- For gaging non-ferrous wire and metals such as copper, brass and aluminum
- Decimal equivalents of each size are stamped on reverse side
- Satin finished, heavy gage hardened and tempered steel
- 3-1/4" diameter, 3/32" thick

UPC	NO.	SPECIFICATIONS
22036 3	20	American Standard Wire Gage



SHEET METAL GAGE

- Gage numbers are U.S. Standard 0 to 36
- For gaging uncoated sheet metal, plate iron and steel
- Decimal equivalents of each size are stamped on reverse side
- Satin finished, heavy gage steel is hardened and tempered
- 3-1/4" diameter, 3/32" thick

UPC	NO.	SPECIFICATIONS
22041 7	21	Sheet Metal Gage

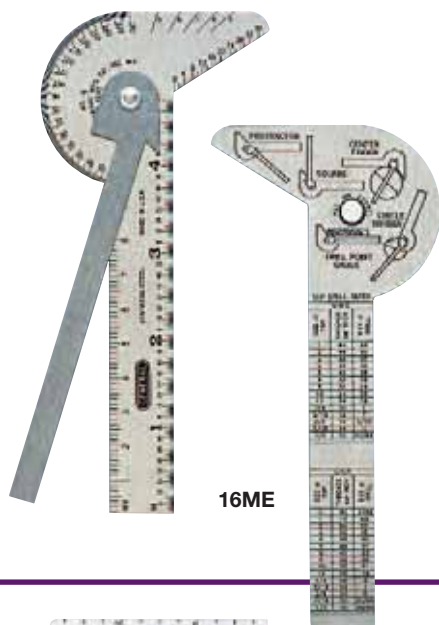


MACHINIST

Gages

The Multi-Use Rule and Gage performs five separate functions: drill point gage, bevel protractor, center finder, circle divider and tap and drill gage.

Steel Protractors are preferred by machinists, draftspeople, and mechanics for setting bevels, measuring and transferring angles.



16ME

MULTI USE RULE AND GAGE

- One of our most popular pocket tools performs five separate and distinct functions
- Drill point gage is used for checking 59° angle drill points
- Bevel protractor is used for measuring and laying out angles
- Center finder locates centers of shafts or circles

- Center finder locates centers of shafts or circles
- Circle divider (up to nine equal parts) is used for dividing circles into sectors, regular polygons and polygrams
- Tap and drill table shows popular tap sizes with correct drill sizes for National form of thread
- Made of long-wearing stainless steel
- 4" rule has etched graduations in 64ths and millimeters



UPC	NO.
22015 8	16ME



714

QUICK CHECK SCREW GAGE

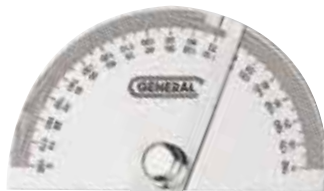
- Quick way to identify machine screws, bolts, wood screws, standard size rivets and common cotter pin sizes up to 5/16" (8mm)
- 3" scale to check screw lengths
- Checker gives required drill size for corresponding tap size and proper drill size for like hole

- Threaded holes indicate threads per inch while unthreaded indicate size by number and fractions of an inch
- Durable engineering plastic

UPC	NO.
35018 3	714



17



18



STEEL PROTRACTORS

- Preferred by machinists, draftspeople, and mechanics for setting bevels, measuring and transferring angles
- Made of ground stainless steel for optimum accuracy
- Permanently etched graduations from 0 to 180° in opposite directions
- 3-3/8" x 2" head
- 6" adjustable protractor arm locks into desired position with knurled thumb nut

UPC	NO.	STYLE
22018 9	17	Square head
22021 9	CF17	Square head (Stain chrome finish)
22024 0	18	Round head

MACHINIST



MACHINIST TOOLS Protractors



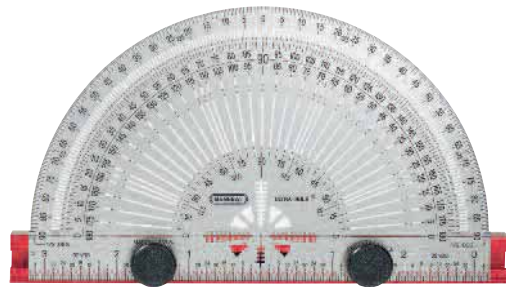
The Pro-Angle™ Digital Protractor takes the guesswork out of measuring, marking, reading and transferring angles. The 6" Stainless Steel Protractor arm has a

knurled locking nut. The large, display can be inverted for easy, instant reading. The Hold Function can be used to freeze measurements.

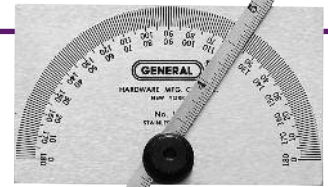
6" FLEXIBLE ULTRA-RULE PROTRACTOR

- Graduation - Degrees, 1/2 Degrees, 32nds
- Ultra fine black graduations
- Micro-fine marking holes
- Polished stainless steel finish
- Width is 3-7/8"
- Comes with a No. 640 0.5mm mechanical pencil

UPC	NO.
22165 0	30



30



19

PROTRACTOR AND DEPTH GAGE

- Permanently etched with graduations from 0 to 180° in opposite directions
- Narrow 6" x 1/4" depth gage rule has etched graduations in 32nds and 64ths
- Spring tension nut locks rule for making both depth and angle measurements

- Made of stainless steel

UPC	NO.	STYLE
22027 1	19	Square head

Pro-ANGLE™ DIGITAL PROTRACTOR

Take the guesswork out of measuring, marking, reading and transferring angles

- 6" (150mm) stainless steel protractor arm with knurled locking nut
- Large, easy-to-read display
- Absolute and Relative measurements
- Accuracy: 0.1°
- Resolution: 0.05°
- Range: 0.00° to 180.00°
- Display can be inverted for easy reading
- Hold function to freeze measurement
- Power Source: 1 "CR2023" (3.0V) battery (included)

UPC	NO.
26008 6	1702
	CR2032 replacement battery



1702



Inverted Display

ULTRATECH™ TOOL SYSTEM

MACHINIST TOOLS

Digital Calipers



Electronic Digital Calipers do the work of dial calipers with added benefits; high-contrast liquid crystal display provides easy, instant readings with no need for calculations. Microprocessor-based calipers

convert from inch to metric at the push of a button. General's high quality, easy-to-read Electronic Digital Calipers make precise inside, outside, depth and step measurements.

DEPTH/ANGLE GAGE

- Our easy to read gage makes precise depth measurements in small holes and slots; also doubles as a protractor
- Spring tension nut eases depth and angle measuring by securing rule in milled slot at 90° angle to base

- Permits easy setting of protractor angle to 30°, 45° and 60° settings on both sides
- 6" x 1/4" etched stainless steel rule graduated in 32nds and 64ths
- 2-1/2" wide hardened steel base

UPC	NO.
31586 1	444

444



FRACTION+

6", 8" & 12" STAINLESS STEEL DIGITAL FRACTIONAL CALIPERS

- Resolution: 0.0005", 0.01mm, 1/64"
- Power Source: 1 "SR44" (1.5V) battery included

UPC	NO.	RANGE
01470 2	147	0 - 6" (0 - 153mm)
01478 3	1478	0 - 8" (0 - 203mm)
14712 7	14712	0 - 12" (0 - 305mm)

147



No. 147 Digital Display

- 6" (153mm) range
- Heavy-duty stainless steel construction
- Convenient auto-off feature
- Three mode digital display: Decimal Inches, Fractions, Metric
- Inside, outside, depth & step measurements
- Accuracy: +/- 0.001", +/- 0.02mm

FRACTION+

6" CARBON FIBER DIGITAL FRACTIONAL CALIPER

- 6" (153mm) range
- Lightweight, non-marring carbon fiber composite
- Convenient auto-off feature
- Three mode digital display: Decimal Inches, Fractions, Metric
- Inside, outside, depth & step measurements
- Accuracy: +/- 0.008", +/- 0.2mm
- Resolution: 0.0005", 0.01mm, 1/64"
- Power Source: 1 "SR44" (1.5V) battery incl.

UPC	NO.	RANGE
01460 3	146	0 - 6" (0 - 153mm)

146



No. 146 Digital Display



FRACTION+

3" CARBON FIBER DIGITAL FRACTIONAL CALIPER

- 3" (76mm) range
- Lightweight non-marring carbon fiber composite
- Convenient auto-off feature
- Three mode digital display: Decimal Inches, Fractional and Metric
- Convenient pocket clip
- Accuracy: +/- 0.005" +/- 0.1mm
- Inside, outside, depth & step measurements
- Resolution: 0.0005", 0.01mm, 1/64"
- Power Source: 1 "SR54" (1.5V) silver oxide battery included

UPC	NO.	RANGE
01433 7	1433	0 - 3" (0 - 76mm)

1433



No. 1433 Digital Display



MACHINIST



General's Micrometers are used to measure distances to the nearest ten thousandth of an inch. The measurement is usually expressed or written as a decimal. The types of micrometers commonly used

are made so that the longest movement possible between the spindle and the anvil is 1 inch. This movement is called the "range".

6" DIAL CALIPER

- Stainless steel construction for accuracy and durability
- Large, clear dial accurately reads to .001"
- Satin chrome scale with clearly etched tenths of inch graduations
- Covered rack ensures smooth operation by preventing dirt and chips from entering rack and gear mechanism

- Inside, outside, depth and step measurement
- Lock for repetitive measurement
- Free wheeling thumb roller
- Depth stop rod
- Adjustable bezel for zero setting

UPC	NO.	CAPACITY
10700 8	107	0 - 6" (0 - 153mm)



107

DIAL CALIPER AND MARKING SET

- This set contains three of the most useful measuring and marking tools for mechanics and machinists
- Set includes: 6" Dial Caliper; 6" x 3/4" Stainless Steel Ruler with satin finish and reversible Tip Carbide Scriber with magnetic pick-up
- Ruler has etched and filled 4R graduations (1/8", 1/16", 1/32", 1/64")

- Scriber has aluminum body with knurled handle in an overall length of 4-3/4"
- Caliper has inside, outside, depth and step measurement
- Caliper has lock for repetitive measurement
- Free wheeling thumb roller
- Packaged in a sturdy, fitted, plastic case designed specifically for this set

UPC	NO.
10800 5	108



108

PRECISION VERNIER CALIPER

- General's vernier caliper is an extremely accurate measuring tool guaranteed to .001" accuracy
- Vernier scale is extra long for easier and more accurate readings
- Permanent black graduations
- Hardened stainless steel construction with beveled lower jaws and pointed beveled upper jaws

- Depth gage
- Automatic thumb lock
- Conversion table on back
- Plastic case with instructions
- Satin chrome finish

UPC	NO.	GRADS
33450 3	MG6001DC	0-6" range, .001" bottom and 1/20mm top grads



MG6001DC

PRECISION MICROMETERS FORGED STEEL FRAME

- Forged steel frame eliminates flexing for greater accuracy
- Reads to .001". Accurate to .0003"
- Hardened and precision ground measuring surfaces
- Positive spindle lock holds measurement
- Satin chrome thimble and barrel with easy-to-read black contrasting graduations

- Friction stop for repetitive readings
- Quick and easy zero adjustment with spanner wrench (included)

UPC	NO.	RANGE
34185 3	MG1001	0" to 1"
34184 6	MG1001MM	0 to 25mm



MG1001

UTILITY MICROMETER

- A practical and economical measuring device for beginners and hobbyists
- Well-suited for use in training programs, general toolroom and machine shop use and automotive work
- Accuracy guaranteed to .001"
- Satin chrome thimble and barrel with easy-to-read black contrasting graduations

- Special wrench is included for simple zero adjustments
- Ground and polished carbide measuring faces
- Engraved graduations on barrel
- Lock for repetitive measurement

UPC	NO.	RANGE INCLUDES
44103 4	102	0" to 1"



102



General's Dial Indicators provide all the features necessary for precise quality control functions. Large dials provide easy to read measurements. Our Dial Indicators meet or exceed federal specifications for

accuracy. General's four-piece set for toolmakers and machinists consists of square and miter heads, center head and bevel protractor head. The 12" blade is fully hardened and tempered steel.

MG1780



ULTRATEST® PLUNGER DIAL INDICATOR

- Large 2-1/2" diameter dial indicator is made to the highest standards, with extreme accuracy throughout its full range
- Dial is continuous and may be rotated for setting at any point
- Full 1" travel
- Revolution accumulator counter
- Direct decimal two-way reading left and right

- Adjustable limit indicators
- Lug mount standard

UPC	NO.	READINGS
33605 7	MG1780	0 to .100" by .001"

109



PLUNGER DIAL INDICATOR

- Large 2-1/4" diameter dial indicator
- Accuracy to .001"
- Dial is continuous and may be rotated for setting at any point
- Full 1" travel
- Revolution accumulator counter

- Direct decimal two-way reading left and right
- Adjustable limit indicators
- Lug mount standard

UPC	NO.	READINGS
10900 2	109	0 to .100" by .001"

MG1758



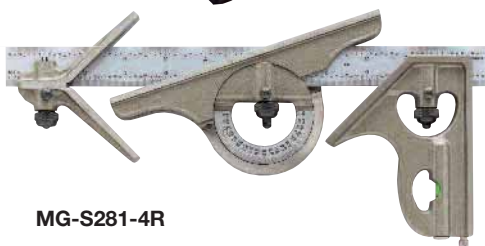
ULTRATEST® MAGNETIC BASE

- No residual magnetism, when in the off position, to prevent scratching or other damage from inadvertent magnetism of chips or work pieces
- On/Off switch energizes only when in use on work surface
- V-groove for round surfaces
- Works on vertical or horizontal surfaces
- Switching adapts easily to cam action for automatic setups, using magnetic base as an on/off holding device

- Holds most dial indicators with center lug backs, universal indicator attachments, as well as other fixtures
- 60 lb. pull
- Base 2-3/4"L x 2-1/8"H; overall height 9-3/4"

UPC	NO.
33587 6	MG1758

MG-S281-4R



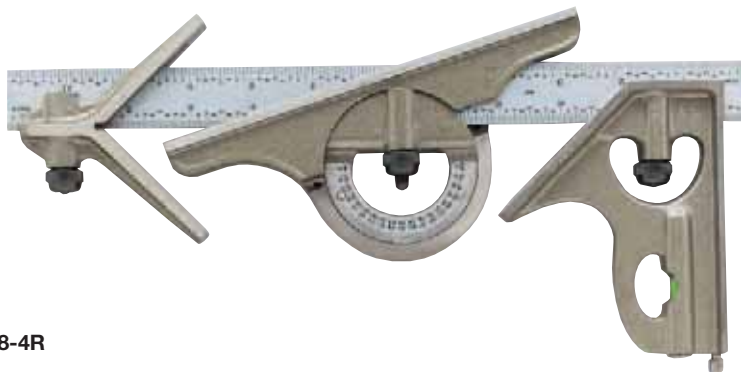
ULTRATEST® COMBINATION SET WITH HARDENED SQUARE AND CENTER HEADS, REVERSIBLE PROTRACTOR AND PATENTED LOCATING DEVICE

- Patented locating screw automatically positions all heads for quick assembly
- With hardened square and center heads for durability
- Double shoulder reversible protractor head
- Satin chrome 12" blade

- Square head has spirit level and hardened scriber
- Meets gov. specification GGG-S-656C.

UPC	NO.	GRADUATIONS
33840 2	MG-S281-4R	8, 16, 32, 64

MG-S278-4R



ULTRATEST® COMBINATION SET WITH SQUARE HEAD, CENTER HEAD, AND REVERSIBLE PROTRACTOR HEAD

- Double shoulder reversible protractor head
- 12" etched, high carbon steel ruler with satin chrome finish
- Square head has spirit level and hardened scriber
- Meets gov. specification GGG-S-656C

UPC	NO.	GRADUATIONS
33800 6	MG-S278-4R	8, 16, 32, 64

MACHINIST