

INDEX

ADAPTERS		SETS continued...	
HEXAGON DIE	74	THREAD RESTORING FILE AND AUTOMOTIVE DIE - METRIC	68
COMBINED DRILL AND TAP	13	TAP GUIDE	75
DIE STOCK SCREWDRIVER	75	TAPPING & CUTTING FLUID	75
DIE STOCKS	74	TAPS	
DIES		ACME	
AUTOMATIC THREAD	46	TANDEM STYLE	29
ADJUSTABLE - 2 PIECE	57	TANDEM STYLE - SPIRAL FLUTE	30
AUTOMOTIVE RETHREADING	56	AUTOMOTIVE RETHREADING	31
CONE	58	EXTENSIONS	36
HOLDER	58	HAND - CARBON STEEL	
HEXAGON		METRIC	12
HEX NUT DIAMETER	54	STANDARD	12
PIPE - NPT	53	HAND - HIGH SPEED STEEL	
STANDARD	53	BRITISH STANDARD	11
HEXAGON RETHREADING		EIGHT PITCH	7
ACME THREAD	59	LEFT HAND	6
BEARING LOCKNUT	45	LEFT HAND THREAD METRIC	10
BRITISH STANDARD	47	METRIC SPECIAL THREAD	10
CARBON STEEL - VARIOUS	52	METRIC THREAD	9
LEFT HAND	48	OPTIONAL H-LIMIT	5
METRIC	50	OVERSIZE +.005	6
METRIC - LEFT HAND	50	OVERSIZE - SPECIAL	6
METRIC - SPECIAL THREAD	50	SCREW THREAD INSERT (STI)	14
PIPE - NPT	48	SPECIAL	6
SPECIAL THREAD	49	SPECIAL THREAD	8
STANDARD	48	STANDARD	4
LEFT HAND	39	TEN PITCH	7
METRIC	40	HAND TAPS - SOLID CARBIDE	
METRIC - SPECIAL	41	LEFT HAND THREAD	21
ROUND ADJUSTABLE		LEFT HAND THREAD - METRIC	22
BRITISH STANDARD	47	RIGHT HAND THREAD	21
GENERAL PURPOSE	38	RIGHT HAND THREAD - METRIC	22
LEFT HAND	39	NUT	24
LEFT HAND - METRIC	39	PIPE - CARBON STEEL	
PARALLEL PIPE - BRITISH STANDARD	44	BRITISH STANDARD - TAPER	35
SPECIAL THREAD	42	TAPER	35
SPECIAL THREAD - METRIC	41	PIPE - HIGH SPEED STEEL	
STRAIGHT PIPE	43	BRITISH STANDARD - PARALLEL	34
TAPER PIPE	43	BRITISH STANDARD - TAPER	34
TAPER PIPE - BRITISH STANDARD	44	INTERRUPTED THREAD	33
SPECIAL HEX RETHREAD	49	LEFT HAND THREAD	34
SQUARE		LONG TAPER THREAD	34
SOLID BOLT	55	STRAIGHT THREAD	33
TAPER PIPE - NPT	55	TAPER THREAD	33
DISPENSER		PIPE - SOLID CARBIDE	
TAP	65	TAPER (NPT)	20
TAP AND DRILL	65	PULLEY TAPS	
FILES - THREAD RESTORING	66	SPIRAL POINT	23
HOLDERS		SPIRAL POINT- METRIC	23
FLOATING DIE	74	STANDARD	23
SCREW EXTRACTOR		STANDARD METRIC	24
HELICAL FLUTE	1	SPARK PLUG RETHREADING	31
STRAIGHT FLUTE	1-2	SPIRAL FLUTED	
SCREW PITCH GAUGES	75	COBALT - CNC	25
SETS		FAST	25
AUTOMOTIVE RETHREADING TAP AND DIE	68	HIGH PERFORMANCE	19
BRITISH STANDARD PIPE TAP	37	REGULAR	25
HAND TAP	61	SPIRAL POINT	
HEXAGON RETHREADING DIE	51, 60	COBALT	17
HEXAGON RETHREADING PIPE DIE	51	EXTENSION	17
MODEL AIRPLANE TAP	70	GUN TAPS	15
MODEL RAILROAD TAP	70	GUN TAPS - METRIC	16
RATCHETING PIPE THREADER	71	HIGH PERFORMANCE	18
SCREW EXTRACTOR	2-3	HIGH PERFORMANCE - LONG LENGTH	18
SCREW EXTRACTOR AND DRILL	2	OVERSIZE +.005	17
TAP AND DRILL	65	SCREW THREAD INSERT (STI)	14
TAP AND HEX DIE	61-63	SOLID CARBIDE	20
TAP AND HEX DIE - METRIC	61	THREAD FORMING	
TAP AND ROUND ADJUSTABLE	64, 66	HIGH SPEED STEEL	26
TAP AND ROUND ADJUSTABLE - METRIC	64, 66	SOLID CARBIDE	27
TAP AND ROUND ADJUSTABLE - MINIATURE	69	SOLID CARBIDE - METRIC	28
TAP AND ROUND ADJUSTABLE - MINIATURE - METRIC	69	TITANIUM NITRIDE COATED	26
TAP AND ROUND ADJUSTABLE - SPIRAL POINT	67	THREADLOCK PLUG GAUGES	32
TAP AND ROUND ADJUSTABLE - SPIRAL POINT - METRIC	67	VALVE CORE TOOL (6 in 1 tool)	77
TAPER PIPE TAP	37	WRENCHES	
THREAD BOX AND TAP	76	ADJUSTABLE TAP AND REAMER	72
THREAD RESTORING FILE AND AUTOMOTIVE DIE	68	T-HANDLE TAP	73

TOOL STEEL

HELICAL FLUTE SCREW EXTRACTORS

ICS

WIS

SPECIAL PURPOSE**LEFT HAND CUT****ROUND
SHANK****HELICAL
FLUTE**

Round Shank Helical Flute Screw Extractors are used to remove broken screws, bolts, studs, pipe, and lubrication fittings without damage to the threaded hole. They are designed with a left hand helical flute to firmly grip and remove any right hand threaded screw or bolt from 3/16" to 3-1/2" in size. They can also be used for turning threaded pipe sections. Sizes #1 to #5 have ground center punch points. Meets Government Specs. GGG-E936B.

ITEM NO.	SIZE	DRILL SIZE TO USE	FOR SCREWS & BOLT SIZES	FOR PIPE SIZES	PRICE EACH	
					BULK	PKG.
SXHF#01	1	5/64	3/16 - 1/4	-	\$1.56	\$2.00
SXHF#02	2	7/64	1/4 - 5/16	-	1.60	2.04
SXHF#03	3	5/32	5/16 - 7/16	-	1.74	2.18
SXHF#04	4	1/4	7/16 - 9/16	-	2.08	2.54
SXHF#05	5	17/64	9/16 - 3/4	1/8 - 1/4	2.54	2.98
SXHF#05.25	5-1/4	23/64	11/16 - 15/16	1/4	5.00	5.46
SXHF#06	6	13/32	3/4 - 1	3/8	5.74	6.20
SXHF#06.375	6-3/8	31/64	15/16 - 1-1/8	3/8	8.00	8.46
SXHF#07	7	17/32	1 - 1-3/8	1/2	9.76	10.20
SXHF#07.5	7-1/2	39/64	1-1/8 - 1-1/2	1/2	12.50	12.98
SXHF#08	8	13/16	1-3/8 - 1-3/4	3/4	16.38	16.84
SXHF#09	9	1-1/16	1-3/4 - 2-1/8	1	22.96	23.42
SXHF#10	10	1-5/16	2-1/8 - 2-1/2	1-1/4	40.32	1-
SXHF#11	11	1-9/16	2-1/2 - 3	1-1/2	60.46	1-
SXHF#12	12	1-15/16	3 - 3-1/2	2	97.76	1-

Please specify Bulk or Packaged when ordering.

TOOL STEEL

STRAIGHT FLUTE SCREW EXTRACTORS

ICS

WIS

SPECIAL PURPOSE**RIGHT or LEFT HAND CUT****ROUND
SHANK****STRAIGHT
FLUTE**

Round Shank Straight Flute Screw Extractors are used to remove broken right or left hand threaded screws, bolts, studs, pipe, and lubrication fittings without damage to the threaded hole. They are designed with four sharp cutting edges to give a right or left hand positive gripping action without binding or chewing. They are preferred for soft metals and thin walled parts as they do not expand the part being removed. Meets Government Specs. GGG-E936C.

ITEM NO.	SIZE	DRILL SIZE TO USE	FOR SCREWS & BOLT SIZES	FOR PIPE SIZES	PRICE EACH	
					BULK	PKG.
SXSFRL#01	1	9/64	1/4 - 5/16	-	\$2.00	\$2.46
SXSFRL#02	2	3/16	3/8	-	2.12	2.56
SXSFRL#03	3	15/64	7/16	1/8	2.30	2.74
SXSFRL#04	4	5/16	1/2 - 9/16	1/4	2.76	3.22
SXSFRL#05	5	3/8	5/8	3/8	3.28	3.72
SXSFRL#06	6	15/32	3/4	1/2	5.38	5.84
SXSFRL#07	7	9/16	7/8	-	7.02	7.46

Please specify Bulk or Packaged when ordering.

TOOL STEEL

STRAIGHT FLUTE SCREW EXTRACTORS

ICS

WIS

SPECIAL PURPOSE

LEFT HAND CUT

SQUARE
SHANKSTRAIGHT
FLUTE

Square Shank Straight Flute Screw Extractors are used to remove broken screws, bolts, studs, pipe, and lubrication fittings without damage to the threaded hole. They are designed with four sharp edges to give a positive gripping action without binding or chewing. They are preferred for soft metals and thin walled parts as they do not expand the part being removed. Meets Government Specs. GGG-E936C.

ITEM NO.	SIZE	DRILL SIZE TO USE	FOR SCREWS & BOLT SIZES	FOR PIPE SIZES	PRICE EACH	
					BULK	PKG.
SXSF#01	1	9/64	1/4 - 5/16	-	\$2.00	\$2.46
SXSF#02	2	3/16	3/8	-	2.12	2.56
SXSF#03	3	15/64	7/16	1/8	2.30	2.74
SXSF#04	4	5/16	1/2 - 9/16	1/4	2.76	3.22
SXSF#05	5	3/8	5/8	3/8	3.28	3.72
SXSF#06	6	15/32	3/4	1/2	5.38	5.84
SXSF#07	7	9/16	7/8	-	7.02	7.46

Please specify Bulk or Packaged when ordering.

SCREW EXTRACTOR SETS**VINYL POUCHES**

DESCRIPTION	ITEM NO.	TYPE	PRICE
5 PC SCREW EXTRACTOR SET Sizes #1 to #5	SXS-HF-5	Helical Flute Round Shank	\$11.70
5 PC SCREW EXTRACTOR SET Sizes #1 to #5	SXS-SF-5	Straight Flute Square Shank	14.66
5 PC SCREW EXTRACTOR SET Sizes #1 to #5	SXS-SFR-5	Straight Flute Round Shank	14.66
9 PC SCREW EXTRACTOR SET Sizes #1 to #9	SXS-HF-9	Helical Flute Round Shank	64.96


SCREW EXTRACTOR AND DRILL SETS**METAL CASE**

DESCRIPTION	ITEM NO.	TYPE OF SCREW EXTRACTOR & DRILLS	PRICE
10 PC SCREW EXTRACTOR SET One each Sizes #1 to #5 Screw Extractors One each 5/64, 7/64, 5/32, 1/4, 17/64 Screw Machine Drills with RH or LH cut (Not Illustrated)	SXDS-10	Helical Flute Screw Extractors Screw Machine Drills - RH cut	\$22.40
	SXDS-10L	Helical Flute Screw Extractors Screw Machine Drills - LH cut	\$34.76

10 PC MULTI-SPLINE SCREW EXTRACTOR SET

PLASTIC CASE

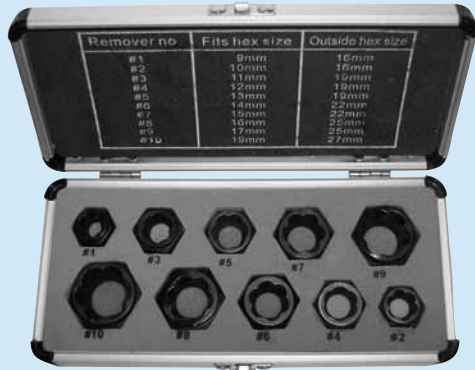
Hex Head Multi-Spline Screw Extractors are used to remove broken studs, bolts, socket screws, and lubrication fittings. They are designed with an aggressive left hand spiral design for maximum gripping power and can be used with a socket or flat wrench.

DESCRIPTION		ITEM NO.	PRICE
 <p>10 PC MULTI-SPLINE SCREW EXTRACTOR SET</p>	Each set contains the following multi-spline screw extractor sizes:	MSSXS-10	\$29.28
	1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 13/32		
MULTI-SPLINE SCREW EXTRACTOR	FOR BOLT SIZE	MULTI-SPLINE SCREW EXTRACTOR	FOR BOLT SIZE
1/8	#12	9/32	1/2
5/32	1/4	5/16	9/16
3/16	5/16	11/32	5/8
7/32	3/8	3/8	11/16
1/4	7/16	13/32	3/4

10 PC BOLT AND NUT EXTRACTOR SET

ALUMINUM CASE

Hex Head Bolt and Nut Extractors are used for removing damaged fasteners and rounded-off hex bolts and nuts. They are designed with a reverse spiral flute to grip a damaged fastener as you turn the tool and they can be used with most wrenches or a ratchet socket. They will remove both metric and inch size fasteners from 9-19mm or 3/8" to 3/4".

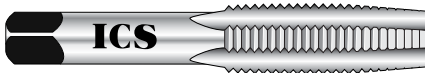
DESCRIPTION		ITEM NO.	PRICE
 <p>10 PC BOLT AND NUT EXTRACTOR SET</p>	Each set contains one each:	BNXS-10M	\$31.00
	#1 to #10 extractor		
BOLT & NUT EXTRACTOR	FITS HEX SIZE	BOLT & NUT EXTRACTOR	FITS HEX SIZE
#1	9mm 3/8	#6	14mm 9/16
#2	10mm	#7	15mm
#3	11mm 7/16	#8	16mm 5/8
#4	12mm	#9	17mm
#5	13mm 1/2	#10	19mm 3/4

HIGH SPEED STEEL - TITANIUM NITRIDE COATED STANDARD HAND TAPS

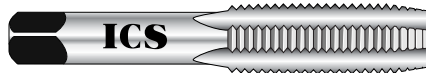
ICS **WIS**

GENERAL PURPOSE

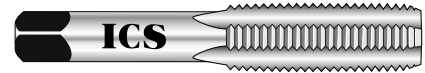
GROUND THREAD



TAPER TAP
7-10 Thread Chamfer
at 5 degrees per side



PLUG TAP
3-5 Thread Chamfer
at 8 degrees per side



BOTTOMING TAP
1-2 Thread Chamfer
at 18 degrees per side

High Speed Steel Hand Taps with straight flutes are designed for general purpose hand tapping or in production machines where ground thread accuracy and performance are required. They are suitable for tapping most materials in through or blind holes. Hand taps retain chips in the flutes during use and work best on materials that produce chips and the swarf breaks easily. They are also known as Straight Flute Taps.

SIZE	THREADS PER INCH			NO. OF FLUTES	LIMIT NO.	PRICE EACH HIGH SPEED STEEL		PRICE EACH TIN COATED	TAP DRILL SIZE APPROX. 75% THREAD			
	NC UNC	NF UNF	NS			TAPER, PLUG BOTTOMING	TAPER, PLUG BOTTOMING 3 PC SET		TAPER, PLUG BOTTOMING	NC	NF	NS
						SHT	SHTS		SHTT			
0	-	80	-	2	H1	11.04	33.08	13.28	-	3/64	-	
1	64	72	-	2	H1	10.26	30.78	12.50	53	53	-	
2	56	64	-	3	H2	8.40	25.20	10.64	50	50	-	
3	48	56	-	3	H2	6.84	20.50	9.08	47	45	-	
4	40	48	36	3	H2	5.38	16.14	7.62	43	44	42	
5	40	44	-	3	H2	5.38	16.14	7.62	38	37	-	
6	32	40	-	3	H3	3.92	11.76	6.16	36	33	-	
8	32	36	-	4	H3	4.22	12.64	8.26	29	29	-	
10	24	32	-	4	H3	4.22	12.64	8.26	25	21	-	
12	24	28	-	4	H3	5.84	17.48	9.86	16	14	-	
1/4	20	28	-	4	H3	4.56	13.66	8.58	7	3	-	
5/16	18	24	-	4	H3	5.34	16.00	11.50	"F"	"I"	-	
3/8	16	24	-	4	H3	6.16	18.48	12.32	5/16	"Q"	-	
7/16	14	20	-	4	H3	10.62	31.86	16.78	"U"	25/64	-	
1/2	13	20	-	4	H3	11.32	33.94	17.48	27/64	29/64	-	
9/16	12	18	-	4	H3	14.74	44.02	25.94	31/64	33/64	-	
5/8	11	18	-	4	H3	18.16	54.44	29.36	17/32	37/64	-	
11/16	-	-	11	4	H3	19.68	59.02	32.00	-	-	19/32	
11/16	-	-	16	4	H3	19.68	59.02	32.00	-	-	5/8	
3/4	10	16	-	4	H3	25.44	76.28	37.76	21/32	11/16	-	
7/8	9	14	-	4	H4	35.18	105.52	52.42	49/64	13/16	-	
1	8	12	14	4	H4	53.76	161.28	79.42	7/8	15/16	59/64	
1-1/8	7	12	-	4	H4	80.26	240.78	131.46	63/64	1-3/64	-	
1-1/4	7	12	-	4-6	H4	101.82	305.44	153.00	1-7/64	1-11/64	-	
1-3/8	6	12	-	4-6	H4	128.02	384.06	179.20	1-7/32	1-19/64	-	
1-1/2	6	12	-	4-6	H4	161.06	483.18	212.24	1-11/32	1-27/64	-	
1-3/4	5	-	-	6	H4	179.42	-	251.54	1-9/16	-	-	
2	4-1/2	-	-	6	H4	230.94	-	349.88	1-25/32	-	-	
2-1/4	4-1/2	-	-	6	H6	292.32	-	411.28	2-1/32	-	-	
2-1/2	4	-	-	6	H6	347.76	-	592.76	2-1/4	-	-	
3	4	-	-	6	H10	509.04	-	-	2-3/4	-	-	
3-1/2	4	-	-	6	H10	757.68	-	-	3-1/4	-	-	

PITCH DIAMETER LIMIT SYMBOLS
H: (High) Pitch Dia. is above basic. The number following "H" is the number of .0005" steps above the basic pitch diameter. Taps larger than 1" dia. have .0010" steps.
LIMITS FOR TAPS TO 1" DIAMETER
H1 = Basic to Basic + .0005"
H2 = Basic + .0005" to basic + .0010"
H3 = Basic + .0010" to basic + .0015"
H4 = Basic + .0015" to basic + .0020"
LIMITS FOR TAPS OVER 1" DIAMETER
H4 = Basic + .001" to basic .002"

PACKAGING

#6 to 1/2 - 12 taps/box
 9/16 to 1 - 3 taps/box
 1-1/8 to 1-3/4 - 1 tap/tube

THREAD FORM SYMBOLS	
NC	American National Coarse Thread Series
UNC	Unified Coarse Thread Series
NF	American National Fine Thread Series
UNF	Unified Fine Thread Series
NS	American National Thread-Special

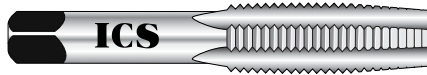
Please specify Taper (T), Plug (P) or Bottoming (B) chamfer. Examples: SHT#06-32T, SHT#06-32P, SHT#06-32B.

HIGH SPEED STEEL - TITANIUM NITRIDE COATED OPTIONAL H-LIMIT HAND TAPS

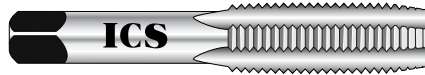
ICS **WIS**

GENERAL PURPOSE

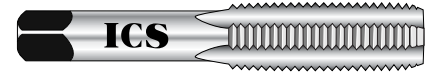
GROUND THREAD



TAPER TAP
7-10 Thread Chamfer
at 5 degrees per side



PLUG TAP
3-5 Thread Chamfer
at 8 degrees per side



BOTTOMING TAP
1-2 Thread Chamfer
at 18 degrees per side

High Speed Steel Optional H-Limit Hand Taps with straight flutes are designed for applications where the basic pitch diameter must be smaller or larger than the standard H-Limit for diameter of tap size required. High Speed Steel Optional H-Limit Hand Taps are also available with a Titanium Nitride coating.

SIZE	THREADS PER INCH			NO. OF FLUTES	LIMIT NO.	PRICE EACH HIGH SPEED STEEL	
	NC UNC	NF UNF	NS			TAPER, PLUG, BOTTOMING	TAPER, PLUG, BOTTOMING 3 PC SET
						OHLT	OHLTS
6	32	40	-	3	H2	4.50	13.50
8	-	36	-	4	H2	4.76	14.28
10	24	-	-	4	H2	4.76	14.28
12	-	28	-	4	H5	5.72	17.02
1/4	20	-	-	4	H1,2,5	4.46	13.38
5/16	18	-	-	4	H2	5.24	15.72
3/8	16	-	-	4	H2,4,5	6.06	18.18
1/2	13	-	-	4	H1,2,5	11.10	33.30
9/16	-	18	-	4	H3	16.02	48.06
5/8	11	18	-	4	H1,2,5	17.82	53.64
3/4	10	-	-	4	H1,2,5	24.98	74.98
3/4	-	16	-	4	H2,5	24.98	74.98
7/8	9	-	-	4	H2,3,6	34.54	103.62
7/8	-	14	-	4	H3,6	34.54	103.62
1	8	-	-	4	H2,3,6	52.80	158.40
1	-	12	-	4	H2,3	52.80	158.40
1	-	-	14	4	H1,3,6	52.80	158.40
1-1/8	7	-	-	4	H6	78.82	236.46
1-1/8	-	12	-	4	H3	78.82	236.46
1-1/4	7	12	-	4-6	H3	100.00	300.00
1-3/4	5	-	-	6	H6	176.20	-
2	4-1/2	-	-	6	H6	226.80	-

PRICE EACH TiN COATED
TAPER, PLUG, BOTTOMING
OHLTT
6.50
8.36
8.36
9.32
8.06
10.72
11.56
16.60
27.48
27.82
35.98
35.98
49.94
49.94
75.50
75.70
75.70
124.52
124.52
145.70
240.60
-

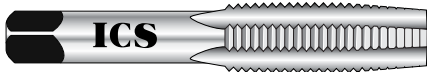
TAP DRILL SIZE APPROX. 75% THREAD		
NC	NF	NS
36	33	-
-	29	-
25	-	-
-	14	-
7	-	-
"F"	-	-
5/16	-	-
"U"	-	25/64
27/64	-	-
17/32	37/64	-
21/32	-	-
-	11/16	-
49/64	-	-
-	13/16	-
7/8	-	-
-	15/16	-
-	1-3/64	-
63/64	-	-
63/64	-	1-3/64
1-7/64	1-1164	-
1-9/16	-	-
1-25/32	-	-

HIGH SPEED STEEL LEFT HAND TAPS

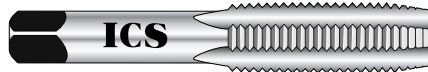
ICS USA

SPECIAL PURPOSE

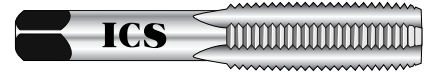
GROUND THREAD



TAPER TAP
7-10 Thread Chamfer
at 5 degrees per side



PLUG TAP
3-5 Thread Chamfer
at 8 degrees per side



BOTTOMING TAP
1-2 Thread Chamfer
at 18 degrees per side

High Speed Steel Left Hand Taps with straight flutes are designed to cut threads with a left hand rotation and are commonly used in applications where left hand studs and fasteners are needed. They can be used by hand or in production machines where ground thread accuracy and performance are required. They are suitable for tapping most materials in through or blind holes.

SIZE	NC UNC	NF UNF	NO. OF FLUTES	LIMIT NO.	TAPER PLUG BOTTOM	TAPER PLUG BOTTOM 3-PC SET
					SHTL	SHTLS
6	32	-	3	H3	\$7.06	\$21.18
8	32	-	4	H3	7.06	21.18
10	24	32	4	H3	7.06	21.18
1/4	20	28	4	H3	7.32	24.60
5/16	18	24	4	H3	8.20	21.96
3/8	16	24	4	H3	9.88	29.64
7/16	14	20	4	H3	14.62	43.82
1/2	13	20	4	H3	17.20	51.56
9/16	12	18	4	H3	22.34	67.00

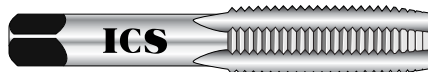
SIZE	NC UNC	NF UNF	NS	NO. OF FLUTES	LIMIT NO.	TAPER PLUG BOTTOM	TAPER PLUG BOTTOM 3-PC SET
						SHTL	SHTLS
5/8	11	18	-	4	H3	\$27.68	\$83.00
3/4	10	16	-	4	H3	38.76	116.26
7/8	9	14	12	4	H4	53.14	159.40
1	8	12	14	4	H4	72.88	218.62
1-1/8	7	12	8	4	H4	106.18	-
1-1/4	7	12	8	4-6	H4	142.18	-
1-3/8	6	12	8	4-6	H4	176.12	-
1-1/2	6	12	8	4-6	H4	209.22	-
1-3/4	-	-	8	6	H4	228.44	-

HIGH SPEED STEEL +.005 OVERSIZE HAND TAPS

ICS USA

SPECIAL PURPOSE

GROUND THREAD



PLUG CHAMFER

High Speed Steel +.005 Oversize Hand Taps are designed to be used where a part will be plated or heat treated after tapping or where a loss of size is expected. They produce threads with a pitch diameter that is .005 larger than the basic pitch diameter. They are suitable for most materials in through or blind holes, especially plastics and synthetic resins. They are also referred to as Pre-Plate Taps.

SIZE	THREADS PER INCH			NO. OF FLUTES	PRICE EACH
	NC UNC	NF UNF	NS		HSS SHTO
6	32	40	-	3	\$6.98
8	32	36	-	4	6.98
10	24	32	-	4	6.98
1/4	20	28	-	4	6.98
5/16	18	24	-	4	8.20
3/8	16	24	-	4	9.94
7/16	14	20	-	4	16.56
1/2	13	20	-	4	17.22

SIZE	THREADS PER INCH			NO. OF FLUTES	PRICE EACH
	NC UNC	NF UNF	NS		HSS SHTO
5/8	11	18	-	4	\$33.76
3/4	10	16	-	4	47.30
7/8	9	14	-	4	56.12
1	8	12	14	4	74.80
1-1/8	7	12	-	4-6	96.56
1-1/4	7	12	-	4-6	122.70
1-3/8	6	12	-	4-6	150.86
1-1/2	6	12	-	4-6	177.18

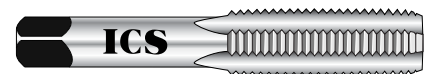
HIGH SPEED STEEL SPECIAL OVERSIZE HAND TAPS

ICS WIS

SPECIAL PURPOSE

GROUND THREAD

**STEAM HOMO
THREAD PROTECTION**



**SPECIAL BOTTOM
CHAMFER**

Special Oversize Hand Taps are used for tough dirty jobs. Profiled (flame cut) parts, with scale, and punched holes with burs. The parts are subsequently shot-blasted and hot dip galvanized. The amount of oversize is to allow for heavy zinc deposition in the threads. They are also referred to as Pre-Plate Taps.

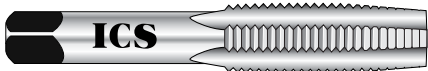
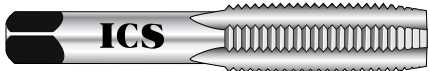
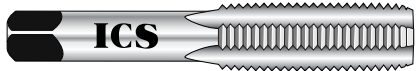
SIZE	THREADS PER INCH	NO. OF FLUTES	DECIMAL OVERSIZE	PRICE EACH
				HSS SOHT
1/4	20	4	+.015	\$10.26
5/16	18	4	.015	12.04
3/8	16	4	.015	15.94
1/2	13	4	.020	21.02
5/8	11	4	.020	31.72
3/4	10	4	.020	45.44

SIZE	THREADS PER INCH	NO. OF FLUTES	DECIMAL OVERSIZE	PRICE EACH
				HSS SOHT
1	8	4	+.020	\$80.56
1-1/8	7	4	.030	*
1-1/4	7	4	.030	144.00
1-3/8	6	6	.030	188.58
1-1/2	6	6	.030	221.48

* Inquire for special oversize hand taps no listed.

* Price quoted upon request.

HIGH SPEED STEEL EIGHT PITCH HAND TAPS

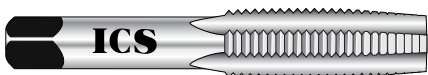
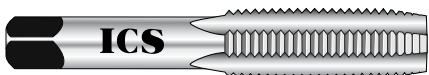
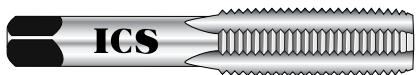
<div style="border: 1px solid black; padding: 2px; display: inline-block; background-color: black; color: white; border-radius: 10px;">ICS</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; background-color: white; border-radius: 10px; margin-left: 10px;">WIS</div>	<div style="border: 1px solid black; padding: 2px; display: inline-block; border-radius: 10px;">SPECIAL PURPOSE</div>	<div style="border: 1px solid black; padding: 2px; display: inline-block; border-radius: 10px;">GROUND THREAD</div>
 <p>TAPER TAP 7-10 Thread Chamfer at 5 degrees per side</p>	 <p>PLUG TAP 3-5 Thread Chamfer at 8 degrees per side</p>	 <p>BOTTOMING TAP 1-2 Thread Chamfer at 18 degrees per side</p>

Eight Pitch Hand Taps are classified as coarse pitch series taps. They were originally designed for threading large diameter, high pressure joint bolts and nuts and are now used mainly by oil related industries, utilities, and general construction.

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.	PRICE
STHT104-08	1-1/16 - 8	4	H4	\$72.96
STHT108-08	1-1/8 - 8	4	H4	72.96
STHT112-08	1-3/16 - 8	4	H4	101.82
STHT116-08	1-1/4 - 8	4	H4	101.82
STHT120-08	1-5/16 - 8	4	H4	128.02
STHT124-08	1-3/8 - 8	4	H4	128.02
STHT128-08	1-7/16 - 8	4	H5	180.24
STHT132-08	1-1/2 - 8	4	H4	161.08
STHT140-08	1-5/8 - 8	6	H6	164.24
STHT148-08	1-3/4 - 8	6	H6	182.44
STHT156-08	1-7/8 - 8	6	H6	216.32
STHT200-08	2 - 8	6	H6	CALL
STHT208-08	2-1/8 - 8	6	H6	

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.	PRICE
STHT216-08	2-1/4 - 8	6	H6	
STHT224-08	2-3/8 - 8	6	H6	
STHT232-08	2-1/2 - 8	6	H8	
STHT240-08	2-5/8 - 8	6	H8	
STHT248-08	2-3/4 - 8	6	H8	CALL FOR PRICE
STHT256-08	2-7/8 - 8	6	H8	
STHT300-08	3 - 8	6	H8	
STHT308-08	3-1/8 - 8	6	H8	
STHT316-08	3-1/4 - 8	6	H8	
STHT324-08	3-3/8 - 8	6	H8	
STHT332-08	3-1/2 - 8	6	H8	
STHT348-08	3-3/4 - 8	6	H8	
STHT400-08	4 - 8	6	H10	

HIGH SPEED STEEL TEN PITCH SUCKER ROD HAND TAPS

<div style="border: 1px solid black; padding: 2px; display: inline-block; background-color: black; color: white; border-radius: 10px;">ICS</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; background-color: white; border-radius: 10px; margin-left: 10px;">WIS</div>	<div style="border: 1px solid black; padding: 2px; display: inline-block; border-radius: 10px;">SPECIAL PURPOSE</div>	<div style="border: 1px solid black; padding: 2px; display: inline-block; border-radius: 10px;">GROUND THREAD</div>
 <p>TAPER TAP 7-10 Thread Chamfer at 5 degrees per side</p>	 <p>PLUG TAP 3-5 Thread Chamfer at 8 degrees per side</p>	 <p>BOTTOMING TAP 1-2 Thread Chamfer at 18 degrees per side</p>

High Speed Steel Ten Pitch Sucker Rod Hand Taps were designed for use by oil pumping stations to thread sucker rod and other applications requiring quick assembly. They are made specifically for this purpose and should not be considered the same as regular ten pitch intermediate series tap.

SIZE OF ROD	ITEM NO.	NOMINAL THREAD SIZES	NO. OF FLUTES	LIMIT NO.	PRICE
1/2	SRHT034-10	3/4 - 10	4	H3	
5/8	SRHT060-10	15/16 - 10	4	H4	CALL FOR PRICE
3/4	SRHT104-10	1-1/16 - 10	4	H5	
7/8	SRHT112-10	1-3/16 - 10	4	H5	
1	SRHT124-10	1-3/8 - 10	4	H5	
1-1/8	SRHT136-10	1-9/16 - 10	6	H5	

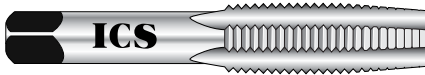
- Please specify Taper (T), Plug (P) or Bottoming (B) chamfer. Examples: STHT104-08T, STHT108-08P, SRHT124-10B.

HIGH SPEED STEEL SPECIAL THREAD HAND TAPS

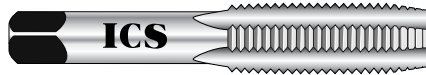
ICS **WIS**

SPECIAL PURPOSE

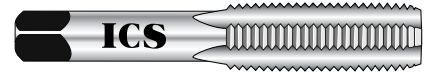
GROUND THREAD



TAPER TAP
7-10 Thread Chamfer
at 5 degrees per side



PLUG TAP
3-5 Thread Chamfer
at 8 degrees per side



BOTTOMING TAP
1-2 Thread Chamfer
at 18 degrees per side

Special Thread Hand Taps are designed for applications where standard coarse, fine, or extra-fine thread taps are not applicable or where design considerations require non-standard pitches. Most sizes are available in taper, bottoming or plug chamfer. When taper or bottoming chamfer taps are not available in size ordered, plug chamfer taps will be substituted to complete order.

SIZE	THREADS PER INCH	PRICE
		STHT
6	36-48	\$ 9.08
7	36-40-48	9.08
8 (5/32)	24-40-48	9.08
10 (3/16)	28-36-40-48	9.08
12 (7/32)	32-36-40-48	9.08
1/4	24-26-32-36-40-48	7.46
9/32	32-40	7.94
5/16	20-22-32-36-40	9.92
11/32	32	9.92
3/8	14-18-20-28-32	8.52
7/16	24-27-28-32-40	13.56
15/32	32	13.72
1/2	12-14-16-18-24-27-28-32-40	13.72
9/16	16-20-24-27-28-30-32-40	18.48
5/8	12-14-16-20-24-26-27-28-32-36-40	20.38
11/16	12-18-20-24-27	22.38
11/16	32	25.00
3/4	12-14-18-20-24-26-27-28-32-36	28.74
13/16	10-12-14-18-20-24-26	36.40
13/16	28-32-36	40.54
7/8	12	38.56
7/8	16-18-20-24-27-32-40	39.64
15/16	12-14-16-18-20-24-27-32	48.40
1	10-16-18-20-24-26-27-28-32-36-40	56.00
1-1/16	8-12	72.96
1-1/16	10	91.54
1-1/8	8	72.96
1-1/8	10-16-18-20-24-27-32	91.54
1-3/16	8-12	101.82
1-3/16	10	118.96
1-3/16	14-16-18-20-24	116.34
1-1/4	8-10	101.82
1-1/4	14-16-18-20-24-26-32	116.34
1-5/16	8-12	128.02
1-5/16	14-16-18-20	147.18
1-3/8	8	128.02
1-3/8	10-14-16-18-20-24	147.78
1-7/16	8-12-16-18-20	180.24
1-1/2	8	161.08
1-1/2	10-14-16-18-20-24-32	183.66
1-9/16	12-16-18-20	176.32
1-5/8	5-1/2 - 8	164.24
1-5/8	10-14-16-18	189.70
1-5/8	12	140.12

SIZE	THREADS PER INCH	PRICE
		STHT
1-11/16	12	\$270.38
1-11/16	16-18-20	186.04
1-3/4	6	204.36
1-3/4	8	212.86
1-3/4	10	208.02
1-3/4	12	141.48
1-3/4	14-16-18	204.36
1-3/4	20-24	159.84
1-13/16	16	204.36
1-7/8	5-8	216.32
1-7/8	10	247.42
1-7/8	12	156.34
1-7/8	16-18-20	176.68
1-15/16	12-16-18	199.78
2	6-8	
2	10	
2	12	
2	14-16-18-20	
2-1/16	12	
2-1/8	8	
2-1/8	12	
2-1/4	8	
2-1/4	12	
2-1/4	14-16-18	
2-5/16	14-16-18	
2-3/8	8-12-16-18	
2-1/2	8	
2-1/2	12	CALL FOR PRICE
2-1/2	16	CALL FOR PRICE
2-5/8	8-12-16	
2-3/4	8	
2-3/4	12	
2-3/4	16	
2-7/8	8-12	
3	8	
3	12	
3	16-18	
3-1/8	8-12	
3-1/4	8-12	
3-1/2	8	
3-1/2	12	
3-3/4	8-12	
4	8	
4	12	

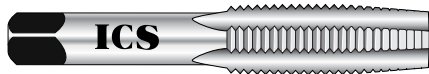
NOTE Sizes over 4" diameter are available upon request.

HIGH SPEED STEEL METRIC THREAD HAND TAPS

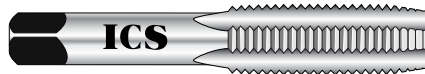
ICS **WIS**

GENERAL PURPOSE

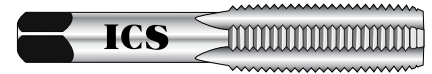
GROUND THREAD



TAPER TAP
7-10 Thread Chamfer
at 5 degrees per side



PLUG TAP
3-5 Thread Chamfer
at 8 degrees per side



BOTTOMING TAP
1-2 Thread Chamfer
at 18 degrees per side

SIZE mm	PITCH mm	NO. OF FLUTES	PRICE		TAP DRILL SIZES mm
			TAPER, PLUG, BOTTOM SHTM	SET OF 3 TAPER, PLUG, BOTTOM SHTMS	
M1.5	.35	2	\$14.74	\$44.22	M01.15
M1.6	.35	2	14.74	44.22	M01.25
M1.8	.35	2	14.74	44.22	M01.45
M2	.40	3	11.82	35.42	M01.60
M2	.45	3	10.54	35.42	M02.05
M2.2	.45	3	9.58	28.70	M01.75
M2.3	.40	3	9.58	28.70	M01.90
M2.5	.45	3	9.58	28.70	M02.05
M2.6	.45	3	9.58	28.70	M02.20
M3	.50	3	7.40	22.18	M02.50
M3	.60	3	8.18	24.54	M02.40
M3.5	.60	3	8.18	24.54	M02.90
M4	.70	4	6.30	18.90	M03.30
M4	.50	4	6.96	20.84	M03.50
M4.5	.75	4	8.18	24.54	M03.70
M5	.80	4	6.30	18.90	M04.20
M5	.90	4	6.30	18.90	M04.10
M5	.50	4	6.20	20.84	M04.50
M5.5	.90	4	6.50	18.90	M04.60
M6	1.00	4	6.30	18.90	M05.00
M6	.75	4	6.20	20.84	M05.20
M6.3	1.00	4	6.70	20.84	M05.30
M7	1.00	4	6.84	20.50	M06.00
M8	1.25	4	6.96	20.84	M06.80
M8	1.00	4	7.52	22.52	M07.00
M9	1.25	4	8.86	26.56	M07.80
M10	1.50	4	8.86	26.56	M08.50
M10	1.25	4	9.76	29.24	M08.80
M10	1.00	4	9.76	29.24	M09.00
M11	1.50	4	9.76	29.24	M09.50
M12	1.75	4	14.46	43.36	M10.20
M12	1.50	4	15.92	47.72	M10.50
M12	1.25	4	15.92	47.72	M10.80
M14	2.00	4	22.54	67.62	M12.00
M14	1.50	4	24.80	74.40	M12.50
M14	1.25	4	24.80	74.40	M12.80

SIZE mm	PITCH mm	NO. OF FLUTES	PRICE		TAP DRILL SIZES mm
			TAPER, PLUG, BOTTOM SHTM	SET OF 3 TAPER, PLUG, BOTTOM SHTMS	
M16	2.00	4	\$27.28	\$81.80	M14.00
M16	1.50	4	30.02	80.40	M14.50
M18	2.50	4	33.20	109.42	M15.50
M18	2.00	4	36.48	109.42	M16.00
M18	1.00	4	36.48	109.42	M17.00
M18	1.50	4	36.48	109.42	M16.50
M20	2.50	4	37.58	123.80	M17.50
M20	1.50	4	41.28	123.80	M18.50
M20	1.00	4	41.28	123.80	M19.00
M20	2.00	4	41.28	123.80	M18.00
M22	2.50	4	52.36	123.80	M19.50
M22	1.50	4	57.54	123.80	M20.50
M24	3.00	4	70.00	210.00	M21.00
M24	2.00	4	76.96	230.84	M22.00
M24	1.50	4	76.96	230.84	M22.50
M27	3.00	4	92.86	278.56	M24.00
M27	2.00	4	102.10	306.80	M25.00
M30	3.50	4	113.10	380.02	M26.50
M30	2.00	4	124.46	418.20	M28.00
M30	1.50	4	139.40	418.20	M28.50
M32	2.00	4	139.40	418.20	M30.00
M33	3.50	4	134.84	498.36	M29.50
M33	2.00	4	148.32	498.36	M31.00
M36	4.00	4	162.46	545.88	M32.00
M36	3.00	4	178.70	600.44	M33.00
M39	4.00	6	187.46	629.88	M35.00
M39	3.00	6	206.16	692.70	M36.00
M42	4.50	6	201.92	629.88	M37.50
M42	1.50	6	222.14	746.40	M40.50
M45	4.50	6	228.22	766.82	M40.50
M45	1.50	6	250.98	843.30	M43.50
M48	5.00	6	254.52	855.20	M43.00
M48	1.50	6	279.96	939.68	M46.50
M52	5.00	6	328.76	1104.64	M47.00
M52	1.50	6	332.78	1118.14	M50.50

PACKAGING

Metric sizes in **bold type** are **coarse thread** form.

M1.5 -M14 -12 Taps/Box
M16 - M24 - 3 Taps/Box
M27 - M52 - 1 Tap/Tube

Tap pitch diameter limits are those recommended for Class 6H tolerances.

NOTE Titanium Nitride Coated Metric Hand Taps are available upon request.

**Quick
Link**

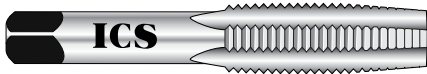
Metric Tap Sets can be found on
pages 241, 243A, 243B, 244,
245, 245A, 245B & 245C.

HIGH SPEED STEEL METRIC (SPECIAL THREAD) HAND TAPS

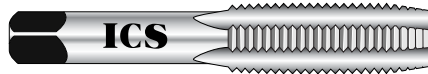
ICS **WIS**

GENERAL PURPOSE

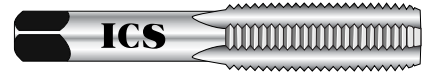
GROUND THREAD



TAPER TAP
7-10 Thread Chamfer
at 5 degrees per side



PLUG TAP
3-5 Thread Chamfer
at 8 degrees per side



BOTTOMING TAP
1-2 Thread Chamfer
at 18 degrees per side

Metric Special Thread Hand Taps are designed for applications where standard coarse, fine, or extra-fine thread taps are not applicable or where design considerations require non-standard pitches. Most sizes are available in taper, bottoming or plug chamfer. When taper or bottoming chamfer taps are not available in size ordered, plug chamfer taps will be substituted to complete order.

SIZE mm	PITCH	PRICE
		STTM
M1.4	.30	\$15.24
M1.7	.20 - .35	15.24
M2.0	.25 - .45	12.20
M2.2	.40	9.86
M2.5	.50	9.86
M2.6	.35 - .45	9.86
M3.0	.35 - .60	7.62
M3.5	.50	7.62
M4.0	.50 - .75	6.50
M4.5	.50	6.50
M5.0	.50 - .70 - .90	6.50
M5.5	.70 - .90	6.50
M6.0	.50 - .75	6.50
M7.0	.50 - .75 - 1.25	7.04
M8.0	.50 - .75 - 1.50	7.80
M9.0	.50 - .75 - 1.00 - 1.25	9.10
M10	.50 - .75 - 1.00	10.04
M11	.50 - .75 - 1.00 - 1.25	12.10
M12	.50 - .75 - 1.00 - 1.50	17.84
M13	.50 - 1.00 - 1.25 - 1.50 - 2.00	25.18
M14	.50 - .75 - 1.00 - 1.25 - 1.75	26.66
M15	.50 - 1.00 - 1.50 - 2.00	26.66
M16	.50 - .75 - 1.00 - 1.25 - 1.75	31.02
M17	.50 - 1.00 - 1.50 - 2.00	32.18
M18	.50 - 1.00 - 1.25 - 1.75 - 2.00	36.84

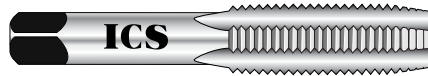
SIZE mm	PITCH	PRICE
		STTM
M19	.50 - 1.00 - 1.50 - 2.00	\$38.54
M20	1.00 - 1.25 - 2.00	42.66
M21	1.00 - 1.50 - 2.00 - 2.50	44.90
M22	1.00 - 2.00	58.42
M23	1.00 - 1.50 - 2.00 - 2.50 - 3.00	59.68
M24	1.00	66.32
M25	1.00 - 1.50 - 2.00 - 3.00	85.54
M26	1.50 - 2.00	83.84
M27	1.00 - 1.50 - 2.50	105.60
M28	1.50 - 2.00	121.10
M30	1.00 - 2.50 - 3.00	143.50
M32	1.50 - 2.00	154.30
M33	1.50 - 2.00	138.66
M34	1.50	184.14
M35	1.50	194.94
M36	1.50	164.34
M38	1.50	209.54
M39	1.50	217.16
M40	1.50	235.38
M42	1.50 - 3.00 - 4.50	235.38
M45	1.50 - 3.00 - 4.50	254.16
M48	1.50 - 3.00 - 4.50 - 5.00	275.18
M50	1.50 - 3.00	338.60
M52	1.50 - 3.00 - 5.00	338.60

HIGH SPEED STEEL LEFT HAND THREAD METRIC TAPS

ICS **WIS**

SPECIAL PURPOSE

GROUND THREAD



**PLUG
CHAMFER**

Metric Left Hand Taps are designed to cut threads with a left hand rotation and are commonly used in applications where left hand studs and fasteners are needed.

SIZE mm	PITCH mm	NO. OF FLUTES	HSS
			HTML
M2.0	.40	4	\$9.00
M3.0	.50	4	8.34
M4.0	.70	4	8.34
M5.0	.80	4	8.34
M6.0	1.00	4	8.34
M7.0	1.00	4	8.52
M8.0	1.25	4	9.38

SIZE mm	PITCH mm	NO. OF FLUTES	HSS
			HTML
M10	1.25	4	\$13.00
M10	1.50	4	13.00
M12	1.25	4	21.24
M12	1.75	4	21.24
M14	1.50	4	32.14
M14	2.00	4	32.14
M16	1.50	4	37.42

SIZE mm	PITCH mm	NO. OF FLUTES	HSS
			HTML
M16	2.00	4	\$37.42
M18	1.50	4	50.64
M18	2.00	4	50.64
M18	2.50	4	50.64
M20	1.50	4	51.40
M20	2.50	4	51.40

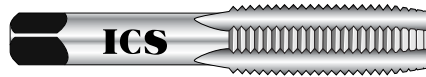
Metric sizes in **bold type** are **coarse thread** form.

HIGH SPEED STEEL BRITISH STANDARD HAND TAPS

ICS USA

GENERAL PURPOSE

RIGHT HAND CUTTING



(B.S.W.)
The British Standard Whitworth Thread form is a coarse thread and its use is similar to the UNC or NC thread series. The sides of the thread form an angle of 55° with one another.

(B.S.F.)
The British Standard Fine Thread form is a fine thread and its use is similar to the UNF or NF thread series. The sides of the thread form an angle of 55° with one another.

(B.A.)
The British Association Thread form is an extra fine thread and its use is similar to the NEF thread series. The sides of the thread form an angle of 47.5° with one another.

ITEM NO. BSTW

ITEM NO. BSTF

ITEM NO. BSTA

All British Standard Hand Taps are available with a Taper, Plug, or Bottom chamfer

Tap pricing quoted upon request

SIZE	THREADS PER INCH			NO. OF FLUTES
	(B.S.W.)	(B.S.F.)	(B.A.)	
0	-	-	25.4	3
1	-	-	28.2	3
2	-	-	31.4	3
3	-	-	34.8	3
4	-	-	38.5	3
5	-	-	43.0	3
6	-	-	47.9	3
7	-	-	52.9	3
8	-	-	59.1	3
9	-	-	65.1	3
10	-	-	72.6	3
12	-	-	90.7	3
1/8	40	-	-	3
3/16	24	32	-	3
1/4	20	26	-	3
5/16	18	22	-	4
3/8	16	20	-	4
7/16	14	18	-	4
1/2	12	16	-	4
9/16	12	16	-	4
5/8	11	14	-	4
3/4	10	12	-	4
7/8	9	11	-	4
1	8	10	-	4
1-1/8	7	9	-	4
1-1/4	7	9	-	4
1-3/8	6	8	-	4
1-1/2	6	8	-	4
2	4-1/2	7	-	6

British Thread Spiral Point and Spiral Flute Taps can also be supplied to order.

PACKAGING
 #0 to 12 - 12 Taps/Box
 1/8 to 1/2 - 12 Taps/Box
 9/16 to 1 - 3 Taps/Box
 1-1/8 to 2 - 1 Tap/Tube

TAP DRILL SIZES APPROX. 75-80% THREAD (mm)		
(B.S.W.)	(B.S.F.)	(B.A.)
-	-	M05.10
-	-	M04.50
-	-	M04.00
-	-	M03.40
-	-	M03.00
-	-	M02.65
-	-	M02.30
-	-	M02.05
-	-	M01.80
-	-	M01.55
-	-	M01.40
-	-	M01.05
M02.55	-	-
M03.70	M04.00	-
M05.10	M05.30	-
M06.50	M06.80	-
M07.90	M08.30	-
M09.30	M09.70	-
M10.50	M11.10	-
M12.10	M12.70	-
M13.50	M14.00	-
M16.25	M16.75	-
M19.25	M19.75	-
M22.00	M22.75	-
M24.75	M25.50	-
M28.00	M28.50	-
M30.50	M31.50	-
M33.50	M34.50	-
M44.50	M47.00	-

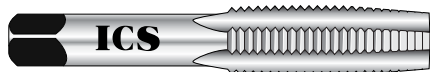
Tap pitch diameter limits are in accordance with BS 949 Part 2 - 1979

CARBON STEEL STANDARD HAND TAPS

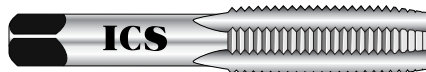
ICS USA

GENERAL PURPOSE

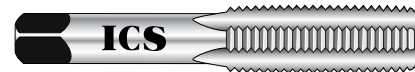
CUT THREAD



TAPER TAP
7-10 Thread Chamfer
at 5 degrees per side



PLUG TAP
3-5 Thread Chamfer
at 8 degrees per side



BOTTOMING TAP
1-2 Thread Chamfer
at 18 degrees per side

Carbon Steel Hand Taps with straight flutes are designed for general purpose hand tapping operations where ground thread accuracy and performance is not required. They can also be used for rethreading damaged threads. Carbon steel hand taps are the most cost effective threading tap available.

SIZE	NC UNC	NF UNF	NS	NO. OF FLUTES	TAPER, PLUG, or BOTTOM CHAMFER	PKG. QTY.
					CHT	
0	80	-	-	3	\$1.92	12
1	64	72	-	3	1.92	12
2	56	64	-	3	1.92	12
3	48	-	-	3	1.92	12
4	40	-	-	3	1.92	12
5	40	-	-	3	1.92	12
6	32	-	-	3	2.02	12
8	32	36	-	4	2.12	12
10-3/16	24	32	-	4	2.28	12
12	24	-	-	4	2.38	12
1/4	20	28	-	4	2.32	12
5/16	18	24	-	4	3.20	12
3/8	16	24	-	4	3.54	12
7/16	14	20	-	4	4.08	12
1/2	13	20	-	4	4.54	12
9/16	12	18	-	4	6.52	3
5/8	11	18	-	4	8.02	3
3/4	10	16	-	4	10.78	3
7/8	9	14	-	4	15.48	3
1	8	12	14	4	18.90	3
1-1/8	7	12	-	4	23.76	1
1-1/4	7	12	-	4-6	31.60	1
1-3/8	6	12	-	4-6	39.66	1
1-1/2	6	12	-	4-6	47.56	1

TAPER, PLUG, & BOTTOM 3 pc set
CHTS
\$5.72
5.72
5.72
5.72
5.72
5.72
6.06
6.32
6.80
7.14
6.94
9.56
10.62
12.24
13.58
19.56
24.06
32.34
46.44
56.66
71.24
94.76
118.96
142.68

CARBON STEEL METRIC HAND TAPS

ICS USA

GENERAL PURPOSE

CUT THREAD

SIZE mm	PITCH mm	PRICE
		TAPER, PLUG, BOTTOM CHAMFER
		CHTM
M3	.50	\$2.76
M3	.60	2.76
M4	.70	2.28
M4	.75	2.28
M5	.80	2.32
M5	.90	2.32
*M6	.75	2.58
M6	1.00	2.58
M7	1.00	2.80
M8	1.00	3.20
M8	1.25	3.20
M9	0.75	3.84
M9	1.00	3.84
M9	1.25	3.84

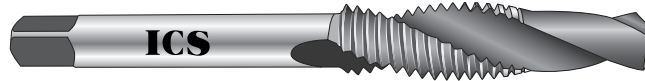
SIZE mm	PITCH mm	PRICE
		TAPER, PLUG, BOTTOM CHAMFER
		CHTM
*M10	1.00	4.44
M10	1.25	4.44
M10	1.50	4.44
M11	1.50	4.78
*M12	1.25	5.38
M12	1.50	5.38
M12	1.75	5.38
*M14	1.25	6.80
M14	1.50	6.80
M14	2.00	6.80
M16	1.00	8.30
M16	1.50	8.30
M16	2.00	8.30

SIZE mm	PITCH mm	PRICE
		TAPER, PLUG, BOTTOM CHAMFER
		CHTM
*M18	1.50	9.56
M18	2.50	9.56
M20	1.50	13.72
M20	2.50	13.72
M22	1.50	14.32
M22	2.50	14.32
M24	1.50	17.54
M24	2.00	17.54
M24	3.00	17.54
M27	2.00	20.26
M27	3.00	20.26
M30	2.00	32.32
M30	3.50	32.32

Metric sizes in **bold type** are **coarse thread** form.

- Please specify Taper (T), Plug (P) or Bottoming (B) chamfer. Examples: CHT#06-32T, CHT032-13P, CHTM03.0X.60B.
- * Plug only

HIGH SPEED STEEL COMBINED DRILL AND TAP

ICS USA
HEAVY DUTY
118° NOTCHED POINT

RIGHT HAND CUT

Drill/Taps are designed to drill and tap a threaded hole up to two times tap diameter in one operation. The tap section has ground threads and a bottoming chamfer for easier tapping. They are designed to operate at speeds between the normal tapping speed and drilling speed for the specific type of material it is used in.

Machine Screw and Fractional Sizes (#4 To 3/4" Dia.)

ITEM NO.	TAP SIZE	THREADS PER INCH	FLUTES	THREAD LENGTH	OVERALL LENGTH	DRILL DIA.	DRILL LENGTH	PRICE
CDT #04-40	4	40	2	9/16	1-7/8	.0930	1/4	CALL FOR PRICE
CDT #04-48	4	48	2	9/16	1-7/8	.0930	1/4	
CDT #05-40	5	40	2	5/8	1-15/16	.1040	9/32	
CDT #05-44	5	44	2	5/8	1-15/16	.1040	9/32	
CDT #06-32	6	32	2	11/16	2	.1150	5/16	
CDT #06-40	6	40	2	11/16	2	.1150	5/16	
CDT #08-32	8	32	2	7/16	2-9/16	.1385	5/16	
CDT #08-36	8	36	2	3/4	2-1/8	.1385	3/8	
CDT #10-24	10	24	2	5/8	2-7/8	.1535	3/8	
CDT #10-32	10	32	2	5/8	2-7/8	.1535	3/8	
CDT #12-24	12	24	2	5/8	3-1/8	.1772	3/8	
CDT #12-28	12	28	2	7/8	2-3/8	.1772	15/32	
CDT 016-20	1/4	20	2	11/16	3-3/8	.2008	1/2	
CDT 016-28	1/4	28	2	11/16	3-3/8	.2008	1/2	
CDT 020-18	5/16	18	2	13/16	3-3/4	.2559	5/8	
CDT 020-24	5/16	24	2	13/16	3-3/4	.2559	5/8	
CDT 024-16	3/8	16	2	7/8	4-3/16	.3150	3/4	
CDT 024-24	3/8	24	2	7/8	4-3/16	.3150	3/4	
CDT 028-14	7/16	14	2	1	4-3/16	.3622	7/8	
CDT 028-20	7/16	20	2	1	4-3/16	.3622	7/8	
CDT 032-13	1/2	13	2	1-1/8	4-1/2	.4252	1	
CDT 032-20	1/2	20	2	1-1/8	4-1/2	.4252	1	
CDT 036-12	9/16	12	2	1-3/16	4-7/8	.4803	1-3/16	
CDT 036-18	9/16	18	2	1-3/16	4-7/8	.4803	1-3/16	
CDT 040-11	5/8	11	2	1-1/4	5-1/4	.5315	1-1/4	
CDT 040-18	5/8	18	2	1-1/4	5-1/4	.5315	1-1/4	
CDT 048-10	3/4	10	2	1-3/8	5-5/8	.692	1-3/8	
CDT 048-16	3/4	16	2	1-3/8	5-5/8	.692	1-3/8	

Metric Sizes (4.0mm To 16.0mm Dia.)

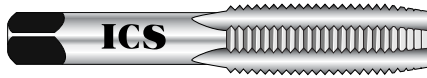
ITEM NO.	TAP SIZE	PITCH mm	FLUTES	THREAD LENGTH	OVERALL LENGTH	DRILL DIA.	DRILL LENGTH	PRICE
CDTM 04.0 x 0.70	M4	0.70	2	7/16	2-9/16	.1299	5/16	CALL FOR PRICE
CDTM 05.0 x 0.80	M5	0.80	2	5/8	2-3/4	.1654	3/8	
CDTM 06.0 x 1.00	M6	1.00	2	11/16	3-3/8	.1969	1/2	
CDTM 08.0 x 1.25	M8	1.25	2	13/16	3-3/4	.2677	5/8	
CDTM 10.0 x 1.50	M10	1.50	2	7/8	4-3/16	.3346	3/4	
CDTM 12.0 x 1.75	M12	1.75	2	1-1/8	4-1/2	.4016	1	

HIGH SPEED STEEL (STI) SCREW THREAD INSERT HAND TAPS

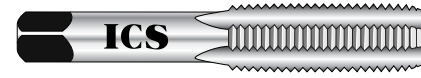
ICS USA

SPECIAL PURPOSE

GROUND THREAD



PLUG TAP
3-5 Thread Chamfer
at 8 degrees per side



BOTTOMING TAP
1-2 Thread Chamfer
at 18 degrees per side

STI Hand Taps are oversize taps designed to produce threads that will accommodate a helical coil wire screw thread insert.

SIZE	THREADS PER INCH		NO. OF FLUTES	LIMIT NO.	PRICE EACH
	NC UNC	NF UNF			PLUG-BOTT. STIT
4	40	-	3	H2	\$20.44
6	32	-	3	H3	20.44
8	32	-	3	H3	22.30
10	24	32	3	H3	22.96
1/4	20	28	3	H3	22.34

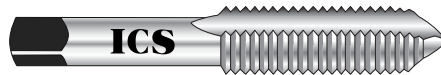
SIZE	THREADS PER INCH		NO. OF FLUTES	LIMIT NO.	PRICE EACH
	NC UNC	NF UNF			PLUG-BOTT. STIT
5/16	18	24	4	H3	\$26.32
3/8	16	24	4	H3	34.16
7/16	14	20	4	H3	37.60
1/2	13	20	4	H3	43.92
3/4	10	-	4	H3	63.02

HIGH SPEED STEEL (STI) SCREW THREAD INSERT SPIRAL POINT PLUG TAPS

ICS USA

SPECIAL PURPOSE

GROUND THREAD



PLUG CHAMFER

STI Spiral Point Taps are oversize taps designed to produce threads that will accommodate a helical coil wire screw thread insert.

SIZE	THREADS PER INCH		NO. OF FLUTES	LIMIT NO.	PRICE EACH
	NC UNC	NF UNF			PLUG STISPT
4	40	-	2	H2	\$21.84
6	32	-	2	H3	21.84
8	32	-	2	H3	23.52
10	24	32	2	H3	24.40
1/4	20	28	2	H3	24.06

SIZE	THREADS PER INCH		NO. OF FLUTES	LIMIT NO.	PRICE EACH
	NC UNC	NF UNF			PLUG STISPT
5/16	18	24	3	H3	\$27.84
3/8	16	24	3	H3	36.64
7/16	14	20	3	H3	43.68
1/2	13	20	3	H3	47.60

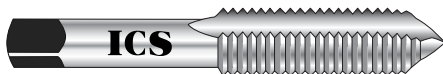
HIGH SPEED STEEL SPIRAL POINT TAPS (GUN TAPS)

ICS

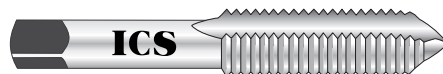
WIS

GENERAL PURPOSE

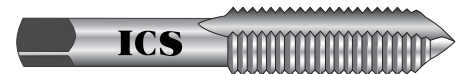
GROUND THREAD



HSS UNCOATED (Bright Finish)



CHROME PLATED (Silver Finish)



TiN COATED (Gold Finish)

High Speed Steel Spiral Point Taps are designed primarily for machine tapping in through holes with adequate bottom clearance for chips to accumulate. The cutting face of the first few threads are ground back relative to the axis of the tap to force the chips ahead of the tap. This reduces loading and clogging in flutes and allows a free flow of coolant to reach the cutting edge. The shallow straight flutes are not ground as deep as a hand tap, which gives the tap greater strength and can be run at higher speeds with less power. Ideal for tapping most ductile materials, aluminum, brass, copper die castings, soft steels, etc. They are also known as Gun Taps, Gun Nose Taps, Bull Nose Taps, or Chipdriver Taps.

Chrome Plated High Speed Steel Spiral Point Taps are plated with a very thin layer of hard chrome to produce a surface hardness of RC 72. Chrome plating reduces friction, improves lubrication, has excellent wear resistance, and prevents galling. Often used where lubrication is not possible or available. Can be operated at higher speeds. Chrome plated taps have a bright silver finish. Ideal for tapping most ferrous, non-ferrous, and non-metallic surfaces.

Titanium Nitride Coated High Speed Steel Spiral Point Taps have a bright gold coating of Titanium Nitride about .0001 thick to produce a surface hardness of RC 86. It refracts heat and acts as a thermal barrier between the chips and the tap. Titanium Nitride reduces friction and chip welding and can be operated at higher speeds. Ideal for tapping most ferrous, non-ferrous, and non-metallic materials.

THREAD SIZE	NO. OF FLUTES	LIMIT NO.	HSS UNCOATED (Bright Finish)		CHROME PLATED (Silver Finish)		TiN COATED (Gold Finish)	
			ITEM NO.	PRICE	ITEM NO.	PRICE	ITEM NO.	PRICE
0-80	2	H2	SPT#00-80		SPTCP#00-80		SPTT#00-80	
1-64	2	H2	SPT#01-64		SPTCP#01-64		SPTT#01-64	
1-72	2	H2	SPT#01-72		SPTCP#01-72		SPTT#01-72	
2-56	2	H2	SPT#02-56		SPTCP#02-56		SPTT#02-56	
2-64	2	H2	SPT#02-64		SPTCP#02-64		SPTT#02-64	
3-48	2	H2	SPT#03-48		SPTCP#03-48		SPTT#03-48	
3-56	2	H2	SPT#03-56		SPTCP#03-56		SPTT#03-56	
4-40	2	H2	SPT#04-40		SPTCP#04-40		SPTT#04-40	
4-48	2	H2	SPT#04-48		SPTCP#04-48		SPTT#04-48	
5-40	2	H2	SPT#05-40		SPTCP#05-40		SPTT#05-40	
5-44	2	H2	SPT#05-44		SPTCP#05-44		SPTT#05-44	
6-32	2	H3	SPT#06-32		SPTCP#06-32		SPTT#06-32	
6-40	2	H3	SPT#06-40		SPTCP#06-40		SPTT#06-40	
8-32	2	H3	SPT#08-32		SPTCP#08-32		SPTT#08-32	
8-36	2	H3	SPT#08-36		SPTCP#08-36		SPTT#08-36	
10-24	2	H3	SPT#10-24		SPTCP#10-24		SPTT#10-24	
10-32	2	H3	SPT#10-32		SPTCP#10-32		SPTT#10-32	
12-24	2	H3	SPT#12-24		SPTCP#12-24		SPTT#12-24	
12-32	2	H3	SPT#12-32		SPTCP#12-32		SPTT#12-32	
1/4-20	2	H3	SPT016-20		SPTCP016-20		SPTT016-20	
1/4-28	2	H3	SPT016-28		SPTCP016-28		SPTT016-28	
5/16-18	2	H3	SPT020-18		SPTCP020-18		SPTT020-18	
5/16-24	2	H3	SPT020-24		SPTCP020-24		SPTT020-24	
3/8-16	3	H3	SPT024-16		SPTCP024-16		SPTT024-16	
3/8-24	3	H3	SPT024-24		SPTCP024-24		SPTT024-24	
7/16-14	3	H3	SPT028-14		SPTCP028-14		SPTT028-14	
7/16-20	3	H3	SPT028-20		SPTCP028-20		SPTT028-20	
1/2-13	3	H3	SPT032-13		SPTCP032-13		SPTT032-13	
1/2-20	3	H3	SPT032-20		SPTCP032-20		SPTT032-20	
9/16-12	3	H3	SPT036-12		SPTCP036-12		SPTT036-12	
9/16-18	3	H3	SPT036-18		SPTCP036-18		SPTT036-18	
5/8-11	3	H3	SPT040-11		SPTCP040-11		SPTT040-11	
5/8-18	3	H3	SPT040-18		SPTCP040-18		SPTT040-18	
11/16-11	3	H3	SPT044-11		SPTCP044-11		SPTT044-11	
11/16-16	3	H3	SPT044-16		SPTCP044-16		SPTT044-16	
3/4-10	3	H3	SPT048-10		SPTCP048-10		SPTT048-10	
3/4-16	3	H3	SPT048-16		SPTCP048-16		SPTT048-16	
7/8-9	3	H3	SPT056-09		SPTCP056-09		SPTT056-09	
7/8-14	3	H3	SPT056-14		SPTCP056-14		SPTT056-14	
1-8	3	H3	SPT100-08		SPTCP100-08		SPTT100-08	
1-12	3	H3	SPT100-12		SPTCP100-12		SPTT100-12	
1-14	3	H3	SPT100-14		SPTCP100-14		SPTT100-14	

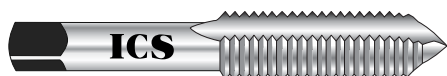
HIGH SPEED STEEL METRIC SPIRAL POINT TAPS (GUN TAPS)

ICS

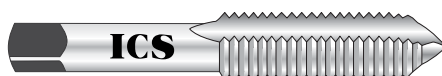
WIS

GENERAL PURPOSE

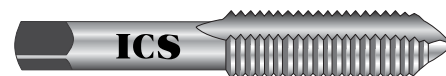
GROUND THREAD



HSS UNCOATED (Bright Finish)



CHROME PLATED (Silver Finish)



TiN COATED (Gold Finish)

High Speed Steel Metric Spiral Point Taps are designed primarily for machine tapping in through holes with adequate bottom clearance for chips to accumulate. The cutting face of the first few threads are ground back relative to the axis of the tap to force the chips ahead of the tap. This reduces loading and clogging in flutes and allows a free flow of coolant to reach the cutting edge. The shallow straight flutes are not ground as deep as a hand tap, which gives the tap greater strength and can be run at higher speeds with less power. Ideal for tapping most ductile materials, aluminum, brass, copper die castings, soft steels, etc. They are also known as Metric Gun Taps, Metric Gun Nose Taps, Metric Bull Nose Taps, or Metric Chipdriver Taps.

Chrome Plated High Speed Steel Metric Spiral Point Taps are plated with a very thin layer of hard chrome to produce a surface hardness of RC 72. Chrome plating reduces friction, improves lubrication, has excellent wear resistance, and prevents galling. Often used where lubrication is not possible or available. Can be operated at higher speeds. Chrome plated taps have a bright silver finish. Ideal for tapping most ferrous, non-ferrous, and non-metallic surfaces.

Titanium Nitride Coated High Speed Steel Metric Spiral Point Taps have a bright gold coating of Titanium Nitride about .0001 thick to produce a surface hardness of RC 86. It refracts heat and acts as a thermal barrier between the chips and the tap. Titanium Nitride reduces friction and chip welding and can be operated at higher speeds. Ideal for tapping most ferrous, non-ferrous, and non-metallic materials.

THREAD SIZE	PITCH	NO. OF FLUTES	HSS UNCOATED (Bright Finish)		CHROME PLATED (Silver Finish)		TiN COATED (Gold Finish)	
			ITEM NO.	PRICE	ITEM NO.	PRICE	ITEM NO.	PRICE
M1.6	.35	2	SPTM#00-80		SPTMCP#00-80		SPTMT#00-80	
M1.8	.35	2	SPTM#01-64		SPTMCP#01-64		SPTMT#01-64	
M2.0	.40	2	SPTM#01-72		SPTMCP#01-72		SPTMT#01-72	
M2.2	.45	2	SPTM#02-56		SPTMCP#02-56		SPTMT#02-56	
M2.5	.45	2	SPTM#02-64		SPTMCP#02-64		SPTMT#02-64	
M3.0	.50	2	SPTM#03-48		SPTMCP#03-48		SPTMT#03-48	
M3.5	.60	2	SPTM#03-56		SPTMCP#03-56		SPTMT#03-56	
M4.0	.70	2	SPTM#04-40		SPTMCP#04-40		SPTMT#04-40	
M4.5	.75	2	SPTM#04-48		SPTMCP#04-48		SPTMT#04-48	
M5.0	.80	2	SPTM#05-40		SPTMCP#05-40		SPTMT#05-40	
M6.0	1.00	2	SPTM#05-44		SPTMCP#05-44		SPTMT#05-44	
M6.3	1.00	2	SPTM#06-32		SPTMCP#06-32		SPTMT#06-32	
M7.0	1.00	2	SPTM#06-40		SPTMCP#06-40		SPTMT#06-40	
M8.0	1.25	2	SPTM#08-32		SPTMCP#08-32		SPTMT#08-32	
M8.0	1.00	2	SPTM#08-36		SPTMCP#08-36		SPTMT#08-36	
M10.0	1.50	3	SPTM#10-24		SPTMCP#10-24		SPTMT#10-24	
M10.0	1.25	3	SPTM#10-32		SPTMCP#10-32		SPTMT#10-32	
M12.0	1.75	3	SPTM#12-24		SPTMCP#12-24		SPTMT#12-24	
M12.0	1.25	3	SPTM#12-32		SPTMCP#12-32		SPTMT#12-32	
M14.0	2.00	3	SPTM016-20		SPTMCP016-20		SPTMT016-20	
M14.0	1.50	3	SPTM016-28		SPTMCP016-28		SPTMT016-28	
M16.0	2.00	3	SPTM020-18		SPTMCP020-18		SPTMT020-18	
M16.0	1.50	3	SPTM020-24		SPTMCP020-24		SPTMT020-24	
M18.0	1.50	3	SPTM024-16		SPTMCP024-16		SPTMT024-16	
M18.0	2.50	3	SPTM024-24		SPTMCP024-24		SPTMT024-24	
M20.0	1.50	3	SPTM028-14		SPTMCP028-14		SPTMT028-14	
M20.0	2.50	3	SPTM028-20		SPTMCP028-20		SPTMT028-20	
M24.0	3.00	3	SPTM032-13		SPTMCP032-13		SPTMT032-13	

PACKAGING

M1.6 - M14 - 12 Taps/Box M16 - M24 - 3 Taps/Box

Metric sizes in **bold type** are **coarse thread** form.

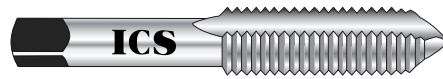
HIGH SPEED STEEL +.005 OVERSIZE SPIRAL POINT TAPS

ICS

WIS

GENERAL PURPOSE

GROUND THREAD



**PLUG
CHAMFER**

Oversize Spiral Point Taps are used primarily where a piece will be plated or heat treated after tapping. They are also used when tapping plastics or zinc alloys where it is difficult to maintain the proper tapped hole size because of abrasion or shrinkage.

SIZE	THREADS PER INCH		NO. OF FLUTES	PRICE EACH
	NC UNC	NF UNF		HSS SPTO
6	32	-	2	\$6.62
8	32	-	2	6.62
10	24	32	2	6.62
1/4	20	28	2	6.62
5/16	18	24	2	7.14
3/8	16	24	3	8.66

SIZE	THREADS PER INCH			NO. OF FLUTES	PRICE EACH
	NC UNC	NF UNF	NS		HSS SPTO
7/16	14	20	-	3	\$14.52
1/2	13	20	-	3	14.78
5/8	11	18	-	3	28.44
3/4	10	16	-	3	39.90
7/8	9	14	-	3	54.84
1	8	12	14	3	73.50

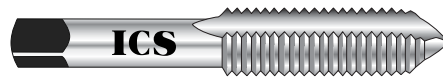
COBALT SPIRAL POINT TAPS

ICS

WIS

HEAVY DUTY

GROUND THREAD



**PLUG
CHAMFER**

Cobalt Spiral Point Taps are designed for tapping difficult applications such as heat treated steels up to 45 RC, tool steels, and other tough alloys.

ITEM NO.			THREADS PER INCH		NO. OF FLUTES	LIMIT NO.	PRICE EACH	
ALPHA PREFIX	NUMERIC SIZE	SUFFIX TPI	SIZE	NC UNC				NF UNF
SPTC	#02	- (TPI)	2	56	64	2	H3	\$12.26
SPTC	#03	- (TPI)	3	48	56	2	H3	12.26
SPTC	#04	- (TPI)	4	40	48	2	H3	10.72
SPTC	#06	- (TPI)	6	40	32	2	H3	10.72
SPTC	#08	- (TPI)	8	32	36	2	H3	10.72
SPTC	#10	- (TPI)	10	24	32	2	H3	10.72
SPTC	016	- (TPI)	1/4	20	28	2	H3	12.00
SPTC	020	- (TPI)	5/16	18	24	2	H3	14.00
SPTC	024	- (TPI)	3/8	16	24	3	H3	16.36
SPTC	028	- (TPI)	7/16	14	20	3	H3	18.00
SPTC	032	- (TPI)	1/2	13	20	3	H3	19.38
SPTC	040	- (TPI)	5/8	11	18	3	H3	45.38
SPTC	048	- (TPI)	3/4	10	16	3	H3	68.86

HIGH SPEED STEEL SPIRAL POINT EXTENSION TAPS

ICS

WIS

SPECIAL PURPOSE

GROUND THREAD

**DROP THRU
SHANK**



**PLUG
CHAMFER**

Spiral Point Extension Taps are designed for deep hole tapping where the work requires an undercut shank to follow through hole.

ITEM NO.			THREADS PER INCH		NO. OF FLUTES	LIMIT NO.	OVERALL LENGTH	PRICE EACH
ALPHA PREFIX	NUMERIC SIZE	SUFFIX TPI	SIZE	NC UNC				
SPET	#10	- (TPI)	10	24	32	2	H3	\$29.44
SPET	016	- (TPI)	1/4	20	28	2	H3	29.44
SPET	020	- (TPI)	5/16	18	24	2	H3	37.32
SPET	024	- (TPI)	3/8	16	24	3	H3	41.80
SPET	028	- (TPI)	7/16	14	20	3	H3	42.34
SPET	032	- (TPI)	1/2	13	20	3	H3	44.74

HSS - V PREMIUM VANADIUM

HIGH PERFORMANCE SPIRAL POINT TAPS

ICS USA

SPECIAL PURPOSE

GROUND THREAD

STEAM OXIDE FINISH



PLUG CHAMFER

Premium Vanadium High Speed High Performance Spiral Point Taps are designed for through hole tapping in heat treated steels up to 45 RC, tough alloys, and stainless steels. They are manufactured with a reduced neck design specifically for use on CNC equipment.

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.	PRICE
HPSPT#04-40	4-40	2	2	\$15.00
HPSPT#06-32	6-32	2	2	12.50
HPSPT#08-32	8-32	3	3	12.50
HPSPT#10-24	10-24	3	3	12.50
HPSPT#10-32	10-32	3	3	12.50
HPSPT016-20	1/4-20	3	3	13.86
HPSPT016-28	1/4-28	3	3	13.86
HPSPT020-18	5/16-18	3	3	15.60
HPSPT020-24	5/16-24	3	3	15.60
HPSPT024-16	3/8-16	3	3	17.60
HPSPT024-24	3/8-24	3	3	17.60

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.	PRICE
HPSPT028-14	7/16-14	3	3	\$23.00
HPSPT028-20	7/16-20	3	3	23.00
HPSPT032-13	1/2-13	3	3	26.50
HPSPT032-20	1/2-20	3	3	26.50
HPSPT040-11	5/8-11	3	3	48.00
HPSPT040-18	5/8-18	3	3	48.00
HPSPT048-10	3/4-10	3	3	75.00
HPSPT048-16	3/4-16	3	3	75.00
HPSPT056-09	7/8-9	4	4	112.00
HPSPT056-14	7/8-14	4	4	112.00
HPSPT100-08	1-8	4	4	149.00

HSS - V PREMIUM VANADIUM

LONG LENGTH HIGH PERFORMANCE SPIRAL POINT TAPS

ICS USA

SPECIAL PURPOSE

GROUND THREAD

STEAM OXIDE FINISH



6" LENGTH

PLUG CHAMFER

Long Length Premium Vanadium High Speed High Performance Spiral Point Taps are designed for through hole tapping in heat treated steels up to 45 RC, tough alloys, and stainless steels. They are manufactured with a reduced neck design specifically for use on CNC equipment.

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.	PRICE
HPSPT06L#04-40	4-40	2	2	\$34.00
HPSPT06L#06-32	6-32	2	2	32.00
HPSPT06L#08-32	8-32	3	3	32.00
HPSPT06L#10-24	10-24	3	3	32.00
HPSPT06L#10-32	10-32	3	3	32.00
HPSPT06L016-20	1/4-20	3	3	33.20
HPSPT06L016-28	1/4-28	3	3	33.20
HPSPT06L020-18	5/16-18	3	3	34.60

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.	PRICE
HPSPT06L020-24	5/16-24	3	3	\$34.60
HPSPT06L024-16	3/8-16	3	3	36.00
HPSPT06L024-24	3/8-24	3	3	36.00
HPSPT06L028-14	7/16-14	3	3	40.00
HPSPT06L028-20	7/16-20	3	3	40.00
HPSPT06L032-13	1/2-13	3	3	43.20
HPSPT06L032-20	1/2-20	3	3	43.20
HPSPT06L040-11	5/8-11	3	3	62.22

Special Length High Performance Spiral Point Taps can be made to your requirements. Consult factory for price and delivery.

HSS - V PREMIUM VANADIUM

HIGH PERFORMANCE SPIRAL FLUTE TAPS

ICS USA

SPECIAL PURPOSE

GROUND THREAD

STEAM OXIDE FINISH



SEMI-BOTTOMING CHAMFER

Premium Vanadium High Speed High Performance Spiral Flute Taps are designed for through hole tapping in heat treated steels up to 45 RC, tough alloys, and stainless steels. Ideally suited for blind hole tapping. They are manufactured with a reduced neck design specifically for use on CNC equipment.

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.	PRICE
HPSFT#04-40	4-40	2	2	\$24.10
HPSFT#06-32	6-32	3	2	19.50
HPSFT#08-32	8-32	3	3	19.50
HPSFT#10-24	10-24	3	3	19.50
HPSFT#10-32	10-32	3	3	19.50
HPSFT016-20	1/4-20	3	3	21.18
HPSFT016-28	1/4-28	3	3	21.18
HPSFT020-18	5/16-18	3	3	26.00
HPSFT020-24	5/16-24	3	3	26.00
HPSFT024-16	3/8-16	3	3	30.22
HPSFT024-24	3/8-24	3	3	30.22

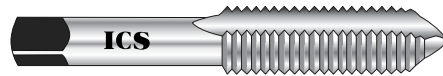
ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.	PRICE
HPSFT028-14	7/16-14	3	3	\$45.16
HPSFT028-20	7/16-20	3	3	45.16
HPSFT032-13	1/2-13	3	3	53.22
HPSFT032-20	1/2-20	3	3	53.22
HPSFT040-11	5/8-11	4	3	93.74
HPSFT040-18	5/8-18	4	3	93.74
HPSFT048-10	3/4-10	4	3	120.56
HPSFT048-16	3/4-16	4	3	120.56
HPSFT056-09	7/8-9	4	4	167.40
HPSFT056-14	7/8-14	4	4	175.24
HPSFT100-08	1-8	4	4	211.89

**PREMIUM (10% COBALT) MICROGRAIN
SOLID CARBIDE SPIRAL POINT TAPS**

ICS USA

HEAVY DUTY

CNC GROUND



**PLUG
CHAMFER**

Micrograin Solid Carbide Spiral Point Taps are designed for machine tapping through holes or blind holes in difficult to machine materials and tough work hardening metals, such as stainless steel, titanium alloys, Inconel, powdered metals, cast iron, plastics, and steels up to Rockwell hardness C45. Used whenever high speed steel spiral point taps cannot handle the job. Solid Carbide Spiral Point Taps have a plug chamfer and must have a rigid setup for use. Do not use for hand tapping.

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.	PRICE
SCSPT#06-32	6 - 32	2	H3	CALL FOR PRICE
SCSPT#08-32	8 - 32	2	H3	
SCSPT#10-24	10 - 24	2	H3	
SCSPT#10-32	10 - 32	2	H3	
SCSPT#12-24	12 - 24	2	H3	
SCSPT#12-28	12 - 28	2	H3	
SCSPT016-20	1/4 - 20	2	H3	

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.	PRICE
SCSPT016-28	1/4 - 28	2	H3	CALL FOR PRICE
SCSPT020-18	5/16 - 18	2	H3	
SCSPT020-24	5/16 - 24	2	H3	
SCSPT024-16	3/8 - 16	3	H3	
SCSPT024-24	3/8 - 24	3	H3	
SCSPT028-14	7/16 - 14	3	H3	
SCSPT028-20	7/16 - 20	3	H3	

- Special Thread Solid Carbide Spiral Point Taps can be made to your requirements. Consult factory for price and quick delivery.

**PREMIUM (10% COBALT) MICROGRAIN
SOLID CARBIDE TAPER (NPT) PIPE TAPS**

ICS USA

HEAVY DUTY

CNC GROUND

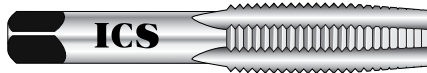


Micrograin Solid Carbide Taper Pipe Taps are designed to tap pipe fittings made of difficult to machine materials and tough work hardening metals such as stainless steel, titanium alloys, Inconel, powdered metals, cast iron, plastics, and steels up to Rockwell hardness C45. Use when high speed steel taper pipe taps (NPT) cannot handle the job. Solid Carbide Taper Pipe Taps (NPT) have a taper chamfer and must have a rigid setup for use.

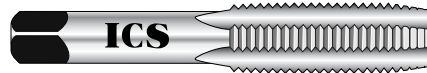
ITEM NO.	THREAD SIZE	NO. OF FLUTES	PRICE
SCNPT016-18	1/4 - 18	4	CALL
SCNPT032-18	1/2 - 18	4	

ITEM NO.	THREAD SIZE	NO. OF FLUTES	PRICE
SCNPT048-14	3/4 - 14	5	CALL
SCNPT100-11.5	1 - 11-1/2	5	

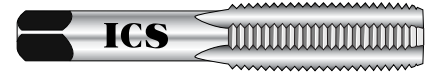
PREMIUM (10% COBALT) MICROGRAIN SOLID CARBIDE HAND TAPS

ICS USA
HEAVY DUTY
CNC GROUND


TAPER TAP
7-10 Thread Chamfer
at 5 degrees per side



PLUG TAP
3-5 Thread Chamfer
at 8 degrees per side



BOTTOMING TAP
1-2 Thread Chamfer
at 18 degrees per side

Micrograin Solid Carbide Hand Taps are designed for threading difficult to machine materials and tough work hardening metals such as stainless steel, titanium alloys, Inconel, powdered metals, cast iron, plastics, and steels up to Rockwell hardness C45. Used whenever high speed steel hand taps cannot handle the job. Solid Carbide Hand Taps must have a rigid setup for use.

Right Hand Thread Sizes (#6 to 5/8 Dia.)

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.
SCHT#06-32	6 - 32	3	H3
SCHT#08-32	8 - 32	4	H3
SCHT#10-24	10 - 24	4	H3
SCHT#10-32	10 - 32	4	H3
SCHT#12-24	12 - 24	4	H3
SCHT#12-28	12 - 28	4	H3
SCHT#12-32	12 - 32	4	H3
SCHT016-20	1/4 - 20	4	H3
SCHT016-28	1/4 - 28	4	H3
SCHT016-32	1/4 - 32	4	H3
SCHT020-18	5/16 - 18	4	H3
SCHT020-24	5/16 - 24	4	H3
SCHT020-32	5/16 - 32	4	H3

CALL FOR PRICING

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.
SCHT024-16	3/8 - 16	4	H3
SCHT024-24	3/8 - 24	4	H3
SCHT024-32	3/8 - 32	4	H3
SCHT028-14	7/16 - 14	4	H3
SCHT028-20	7/16 - 20	4	H3
SCHT028-28	7/16 - 28	4	H3
SCHT032-13	1/2 - 13	4	H3
SCHT032-20	1/2 - 20	4	H3
SCHT032-28	1/2 - 28	4	H3
SCHT036-12	9/16 - 12	4	H3
SCHT036-18	9/16 - 18	4	H3
SCHT040-11	5/8 - 11	4	H3
SCHT040-18	5/8 - 18	4	H3

CALL FOR PRICING

Left Hand Thread Sizes (#6 to 5/8 Dia.)

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.
SCHTL#06-32	6 - 32	3	H3
SCHTL#08-32	8 - 32	4	H3
SCHTL#10-24	10 - 24	4	H3
SCHTL#10-32	10 - 32	4	H3
SCHTL#12-24	12 - 24	4	H3
SCHTL#12-28	12 - 28	4	H3
SCHTL#12-32	12 - 32	4	H3
SCHTL016-20	1/4 - 20	4	H3
SCHTL016-28	1/4 - 28	4	H3
SCHTL016-32	1/4 - 32	4	H3
SCHTL020-18	5/16 - 18	4	H3
SCHTL020-24	5/16 - 24	4	H3
SCHTL020-32	5/16 - 32	4	H3

CALL FOR PRICING

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.
SCHTL024-16	3/8 - 16	4	H3
SCHTL024-24	3/8 - 24	4	H3
SCHTL024-32	3/8 - 32	4	H3
SCHTL028-14	7/16 - 14	4	H3
SCHTL028-20	7/16 - 20	4	H3
SCHTL028-28	7/16 - 28	4	H3
SCHTL032-13	1/2 - 13	4	H3
SCHTL032-20	1/2 - 20	4	H3
SCHTL032-28	1/2 - 28	4	H3
SCHTL036-12	9/16 - 12	4	H3
SCHTL036-18	9/16 - 18	4	H3
SCHTL040-11	5/8 - 11	4	H3
SCHTL040-18	5/8 - 18	4	H3

CALL FOR PRICING

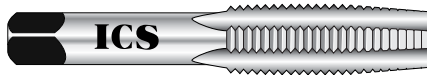
- Please specify Taper (T), Plug (P) or Bottoming (B) chamfer. Examples: SCHTL#06-32T, SCHTL#06-32P, SCHTL#06-32B.
- Special Thread Solid Carbide Hand Taps can be made to your requirements. Consult factory for price and quick delivery.

PREMIUM (10% COBALT) MICROGRAIN
SOLID CARBIDE METRIC HAND TAPS

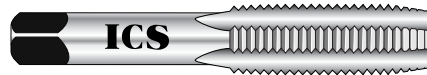
ICS USA

HEAVY DUTY

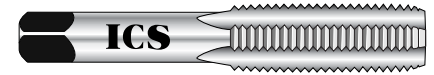
CNC GROUND



TAPER TAP
7-10 Thread Chamfer
at 5 degrees per side



PLUG TAP
3-5 Thread Chamfer
at 8 degrees per side



BOTTOMING TAP
1-2 Thread Chamfer
at 18 degrees per side

Micrograin Solid Carbide Metric Hand Taps are designed for threading difficult to machine materials and tough work hardening metals such as stainless steel, titanium alloys, Inconel, powdered metals, cast iron, plastics, and steels up to Rockwell hardness C45. Used whenever high speed steel hand taps cannot handle the job. Solid Carbide Hand Taps must have a rigid setup for use.

Right Hand Metric Thread Sizes (3.50mm to 16.00mm Dia.)

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.	PRICE
SCHTM03.5X.60	M3.5 x .60	3	H3	
SCHTM04.0X.70	M4.0 x .70	4	H3	
SCHTM04.5X.75	M4.5 x .75	4	H3	
SCHTM05.0X.80	M5.0 x .80	4	H3	
SCHTM05.0X.90	M5.0 x .90	4	H3	CALL FOR PRICE
SCHTM06.0X1.0	M6.0 x 1.00	4	H3	FOR PRICE
SCHTM06.3X1.0	M6.3 x 1.00	4	H3	PRICE
SCHTM07X1.00	M7.0 x 1.00	4	H3	
SCHTM08X1.00	M8.0 x 1.00	4	H3	
SCHTM08X1.25	M8.0 x 1.25	4	H3	
SCHTM09X1.25	M9.0 x 1.25	4	H3	

CALL FOR PRICING

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.	PRICE
SCHTM10X1.00	M10 x 1.00	4	H3	
SCHTM10X1.25	M10 x 1.25	4	H3	
SCHTM10X1.50	M10 x 1.50	4	H3	
SCHTM12X1.25	M12 x 1.25	4	H3	
SCHTM12X1.50	M12 x 1.50	4	H3	CALL FOR PRICE
SCHTM12X1.75	M12 x 1.75	4	H3	FOR PRICE
SCHTM14X1.25	M14 x 1.25	4	H3	PRICE
SCHTM14X1.50	M14 x 1.50	4	H3	
SCHTM14X2.00	M14 x 2.00	4	H3	
SCHTM16X1.50	M16 x 1.50	4	H3	
SCHTM16X2.00	M16 x 2.00	4	H3	

CALL FOR PRICING

Left Hand Metric Thread Sizes (3.50mm to 16.00mm Dia.)

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.	PRICE
SCHTML03.5X.60	M3.5 x .60	3	H3	
SCHTML04.0X.70	M4.0 x .70	4	H3	
SCHTML04.5X.75	M4.5 x .75	4	H3	
SCHTML05.0X.80	M5.0 x .80	4	H3	
SCHTML05.0X.90	M5.0 x .90	4	H3	CALL FOR PRICE
SCHTML06.0X1.0	M6.0 x 1.00	4	H3	FOR PRICE
SCHTML06.3X1.0	M6.3 x 1.00	4	H3	PRICE
SCHTML07X1.00	M7.0 x 1.00	4	H3	
SCHTML08X1.00	M8.0 x 1.00	4	H3	
SCHTML08X1.25	M8.0 x 1.25	4	H3	
SCHTML09X1.25	M9.0 x 1.25	4	H3	

CALL FOR PRICING

ITEM NO.	THREAD SIZE	NO. OF FLUTES	LIMIT NO.	PRICE
SCHTML10X1.00	M10 x 1.00	4	H3	
SCHTML10X1.25	M10 x 1.25	4	H3	
SCHTML10X1.50	M10 x 1.50	4	H3	
SCHTML12X1.25	M12 x 1.25	4	H3	
SCHTML12X1.50	M12 x 1.50	4	H3	CALL FOR PRICE
SCHTML12X1.75	M12 x 1.75	4	H3	FOR PRICE
SCHTML14X1.25	M14 x 1.25	4	H3	PRICE
SCHTML14X1.50	M14 x 1.50	4	H3	
SCHTML14X2.00	M14 x 2.00	4	H3	
SCHTML16X1.50	M16 x 1.50	4	H3	
SCHTML16X2.00	M16 x 2.00	4	H3	

CALL FOR PRICING

- Please specify Taper (T), Plug (P) or Bottoming (B) chamfer.
Examples: SCHTML03.5X.60T, SCHTML03.5X.60P, SCHTML03.5X.60B.
- Special Thread Solid Carbide Metric Hand Taps can be made to your requirements.
Consult factory for price and quick delivery.

HIGH SPEED STEEL SPIRAL POINT PULLEY TAPS

ICS

WIS

SPECIAL PURPOSE

GROUND THREAD



**PLUG
CHAMFER**

Spiral Point Pulley Taps are used for machine tapping the hubs of pulleys for oil caps or set screws. The long shank is also ideal for reaching holes inaccessible with standard length taps. Thread length is the same length as a standard hand tap.

ITEM NO.			SIZE	THREADS PER INCH		NO. OF FLUTES	LIMIT NO.	OVERALL LENGTH	PRICE EACH
ALPHA PREFIX	NUMERIC SUFFIX (SIZE - TPI)	NC UNC		NF UNF					
SPPT	#06 - 32	6	32	-	2	H3	6	\$29.44	
SPPT	#08 - 32	8	32	-	2	H3	6	29.44	
SPPT	#10 - (TPI)	10	24	32	2	H3	6	29.44	
SPPT	016 - (TPI)	1/4	20	28	3	H3	6	29.44	
SPPT	020 - (TPI)	5/16	18	24	3	H3	6	37.32	
SPPT	024 - (TPI)	3/8	16	24	3	H3	6	41.80	
SPPT	028 - (TPI)	7/16	14	20	3	H3	6	42.34	
SPPT	032 - (TPI)	1/2	13	20	3	H3	6	44.74	

HIGH SPEED STEEL METRIC SPIRAL POINT PULLEY TAPS

ICS

WIS

SPECIAL PURPOSE

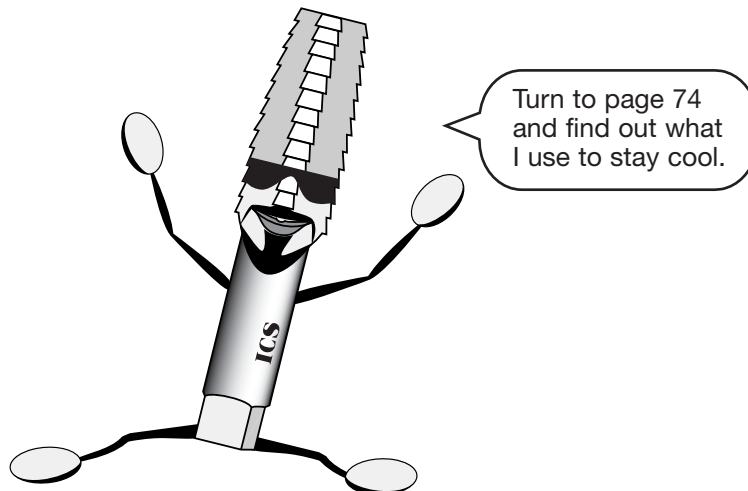
GROUND THREAD



**PLUG
CHAMFER**

Metric Spiral Point Pulley Taps are used for machine tapping the hubs of pulleys for oil caps or set screws. The long shank is also ideal for reaching holes inaccessible with standard length taps. Thread length is the same length as a standard hand tap.

ITEM NO.			SIZE (mm)	PITCH (mm)	NO. OF FLUTES	OVERALL LENGTH	PRICE EACH
ALPHA PREFIX	NUMERIC SUFFIX (SIZE X PITCH)						
SPPTM	03.5 x 0.60	M3.5	.60	3	6	\$35.50	
SPPTM	04.0 x 0.70	M4	.70	4	6	35.50	
SPPTM	04.5 x 0.75	M4.5	.75	4	6	35.50	
SPPTM	05.0 x 0.80	M5	.80	4	6	35.50	
SPPTM	06.0 x 1.00	M6	1.00	4	6	35.50	
SPPTM	07.0 x 1.00	M7	1.00	4	6	38.22	
SPPTM	08.0 x 1.25	M8	1.25	4	6	38.22	
SPPTM	10.0 x 1.50	M10	1.50	4	6	41.58	
SPPTM	12.0 x 1.75	M12	1.75	4	6	41.58	



HIGH SPEED STEEL PULLEY TAPS

ICS WIS

SPECIAL PURPOSE

GROUND THREAD



**PLUG
CHAMFER**

Pulley Taps are used for tapping the hubs of pulleys for oil caps or set screws. The long shank is also ideal for reaching holes inaccessible with standard length taps. Thread length is the same length as a standard hand tap. Tap shanks will not follow through on sizes below 7/16".

ITEM NO.				THREADS PER INCH			NO. OF FLUTES	LIMIT NO.	PRICE EACH			
ALPHA PREFIX	NUMERIC (SIZE)	SUFFIX (TPI)	X LGTH)	SIZE	NC UNC	NF UNF			OVERALL LENGTH			
							6"	8"	10"	12"		
PT	#06	- 32	x (lgth)	6	32	-	3	\$26.28	\$ -	\$ -	\$ -	
PT	#08	- 32	x (lgth)	8	32	-	4	26.28	-	-	-	
PT	#10	- (TPI)	x (lgth)	10	24	32	4	26.28	29.24	-	-	
PT	016	- (TPI)	x (lgth)	1/4	20	28	4	26.28	29.24	-	-	
PT	020	- (TPI)	x (lgth)	5/16	18	24	4	32.44	38.88	-	-	
PT	024	- (TPI)	x (lgth)	3/8	16	24	4	36.40	43.48	50.96	-	
PT	028	- (TPI)	x (lgth)	7/16	14	20	4	38.98	51.62	55.72	-	
PT	032	- (TPI)	x (lgth)	1/2	13	20	4	39.70	51.62	72.14	86.36	
PT	040	- (TPI)	x (lgth)	5/8	11	18	4	58.24	72.14	90.34	105.88	
PT	048	- (TPI)	x (lgth)	3/4	10	16	4	85.22	97.16	110.72	125.72	

HIGH SPEED STEEL METRIC PULLEY TAPS

ICS WIS

SPECIAL PURPOSE

GROUND THREAD



**PLUG
CHAMFER**

Metric Pulley Taps are used for tapping the hubs of pulleys for oil caps or set screws. The long shank is also ideal for reaching holes inaccessible with standard length taps. Thread length is the same length as a standard hand tap. Tap shanks will not follow through on sizes below 7/16".

ITEM NO.				SIZE (mm)	PITCH (mm)	NO. OF FLUTES	OVERALL LENGTH	PRICE EACH
ALPHA PREFIX	NUMERIC (SIZE)	SUFFIX (X PITCH)						
PTM	03.5	x 0.60		M3.5	.60	3	6	\$31.12
PTM	04.0	x 0.70		M4	.70	4	6	31.12
PTM	04.5	x 0.75		M4.5	.75	4	6	31.12
PTM	05.0	x 0.80		M5	.80	4	6	31.12
PTM	06.0	x 1.00		M6	1.00	4	6	31.12
PTM	07.0	x 1.00		M7	1.00	4	6	33.26
PTM	08.0	x 1.25		M8	1.25	4	6	33.26
PTM	10.0	x 1.50		M10	1.50	4	6	36.62
PTM	12.0	x 1.75		M12	1.75	4	6	36.62

HIGH SPEED STEEL NUT TAPS

ICS WIS

SPECIAL PURPOSE

GROUND THREAD

**DROP THRU
SHANK**



**TAPER
CHAMFER**

Nut taps, as the name implies, were designed for tapping nuts. Now most large production nut tapping jobs are done with bent shank nut taps. These taps are now used mainly for deep hole tapping where the work requires a tap with a long undercut shank and greater thread length.

ITEM NO.		THREADS PER INCH			NO. OF FLUTES	LIMIT NO.	THREAD LENGTH		OVERALL LENGTH	PRICE EACH	
ALPHA PREFIX	NUMERIC (SIZE)	SUFFIX (TPI)	SIZE	NC UNC			NF UNF	NC UNC			NF UNF
NT	016	- (TPI)	1/4	20	28	4	H3	1-5/8	1-1/4	5	\$36.66
NT	020	- (TPI)	5/16	18	24	4	H3	1-13/16	1-3/8	5-1/2	41.96
NT	024	- (TPI)	3/8	16	24	4	H3	2	1-1/2	6	49.20
NT	028	- (TPI)	7/16	14	20	4	H3	2-3/8	1-3/4	6-1/2	52.40
NT	032	- (TPI)	1/2	13	20	4	H3	2-1/2	1-7/8	7	65.50

HIGH SPEED STEEL SPIRAL FLUTED (FAST) TAPS

ICS **WIS**

SPECIAL PURPOSE

GROUND THREAD

**FAST SPIRAL
(APPROX. 52°)**



**PLUG & BOTTOMING
CHAMFER**

Fast Spiral Fluted Taps have continuous spiral flutes to lift and discharge chips from deep blind holes in softer metals.

SIZE	THREADS PER INCH		NO. OF FLUTES	LIMIT NO.	PRICE EACH
	NC UNC	NF UNF			HSS SFTF
4	40	-	2	H2	\$14.12
5	40	-	2	H2	14.12
6	32	-	2	H3	11.42
8	32	-	3	H3	11.42
10	24	32	3	H3	11.42
12	24	-	3	H3	11.42

SIZE	THREADS PER INCH		NO. OF FLUTES	LIMIT NO.	PRICE EACH
	NC UNC	NF UNF			HSS SFTF
1/4	20	28	3	H3	\$12.40
5/16	18	24	3	H3	15.58
3/8	16	24	3	H3	17.66
7/16	14	20	3	H3	26.38
1/2	13	20	3	H3	31.82
5/8	11	18	4	H3	49.24
3/4	10	16	4	H3	63.20

HIGH SPEED STEEL SPIRAL FLUTED (REGULAR) TAPS

ICS **WIS**

SPECIAL PURPOSE

GROUND THREAD

**REGULAR SPIRAL
(APPROX. 30°)**



**PLUG & BOTTOMING
CHAMFER**

Regular Spiral Fluted Taps have continuous 30° spiral flutes to lift and discharge chips from deep blind holes in steels and tough grades of aluminum.

SIZE	THREADS PER INCH		NO. OF FLUTES	LIMIT NO.	PRICE EACH
	NC UNC	NF UNF			HSS SFTF
4	40	-	2	H2	\$14.12
5	40	-	2	H2	14.12
6	32	-	2	H3	11.42
8	32	-	3	H3	11.42
10	24	32	3	H3	11.42
12	24	-	3	H3	11.42

SIZE	THREADS PER INCH		NO. OF FLUTES	LIMIT NO.	PRICE EACH
	NC UNC	NF UNF			HSS SFTF
1/4	20	28	3	H3	\$12.40
5/16	18	24	3	H3	15.58
3/8	16	24	3	H3	17.66
7/16	14	20	3	H3	26.38
1/2	13	20	3	H3	31.82
5/8	11	18	4	H3	49.24
3/4	10	16	4	H3	63.20

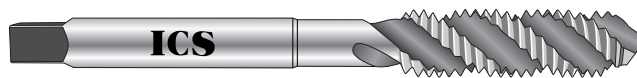
COBALT (CNC) SPIRAL FLUTED TAPS

ICS **WIS**

SPECIAL PURPOSE

GROUND THREAD

**FAST SPIRAL
(APPROX. 52°)**



**PLUG & BOTTOMING
CHAMFER**

Cobalt Fast Spiral Fluted Taps have continuous spiral flutes to lift and discharge chips from deep blind holes in tough alloys and stainless steels. They were developed specifically for use on CNC equipment.

SIZE	THREADS PER INCH		NO. OF FLUTES	LIMIT NO.	PRICE EACH
	NC UNC	NF UNF			HSS SFTFC
4	40	-	2	H2	\$28.24
5	40	-	2	H2	28.24
6	32	-	2	H3	22.82
8	32	-	3	H3	22.82
10	24	32	3	H3	22.82
12	24	-	3	H3	22.82

SIZE	THREADS PER INCH		NO. OF FLUTES	LIMIT NO.	PRICE EACH
	NC UNC	NF UNF			HSS SFTFC
1/4	20	28	3	H3	\$24.78
5/16	18	24	3	H3	31.14
3/8	16	24	3	H3	35.32
7/16	14	20	3	H3	52.74
1/2	13	20	3	H3	63.62
5/8	11	18	4	H3	98.48
3/4	10	16	4	H3	126.40

HIGH SPEED STEEL - TITANIUM NITRIDE COATED THREAD FORMING TAPS

ICS

WIS

SPECIAL PURPOSE

GROUND THREAD

**CLASS 2B
FIT**



**PLUG & BOTTOMING
CHAMFER**

Thread Forming Taps are designed for cold forming threads in ductile materials such as aluminum, copper, brass, zinc, low carbon steels, and 302, 303 stainless steels. They displace metal rather than remove it, therefore, countersinking before or after tapping is recommended.

SIZE	THREADS PER INCH		LIMIT NO.	PRICE EACH	
	NC	NF		HSS	TIN COATED
				TFT	TFTT
* 0	-	80	H2	\$18.94	\$21.18
* 1	64	72	H2	18.94	21.18
* 2	56	64	H2	18.94	21.18
* 3	48	56	H2	18.94	21.18
4	40	48	H3	17.36	19.60
5	40	-	H3	17.36	19.60
6	32	40	H3	14.40	16.64
8	32	36	H3	14.40	18.42
10	24	32	H4	14.40	18.42
12	24	28	H4	14.12	18.16
1/4	20	28	H4	14.12	18.16
5/16	18	24	H5	16.78	22.94
3/8	16	24	H5	18.94	25.10
7/16	14	20	H5	29.64	35.80
1/2	13	20	H5	33.50	39.66
9/16	12	18	H7	38.40	49.60
5/8	11	18	H7	47.22	58.42
3/4	10	16	H7	62.28	74.60

TAP DRILL SIZE APPROX. 75% THREAD	
NC	NF
-	M1.35
#52	M1.65
M1.95	5/64
M2.25	#43
#39	#38
#34	-
M3.10	1/8
M3.75	#25
M4.30	M4.40
#10	M5.00
M5.70	M5.80
M7.20	M7.40
M8.70	M9.00
"X"	"Z"
M11.70	M12.00
33/64	M13.50
37/64	19/32
M17.75	23/32

* Available in Bottoming Chamfer only.

PREMIUM (10% COBALT) MICROGRAIN SOLID CARBIDE THREAD FORMING TAPS

ICS

WIS

HEAVY DUTY

CNC GROUND

**CLASS 2B
FIT**



**PLUG & BOTTOMING
CHAMFER**

Micrograin Solid Carbide Thread Forming Taps are designed for cold forming threads in ductile materials such as aluminum, copper, brass, zinc, low carbon steel, and 302, 303 stainless steel. Cold formed threads are much stronger than cut threads because this process displaces metal rather than removing it, therefore, countersinking before or after tapping is recommended. Solid Carbide Thread Forming Taps can be run up to 5 times faster than high speed steel thread forming taps. They have no cutting edge to become dull and last 4 times longer than high speed steel thread forming taps. They are available with plug or bottoming chamfer. Solid Carbide Thread Forming Taps are also known as Fluteless Taps, Roll Taps, Chipless Taps, Forming Taps or Polygon Taps.

Right Hand Thread Sizes (#6 to 5/8" Dia.)

ITEM NO.	THREAD SIZE	LIMIT NO.
SCFT#06-32	6 - 32	H3
SCFT#08-32	8 - 32	H3
SCFT#10-24	10 - 24	H4
SCFT#10-32	10 - 32	H4
SCFT#12-24	12 - 24	H4
SCFT#12-28	12 - 28	H4
SCFT#12-32	12 - 32	H4
SCFT016-20	1/4 - 20	H4
SCFT016-28	1/4 - 28	H4
SCFT016-32	1/4 - 32	H4
SCFT020-18	5/16 - 18	H5
SCFT020-20	5/16 - 20	H5
SCFT020-32	5/16 - 32	H5

CALL FOR PRICING

ITEM NO.	THREAD SIZE	LIMIT NO.
SCFT024-16	3/8 - 16	H5
SCFT024-24	3/8 - 24	H5
SCFT024-32	3/8 - 32	H5
SCFT028-14	7/16 - 14	H5
SCFT028-20	7/16 - 20	H5
SCFT028-28	7/16 - 28	H5
SCFT032-13	1/2 - 13	H5
SCFT032-20	1/2 - 20	H5
SCFT032-28	1/2 - 28	H5
SCFT036-12	9/16 - 12	H7
SCFT036-18	9/16 - 18	H7
SCFT040-11	5/8 - 11	H7
SCFT040-18	5/8 - 18	H7

CALL FOR PRICING

Left Hand Thread Sizes (#6 to 5/8" Dia.)

ITEM NO.	THREAD SIZE	LIMIT NO.
SCFTL#06-32	6 - 32	H3
SCFTL#08-32	8 - 32	H3
SCFTL#10-24	10 - 24	H4
SCFTL#10-32	10 - 32	H4
SCFTL#12-24	12 - 24	H4
SCFTL#12-28	12 - 28	H4
SCFTL#12-32	12 - 32	H4
SCFTL016-20	1/4 - 20	H4
SCFTL016-28	1/4 - 28	H4
SCFTL016-32	1/4 - 32	H4
SCFTL020-18	5/16 - 18	H5
SCFTL020-20	5/16 - 20	H5
SCFTL020-32	5/16 - 32	H5

CALL FOR PRICING

ITEM NO.	THREAD SIZE	LIMIT NO.
SCFTL024-16	3/8 - 16	H5
SCFTL024-24	3/8 - 24	H5
SCFTL024-32	3/8 - 32	H5
SCFTL028-14	7/16 - 14	H5
SCFTL028-20	7/16 - 20	H5
SCFTL028-28	7/16 - 28	H5
SCFTL032-13	1/2 - 13	H5
SCFTL032-20	1/2 - 20	H5
SCFTL032-28	1/2 - 28	H5
SCFTL036-12	9/16 - 12	H7
SCFTL036-18	9/16 - 18	H7
SCFTL040-11	5/8 - 11	H7
SCFTL040-18	5/8 - 18	H7

CALL FOR PRICING

- Please specify Plug (P) or Bottoming (B) chamfer. Examples: SCFT#06-32P, SCFT#06-32B.
- Solid Carbide Thread Forming Taps can be made to your requirements. Consult factory for price and quick delivery.
- Pricing is for one tap. Inquire for quantity of 3 or more taps.

PREMIUM (10% COBALT) MICROGRAIN

SOLID CARBIDE METRIC THREAD FORMING TAPS

ICS

WIS

HEAVY DUTY

CNC GROUND

**CLASS 2B
FIT**



**PLUG & BOTTOMING
CHAMFER**

Micrograin Solid Carbide Metric Thread Forming Taps are designed for cold forming threads in ductile materials such as aluminum, copper, brass, zinc, low carbon steel, and 302, 303 stainless steel. Cold formed threads are much stronger than cut threads because this process displaces metal rather than removing it, therefore, countersinking before or after tapping is recommended. Solid Carbide Metric Thread Forming Taps can be run up to 5 times faster than high speed steel thread forming taps. They have no cutting edge to become dull and last 4 times longer than high speed steel thread forming taps. They are available with plug or bottoming chamfer. Solid Carbide Metric Thread Forming Taps are also known as Metric Fluteless Taps, Metric Roll Taps, Metric Chipless Taps, Metric Forming Taps or Metric Polygon Taps.

Right Hand Metric Thread Sizes (3.50mm to 16.00mm Dia.)

ITEM NO.	THREAD SIZE	LIMIT NO.
SCFTM03.5X.60	M3.5 x .60	D-4
SCFTM04.0X.70	M4.0 x .70	D-4
SCFTM04.5X.75	M4.5 x .75	D-4
SCFTM05.0X.80	M5.0 x .80	D-4
SCFTM05.0X.90	M5.0 x .90	D-4
SCFTM06.0X1.0	M6.0 x 1.00	D-5
SCFTM06.3X1.0	M6.3 x 1.00	D-5
SCFTM07X1.00	M7.0 x 1.00	D-5
SCFTM08X1.00	M8.0 x 1.00	D-5
SCFTM08X1.25	M8.0 x 1.25	D-5
SCFTM09X1.25	M9.0 x 1.25	D-5

CALL FOR PRICING

ITEM NO.	THREAD SIZE	LIMIT NO.
SCFTM10X1.00	M10 x 1.00	D-6
SCFTM10X1.25	M10 x 1.25	D-6
SCFTM10X1.50	M10 x 1.50	D-6
SCFTM12X1.25	M12 x 1.25	D-6
SCFTM12X1.50	M12 x 1.50	D-6
SCFTM12X1.75	M12 x 1.75	D-6
SCFTM14X1.25	M14 x 1.25	D-6
SCFTM14X1.50	M14 x 1.50	D-6
SCFTM14X2.00	M14 x 2.00	D-7
SCFTM16X1.50	M16 x 1.50	D-6
SCFTM16X2.00	M16 x 2.00	D-7

CALL FOR PRICING

Left Hand Metric Thread Sizes (3.50mm to 16.00mm Dia.)

ITEM NO.	THREAD SIZE	LIMIT NO.
SCFTML03.5X.60	M3.5 x .60	D-4
SCFTML04.0X.70	M4.0 x .70	D-4
SCFTML04.5X.75	M4.5 x .75	D-4
SCFTML05.0X.80	M5.0 x .80	D-4
SCFTML05.0X.90	M5.0 x .90	D-4
SCFTML06.0X1.0	M6.0 x 1.00	D-5
SCFTML06.3X1.0	M6.3 x 1.00	D-5
SCFTML07X1.00	M7.0 x 1.00	D-5
SCFTML08X1.00	M8.0 x 1.00	D-5
SCFTML08X1.25	M8.0 x 1.25	D-5
SCFTML09X1.25	M9.0 x 1.25	D-5

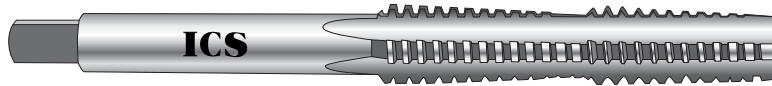
CALL FOR PRICING

ITEM NO.	THREAD SIZE	LIMIT NO.
SCFTML10X1.00	M10 x 1.00	D-6
SCFTML10X1.25	M10 x 1.25	D-6
SCFTML10X1.50	M10 x 1.50	D-6
SCFTML12X1.25	M12 x 1.25	D-6
SCFTML12X1.50	M12 x 1.50	D-6
SCFTML12X1.75	M12 x 1.75	D-6
SCFTML14X1.25	M14 x 1.25	D-6
SCFTML14X1.50	M14 x 1.50	D-6
SCFTML14X2.00	M14 x 2.00	D-7
SCFTML16X1.50	M16 x 1.50	D-6
SCFTML16X2.00	M16 x 2.00	D-7

CALL FOR PRICING

- Please specify Plug (P) or Bottoming (B) chamfer.
Examples: SCFTML03.5X.60P, SCFTML03.5X.60B.
- Solid Carbide Metric Thread Forming Taps can be made to your requirements.
Consult factory for price and quick delivery.
- Pricing is for one tap. Inquire for quantity of 3 or more taps.

HIGH SPEED STEEL TANDEM "ACME" THREAD TAPS

ICS USA
SPECIAL PURPOSE
GROUND THREAD
**ROUGHING AND
FINISHING**

**CLASS
2G FIT**

High Speed Steel Tandem Acme Thread Taps are designed with a roughing and finishing section to produce threads from a 10° to 30° included angle in a single pass without a leadscrew. The last few threads on the roughing section act as a guide for the finishing section, which corrects the thread angles and size. The original purpose of Acme threads was to convert rotary motion to traversing motion on machine leadscrews, valves, jack lift screws, drive gears and other mechanisms where heavy loads are encountered. They have four flutes and are to be used for through holes only. Designed to produce a class 2G thread fit.

Right Hand Thread Sizes (3/8" to 2" Dia.)

ITEM NO.	THREAD SIZE	THREAD LENGTH	OVERALL LENGTH
TAT024-12	3/8 - 12	2-1/2	5
TAT032-10	1/2 - 10	2-9/16	5
TAT040-08	5/8 - 8	3-3/16	6-1/4
TAT048-06	3/4 - 6	4-5/16	7-15/16
TAT048-08	3/4 - 8	4-15/16	7-15/16
TAT056-06	7/8 - 6	4-3/8	8-5/8

[CALL FOR PRICING](#)

ITEM NO.	THREAD SIZE	THREAD LENGTH	OVERALL LENGTH
TAT100-05	1 - 5	5-1/4	10-1/8
TAT108-05	1-1/8 - 5	5-1/4	10-3/4
TAT116-05	1-1/4 - 5	5-1/4	11-1/8
TAT124-04	1-3/8 - 4	5-7/8	12-1/4
TAT132-04	1-1/2 - 4	5-7/8	12-5/8
TAT200-04	2 - 4	6-1/2	14-7/8

[CALL FOR PRICING](#)

Left Hand Thread Sizes (3/8" to 2" Dia.)

ITEM NO.	THREAD SIZE	THREAD LENGTH	OVERALL LENGTH
TATL024-12	3/8 - 12	2-1/2	5
TATL032-10	1/2 - 10	2-9/16	5
TATL040-08	5/8 - 8	3-3/16	6-1/4
TATL048-06	3/4 - 6	4-5/16	7-15/16
TATL048-08	3/4 - 8	4-15/16	7-15/16
TATL056-06	7/8 - 6	4-3/8	8-5/8

[CALL FOR PRICING](#)

ITEM NO.	THREAD SIZE	THREAD LENGTH	OVERALL LENGTH
TATL100-05	1 - 5	5-1/4	10-1/8
TATL108-05	1-1/8 - 5	5-1/4	10-3/4
TATL116-05	1-1/4 - 5	5-1/4	11-1/8
TATL124-04	1-3/8 - 4	5-7/8	12-1/4
TATL132-04	1-1/2 - 4	5-7/8	12-5/8
TATL200-04	2 - 4	6-1/2	14-7/8

[CALL FOR PRICING](#)

- Acme Hexagon Retreading Dies are also available.

HIGH SPEED STEEL

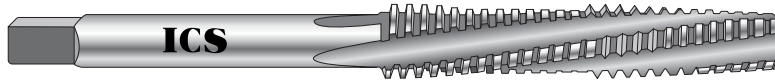
TANDEM "ACME" THREAD (SPIRAL FLUTE) TAPS

ICS USA

SPECIAL PURPOSE

GROUND THREAD

ROUGHING AND FINISHING



CLASS 2G FIT

High Speed Steel Tandem Acme Thread Spiral Flute Taps are designed with a roughing and finishing section to produce threads from a 10° to 30° included angle in a single pass without a leadscrew. The last few threads on the roughing section act as a guide for the finishing section, which corrects the thread angles and size. Spiral Fluted Tandem Acme Thread Taps have continuous spiral flutes to lift and discharge chips in deep holes. They have black steam oxidized flutes to improve finish and produce a class 2G thread fit.

Right Hand Thread Sizes (1/2" to 2" Dia.)

ITEM NO.	THREAD SIZE	THREAD LENGTH	OVERALL LENGTH
TATS032-10	1/2 - 10	2-9/16	5
TATS040-08	5/8 - 8	3-3/16	6-1/4
TATS048-06	3/4 - 6	4-5/16	7-15/16
TATS048-08	3/4 - 8	4-15/16	7-15/16
TATS056-06	7/8 - 6	4-3/8	8-5/8
TATS100-05	1 - 5	5-1/4	10-1/8

CALL FOR PRICING

ITEM NO.	THREAD SIZE	THREAD LENGTH	OVERALL LENGTH
TATS108-05	1-1/8 - 5	5-1/4	10-3/4
TATS116-05	1-1/4 - 5	5-1/4	11-1/8
TATS124-04	1-3/8 - 4	5-7/8	12-1/4
TATS132-04	1-1/2 - 4	5-7/8	12-5/8
TATS200-04	2 - 4	6-1/2	14-7/8

CALL FOR PRICING

Left Hand Thread Sizes (1/2" to 2" Dia.)

ITEM NO.	THREAD SIZE	THREAD LENGTH	OVERALL LENGTH
TATSL032-10	1/2 - 10	2-9/16	5
TATSL040-08	5/8 - 8	3-3/16	6-1/4
TATSL048-06	3/4 - 6	4-5/16	7-15/16
TATSL048-08	3/4 - 8	4-15/16	7-15/16
TATSL056-06	7/8 - 6	4-3/8	8-5/8
TATSL100-05	1 - 5	5-1/4	10-1/8

CALL FOR PRICING

ITEM NO.	THREAD SIZE	THREAD LENGTH	OVERALL LENGTH
TATSL108-05	1-1/8 - 5	5-1/4	10-3/4
TATSL116-05	1-1/4 - 5	5-1/4	11-1/8
TATSL124-04	1-3/8 - 4	5-7/8	12-1/4
TATSL132-04	1-1/2 - 4	5-7/8	12-5/8
TATSL200-04	2-4	6-1/2	14-7/8

CALL FOR PRICING

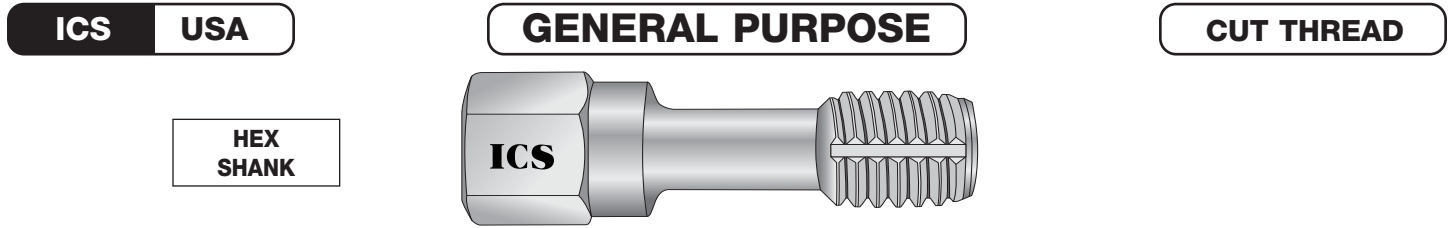
- Special Acme Taps and other translating thread taps can be made to your requirements. Consult factory for price and and delivery.
- Acme Hexagon Rethreading Dies are also available.

TANDEM "ACME" TAP DRILL SIZES AND MAXIMUM DEPTH OF NUT

ACME TAP THREAD SIZE	ACME TAP DRILL SIZE	MAX. DEPTH OF NUT	
		BRONZE AND STEEL	BRASS AND CAST IRON
1/4 - 16	#10	1	1-1/2
5/16 - 18	17/64	1	1-1/2
3/8 - 12	N	1	1-1/2
7/16 - 12	U	1	1-1/2
1/2 - 10	Z	1	1-1/2
5/8 - 8	13.00MM	1-1/4	1-7/8
3/4 - 6	39/64	1-1/2	2-1/4
3/4 - 8	41/64	1-1/2	2-1/4

ACME TAP THREAD SIZE	ACME TAP DRILL SIZE	MAX. DEPTH OF NUT	
		BRONZE AND STEEL	BRASS AND CAST IRON
7/8 - 6	47/64	1-3/4	2-5/8
1 - 5	49/64	2	3
1-1/8 - 5	24.00MM	2-1/4	3-5/8
1-1/4 - 5	1-1/64	2-1/2	3-3/4
1-3/8 - 5	1-3/32	2-3/4	4-1/8
1-1/2 - 5	32.50MM	3	4-1/2
2 - 4	45.00MM	3	4-1/2

CARBON STEEL
AUTOMOTIVE RETHREADING TAPS



Automotive Rethreading Taps are used to repair and clean out damaged internal threads without undercutting good threads. Good for removing nicks and burs. They are not designed for cutting new threads or renewing hardened threads.

Fractional Sizes (1/4" to 9/16" Dia.)

ITEM NO.	THREAD SIZE	HEX SHANK	PRICE
ART016-20	1/4-20	3/8	\$2.84
ART016-28	1/4-28	3/8	2.84
ART020-18	5/16-18	3/8	2.94
ART020-24	5/16-24	3/8	2.94
ART024-16	3/8-16	1/2	3.12
ART024-24	3/8-24	1/2	3.12

ITEM NO.	THREAD SIZE	HEX SHANK	PRICE
ART028-14	7/16-14	1/2	\$3.20
ART028-20	7/16-20	1/2	3.20
ART032-13	1/2-13	5/8	3.82
ART032-20	1/2-20	5/8	3.82
ART036-12	9/16-12	5/8	3.92
ART036-18	9/16-18	5/8	3.92

Metric Sizes (6.0mm To 14.0mm Dia.)

ITEM NO.	THREAD SIZE	HEX SHANK	PRICE
ARTM06.0X1.00	M6x1.00	3/8	\$2.94
ARTM08.0X1.25	M8x1.25	3/8	3.02
ARTM08.0X1.50	M8x1.50	3/8	3.02
ARTM10.0X1.00	M10x1.00	1/2	3.46
ARTM10.0X1.25	M10x1.25	1/2	3.46
ARTM10.0X1.50	M10x1.50	1/2	3.46

ITEM NO.	THREAD SIZE	HEX SHANK	PRICE
ARTM11.0X1.50	M11x1.50	1/2	\$4.10
ARTM12.0X1.25	M12x1.25	1/2	4.10
ARTM12.0X1.50	M12x1.50	1/2	4.10
ARTM12.0X1.75	M12x1.75	1/2	4.10
ARTM14.0X1.25	M14x1.25	5/8	4.26
ARTM14.0X1.50	M14x1.50	5/8	4.26

CARBON STEEL
SPARK PLUG RETHREADING TAPS



Spark Plug Rethreading Taps are designed to clean threads of carbon build-up, metal particles, and dirt. Two sizes in one. Tap service most autos. Rubber ring holds tap firmly in 13/16" socket.

ITEM NO.	SPARK PLUG SIZES	SOCKET SIZE	PRICE
SPRTM14X18	M14 x 1.25 M18 x 1.50	13/16	\$13.50

HIGH SPEED STEEL THREADLOCK PLUG GAUGES

ICS WIS

SPECIAL PURPOSE

PRECISION GROUND



CLASS 2B

Taperlock Thread Plug Gauges are designed for inspecting internal threads for rejection or acceptance of the finished threaded product. The GO end (member) is longer than the NO GO (H1) end and has a chip groove to clean out debris such as chips and dirt. Taper Shank Thread Plugs are designed to lock into taper holes in the handle. Double End GO and NO GO Threadlock Plug Gauges pricing includes handle.

ITEM NO.	THREAD SIZE	PITCH DIAMETERS		PRICE
		GO min. (Basic) All Classes	NO GO (H1) (Maximum) Unified 2B	
TTPGDE2B#00-80	0-80	.0519	.0542	\$85.64
TTPGDE2B#01-64	1-64	.0629	.0655	74.22
TTPGDE2B#01-72	1-72	.0640	.0665	82.78
TTPGDE2B#02-56	2-56	.0744	.0772	60.00
TTPGDE2B#02-56	2-64	.0759	.0786	67.08
TTPGDE2B#03-48	3-48	.0855	.0885	58.00
TTPGDE2B#03-56	3-56	.0874	.0902	67.08
TTPGDE2B#04-40	4-40	.0958	.0991	49.92
TTPGDE2B#04-48	4-48	.0985	.1016	49.92
TTPGDE2B#05-40	5-40	.1088	.1121	49.92
TTPGDE2B#05-44	5-44	.1102	.1134	49.92
TTPGDE2B#06-32	6-32	.1177	.1214	49.92
TTPGDE2B#06-40	6-40	.1218	.1252	49.92
TTPGDE2B#08-32	8-32	.1437	.1475	49.92
TTPGDE2B#08-36	8-36	.1460	.1496	49.92
TTPGDE2B#10-24	10-24	.1629	.1672	49.92
TTPGDE2B#10-32	10-32	.1697	.1736	49.92
TTPGDE2B#12-24	12-24	.1889	.1933	49.92
TTPGDE2B#12-28	12-28	.1928	.1970	49.92
TTPGDE2B016-20	1/4-20	.2175	.2224	46.08
TTPGDE2B016-28	1/4-28	.2268	.2311	49.92
TTPGDE2B016-32	1/4-32	.2297	.2339	49.92
TTPGDE2B020-18	5/16-18	.2764	.2817	46.08
TTPGDE2B020-24	5/16-24	.2854	.2902	49.92

ITEM NO.	THREAD SIZE	PITCH DIAMETERS		PRICE
		GO min. (Basic) All Classes	NO GO (H1) (Maximum) Unified 2B	
TTPGDE2B020-32	5/16-32	.2922	.2964	\$60.00
TTPGDE2B024-16	3/8-16	.3344	.3401	49.92
TTPGDE2B024-24	3/8-24	.3479	.3528	49.92
TTPGDE2B024-32	3/8-32	.3547	.3591	60.00
TTPGDE2B028-14	7/16-14	.3911	.3972	49.92
TTPGDE2B028-20	7/16-20	.4050	.4104	49.92
TTPGDE2B028-28	7/16-28	.4143	.4189	60.00
TTPGDE2B032-13	1/2-13	.4500	.4565	53.24
TTPGDE2B032-20	1/2-20	.4675	.4731	53.24
TTPGDE2B032-28	1/2-28	.4768	.4816	63.90
TTPGDE2B036-12	9/16-12	.5084	.5152	63.90
TTPGDE2B036-18	9/16-18	.5264	.5323	63.90
TTPGDE2B036-24	9/16-24	.5354	.5405	75.60
TTPGDE2B040-11	5/8-11	.5660	.5732	67.50
TTPGDE2B040-18	5/8-18	.5889	.5949	67.50
TTPGDE2B040-24	5/8-24	.5979	.6031	91.80
TTPGDE2B048-10	3/4-10	.6850	.6927	73.50
TTPGDE2B048-16	3/4-16	.7094	.7159	73.50
TTPGDE2B048-20	3/4-20	.7175	.7232	91.80
TTPGDE2B056-09	7/8-9	.8028	.8110	79.00
TTPGDE2B056-14	7/8-14	.8286	.8356	79.00
TTPGDE2B056-20	7/8-20	.8425	.8482	103.80
TTPGDE2B100-08	1-8	.9188	.9276	85.00
TTPGDE2B100-12	1-12	.9459	.9535	85.00

All Taperlock Thread Gauges conform to ANSI B1.2 screw thread standards with class "X" tolerance in every respect.

ICS can also supply the following standard and special screw gauges to your specifications.

- Extra Length
- Acme
- Modified Acme
- Metric
- BSW, BSF, Whitworth
- Special Thread Forms
- Left Hand
- Double Lead
- Triple Lead
- NPSL, NPSM, NPSF, ANPT

HIGH SPEED STEEL PIPE TAPS

ICS **WIS**

GENERAL PURPOSE

GROUND THREAD

Taper Thread

**MEDIUM
HOOK**



**RIGHT HAND
CUT**

NPT (Regular) Ground • NPTF (Dryseal) Ground

High Speed Steel Taper Pipe Taps (NPT) are designed for tapping ferrous and non-ferrous fittings used to connect pipes carrying fluids or gases and other places where very tight fits are needed. NPT threads taper 3/4" per foot and all of the threads on this tap do the cutting as compared to a (NPS) straight pipe tap where only the non-chamfered threads do the cutting. They require a sealant such as Teflon tape or pipe joint compound to prevent leakage of fluids or gases. NPT pipe taps can be used to tap threads to military aeronautical thread specifications (ANPT) and for work requiring ground thread accuracy and performance. (NPTF) Taper Thread Pipe Taps do not require sealants. Dryseal is attained by metal to metal contact.

NOMINAL SIZE	THREADS PER INCH	NO. OF FLUTES	LENGTH OF THREADS	OVERALL LENGTH	HIGH SPEED STEEL		TiN COATED		PIPE TAP DRILL SIZES
					TAPER REGULAR	TAPER REGULAR (DRYSEAL)	TAPER REGULAR	TAPER REGULAR (DRYSEAL)	
					NPT	NPTF	NPTT	NPTFT	
1/16	27	4	11/16	2-1/8	\$17.76	\$17.76	\$31.68	\$31.68	"C"
*1/8	27	4	3/4	2-1/8	17.76	17.76	31.68	31.68	"Q"
1/4	18	4	1-1/16	2-7/16	19.64	19.64	35.02	35.02	7/16
3/8	18	4	1-1/16	2-9/16	28.07	25.52	43.58	43.58	9/16
1/2	14	4	1-3/8	3-1/8	45.10	41.00	59.06	59.06	45/64
3/4	14	5	1-3/8	3-1/4	63.56	63.56	90.46	90.46	29/32
1	11-1/2	5	1-3/4	3-3/4	96.44	96.44	150.54	150.54	1-9/64
1-1/4	11-1/2	5	1-3/4	4	137.24	137.24	257.40	257.40	1-31/64
1-1/2	11-1/2	7	1-3/4	4-1/4	184.18	184.18	304.36	304.36	1-23/32
2	11-1/2	7	1-3/4	4-1/2	250.82	250.82	363.12	363.12	2-3/16
2-1/2	8	8	2-9/16	5-1/2	532.92	532.92	-	-	2-39/64
3	8	8	2-5/8	6	747.82	747.82	-	-	3-15/64
3-1/2	8	8	2-11/16	6-1/2	785.86	-	-	-	3-3/4
4	8	8	2-3/4	6-3/4	1067.12	-	-	-	4-1/4

* Available in large [.4375] or small [.3125] diameter shank. If not specified, large will be shipped.

Interrupted Thread



NPT (Regular) Ground • NPTF (Dryseal) Ground

**MEDIUM
HOOK**

Straight Thread



NPS (Regular) Ground • NPSF (Dryseal) Ground

High Speed Steel Interrupted Thread Pipe Taps (NPTI) are designed for tapping soft or tough stringy metals that tend to load threads with chips. Interrupted Thread Pipe Taps start with a few full threads and then have every other thread removed along the thread helix to provide more chip space, better lubrication, and to reduce drag. (NPTIF) Dryseal Interrupted Thread Pipe Taps do not require a sealant. Dryseal is attained by metal to metal contact. The interrupted thread design prevents tearing of material as tap threads only cut one side at a time.

High Speed Steel Straight Thread Pipe Taps (NPS) are designed for tapping holes or couplings for low pressure work that will adjust at assembly to the taper of external threads. A sealant must be used to secure a pressure tight joint. They may be used to produce NPSC and NPSM threads. (NPSF) Straight Thread Pipe Dryseal Taps do not require a sealant. Dryseal is attained by metal to metal contact. They are primarily used to tap holes that connect oil and fuel lines.

NOMINAL SIZE	THREADS PER INCH	NO. OF FLUTES	HIGH SPEED STEEL	
			TAPER INTERRUPTED	TAPER INTERRUPTED (DRYSEAL)
			NPTI	NPTIF
1/16	27	4	\$24.32	\$24.32
*1/8	27	4	24.32	24.32
1/4	18	4	26.78	26.78
3/8	18	4	34.08	34.08
1/2	14	4	54.22	54.22
3/4	14	5	85.36	85.36
1	11-1/2	5	130.82	130.82
1-1/4	11-1/2	5	183.92	183.92
1-1/2	11-1/2	7	247.06	247.06
2	11-1/2	7	334.84	334.84

NOMINAL SIZE	THREADS PER INCH	NO. OF FLUTES	HIGH SPEED STEEL	
			STRAIGHT	STRAIGHT (DRYSEAL)
			NPS	NPSF
1/16	27	4	\$17.96	\$17.96
*1/8	27	4	17.96	17.96
1/4	18	4	20.94	20.94
3/8	18	4	26.10	26.10
1/2	14	4	47.30	47.30
3/4	14	5	66.58	66.58
1	11-1/2	5	105.06	105.06
1-1/4	11-1/2	5	151.52	151.52
1-1/2	11-1/2	7	202.76	202.76
2	11-1/2	7	276.64	276.64

NOTE: All drilled holes should be reamed before tapping with a pipe reamer having a taper of 3/4" inch per foot – see Pipe Reamers page in Reaming Tools Catalog for correct size.

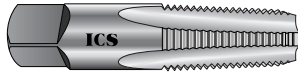
HIGH SPEED STEEL PIPE TAPS

ICS WIS

GENERAL PURPOSE

GROUND THREAD

Left Hand Thread



NPT (L.H. Regular) Ground

**MEDIUM
HOOK**

Long Taper Thread



NPT (Regular) Ground

NOMINAL SIZE	THREADS PER INCH	NO. OF FLUTES	HSS	PIPE TAP DRILL SIZES
			TAPER REGULAR (LEFT HAND) NPTLH	
1/16	27	4	\$28.88	"C"
*1/8	27	4	28.88	"Q"
1/4	18	4	33.66	7/16
3/8	18	4	43.36	9/16
1/2	14	4	62.66	45/64
3/4	14	5	96.50	29/32
1	11-1/2	5	163.88	1-9/64
1-1/4	11-1/2	5	269.62	1-31/64
1-1/2	11-1/2	7	328.22	1-23/32
2	11-1/2	7	531.06	2-3/16

NOMINAL SIZE	THREADS PER INCH	NO. OF FLUTES	HIGH SPEED STEEL	
			6" LENGTH NPT06L	12" LENGTH NPT-12L
1/16	27	4	\$31.10	\$ -
1/8	27	4	31.10	-
1/4	18	4	35.14	55.06
3/8	18	4	46.94	71.02
1/2	14	4	60.48	103.30
3/4	14	5	95.82	130.38
1	11-1/2	5	122.56	176.96

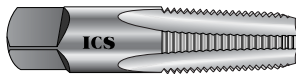
HIGH SPEED STEEL BRITISH (METRIC) STANDARD PIPE TAPS

ICS USA

GENERAL PURPOSE

GROUND THREAD

British (Taper) Standard (Rc)



BSPT (Regular) Ground

**MEDIUM
HOOK**

British (Parallel) Standard (G or Rp)



BSPP (Regular) Ground

High Speed Steel British Standard Pipe Taper Taps (BSPT) are the European equivalent of American Standard Taper Pipe Taps (NPT) and are sometimes referred to as Metric Taper Pipe Taps. They are designed for tapping ferrous and non-ferrous pipe fittings used to connect pipes carrying fluids or gases. They require a sealant such as Teflon tape or pipe joint compound to prevent leakage of fluids or gases. (BSPT) taps are used for work requiring ground thread accuracy and performance.

High Speed Steel British Standard Pipe Parallel Taps (BSPP) are the European equivalent of American Standard Straight Pipe Taps (NPS) and are sometimes referred to as Metric Straight or Parallel Pipe Taps. They are designed for tapping holes or couplings for low pressure work that will adjust at assembly to the taper of external threads. A sealant must be used to secure a pressure-tight joint.

NOMINAL SIZE	THREADS PER INCH	NO. OF FLUTES	HSS	PIPE TAP DRILL SIZES
			BRITISH STANDARD (TAPER) BSPT	
1/8	28	4	\$15.98	5/16
1/4	19	4	17.14	27/64
3/8	19	4	24.00	9/16
1/2	14	4	35.00	11/16
5/8	14	4	44.00	25/32
3/4	14	4	48.40	29/32
7/8	14	4	71.00	1-1/16
1	11	6	74.70	1-1/8
1-1/4	11	6	108.50	1-15/32
1-1/2	11	6	144.50	1-25/32
2	11	6	202.10	2-5/32

NOMINAL SIZE	THREADS PER INCH	NO. OF FLUTES	HSS	PIPE TAP DRILL SIZES
			BRITISH STANDARD (PARALLEL) BSPP	
1/8	28	4	\$15.98	"S"
1/4	19	4	17.14	15/32
3/8	19	4	22.00	19/32
1/2	14	4	35.00	3/4
5/8	14	4	44.00	53/64
3/4	14	4	48.40	31/32
7/8	14	4	71.00	1-7/64
1	11	6	74.70	1-7/32
1-1/4	11	6	108.50	1-9/16
1-1/2	11	6	144.50	1-25/32
2	11	6	202.10	2-1/4

CARBON STEEL TAPER PIPE TAPS

ICS

WIS

GENERAL PURPOSE

CUT THREAD

MEDIUM
HOOK

Carbon Steel Taper Pipe Taps (NPT) are designed for tapping ferrous and non-ferrous pipe fittings used to connect pipes carrying fluids or gases. They are primarily used for maintenance work where ground thread accuracy and performance are not required. A sealant such as Teflon tape or pipe joint compound is necessary to prevent leakage of fluids or gases. All NPT Pipe Taps are furnished with a 2-1/2 to 5-1/2 thread chamfer.

NOMINAL SIZE	THREADS PER INCH	NO. OF FLUTES	FLUTE LENGTH	OVERALL LENGTH	CARBON STEEL		PIPE TAP DRILL SIZES
					TAPER	REGULAR	
1/8	27	4	3/4	2-1/8		\$ 4.14	"Q"
1/4	18	4	1-1/16	2-7/16		5.64	7/16
3/8	18	4	1-1/16	2-9/16		7.92	9/16
1/2	14	4	1-3/8	3-1/8		19.72	45/64
3/4	14	5	1-3/8	3-1/4		30.66	29/32
1	11-1/2	5	1-3/4	3-3/4		40.02	1-9/64
1-1/4	11-1/2	5	1-3/4	4		50.64	1-31/64
1-1/2	11-1/2	7	1-3/4	4-1/4		68.30	1-23/32
2	11-1/2	7	1-3/4	4-1/4		112.10	2-3/16
2-1/2	8	8	2-9/16	5-1/2		175.58	2-39/64
3	8	8	2-5/8	6		251.18	3-15/64
3-1/2	8	8	2-11/16	6-1/2		395.96	3-21/32
4	8	10	2-3/4	6-3/4		490.00	4-15/64
5	8	10	3	7-1/2		925.92	5-19/64
6	8	10	3-5/8	8-1/2		1370.04	6-11/32

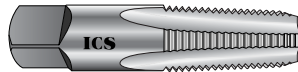
CARBON STEEL BRITISH STANDARD (TAPER) PIPE TAPS

ICS

WIS

GENERAL PURPOSE

CUT THREAD

MEDIUM
HOOK

Carbon Steel British Standard Taper Pipe Taps (BSPT) are the European equivalent of Carbon Steel American Taper Pipe Taps (NPT) and are sometimes referred to as Metric Taper Pipe Taps. They are designed for tapping ferrous and non-ferrous pipe fittings used to connect pipes carrying fluids or gases. They are primarily used for maintenance work where ground thread accuracy and performance are not required. A sealant such as Teflon tape or pipe joint compound is necessary to prevent leakage of fluids or gases. All BSPT pipe threads are tapered 3/4" per foot because tapered threads permit tighter connections than are possible with straight threads.

NOMINAL SIZE	THREADS PER INCH	NO. OF FLUTES	FLUTE LENGTH	OVERALL LENGTH	CARBON STEEL		PIPE TAP DRILL SIZES
					BRITISH STANDARD (TAPER)	CBSPT	
1/8	28	4	3/4	2-1/8		\$5.00	5/16
1/4	19	4	1-1/16	2-7/16		6.42	27/64
3/8	19	4	1-1/16	2-9/16		7.92	9/16
1/2	14	4	1-3/8	3-1/8		19.72	11/16
5/8	14	4	1-3/8	3-3/16		23.52	25/32
3/4	14	4	1-3/8	3-1/4		30.66	29/32
7/8	14	4	1-9/16	3-1/2		32.48	1-1/16
1	11	6	1-3/4	3-3/4		40.02	1-1/8
1-1/4	11	6	1-3/4	4		50.64	1-15/32
1-1/2	11	6	1-3/4	4-1/4		68.30	1-25/32
2	11	6	1-3/4	4-1/2		112.10	2-5/32

TAP EXTENSIONS

ICS **WIS**

SPECIAL PURPOSE



FOR HAND TAPPING ONLY

Tap Extensions are added to the end of a tap to reach into deep narrow locations or in close quarters where it is difficult to turn a tap wrench. More economical than buying special length hand and pipe taps.

ITEM NO.	FOR TAPS			SQUARE TAP SHANK	LENGTH		PRICE
	FRACTIONAL	METRIC	PIPE		FRACTIONAL	METRIC	
TX#06	#6 (1/8)	M3	-	.118	3-9/64	80mm	\$3.50
TX#08	#8 (5/32)	M4	-	.134	3-3/4	95mm	3.90
TX#10	#10	M4,M5	-	.150	3-63/64	100mm	4.30
TX#12	#12 (3/16)	-	1/8	.169	4-1/8	105mm	4.50
TX016	7/32 - 5/16	M5 - M8	-	.193	4-21/64	110mm	5.10
TX024	3/8	M9 - M10	-	.216	4-17/32	115mm	5.80
TX028	7/16	M11	-	.244	4-37/64	120mm	6.30
TX032	1/2	M12	-	.276	4-59/64	125mm	7.10
TX040	9/16 - 5/8	M13 - M16	1/4 - 3/8	.354	5-5/16	135mm	8.40
TX048	11/16 - 3/4	M18	-	.433	5-29/32	150mm	9.60
TX052	13/16	M20	1/2	.511	6-7/64	155mm	10.90
TX056	7/8 - 15/16	M22 - M26	-	.570	6-57/64	175mm	13.60
TX100	1"	M27 - M28	3/4	.630	7-9/32	185mm	16.00

CUSTOM SIZE TAP EXTENSIONS

ICS **USA**

SPECIAL PURPOSE

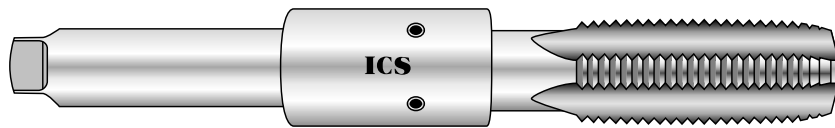


ILLUSTRATION OF 1-3/8 - 6 TAP WITH CUSTOM TAP EXTENSION

Custom Size Tap Extensions for taps over 1" can be manufactured for specific lengths. Inquire for pricing.


QUOTE INFORMATION

QTY _____ TAP SIZE _____ EXTENSION LENGTH REQUIRED _____
 OTHER REQUIREMENTS _____

CARBON STEEL - HIGH SPEED STEEL TAPER PIPE TAP SETS

GENERAL PURPOSE


6 Piece High Speed and Carbon Steel American National Standard Pipe Thread Tap Sets are available in NPT, NPTF, NPS, NPSF, NPT-Interrupted, and NPT-Left hand thread forms. They are made to ANSI B1.20.1-1983 tap dimensions.

	DESCRIPTION	ITEM NO.	STEEL SPEC	CUT	THREAD FORM	PRICE
 <p style="text-align: center;">Sizes 1/8 to 1</p>	6 PC Pipe Tap Set available in hinged wooden case or industrial plastic case. Contents of set is listed below.	TS-CNPT-6	CS	Right Hand	Taper	\$143.86
		TS-NPT-6	HSS	Right Hand	Taper	278.62
		TS-NPTI-6	HSS	Right Hand	Interrupted	362.88
		TS-NPS-6	HSS	Right Hand	Straight	297.04
		TS-NPTL-6	HSS	Left Hand	Reg. Taper	464.78
		SIZES OF PIPE TAPS IN SET				
American – 1/8-27, 1/4-18, 3/8-18, 1/2-14, 3/4-14, 1-11-1/2						

CARBON STEEL - HIGH SPEED STEEL BRITISH STANDARD PIPE TAP SETS

GENERAL PURPOSE

6 Piece High Speed and Carbon Steel British Standard Pipe Thread Tap Sets are available in BSPT and BSPF thread forms. They are made to BS2779-ISO529 tap dimensions.

	DESCRIPTION	ITEM NO.	STEEL SPEC	CUT	THREAD FORM	PRICE
 <p style="text-align: center;">Sizes 1/8 to 1</p>	6 PC Pipe Tap Set available in hinged wooden case or industrial plastic case. Contents of set is listed below.	TS-CBSPT-6	CS	Right Hand	Reg. Taper	\$154.40
		TS-BSPT-6	HSS	Right Hand	Reg. Taper	527.38
		TS-BSPP-6	HSS	Right Hand	Parallel	527.38
		SIZES OF PIPE TAPS IN SET				
British – 1/8-28, 1/4-19, 3/8-19, 1/2-14, 3/4-14, 1-11						

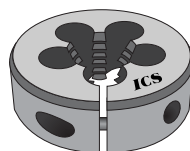
HIGH SPEED STEEL ROUND ADJUSTABLE DIES

ICS

WIS

GENERAL PURPOSE

GROUND THREAD

SCREW ADJUSTING
TYPERIGHT HAND
CUT

BLACK & GOLD OXIDE FINISH

Round Adjustable Dies are designed for cutting external screw threads, either by hand, using a die stock or by machine, using a floating die holder. They also can be used to cut smaller or larger than factory setting by turning the adjusting screw in or out. Dies are manufactured with a 2-3 thread chamfer on front face and a 1-1½ thread chamfer on the rear.

Machine Screw and Fractional Sizes (#0 To 2-1/2" Dia.)

ITEM NO.		SIZE	THREADS PER INCH	DIAMETER OF DIE (NUMERIC/FRACTIONAL)							
ALPHA PREFIX	NUMERIC SIZE - TPI			SUFFIX x DIA	052	100	132	200	232	300	400
					13/16"	1"	1-1/2"	2"	2-1/2"	3"	4"
RAD #00 -	80	x (DIA)	0	80	\$19.60	\$21.06	\$ -	\$ -	\$ -	\$ -	\$ -
RAD #01 -	(TPI) x (DIA)	1	64-72	19.60	21.06	-	-	-	-	-	
RAD #02 -	(TPI) x (DIA)	2	56-64	16.54	21.06	-	-	-	-	-	
RAD #03 -	(TPI) x (DIA)	3	48-56	16.54	21.06	-	-	-	-	-	
RAD #04 -	(TPI) x (DIA)	4	36-40	16.54	21.06	-	-	-	-	-	
RAD #05 -	(TPI) x (DIA)	5	40-44	16.54	21.06	-	-	-	-	-	
RAD #06 -	(TPI) x (DIA)	6	32-40	16.54	21.06	-	-	-	-	-	
RAD #08 -	(TPI) x (DIA)	8	32-36	16.54	21.06	-	-	-	-	-	
RAD #10 -	(TPI) x (DIA)	10	24-32	16.54	21.06	-	-	-	-	-	
RAD #12 -	(TPI) x (DIA)	12	24-28	16.54	21.06	-	-	-	-	-	
RAD 016 -	(TPI) x (DIA)	1/4	20-28	16.54	21.06	33.04	58.36	-	-	-	
RAD 020 -	(TPI) x (DIA)	5/16	18-24	16.54	21.06	33.04	58.36	-	-	-	
RAD 024 -	(TPI) x (DIA)	3/8	16-24	-	21.06	33.04	58.36	-	-	-	
RAD 028 -	(TPI) x (DIA)	7/16	14-20	-	21.06	33.04	58.36	-	-	-	
RAD 032 -	(TPI) x (DIA)	1/2	13-20	-	21.06	33.04	58.36	-	-	-	
RAD 036 -	(TPI) x (DIA)	9/16	12-18	-	-	33.04	58.36	-	-	-	
RAD 040 -	(TPI) x (DIA)	5/8	11-18	-	-	33.04	58.36	-	-	-	
RAD 044 -	(TPI) x (DIA)	11/16	11-16	-	-	33.04	58.36	-	-	-	
RAD 048 -	(TPI) x (DIA)	3/4	10-16	-	-	33.04	58.36	-	-	-	
RAD 056 -	(TPI) x (DIA)	7/8	9-14	-	-	-	58.36	-	-	-	
RAD 100 -	(TPI) x (DIA)	1	8-12-14	-	-	-	58.36	100.50	190.50	-	
RAD 108 -	(TPI) x (DIA)	1-1/8	7-12	-	-	-	-	100.50	190.50	-	
RAD 116 -	(TPI) x (DIA)	1-1/4	7-12	-	-	-	-	100.50	190.50	-	
RAD 124 -	(TPI) x (DIA)	1-3/8	6-12	-	-	-	-	100.50	190.50	-	
RAD 132 -	(TPI) x (DIA)	1-1/2	6-12	-	-	-	-	100.50	190.50	-	
RAD 148 -	(TPI) x (DIA)	1-3/4	5-1/2 - 12	-	-	-	-	-	190.50	-	
RAD 200 -	(TPI) x (DIA)	2	4-1/2 - 12	-	-	-	-	-	190.50	-	
RAD 216 -	(TPI) x (DIA)	2-1/4	4-1/2 - 12	-	-	-	-	-	-	268.80	
RAD 232 -	(TPI) x (DIA)	2-1/2	4-12	-	-	-	-	-	-	268.80	

NOTE

Larger Right Hand Dies are available upon request.

**Quick
Link**
Die Stocks, Holders, and Adapters
are on page 248.

HIGH SPEED STEEL LEFT HAND ROUND ADJUSTABLE DIES

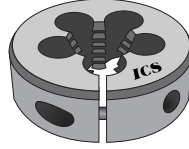
ICS

WIS

SPECIAL PURPOSE

GROUND THREAD

SCREW ADJUSTING
TYPE



LEFT HAND
CUT

BLACK & GOLD OXIDE FINISH

Machine Screw and Fractional Sizes (#0 To 2" Dia.)

ITEM NO.					DIAMETER OF DIE (NUMERIC/FRACTIONAL)					
ALPHA PREFIX	NUMERIC SUFFIX		SIZE	THREADS PER INCH	052	100	132	200	232	300
	SIZE	- TPI x DIA			13/16"	1"	1-1/2"	2"	2-1/2"	3"
RADL #00	(TPI)	x (DIA)	0	80	\$29.12	\$ -	\$ -	\$ -	\$ -	\$ -
RADL #02	(TPI)	x (DIA)	2	56-64	29.12	-	-	-	-	-
RADL #04	(TPI)	x (DIA)	4	40-48	-	24.64	-	-	-	-
RADL #05	(TPI)	x (DIA)	5	40-44	-	24.64	-	-	-	-
RADL #06	(TPI)	x (DIA)	6	32-40	-	24.64	-	-	-	-
RADL #08	(TPI)	x (DIA)	8	32-36	-	24.64	-	-	-	-
RADL #10	(TPI)	x (DIA)	10	24-32	-	24.64	-	-	-	-
RADL #12	(TPI)	x (DIA)	12	24-28	-	24.64	-	-	-	-
RADL 016	(TPI)	x (DIA)	1/4	20-28	-	24.64	39.20	-	-	-
RADL 020	(TPI)	x (DIA)	5/16	18-24	-	24.64	39.20	-	-	-
RADL 024	(TPI)	x (DIA)	3/8	16-24	-	24.64	39.20	-	-	-
RADL 028	(TPI)	x (DIA)	7/16	14-20	-	24.64	39.20	-	-	-
RADL 032	(TPI)	x (DIA)	1/2	13-20	-	24.64	39.20	-	-	-
RADL 036	(TPI)	x (DIA)	9/16	12-18	-	-	39.20	-	-	-
RADL 040	(TPI)	x (DIA)	5/8	11-18	-	-	39.20	-	-	-
RADL 044	(TPI)	x (DIA)	11/16	11-16	-	-	39.20	-	-	-
RADL 048	(TPI)	x (DIA)	3/4	10-16	-	-	39.20	68.88	-	-
RADL 056	(TPI)	x (DIA)	7/8	9-14	-	-	-	68.88	-	-
RADL 100	(TPI)	x (DIA)	1	8-12-14	-	-	-	68.88	-	-
RADL 108	(TPI)	x (DIA)	1-1/8	7-12	-	-	-	-	95.76	-
RADL 116	(TPI)	x (DIA)	1-1/4	7-12	-	-	-	-	95.76	-
RADL 124	(TPI)	x (DIA)	1-3/8	6-12	-	-	-	-	95.76	-
RADL 132	(TPI)	x (DIA)	1-1/2	6-12	-	-	-	-	95.76	-
RADL 148	(TPI)	x (DIA)	1-3/4	5	-	-	-	-	-	171.36
RADL 200	(TPI)	x (DIA)	2	4-1/2	-	-	-	-	-	171.36

Metric Sizes (2.0mm To 20.0mm Dia.)

ITEM NO.					DIAMETER OF DIE	
ALPHA PREFIX	NUMERIC SUFFIX		SIZE (mm)	PITCH (mm)	100	132
	SIZE	x PITCH x DIA			1"	1-1/2"
RADML 02.0	x (PITCH)	x (DIA)	M2	.40	\$26.88	\$ -
RADML 02.5	x (PITCH)	x (DIA)	M2.5	.45	26.88	-
RADML 03.0	x (PITCH)	x (DIA)	M3	.50	26.88	-
RADML 03.5	x (PITCH)	x (DIA)	M3.5	.60	26.88	-
RADML 04.0	x (PITCH)	x (DIA)	M4	.70	26.88	-
RADML 05.0	x (PITCH)	x (DIA)	M5	.80	26.88	-
RADML 06.0	x (PITCH)	x (DIA)	M6	1.00	26.88	-
RADML 07.0	x (PITCH)	x (DIA)	M7	1.00	26.88	-
RADML 08.0	x (PITCH)	x (DIA)	M8	1.25	26.88	-
RADML 10.0	x (PITCH)	x (DIA)	M10	1.25-1.50	26.88	-
RADML 12.0	x (PITCH)	x (DIA)	M12	1.25-1.75	26.88	39.20
RADML 14.0	x (PITCH)	x (DIA)	M14	1.50-2.00	-	39.20
RADML 16.0	x (PITCH)	x (DIA)	M16	1.50-2.00	-	39.20
RADML 18.0	x (PITCH)	x (DIA)	M18	1.50-2.50	-	39.20
RADML 20.0	x (PITCH)	x (DIA)	M20	1.50-2.50	-	39.20

NOTE

Larger Left Hand Dies are available. Consult factory for pricing.

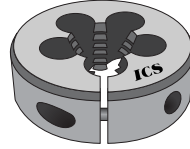
HIGH SPEED STEEL ROUND ADJUSTABLE (METRIC) DIES

ICS

WIS

GENERAL PURPOSE

GROUND THREAD

SCREW ADJUSTING
TYPERIGHT HAND
CUT

BLACK & GOLD FINISH

Standard Metric Sizes (1.0mm To 52.0mm Dia.)

ITEM NO.		SIZE mm	METRIC PITCH		DIAMETER OF DIE (NUMERIC/FRACTIONAL)					
ALPHA PREFIX	NUMERIC SUFFIX SIZE x PITCH x DIA		COARSE PITCH	FINE PITCH	052	100	132	200	232	300
					13/16"	1"	1-1/2"	2"	2-1/2"	3"
RADM 01.0 x (PITCH) x (DIA)	M1	.25	-	\$24.64	\$ -	\$ -	\$ -	\$ -	\$ -	
RADM 01.2 x (PITCH) x (DIA)	M1.2	.25	-	24.64	-	-	-	-	-	
RADM 01.6 x (PITCH) x (DIA)	M1.6	.35	-	24.64	21.06	-	-	-	-	
RADM 01.8 x (PITCH) x (DIA)	M1.8	.35	-	24.64	21.06	-	-	-	-	
RADM 02.0 x (PITCH) x (DIA)	M2	.40	-	22.40	21.06	-	-	-	-	
RADM 02.2 x (PITCH) x (DIA)	M2.2	.45	-	22.40	21.06	-	-	-	-	
RADM 02.5 x (PITCH) x (DIA)	M2.5	.45	-	22.40	21.06	-	-	-	-	
RADM 03.0 x (PITCH) x (DIA)	M3	.50	.35	22.40	21.06	-	-	-	-	
RADM 03.5 x (PITCH) x (DIA)	M3.5	.60	.35	22.40	21.06	-	-	-	-	
RADM 04.0 x (PITCH) x (DIA)	M4	.70	.50	22.40	21.06	-	-	-	-	
RADM 04.5 x (PITCH) x (DIA)	M4.5	.75	.50	22.40	21.06	-	-	-	-	
RADM 05.0 x (PITCH) x (DIA)	M5	.80	.50	22.40	21.06	-	-	-	-	
RADM 06.0 x (PITCH) x (DIA)	M6	1.00	.75	22.40	21.06	33.04	-	-	-	
RADM 06.3 x (PITCH) x (DIA)	M6.3	1.00	-	-	21.06	-	-	-	-	
RADM 07.0 x (PITCH) x (DIA)	M7	1.00	.75	-	21.06	33.04	-	-	-	
RADM 08.0 x (PITCH) x (DIA)	M8	1.25	1.00	-	21.06	33.04	-	-	-	
RADM 09.0 x (PITCH) x (DIA)	M9	1.25	1.00	-	21.06	33.04	-	-	-	
RADM 10.0 x (PITCH) x (DIA)	M10	1.50	1.25	-	21.06	33.04	-	-	-	
RADM 11.0 x (PITCH) x (DIA)	M11	1.50	1.25	-	21.06	33.04	-	-	-	
RADM 12.0 x (PITCH) x (DIA)	M12	1.75	1.25	-	21.06	33.04	-	-	-	
RADM 14.0 x (PITCH) x (DIA)	M14	2.00	1.50	-	-	33.04	-	-	-	
RADM 16.0 x (PITCH) x (DIA)	M16	2.00	1.50	-	-	33.04	58.80	-	-	
RADM 18.0 x (PITCH) x (DIA)	M18	2.50	1.50	-	-	33.04	58.80	-	-	
RADM 20.0 x (PITCH) x (DIA)	M20	2.50	1.50	-	-	33.04	58.80	-	-	
RADM 22.0 x (PITCH) x (DIA)	M22	2.50	1.50	-	-	-	58.80	-	-	
RADM 24.0 x (PITCH) x (DIA)	M24	3.00	2.00	-	-	-	58.80	100.50	-	
RADM 27.0 x (PITCH) x (DIA)	M27	3.00	2.00	-	-	-	58.80	100.50	-	
RADM 30.0 x (PITCH) x (DIA)	M30	3.50	2.00	-	-	-	58.80	100.50	-	
RADM 33.0 x (PITCH) x (DIA)	M33	3.50	2.00	-	-	-	-	100.50	-	
RADM 36.0 x (PITCH) x (DIA)	M36	4.00	3.00	-	-	-	-	100.50	190.50	
RADM 39.0 x (PITCH) x (DIA)	M39	4.00	3.00	-	-	-	-	-	190.50	
RADM 42.0 x (PITCH) x (DIA)	M42	4.50	-	-	-	-	-	-	190.50	
RADM 45.0 x (PITCH) x (DIA)	M45	4.50	-	-	-	-	-	-	190.50	
RADM 48.0 x (PITCH) x (DIA)	M48	5.00	-	-	-	-	-	-	190.50	
RADM 52.0 x (PITCH) x (DIA)	M52	5.00	-	-	-	-	-	-	190.50	

NOTE

Larger Metric Size Dies are available upon request.

HIGH SPEED STEEL ROUND ADJUSTABLE (SPECIAL METRIC) DIES

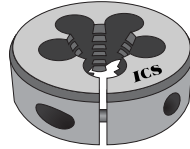
ICS

WIS

GENERAL PURPOSE

GROUND THREAD

**SCREW ADJUSTING
TYPE**



**RIGHT HAND
CUT**

BLACK & GOLD FINISH

Special Metric Sizes (1.7mm To 52.0mm Dia.)

SIZE mm	METRIC PITCH	HSS RADMS
1" ROUND DIE		
M1.7	.20 - .35	\$24.64
M2	.25	24.64
M2.3	.40	24.64
M2.5	.50	24.64
M2.6	.35 - .45	24.64
M3	.60 - .75	24.64
M3.5	.50	24.64
M4	.35 - .60 - .75 - 1.00	24.64
M4.5	1.00	24.64
M5	.75 - .90 - 1.00	24.64
M5.5	.50 - .70 - .90	24.64
M6	.50 - 1.25 - 1.50	24.64
M7	.50 - 1.25	24.64
M8	.50 - .75 - 1.50 - 1.75	24.64
M9	.50 - .75 - 1.50 - 1.75	24.64
M10	.50 - .75 - 1.00 - 1.75 - 2.00	24.64
M11	.50 - .75 - 1.00 - 1.75 - 2.00	24.64
M12	.50 - .75 - 1.00 - 1.50 - 2.00	24.64
1-1/2" ROUND DIE		
M9	.50 - .75	39.20
M10	.50 - .75 - 1.00	39.20
M11	.50 - .75 - 1.00	39.20
M12	.50 - .75 - 1.00 - 1.50 - 2.00	39.20
M13	.50 - .75 - 1.00 - 1.25 - 1.50 - 1.75 - 2.00	39.20
M14	.50 - .75 - 1.00 - 1.25 - 1.75	39.20
M15	.50 - 1.00 - 1.50 - 2.00	39.20
M16	.50 - .75 - 1.00 - 1.25 - 1.75	39.20
M17	.50 - 1.00 - 1.50 - 2.00	39.20
M18	.50 - 1.00 - 1.25 - 1.75 - 2.00	39.20
M19	.50 - 1.00 - 1.50 - 2.00	39.20
M20	1.00 - 1.25 - 1.75 - 2.00	39.20

SIZE mm	METRIC PITCH	HSS RADMS
2" ROUND DIE		
M18	1.00	\$68.88
M19	1.50	68.88
M20	1.00 - 1.25 - 2.00	68.88
M21	1.00 - 1.50 - 2.00 - 2.50	68.88
M22	1.00 - 2.00	68.88
M23	1.00 - 1.50 - 2.00 - 2.50	68.88
M24	1.50	68.88
M25	1.00 - 1.50 - 2.00 - 2.50	68.88
M26	1.50 - 2.00	68.88
M30	1.50	68.88
2-1/2" ROUND DIE		
M24	1.50	100.50
M25	1.00 - 1.50 - 2.00	100.50
M26	1.50	100.50
M27	1.00 - 1.50	100.50
M28	1.00 - 1.50 - 2.00	100.50
M30	1.00 - 1.50 - 3.00	100.50
M32	1.50	100.50
M33	1.50	100.50
M34	1.50	100.50
M35	1.00 - 1.50	100.50
M36	1.50 - 2.00	100.50
M38	1.50	100.50
3" ROUND DIE		
M38	1.50	190.50
M39	1.50	190.50
M40	1.50	190.50
M42	1.50 - 3.00	190.50
M45	1.50 - 3.00	190.50
M48	1.50 - 3.00	190.50
M50	1.50	190.50
M52	1.50 - 3.00	190.50

NOTE

Larger Special Size Metric Dies are available upon request.

HIGH SPEED STEEL ROUND ADJUSTABLE (SPECIAL THREAD) DIES

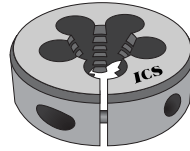
ICS

WIS

GENERAL PURPOSE

GROUND THREAD

**SCREW ADJUSTING
TYPE**



**RIGHT HAND
CUT**

BLACK & GOLD FINISH

Special Machine Screw and Fractional Sizes (#4 To 3-1/2")

SIZE	THREADS PER INCH	HSS RADS
1" ROUND DIE		
#4	36-56-60-64	\$26.88
#5	48-56-64	26.88
#6	30-36-48-56	24.64
#8	24-30-40-48-56	24.64
#10	26-27-28-30-36-40-48-56	24.64
#12	26-27-30-32-36-40-48-56	24.64
#14	27-28-30-32-48	24.64
1/4	14-16-18-22-24-26-27-30-32-36-40-48	24.64
1/4	56-64	24.64
5/16	16-20-22-27-28-30-32-36-40-48-56	24.64
3/8	14-18-20-22-26-27-28-30-32-36-40-48	24.64
7/16	16-18-24-27-28-30-32-36-40	24.64
1/2	12-14-16-18-22-24-27-28-30-32-36	24.64
1/2	40-48	24.64
1-1/2" ROUND DIE		
1/4	22-24-27-30-32-36-40-48	39.20
5/16	16-20-22-27-28-30-32-36-40-48	39.20
3/8	14-18-20-22-26-27-28-30-32-36-40-48	39.20
7/16	12-16-18-22-24-27-28-30-32-36-40-48	39.20
15/32	32	39.20
1/2	12-14-16-18-22-24-27-28-30-32-36-40	39.20
1/2	48-56	39.20
9/16	14-16-20-22-24-27-28-30-32-36-40	39.20
5/8	10-12-14-16-20-22-24-26-27-28-30-32	39.20
5/8	36-40-48	39.20
11/16	12-14-18-20-24-27-30-32	39.20
3/4	12-14-18-20-24-27-28-30-32-36-40-48	39.20
13/16	10-12-16-20-24-28-32	39.20
2" ROUND DIE		
7/16	18-24	68.88
1/2	12-16-18-24-27-28-30-32	68.88
9/16	14-20-24-27-28-30-32-36	68.88
5/8	10-12-14-16-20-24-27-28-30-32-40	68.88
11/16	12-14-18-20-24-27-32-36-40	68.88
3/4	12-14-18-20-24-27-28-32-36-40	68.88
13/16	10-12-14-16-18-20-24-27-30-32-36-40	68.88
7/8	10-12-16-18-20-24-27-28-30-32-36-40	68.88
15/16	10-12-14-16-18-20-24-27-30-32	68.88
1	10-16-18-20-24-27-28-30-32-36-40	68.88
1	48-56	68.88
1-1/16	12-14-16-18	68.88

SIZE	THREADS PER INCH	HSS RADS
2-1/2" ROUND DIE		
1	10-16-18-20-24-26-27-28-32	\$100.50
1-1/16	7-8-10-12-14-16-18-20-24-28	100.50
1-1/8	8-10-14-16-18-20-24-27-28-30-32	100.50
1-3/16	7-8-12-14-16-18-20-24-27-28-32	100.50
1-1/4	8-10-14-16-18-20-24-27-28-30-32-36-40	100.50
1-5/16	8-12-14-16-18-20-24-27-32	100.50
1-3/8	7-8-10-14-16-18-20-24-27-32	100.50
1-7/16	6-8-12-16-18	100.50
1-1/2	7-8-10-14-16-18-20-24-27-30-32	100.50
3" ROUND DIE		
1	10-16-18-20-24	190.50
1-1/16	8-10-12-14-16-18-20-24	190.50
1-1/8	8-10-14-16-18-20-24	190.50
1-3/16	8-12-16	190.50
1-1/4	6-8-10-14-16-18-20-24	190.50
1-5/16	8-10-12-14-16-18-20	190.50
1-3/8	8-10-14-16-18-20-24	190.50
1-7/16	6-8-12-16-18	190.50
1-1/2	8-10-14-16-18-20-24	190.50
1-9/16	6-8-12-16-18	190.50
1-5/8	5-5-1/2-6-8-10-12-14-18-20	190.50
1-11/16	6-8-12-18	190.50
1-3/4	5-1/2-6-8-10-14-16-20-24	190.50
1-7/8	5-5-1/2-6-8-10-12-14-16-18-20	190.50
2	4-6-8-10-12-14-16-18-20-24	190.50
4" ROUND DIE		
2-1/8	18	CALL FOR PRICE
2-1/4	8-16	
2-3/8	16	
2-1/2	8	
2-3/4	12	
3	8	
5" ROUND DIE		
2-5/8	12-16	CALL FOR PRICE
2-3/4	8-12	
3-1/4	12	
3-1/2	12	

HIGH SPEED STEEL ROUND ADJUSTABLE (TAPER PIPE) DIES

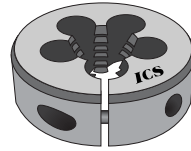
ICS

WIS

GENERAL PURPOSE

GROUND THREAD

SCREW ADJUSTING
TYPE



RIGHT HAND
CUT

BLACK & GOLD FINISH

Fractional Sizes (1/16 To 3" Dia.)

ITEM NO.				DIAMETER OF DIE (NUMERIC/FRACTIONAL)							
ALPHA PREFIX	NUMERIC SIZE	SUFFIX TPI x DIA	SIZE	THREADS PER INCH	100 1"	132 1-1/2"	200 2"	232 2-1/2"	300 3"	400 4"	500 5"
RADP 004	- 27	x (DIA)	1/16	27	\$24.64	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RADP 008	- 27	x (DIA)	1/8	27	24.64	39.20	-	-	-	-	-
RADP 016	- 18	x (DIA)	1/4	18	-	39.20	68.88	-	-	-	-
RADP 024	- 18	x (DIA)	3/8	18	-	39.20	68.88	-	-	-	-
RADP 032	- 14	x (DIA)	1/2	14	-	39.20	68.88	-	-	-	-
RADP 048	- 14	x (DIA)	3/4	14	-	-	68.88	-	-	-	-
RADP 100	- 11.5	x (DIA)	1	11-1/2	-	-	-	95.76	-	-	-
RADP 116	- 11.5	x (DIA)	1-1/4	11-1/2	-	-	-	-	171.36	-	-
RADP 132	- 11.5	x (DIA)	1-1/2	11-1/2	-	-	-	-	171.36	-	-
RADP 200	- 11.5	x (DIA)	2	11-1/2	-	-	-	-	-	298.38	-
RADP 232	- 08	x (DIA)	2-1/2	8	-	-	-	-	-	-	401.20
RADP 300	- 08	x (DIA)	3	8	-	-	-	-	-	-	401.20

HIGH SPEED STEEL

ROUND ADJUSTABLE (STRAIGHT PIPE) DIES

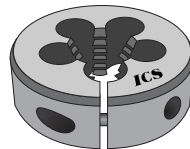
ICS

WIS

GENERAL PURPOSE

GROUND THREAD

SCREW ADJUSTING
TYPE



RIGHT HAND
CUT

BLACK & GOLD FINISH

Fractional Sizes (1/16 To 2" Dia.)

ITEM NO.				DIAMETER OF DIE (NUMERIC/FRACTIONAL)						
ALPHA PREFIX	NUMERIC SIZE	SUFFIX TPI x DIA	SIZE	THREADS PER INCH	100 1"	132 1-1/2"	200 2"	232 2-1/2"	300 3"	400 4"
RADPS 004	- 27	x (DIA)	1/16	27	\$24.64	-	-	-	-	-
RADPS 008	- 27	x (DIA)	1/8	27	24.64	39.20	68.88	-	-	-
RADPS 016	- 18	x (DIA)	1/4	18	-	39.20	68.88	-	-	-
RADPS 024	- 18	x (DIA)	3/8	18	-	39.20	68.88	-	-	-
RADPS 032	- 14	x (DIA)	1/2	14	-	39.20	68.88	-	-	-
RADPS 048	- 14	x (DIA)	3/4	14	-	-	68.88	-	-	-
RADPS 100	- 11.5	x (DIA)	1	11-1/2	-	-	-	98.66	-	-
RADPS 116	- 11.5	x (DIA)	1-1/4	11-1/2	-	-	-	-	181.06	-
RADPS 132	- 11.5	x (DIA)	1-1/2	11-1/2	-	-	-	-	181.06	-
RADPS 200	- 11.5	x (DIA)	2	11-1/2	-	-	-	-	-	389.50

NOTE

Larger Pipe Dies are available. Consult factory for pricing.

HIGH SPEED STEEL

BRITISH ROUND ADJUSTABLE (TAPER PIPE) DIES

ICS

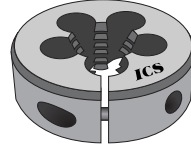
WIS

GENERAL PURPOSE

GROUND THREAD

British (BSPT) Standard Pipe Taper Thread Dies are the metric/European equivalent of American (NPT) Standard Pipe Taper Threads. **Note:** American and British Standards are not interchangeable.

**SCREW ADJUSTING
TYPE**



**RIGHT HAND
CUT**

BLACK & GOLD FINISH

Fractional Sizes (1/8 To 2" Dia.)

ITEM NO.				DIAMETER OF DIE (NUMERIC/FRACTIONAL)					
ALPHA PREFIX	NUMERIC SUFFIX SIZE - TPI x DIA	SIZE	THREADS PER INCH	100 1"	132 1-1/2"	200 2"	232 2-1/2"	300 3"	400 4"
BSPTD 008	- 28 x (DIA)	1/8	28	37.60	-	-	-	-	-
BSPTD 016	- 19 x (DIA)	1/4	19	-	59.20	-	-	-	-
BSPTD 024	- 19 x (DIA)	3/8	19	-	59.20	-	-	-	-
BSPTD 032	- 14 x (DIA)	1/2	14	-	-	76.00	-	-	-
BSPTD 040	- 14 x (DIA)	5/8	14	-	-	76.00	-	-	-
BSPTD 048	- 14 x (DIA)	3/4	14	-	-	76.00	-	-	-
BSPTD 056	- 14 x (DIA)	7/8	14	-	-	-	104.00	-	-
BSPTD 100	- 11 x (DIA)	1	11	-	-	-	104.00	-	-
BSPTD 116	- 11 x (DIA)	1-1/4	11	-	-	-	-	187.00	-
BSPTD 132	- 11 x (DIA)	1-1/2	11	-	-	-	-	187.00	-
BSPTD 200	- 11 x (DIA)	2	11	-	-	-	-	-	350.00

HIGH SPEED STEEL

BRITISH ROUND ADJUSTABLE (PARALLEL PIPE) DIES

ICS

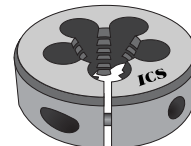
WIS

GENERAL PURPOSE

GROUND THREAD

British (BSPP) Standard Pipe Parallel Thread Dies are the metric/European equivalent of American (NPS) Standard Pipe Straight Threads. **Note:** American and British Standards are not interchangeable.

**SCREW ADJUSTING
TYPE**



**RIGHT HAND
CUT**

BLACK & GOLD FINISH

Fractional Sizes (1/8 To 2" Dia.)

ITEM NO.				DIAMETER OF DIE (NUMERIC/FRACTIONAL)					
ALPHA PREFIX	NUMERIC SUFFIX SIZE - TPI x DIA	SIZE	THREADS PER INCH	100 1"	132 1-1/2"	200 2"	232 2-1/2"	300 3"	400 4"
BSPPD 008	- 28 x (DIA)	1/8	27	37.60	-	-	-	-	-
BSPPD 016	- 19 x (DIA)	1/4	18	-	59.20	-	-	-	-
BSPPD 024	- 19 x (DIA)	3/8	18	-	59.20	-	-	-	-
BSPPD 032	- 14 x (DIA)	1/2	14	-	-	76.00	-	-	-
BSPPD 040	- 14 x (DIA)	5/8	14	-	-	76.00	-	-	-
BSPPD 048	- 14 x (DIA)	3/4	14	-	-	76.00	-	-	-
BSPPD 056	- 14 x (DIA)	7/8	14	-	-	-	104.00	-	-
BSPPD 100	- 11 x (DIA)	1	11	-	-	-	104.00	-	-
BSPPD 116	- 11 x (DIA)	1-1/4	11	-	-	-	-	187.00	-
BSPPD 132	- 11 x (DIA)	1-1/2	11	-	-	-	-	187.00	-
BSPPD 200	- 11 x (DIA)	2	11	-	-	-	-	-	350.00

NOTE Larger Pipe Dies are available. Consult factory for pricing.

HIGH SPEED STEEL**BEARING LOCKNUT HEXAGON RETHREADING DIES****ICS****USA****HEAVY DUTY****GROUND THREAD**

High Speed Steel Bearing Locknut Hexagon Rethreading Dies are designed for rethreading damaged threads on bearing locknut spindles and to clean out built up locking compound on threads. All dies conform to ABMA (American Bearing Manufacturer's Association) standards.

ITEM NO.	ABMA LOCKNUT NO.	THREAD SIZE	DIA ACROSS FLATS	PRICE
BLHTD#00	#00	.391 - 32	7/8	CALL FOR PRICE
BLHTD#01	#01	.469 - 32	1-1/16	
BLHTD#02	#02	.586 - 32	1-1/4	
BLHTD#03	#03	.664 - 32	1-7/16	
BLHTD#04	#04	.781 - 32	1-5/8	
BLHTD#05	#05	.969 - 32	1-13/16	
BLHTD#06	#06	1.173 - 32	2-3/16	
BLHTD#07	#07	1.376 - 18	2-3/8	
BLHTD#08	#08	1.563 - 18	3-1/8	
BLHTD#09	#09	1.767 - 18	3-1/8	
BLHTD#10	#10	1.967 - 18	3-1/2	
BLHTD#11	#11	2.157 - 18	3-1/2	
BLHTD#12	#12	2.360 - 18	4-1/2	
BLHTD#13	#13	2.548 - 18	4-1/2	

ITEM NO.	ABMA LOCKNUT NO.	THREAD SIZE	DIA ACROSS FLATS	PRICE
BLHTD#14	#14	2.751 - 18	4-1/2	CALL FOR PRICE
BLHTD#15	#15	2.933 - 12	5	
BLHTD#16	#16	3.137 - 12	5	
BLHTD#17	#17	3.340 - 12	5	
BLHTD#18	#18	3.527 - 12	6	
BLHTD#19	#19	3.730 - 12	6	
BLHTD#20	#20	3.918 - 12	6	
BLHTD#21	#21	4.122 - 12	7	
BLHTD#22	#22	4.325 - 12	7	
BLHTD#24	#24	4.716 - 12	7	
BLHTD#26	#26	5.106 - 12	8	
BLHTD#28	#28	5.497 - 12	8	
BLHTD#30	#30	5.888 - 12	8	

CARBON STEEL**BEARING LOCKNUT HEXAGON RETHREADING DIES****ICS****USA****GENERAL PURPOSE****CUT THREAD**

Carbon Steel Bearing Locknut Hexagon Rethreading Dies are designed for rethreading damaged threads on bearing locknut spindles and to clean out built up locking compound on threads. All dies conform to ABMA (American Bearing Manufacturer's Association) standards.

ITEM NO.	ABMA LOCKNUT NO.	THREAD SIZE	DIA ACROSS FLATS	PRICE
BLHRD#00	#00	.391 - 32	7/8	CALL FOR PRICE
BLHRD#01	#01	.469 - 32	1-1/16	
BLHRD#02	#02	.586 - 32	1-1/4	
BLHRD#03	#03	.664 - 32	1-7/16	
BLHRD#04	#04	.781 - 32	1-5/8	
BLHRD#05	#05	.969 - 32	1-13/16	
BLHRD#06	#06	1.173 - 32	2-3/16	
BLHRD#07	#07	1.376 - 18	2-3/8	
BLHRD#08	#08	1.563 - 18	3-1/8	
BLHRD#09	#09	1.767 - 18	3-1/8	
BLHRD#10	#10	1.967 - 18	3-1/2	
BLHRD#11	#11	2.157 - 18	3-1/2	
BLHRD#12	#12	2.360 - 18	4-1/2	
BLHRD#13	#13	2.548 - 18	4-1/2	

ITEM NO.	ABMA LOCKNUT NO.	THREAD SIZE	DIA ACROSS FLATS	PRICE
BLHRD#14	#14	2.751 - 18	4-1/2	CALL FOR PRICE
BLHRD#15	#15	2.933 - 12	5	
BLHRD#16	#16	3.137 - 12	5	
BLHRD#17	#17	3.340 - 12	5	
BLHRD#18	#18	3.527 - 12	6	
BLHRD#19	#19	3.730 - 12	6	
BLHRD#20	#20	3.918 - 12	6	
BLHRD#21	#21	4.122 - 12	7	
BLHRD#22	#22	4.325 - 12	7	
BLHRD#24	#24	4.716 - 12	7	
BLHRD#26	#26	5.106 - 12	8	
BLHRD#28	#28	5.497 - 12	8	
BLHRD#30	#30	5.888 - 12	8	

COBALT
AUTOMATIC THREAD DIES

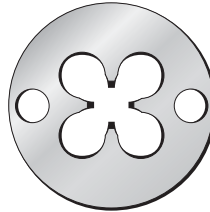
ICS

WIS

SPECIAL PURPOSE

GROUND THREAD

**2.60MM DIAMETER
 HOLDING HOLES**



**RIGHT HAND
 CUT**

GOLD COBALT FINISH

Cobalt Automatic Thread Dies are designed for automatic thread cutting machines and lathes with 2 holding holes. Their solid cobalt construction design guarantees a precise repetitive accuracy and longer tool life than regular HSS dies.

ITEM NO.	THREAD SIZE	DIAMETER OF DIE	THICKNESS OF DIE	PRICE
ATDC#00-80	#0-80	16.00mm	3.75mm	\$36.00
ATDC#02-56	#2-56	16.00mm	3.75mm	36.00
ATDC#04-40	#4-40	16.00mm	3.75mm	36.00
ATDC#06-32	#6-32	16.00mm	3.75mm	36.00
ATDC#08-32	#8-32	16.00mm	3.75mm	36.00
ATDC#10-32	#10-32	16.00mm	3.75mm	36.00
ATDC#12-28	#12-28	16.00mm	3.75mm	36.00

HIGH SPEED STEEL BRITISH ROUND ADJUSTABLE DIES

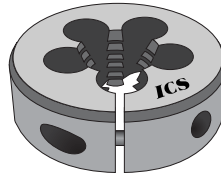
ICS

USA

GENERAL PURPOSE

GROUND THREAD

**PLAIN
ADJUSTABLE**



**RIGHT HAND
CUT**

SIZE	THREADS PER INCH	HSS BRAD
1" ROUND DIE		
0	25.4	\$36.96
1	28.4	36.96
2	31.4	36.96
3	34.8	36.96
4	38.5	36.96
5	43.0	36.96
6	47.9	36.96
7	52.9	36.96
8	59.1	36.96
9	65.1	36.96
10	72.6	36.96
12	90.7	36.96
13/16" ROUND DIE		
1/8	40	\$29.68
3/16	24 - 32	29.68
1" ROUND DIE		
1/4	20 - 26	\$36.96
5/16	18 - 22	36.96
3/8	16 - 20	36.96
1-1/2" ROUND DIE		
3/8	16 - 20	\$58.24
7/16	14 - 18	58.24
1/2	12 - 16	58.24

SIZE	THREADS PER INCH	HSS BRAD
1-1/2" ROUND DIE		
9/16	12 - 16	\$58.24
5/8	11 - 14	58.24
2" ROUND DIE		
1/2	12 - 16	\$103.04
9/16	12 - 16	103.04
5/8	11 - 14	103.04
3/4	10 - 12	103.04
7/8	9 - 11	103.04
1	8 - 10	103.04
2-1/2" ROUND DIE		
3/4	10 - 12	\$157.92
7/8	9 - 11	157.92
1	8 - 10	157.92
1-1/8	7 - 9	157.92
3" ROUND DIE		
1-1/8	7 - 9	\$207.20
1-1/4	7 - 9	207.20
1-3/8	6 - 8	207.20
1-1/2	6 - 8	207.20

Sizes not listed are available. Consult factory for pricing.

CARBON STEEL BRITISH HEXAGON RETHREADING DIES

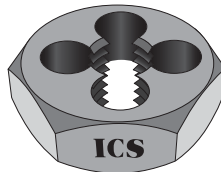
ICS

USA

GENERAL PURPOSE

CUT THREAD

**HEX NUT DIA.
ACROSS FLATS**



**RIGHT HAND
CUT**

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE BHRD
3/16	24	.710	\$17.92
1/4	20 - 26	.710	18.16
5/16	18 - 22	.820	20.00
3/8	16 - 20	.920	21.28
7/16	14 - 18	1.010	23.94
1/2	12 - 16	1.100	25.94

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE BHRD
9/16	12 - 16	1.300	\$27.60
5/8	11 - 14	1.300	31.58
3/4	10 - 12	1.480	42.08
7/8	9 - 11	1.670	47.20
1	8 - 10	2.050	53.86

TOOL STEEL

HEXAGON (STANDARD SIZES) RETHREADING DIES

ICS

WIS

GENERAL PURPOSE

CUT THREAD

**HEX NUT DIA.
ACROSS FLATS**



**RIGHT HAND
CUT**

Hexagon (Hex Nut Dia.) Rethreading Dies are designed extra thick for rethreading damaged or jammed threads and can be used to work in places where round die stocks cannot be used. They are not intended for producing new threads on unthreaded bars, bolts, or pipes. Available in almost any threading size. All sizes are manufactured to be the same size as a Hex Nut of equal thread size.

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE
			HRD
2	56-64	19/32	\$7.60
3	48-56	19/32	7.60
4	36-40-48	19/32	7.60
5	40-44	19/32	7.60
6	32-40	19/32	7.60
8	32-36	19/32	7.60
10	24-32	19/32	7.60
12	24-28	19/32	7.60
1/4	20-28	19/32	7.60
5/16	18-24	11/16	8.52
3/8	16-24	25/32	9.52
7/16	14-20	7/8	10.98

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE
			HRD
1/2	13-20	1-1/16	\$12.88
9/16	12-18	1-1/16	15.18
5/8	11-18	1-1/4	17.66
11/16	11-16	1-7/16	22.40
3/4	10-16	1-7/16	22.40
7/8	9-14	1-5/8	25.98
1	8-12-14	1-13/16	32.92
1-1/8	7-12	2	45.10
1-1/4	7-12	2-3/16	51.92
1-3/8	6-12	2-3/8	67.10
1-1/2	6-12	2-9/16	74.66
1-5/8	5-1/2	3-1/8	104.94

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE
			HRD
1-3/4	5	3-1/8	\$121.98
1-7/8	5	3-1/8	169.78
2	4-1/2	3-1/2	169.78
2-1/4	4-1/2	3-1/2	183.92
2-1/2	4	4-1/2	265.30
2-3/4	4	4-1/2	321.48
3	4	5	396.20
3-1/4	4	5	461.56
3-1/2	4	5	461.56
3-3/4	4	6	539.28
4	4	6	593.84

TOOL STEEL

LEFT HAND HEXAGON RETHREADING DIES

ICS

WIS

SPECIAL PURPOSE

CUT THREAD

**HEX NUT DIA.
ACROSS FLATS**



**LEFT HAND
CUT**

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE
			HRDL
1/4	20-28	19/32	\$10.74
5/16	18-24	11/16	12.12
3/8	16-24	25/32	13.52
7/16	14-20	7/8	15.80
1/2	13-20	1-1/16	18.52

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE
			HRDL
9/16	12-18	1-1/16	\$21.78
5/8	11-18	1-1/4	25.32
3/4	10-16	1-7/16	32.10
7/8	9-14	1-5/8	37.24
1	8-12-14	1-13/16	47.18
1-1/8	7-12	2	64.50

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE
			HRDL
1-1/4	7-12	2-3/16	\$74.02
1-3/8	6-12	2-3/8	97.60
1-1/2	6-12	2-9/16	106.14
1-3/4	5	3-1/2	197.52
2	4-1/2	3-1/2	242.32

TOOL STEEL

HEXAGON RETHREADING PIPE (NPT) DIES

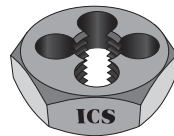
ICS

WIS

GENERAL PURPOSE

CUT THREAD

**HEX NUT DIA.
ACROSS FLATS**



**RIGHT HAND
CUT**

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE
			HRDP
1/8	27	25/32	\$14.18
1/4	18	1-1/16	18.94
3/8	18	1-1/4	25.62

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE
			HRDP
1/2	14	1-5/8	\$27.18
3/4	14	1-13/16	41.66
1	11-1/2	2-3/16	70.42

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE
			HRDP
1-1/4	11-1/2	3-1/8	\$106.12
1-1/2	11-1/2	3-1/8	175.74
2	11-1/2	3-3/4	349.00

TOOL STEEL

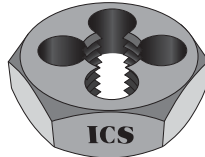
HEXAGON (SPECIAL THREAD) RETHREADING DIES

ICS

WIS

SPECIAL PURPOSE

CUT THREAD

HEX NUT DIA.
ACROSS FLATSRIGHT HAND
CUT

Tool Steel Special Thread Hexagon Rethreading Dies are designed for rethreading damaged or jammed non-standard threaded studs, bolts or rod. They are extra thick for more strength and are more durable than carbon steel hex rethreading dies and can be used to work in places where round die stocks cannot be used. They are not intended to cut new threads. All sizes are manufactured to be the same as a hex nut of equal thread size and can be used with any socket, open end, box, monkey, or adjustable wrench.

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE
			HRDS
1/4	24, 27, 32	19/32	\$9.28
1/4	36, 40, 48	19/32	11.32
5/16	16, 20, 27, 32	11/16	10.38
5/16	40	11/16	11.32
3/8	18, 20, 27, 32	25/32	11.86
3/8	40	25/32	15.04
7/16	24, 28, 32	7/8	13.42
7/16	40	7/8	16.40
1/2	16, 18, 40	1-1/16	17.36
1/2	24, 28, 32	1-1/16	15.80
9/16	16, 32	1-1/16	20.44
9/16	20, 24	1-1/16	18.48
5/8	16, 32	1-1/4	21.60
5/8	20, 24	1-1/4	19.60
11/16	18, 20, 24	1-7/16	27.40
3/4	18, 32	1-7/16	27.40
3/4	20, 24	1-7/16	24.98
13/16	16, 20, 24, 32	1-5/8	31.78
7/8	16, 32, 40	1-5/8	31.78
7/8	18, 20, 24	1-5/8	28.88
15/16	14, 16, 18, 20	1-13/16	40.20
1	10, 16, 18, 20, 24	1-13/16	36.52
1	32	1-13/16	40.20
1-1/16	8, 16, 18	2	55.12
1-1/16	12	2	50.14
1-1/8	8	2	50.14
1-1/8	16, 18, 20	2	55.12
1-3/16	8, 10, 18	2-3/16	57.80
1-3/16	12	2-3/16	63.56
1-1/4	5, 10	2-3/16	57.80
1-1/4	8, 16, 18, 20	2-3/16	63.56
1-5/16	8, 12	2-3/8	74.54
1-5/16	18	2-3/8	82.00
1-3/8	7, 10, 16, 18, 20	2-3/8	82.00
1-3/8	8	2-3/8	74.54
1-7/16	6, 8, 12, 16, 18	2-9/16	91.24

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE
			HRDS
1-1/2	8	2-9/16	\$82.94
1-1/2	14, 16, 18, 20	2-9/16	91.24
1-9/16	12, 16, 18	3-1/8	125.96
1-5/8	4, 14, 16, 18	3-1/8	125.96
1-5/8	5, 6, 8, 10	3-1/8	114.50
1-11/16	18	3-1/8	174.22
1-3/4	5-1/2, 6, 10, 12, 14, 16, 18, 20	3-1/8	157.48
1-3/4	8	3-1/8	143.14
1-13/16	12, 18	3-1/8	200.42
1-7/8	8, 12	3-1/8	168.42
1-7/8	16, 18	3-1/8	185.26
2	4, 8, 10, 12	3-1/2	207.76
2	14, 16, 18, 20, 24	3-1/2	223.22
2-1/8	6, 14, 16, 18	3-1/2	209.22
2-1/8	8, 12	3-1/2	213.04
2-1/4	6, 10, 14, 16, 18	3-1/2	234.34
2-1/4	4, 8, 12	3-1/2	213.04
2-3/8	4, 8, 12	4-1/2	294.82
2-3/8	10, 14, 18	4-1/2	324.30
2-1/2	4-1/2, 5, 6, 10, 16, 18	4-1/2	324.30
2-1/2	8, 12	4-1/2	294.82
2-5/8	6, 14, 16	4-1/2	384.56
2-5/8	8, 12	4-1/2	349.68
2-3/4	6, 10, 14, 18	4-1/2	384.56
2-3/4	8, 12	4-1/2	349.68
2-7/8	6, 8	5	483.78
2-7/8	12	5	439.88
3	8, 12	5	439.88
3-1/8	4, 8, 12	5	503.14
3-1/4	5, 12	5	503.14
3-1/4	8	5	553.50
3-3/8	4, 8, 12	5	503.14
3-1/2	8, 12	5	503.14
3-5/8	4, 8, 12	5	579.04
3-3/4	8, 12	5	579.04
3-7/8	4, 8, 12	6	659.82
4	8, 12	6	659.82

NOTE

Special Thread Hexagon Rethreading Dies not shown in our catalog can be manufactured to order. Consult factory for pricing.

METRIC HEXAGON RETHREADING DIES

ICS

WIS

GENERAL PURPOSE

CUT THREAD

HEX NUT DIA.
ACROSS FLATS



RIGHT HAND
CUT

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE
			HRDM
M3	.50-.60	19/32	\$9.30
M3.5	.60	19/32	9.30
M4	.70-.75	19/32	9.30
M4.5	.75	19/32	9.30
M5	.80-.90	19/32	9.30
M6	1.00	19/32	9.30
M6.3	1.00	19/32	9.52
M7	1.00	11/16	9.98

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE
			HRDM
M8	1.00-1.25	11/16	\$9.98
M9	1.00-1.25	25/32	14.54
M10	1.25-1.50	7/8	14.12
M11	1.50	7/8	16.98
M12	1.25-1.75	1-1/16	16.24
M14	1.50-2.00	1-1/16	19.50
M16	1.50-2.00	1-1/4	21.40
M18	1.50-2.50	1-7/16	24.98

SIZE	THREADS PER INCH	DIA. ACROSS FLATS	PRICE
			HRDM
M20	1.50-2.50	1-5/8	\$27.48
M22	1.50-2.50	1-5/8	31.88
M24	2.00-3.00	1-13/16	33.12
M27	2.00-3.00	2	51.00
M30	2.00-3.50	2-3/16	51.00
M33	2.00-3.50	2-3/8	58.52
M36	3.00-4.00	2-9/16	83.12
M39	3.00-4.00	3-1/8	87.86

TOOL STEEL

METRIC (SPECIAL THREAD) HEXAGON RETHREADING DIES

ICS

WIS

SPECIAL PURPOSE

CUT THREAD

HEX NUT DIA.
ACROSS FLATS



RIGHT HAND
CUT

SIZE	PITCH	DIA. ACROSS FLATS	PRICE
			HRDMS
M3	.35	19/32	\$10.70
M3.5	.50	19/32	10.70
M4	.50	19/32	10.70
M4.5	.50	19/32	10.70
M5	.50-.75	19/32	10.70
M5.5	.80-.90	19/32	10.70
M6	.50-.75	19/32	10.70
M7	.50-.75	11/16	12.00
M8	.50-.75	11/16	12.00
M9	.50-.75	25/32	13.20
M10	.50-.75-1.00	7/8	15.46
M11	.50-.75-1.00-1.25	7/8	15.46
M12	.50-.75-1.00-1.50	1-1/16	16.24
M13	.50-.75-1.00-1.25-1.50-2.00	1-1/16	17.92
M14	.50-.75-1.00-1.25	1-1/16	19.50
M15	.50-1.00-1.50-2.00	1-1/4	20.96
M16	.50-.75-1.00-1.25	1-1/4	22.12
M17	.50-1.00-1.50-2.00	1-7/16	27.54
M18	.50-1.00-2.00	1-7/16	30.84
M19	.50-1.00-1.50-2.00	1-7/16	31.48
M20	1.00-1.25-2.00	1-5/8	31.48
M21	1.00-1.50-2.00-2.50	1-5/8	31.48

SIZE	PITCH	DIA. ACROSS FLATS	PRICE
			HRDMS
M22	1.00-2.00-3.00	1-5/8	\$33.46
M23	1.00-1.50-2.00-2.50	1-13/16	33.46
M24	1.00-1.50-2.50	1-13/16	41.80
M25	1.00-1.50-2.00	1-13/16	41.80
M26	1.50-2.00	2	41.80
M27	1.00-1.50	2	55.54
M28	1.50-2.00	2	59.50
M30	1.00-1.50-3.00	2-3/16	63.00
M32	1.50	2-3/16	71.54
M33	1.50	2-3/8	66.22
M34	1.50	2-3/8	78.84
M35	1.50	2-3/8	88.22
M36	1.50	2-9/16	87.86
M38	1.50	2-9/16	87.86
M39	1.50	3-1/8	87.86
M40	1.50	3-1/8	148.88
M42	1.50-3.00-4.50	3-1/8	168.64
M45	1.50-3.00-4.50	3-1/8	168.64
M48	1.50-3.00-5.00	3-1/8	210.16
M50	1.50	3-1/2	210.16
M52	1.50-3.00-5.00	3-1/2	228.28

TOOL STEEL

LEFT HAND METRIC HEXAGON RETHREADING DIES

ICS

WIS

SPECIAL PURPOSE

CUT THREAD

HEX NUT DIA.
ACROSS FLATS



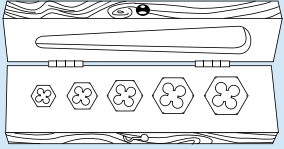
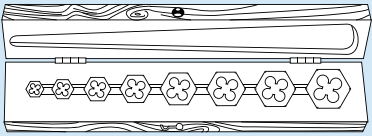
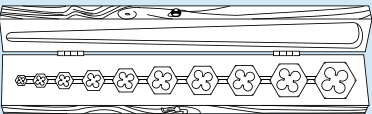
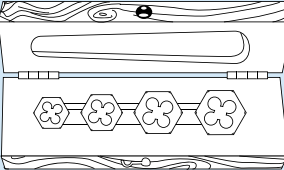
LEFT HAND
CUT

SIZE	PITCH	DIA. ACROSS FLATS	PRICE
			HRDML
M5	.80	19/32	\$12.38
M6	1.00	19/32	12.38
M7	1.00	11/16	13.94
M8	1.25	11/16	13.94
M10	1.50	7/8	15.34
M12	1.25-1.75	1-1/16	17.24

SIZE	PITCH	DIA. ACROSS FLATS	PRICE
			HRDML
M14	1.50-2.00	1-1/16	20.10
M16	1.50-2.00	1-1/4	23.46
M18	1.50-2.50	1-7/16	26.84
M20	1.50-2.50	1-5/8	33.00
M24	1.50	1-13/16	48.84
M24	2.00-3.00	1-13/16	49.14

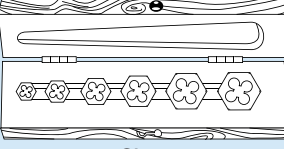
HEXAGON RETHREADING DIE SETS

WOODEN CASES

	DESCRIPTION	ITEM NO.	CUT	THREAD TYPE	PRICE
5 PC HEX DIE SET  Sizes 1/4 to 1/2 or M6 to M14	5 PC Hex Die Set in a hinged wooden case. Contents of NC, NF, and Metric sets are listed below. (Specify style required.)	DS-HRD-5C	Right Hand	Coarse	\$80.76
		DS-HRD-5F	Right Hand	Fine	80.76
		DS-HRD-5C	Left Hand	Coarse	98.24
		DS-HRD-5F	Left Hand	Fine	98.24
		DS-HRDL-5C	Right Hand	Metric	101.58
SIZES OF DIES IN 5 PC SET					
	NC (Coarse) 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13				
	NF (Fine) 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20				
	M (Metric) M6.0 x 1.0, M8.0 x 1.25, M10.0 x 1.5, M12.0 x 1.75, M14.0 x 2.0				
8 PC HEX DIE SET  Sizes 1/4 to 3/4 or M6 to M20	8 PC Hex Die Set in a hinged wooden case. Contents of NC, NF, and Metric sets are listed below. (Specify style required.)	DS-HRD-8C	Right Hand	Coarse	\$121.66
		DS-HRD-8F	Right Hand	Fine	121.66
		DS-HRD-8C	Left Hand	Coarse	155.42
		DS-HRD-8F	Left Hand	Fine	155.42
		DS-HRDL-8C	Right Hand	Metric	163.88
SIZES OF DIES IN 8 PC SET					
	NC (Coarse) 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10				
	NF (Fine) 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16				
	M (Metric) M6.0 x 1.0, M8.0 x 1.25, M10.0 x 1.5, M12.0 x 1.75, M14.0 x 2.0, M16.0 x 2.0, M18.0 x 2.5, M20.0 x 2.5				
10 PC HEX DIE SET  Sizes 1/4 to 1 or M6 to M24	10 PC Hex Die Set in a hinged wooden case. Contents of NC, NF, and Metric sets are listed below. (Specify style required.)	DS-HRD-10C	Right Hand	Coarse	\$179.00
		DS-HRD-10F	Right Hand	Fine	179.00
		DS-HRD-10C	Left Hand	Coarse	232.12
		DS-HRD-10F	Left Hand	Fine	232.12
		DS-HRDL-10C	Right Hand	Metric	229.92
SIZES OF DIES IN 10 PC SET					
	NC (Coarse) 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10, 7/8-9, 1-8				
	NF (Fine) 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-11, 3/4-16, 7/8-14, 1-14				
	M (Metric) M6.0 x 1.0, M8.0 x 1.25, M10.0 x 1.5, M12.0 x 1.75, M14.0 x 2.0, M16.0 x 2.0, M18.0 x 2.5, M20.0 x 2.5, M22.0 x 2.5, M24.0 x 3.0				
4 PC HEX DIE SET  Sizes 1-1/8 to 1-1/2 or M27 to M36	4 PC Hex Die Set in a hinged wooden case. Contents of NC, NF, and Metric sets are listed below. (Specify style required.)	DS-HRD-4C	Right Hand	Coarse	\$240.32
		DS-HRD-4F	Right Hand	Fine	240.32
		DS-HRD-4C	Left Hand	Coarse	304.26
		DS-HRD-4F	Left Hand	Fine	304.26
		DS-HRDL-4C	Right Hand	Metric	222.62
SIZES OF DIES IN 4 PC SET					
	NC (Coarse) 1-1/8-7, 1-1/4-7, 1-3/8-6, 1-1/2-6				
	NF (Fine) 1-1/8-12, 1-1/4-12, 1-3/8-12, 1-1/2-12				
	M (Metric) M27.0 x 3.0, M30.0 x 3.5, M33.0 x 3.5, M36.0 x 4.0				

HEXAGON RETHREADING PIPE DIE SET

WOODEN CASES

	DESCRIPTION	ITEM NO.	CUT	THREAD TYPE	PRICE
6 PC HEX DIE SET  Sizes 1/8 to 1	6 PC Hex Pipe NPT Dies in a hinged wooden case. Contents of NPT set is listed below.	DS-HRDP-6	Taper	Regular	\$204.96
		SIZES OF DIES IN 6 PC SET			
	NPT (Regular Taper) 1/8-27, 1/4-18, 3/8-18, 1/2-14, 3/4-14, 1-11-1/2				

HEXAGON RETHREADING DIES

ICS USA

GENERAL PURPOSE

CUT THREAD

Hexagon (Std. Dia.) Rethreading Dies are designed for rethreading damaged or jammed threads and can be used to work in places where round die stocks can not be used. They are not intended for producing new threads on unthreaded bars, bolts, or pipes. They will perform all of the same tasks as (HRD) Hex Rethreading Dies. All sizes are manufactured using three standard hex stock diameters to reduce costs and simplify die stock or wrench requirements.

MACHINE SCREW AND FRACTIONAL SIZES

METRIC SIZES

STANDARD DIA. ACROSS FLATS



RIGHT HAND CUT

STANDARD DIA. ACROSS FLATS



RIGHT HAND CUT

ITEM NO.	SIZE	THREADS PER INCH	DIA. ACROSS FLATS		
			1"	1-7/16"	1-7/8"
HXD #04-40	4	40	\$3.20	\$-	\$-
HXD #06-32	6	32	3.20	-	-
HXD #08-32	8	32	3.20	-	-
HXD #10-24	10	24	3.20	-	-
HXD #10-32	10	32	3.20	-	-
HXD #12-24	12	24	3.20	-	-
HXD #14-20	14	20	3.20	-	-
HXD 012-24	3/16	24	3.20	-	-
HXD 012-32	3/16	32	3.20	-	-
HXD 016-20	1/4	20	3.20	-	-
HXD 016-28	1/4	28	3.20	-	-
HXD 020-18	5/16	18	3.20	-	-
HXD 020-24	5/16	24	3.20	-	-
HXD 024-16	3/8	16	3.20	-	-
HXD 024-24	3/8	24	3.20	-	-
HXD 028-14	7/16	14	3.20	-	-
HXD 028-20	7/16	20	3.20	-	-
HXD 032-13	1/2	13	3.20	-	-
HXD 032-20	1/2	20	3.20	-	-
HXD 036-12	9/16	12	-	8.06	-
HXD 036-18	9/16	18	-	8.06	-
HXD 040-11	5/8	11	-	8.06	-
HXD 040-18	5/8	18	-	8.06	-
HXD 048-10	3/4	10	-	8.06	-
HXD 048-16	3/4	16	-	8.06	-
HXD 056-09	7/8	9	-	-	16.34
HXD 056-14	7/8	14	-	-	16.34
HXD 100-08	1	8	-	-	16.34
HXD 100-12	1	12	-	-	16.34
HXD 100-14	1	14	-	-	16.34

ITEM NO.	SIZE	PITCH	DIA. ACROSS FLATS	
			1"	1-7/16"
HXDM 03.0 x .50	M3	.50	\$3.66	\$-
HXDM 03.0 x .60	M3	.60	3.66	-
HXDM 04.0 x .70	M4	.70	3.66	-
HXDM 04.0 x .75	M4	.75	3.66	-
HXDM 05.0 x .80	M5	.80	3.66	-
HXDM 05.0 x .90	M5	.90	3.66	-
HXDM 06.0 x 1.00	M6	1.00	3.66	-
HXDM 07.0 x 1.00	M7	1.00	3.66	-
HXDM 08.0 x 1.25	M8	1.25	3.66	-
HXDM 09.0 x 1.00	M9	1.00	3.66	-
HXDM 09.0 x 1.25	M9	1.25	3.66	-
HXDM 10.0 x 1.25	M10	1.25	3.66	-
HXDM 10.0 x 1.50	M10	1.50	3.66	-
HXDM 11.0 x 1.50	M11	1.50	3.66	-
HXDM 12.0 x 1.50	M12	1.50	3.66	-
HXDM 12.0 x 1.75	M12	1.75	3.66	-
HXDM 14.0 x 1.25	M14	1.25	-	9.08
HXDM 16.0 x 2.00	M16	2.00	-	9.08
HXDM 18.0 x 1.50	M18	1.50	-	9.08
HXDM 18.0 x 2.50	M18	2.50	-	9.08

Metric sizes in bold type are coarse thread form.

CARBON STEEL HEXAGON (BSPT) PIPE DIES

GENERAL PURPOSE

STANDARD DIA. ACROSS FLATS



RIGHT HAND CUT

ITEM NO.	SIZE	THREADS PER INCH	DIAMETER ACROSS FLATS
			1"
HXDBP 008-28	1/8	28	\$3.76
HXDBP 016-19	1/4	19	3.76

CARBON STEEL HEXAGON (NPT) PIPE DIES

GENERAL PURPOSE

STANDARD DIA. ACROSS FLATS



RIGHT HAND CUT

ITEM NO.	SIZE	THREADS PER INCH	DIAMETER ACROSS FLATS	
			1"	1-7/8"
HXDP 008-27	1/8	27	\$3.36	\$-
HXDP 016-18	1/4	18	11.30	-
HXDP 024-18	3/8	18	-	16.22
HXDP 032-14	1/2	14	-	16.22

HIGH SPEED STEEL HEXAGON THREADING DIES

ICS

USA

HEAVY DUTY

GROUND THREAD

**STANDARD DIA.
ACROSS FLATS**



**RIGHT HAND
CUT**

BLACK & GOLD FINISH

HSS Hex Threading Dies are designed for tough cutting applications of all types of external threads. They are used for threading rods, bolts, and studs. Two standard diameters of Hex Dies simplify die stock handle requirements. ICS Hex Threading Dies have polished gold face and black surface treated threads for maximum performance.

Machine Screw and Fractional Sizes (#4 To 3/4" Dia.)

ITEM NO.	SIZE	THREADS PER INCH	DIAMETER ACROSS FLATS
			1"
HXTD #04-40	4	40	\$10.08
HXTD #06-32	6	32	10.08
HXTD #08-32	8	32	10.08
HXTD #10-24	10	24	10.08
HXTD #10-32	10	32	10.08
HXTD #12-24	12	24	10.08
HXTD 016-20	1/4	20	10.08
HXTD 016-28	1/4	28	10.08
HXTD 020-18	5/16	18	10.08
HXTD 020-24	5/16	24	10.08
HXTD 024-16	3/8	16	10.08
HXTD 024-24	3/8	24	10.08
HXTD 028-14	7/16	14	10.08
HXTD 028-20	7/16	20	10.08
HXTD 032-13	1/2	13	10.08
HXTD 032-20	1/2	20	10.08

ITEM NO.	SIZE	THREADS PER INCH	DIAMETER ACROSS FLATS
			1-7/16"
HXTD 032-13A	1/2	13	\$22.52
HXTD 032-20A	1/2	20	22.52
HXTD 036-12	9/16	12	22.52
HXTD 036-18	9/16	18	22.52
HXTD 040-11	5/8	11	22.52
HXTD 040-18	5/8	18	22.52
HXTD 048-10	3/4	10	22.52
HXTD 048-16	3/4	16	22.52

HIGH SPEED STEEL HEXAGON THREADING (NPT) PIPE DIES

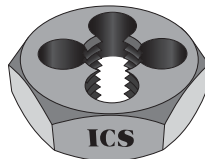
ICS

USA

HEAVY DUTY

GROUND THREAD

**STANDARD DIA.
ACROSS FLATS**



**RIGHT HAND
CUT**

BLACK & GOLD FINISH

HSS Hex Threading (NPT) Pipe Dies are designed for external threading or rethreading of taper pipe threads. They are used where threaded connection will not be required to withstand high fluid or gas pressures and the use of a sealer is acceptable.

ITEM NO.	SIZE	THREADS PER INCH	DIAMETER ACROSS FLATS
			1"
HXTDP 008-27	1/8	27	\$10.08

ITEM NO.	SIZE	THREADS PER INCH	DIAMETER ACROSS FLATS
			1-7/16"
HXTDP 016-18A	1/4	18	\$22.52

HIGH SPEED STEEL HEXAGON THREADING DIES

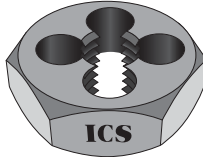
ICS

WIS

HEAVY DUTY

GROUND THREAD

**HEX NUT DIA.
ACROSS FLATS**



**RIGHT HAND
CUT**

BLACK & GOLD FINISH

HSS Hexagon (Hex Nut Dia.) Threading Dies are designed for tough cutting applications of all types of external threads. They are used for threading rods, bolts, and studs. All sizes are manufactured to be the same size as a Hex Nut of equal thread size. ICS Hex Threading Dies have polished gold face and black surface treated threads for maximum performance.

ITEM NO.	THREAD SIZE	DIA. ACROSS FLATS	PRICE
HTD 016-20	1/4 - 20	19/32	\$14.42
HTD 016-28	1/4 - 28	19/32	14.42
HTD 020-18	5/16 - 18	11/16	16.18
HTD 020-24	5/16 - 24	11/16	16.18
HTD 024-16	3/8 - 16	25/32	18.02
HTD 024-24	3/8 - 24	25/32	18.02
HTD 028-14	7/16 - 14	7/8	19.48
HTD 028-20	7/16 - 20	7/8	19.48
HTD 032-13	1/2 - 13	1-1/16	24.50
HTD 032-20	1/2 - 20	1-1/16	24.50
HTD 036-12	9/16 - 12	1-1/16	29.56
HTD 036-18	9/16 - 18	1-1/16	29.56
HTD 040-11	5/8 - 11	1-1/4	32.44
HTD 040-18	5/8 - 18	1-1/4	32.44

ITEM NO.	THREAD SIZE	DIA. ACROSS FLATS	PRICE
HTD 048-10	3/4 - 10	1-7/16	\$40.00
HTD 048-16	3/4 - 16	1-7/16	40.00
HTD 056-09	7/8 - 9	1-5/8	51.00
HTD 056-14	7/8 - 14	1-5/8	51.00
HTD 100-08	1 - 8	1-13/16	59.36
HTD 100-12	1 - 12	1-13/16	59.36
HTD 100-14	1 - 14	1-13/16	59.36
HTD 108-07	1-1/8 - 7	2	83.84
HTD 108-12	1-1/8 - 12	2	83.84
HTD 116-07	1-1/4 - 7	2-3/16	110.62
HTD 116-12	1-1/4 - 12	2-3/16	110.62
HTD 124-06	1-3/8 - 6	2-3/8	130.14
HTD 124-12	1-3/8 - 12	2-3/8	130.14
HTD 132-06	1-1/2 - 6	2-9/16	153.08
HTD 132-12	1-1/2 - 12	2-9/16	153.08

HIGH SPEED STEEL HEXAGON THREADING (NPT) PIPE DIES

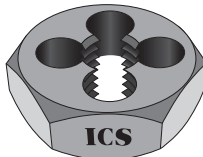
ICS

WIS

HEAVY DUTY

GROUND THREAD

**HEX NUT DIA.
ACROSS FLATS**



**RIGHT HAND
CUT**

BLACK & GOLD FINISH

HSS Hexagon (Hex Nut Dia.) NPT Threading Pipe Dies are designed for external threading or rethreading of taper pipe threads. They are used where a threaded connection will not be required to withstand high fluid or gas pressures and the use of a sealer is acceptable.

ITEM NO.	THREAD SIZE	DIA. ACROSS FLATS	PRICE
HTDP 008-27	1/8 - 27	25/32	\$15.00
HTDP 016-18	1/4 - 18	1-1/16	28.90
HTDP 024-18	3/8 - 18	1-1/4	37.80

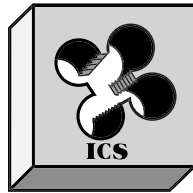
ITEM NO.	THREAD SIZE	DIA. ACROSS FLATS	PRICE
HTDP 032-14	1/2 - 14	1-5/8	\$40.46
HTDP 048-14	3/4 - 14	1-13/16	71.40
HTDP 100-11.5	1 - 11-1/2	2-3/16	100.20

CARBON STEEL
SOLID SQUARE BOLT DIES

ICS **WIS**

GENERAL PURPOSE

CUT THREAD



RIGHT HAND CUT

Solid Square Bolt Dies are designed for rethreading damaged or jammed bolt threads and studs.

ITEM NO.	THREAD SIZE	SIZE OF SQUARE		PRICE
		SQUARE	THICKNESS	
SSBD016-20	1/4 - 20	2-1/2	1/2	\$23.80
SSBD016-28	1/4 - 28	2-1/2	1/2	23.80
SSBD020-18	5/16 - 18	2-1/2	1/2	25.68
SSBD020-24	5/16 - 24	2-1/2	1/2	25.68
SSBD024-16	3/8 - 16	2-1/2	1/2	26.74
SSBD024-24	3/8 - 24	2-1/2	1/2	26.74
SSBD028-14	7/16 - 14	2-1/2	1/2	28.34
SSBD028-20	7/16 - 20	2-1/2	1/2	28.34
SSBD032-13	1/2 - 13	2-1/2	3/4	32.50
SSBD032-20	1/2 - 20	2-1/2	3/4	32.50
SSBD040-11	5/8 - 11	2-1/2	3/4	36.10
SSBD040-18	5/8 - 18	2-1/2	3/4	36.10
SSBD048-10	3/4 - 10	2-1/2	3/4	37.16
SSBD048-16	3/4 - 16	2-1/2	3/4	37.16
SSBD056-09	7/8 - 9	2-1/2	3/4	40.12

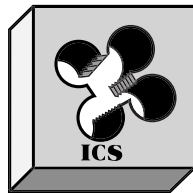
ITEM NO.	THREAD SIZE	SIZE OF SQUARE		PRICE
		SQUARE	THICKNESS	
SSBD056-14	7/8 - 14	2-1/2	3/4	\$40.12
SSBD100-08	1 - 8	2-1/2	1"	46.14
SSBD100-14	1 - 14	2-1/2	1"	46.14
SSBD108-07	1-1/8 - 7	2-1/2	1"	49.74
SSBD108-12	1-1/8 - 12	2-1/2	1"	49.74
SSBD116-07	1-1/4 - 7	2-1/2	1"	55.08
SSBD116-12	1-1/4 - 12	2-1/2	1"	55.08
SSBD124-06	1-3/8 - 6	2-1/2	1"	61.22
SSBD124-12	1-3/8 - 12	2-1/2	1"	61.22
SSBD132-06	1-1/2 - 6	3"	1"	65.52
SSBD132-12	1-1/2 - 12	3"	1"	65.52
SSBD148-05	1-3/4 - 5	3"	1-1/4	102.94
SSBD148-12	1-3/4 - 12	3"	1-1/4	102.94
SSBD200-4.5	2 - 4-1/2	3-3/4	2	192.54
SSBD200-12	2 - 12	1	1	192.54

CARBON STEEL
SQUARE TAPER (NPT) PIPE DIES

ICS **USA**

SPECIAL PURPOSE

CUT THREAD



RIGHT HAND CUT

Solid Square Taper Pipe Dies are designed for rethreading damaged or jammed taper pipe threads and are used mainly by oil related industries, utilities, and general construction.

ITEM NO.		SIZE	THREADS PER INCH	SIZE OF SQUARE			
ALPHA PREFIX	NUMERIC SUFFIX SIZE - TPI x DIA.			2" SQUARE x 1/2" THICK	2-1/2" SQUARE x 3/4" THICK	3" SQUARE x 3/4" THICK	4" SQUARE x 1" THICK
STPD	008 - 27 x (DIA.)	1/8	27	\$23.64	\$45.64	\$ -	\$ -
STPD	016 - 18 x (DIA.)	1/4	18	23.64	45.64	-	-
STPD	024 - 18 x (DIA.)	3/8	18	23.64	45.64	-	-
STPD	032 - 14 x (DIA.)	1/2	14	23.64	45.64	-	-
STPD	048 - 14 x (DIA.)	3/4	14	-	45.64	114.54	-
STPD	100 - 11.5 x (DIA.)	1	11-1/2	-	-	114.54	146.00
STPD	116 - 11.5 x (DIA.)	1-1/4	11-1/2	-	-	114.54	146.00
STPD	132 - 11.5 x (DIA.)	1-1/2	11-1/2	-	-	-	146.00
STPD	200 - 11.5 x (DIA.)	2	11-1/2	-	-	-	146.00

CARBON STEEL

HEXAGON AUTOMOTIVE RETHRADING DIES

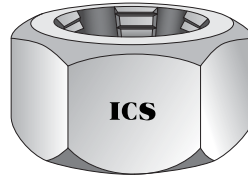
ICS

USA

GENERAL PURPOSE

CUT THREAD

SMALL DIA.
ACROSS FLATS



Hexagon Automotive Rethreading Dies were designed to have a much smaller width across the flats than other hex dies to allow mechanics to repair damaged threads in tight spots. They are not designed for cutting new threads or to renew hardened threads.

Fractional Right Hand Sizes (1/4" to 1-3/8" Dia.)

ITEM NO.	THREAD SIZE	DIAMETER ACROSS FLATS	PRICE
HARD016-20	1/4 - 20	7/16	\$1.78
HARD016-28	1/4 - 28	7/16	1.78
HARD020-18	5/16 - 18	1/2	1.92
HARD020-24	5/16 - 24	1/2	1.92
HARD024-16	3/8 - 16	9/16	2.00
HARD024-24	3/8 - 24	9/16	2.00
HARD028-14	7/16 - 14	11/16	2.10
HARD028-20	7/16 - 20	11/16	2.10
HARD032-13	1/2 - 13	3/4	2.40
HARD032-20	1/2 - 20	3/4	2.40
HARD036-12	9/16 - 12	7/8	3.12
HARD036-18	9/16 - 18	7/8	3.12
HARD040-11	5/8 - 11	15/16	3.28
HARD040-18	5/8 - 18	15/16	3.28

ITEM NO.	THREAD SIZE	DIAMETER ACROSS FLATS	PRICE
HARD044-11	11/16 - 11	1	\$4.00
HARD044-16	11/16 - 16	1	4.00
HARD048-10	3/4 - 10	1-1/16	4.44
HARD048-16	3/4 - 16	1-1/16	4.44
HARD056-09	7/8 - 9	1-1/4	8.00
HARD056-14	7/8 - 14	1-1/4	8.00
HARD100-08	1 - 8	1-1/2	8.00
HARD100-14	1 - 14	1-1/2	8.00
HARD108-07	1-1/8 - 7	1-5/8	9.80
HARD108-12	1-1/8 - 12	1-5/8	9.80
HARD116-07	1-1/4 - 7	1-3/4	10.44
HARD116-12	1-1/4 - 12	1-3/4	10.44
HARD124-12	1-3/8 - 12	2-1/16	10.44

Fractional Left Hand Sizes (1/4" to 3/4" Dia.)

ITEM NO.	THREAD SIZE	DIAMETER ACROSS FLATS	PRICE
HARDL016-20	1/4 - 20	7/16	\$2.90
HARDL016-28	1/4 - 28	7/16	2.90
HARDL020-18	5/16 - 18	1/2	3.00
HARDL020-24	5/16 - 24	1/2	3.00
HARDL024-16	3/8 - 16	9/16	3.20
HARDL024-24	3/8 - 24	9/16	3.20
HARDL028-14	7/16 - 14	11/16	3.60
HARDL028-20	7/16 - 20	11/16	3.60

ITEM NO.	THREAD SIZE	DIAMETER ACROSS FLATS	PRICE
HARDL032-13	1/2 - 13	3/4	\$4.00
HARDL032-20	1/2 - 20	3/4	4.00
HARDL036-12	9/16 - 12	7/8	4.40
HARDL036-18	9/16 - 18	7/8	4.40
HARDL040-11	5/8 - 11	15/16	5.00
HARDL040-18	5/8 - 18	15/16	5.00
HARDL048-10	3/4 - 10	1-1/16	7.80
HARDL048-16	3/4 - 16	1-1/16	10.40

Metric Right Hand Sizes (6.0mm to 24.0mm Dia.)

ITEM NO.	THREAD SIZE	DIAMETER ACROSS FLATS	PRICE
HARDM06.0X1.00	M6 x 1.00	M10	\$2.04
HARDM06.0X1.25	M6 x 1.25	M12	3.78
HARDM07.0X1.00	M7 x 1.00	M11	2.14
HARDM08.0X1.00	M8 x 1.00	M13	2.40
HARDM08.0X1.25	M8 x 1.25	M13	2.18
HARDM08.0X1.50	M8 x 1.50	M14	4.36
HARDM10.0X1.00	M10 x 1.00	M17	2.68
HARDM10.0X1.25	M10 x 1.25	M17	2.58
HARDM10.0X1.50	M10 x 1.50	M17	2.40
HARDM11.0X1.50	M11 x 1.50	M19	4.54
HARDM12.0X1.25	M12 x 1.25	M19	2.76
HARDM12.0X1.50	M12 x 1.50	M19	2.68
HARDM12.0X1.75	M12 x 1.75	M19	2.58

ITEM NO.	THREAD SIZE	DIAMETER ACROSS FLATS	PRICE
HARDM14.0X1.25	M14 x 1.25	M22	\$5.06
HARDM14.0X1.50	M14 x 1.50	M22	4.18
HARDM14.0X2.00	M14 x 2.00	M22	8.88
HARDM16.0X1.50	M16 x 1.50	M24	9.78
HARDM16.0X2.00	M16 x 2.00	M24	10.66
HARDM18.0X1.50	M18 x 1.50	M27	12.44
HARDM18.0X2.50	M18 x 2.50	M27	11.56
HARDM20.0X1.25	M20 x 1.25	M32	8.54
HARDM20.0X1.50	M20 x 1.50	M32	8.54
HARDM22.0X1.00	M22 x 1.00	M32	8.54
HARDM22.0X1.50	M22 x 1.50	M32	8.54
HARDM24.0X1.50	M24 x 1.50	M32	8.54
HARDM24.0X2.00	M24 x 2.00	M32	8.54

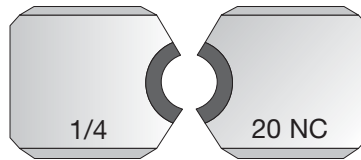
CARBON STEEL 2 PIECE ADJUSTABLE DIES

ICS

WIS

GENERAL PURPOSE

CUT THREAD



**RIGHT HAND
CUT**

Two Piece Adjustable Dies have a wide range of threading adjustments compared to a round adjustable die. Each half has two cutting edges and are easy to sharpen. They have chamfered threads on both sides. One side has 2 to 3 chamfered threads for regular work and the other side has 1-1/2 chamfered threads for threading close to shoulder. Ideal for threading or thread repair work.

ITEM NO.	THREAD SIZE	FOR USE WITH COLLET NO.
TPAD016-20	1/4 - 20	1 or 5
TPAD016-28	1/4 - 28	1 or 5
TPAD020-18	5/16 - 18	1 or 5
TPAD020-24	5/16 - 24	1 or 5
TPAD024-16	3/8 - 16	1 or 5
TPAD024-24	3/8 - 24	1 or 5
TPAD028-14	7/16 - 14	1 or 5
TPAD028-20	7/16 - 20	1 or 5
TPAD032-13	1/2 - 13	1 or 5
TPAD032-20	1/2 - 20	1 or 5
TPAD036-12	9/16 - 12	5
TPAD036-18	9/16 - 18	5
TPAD040-11	5/8 - 11	5 or 20
TPAD040-18	5/8 - 18	5 or 20
TPAD044-11	11/16 - 11	5 or 20
TPAD048-10	3/4 - 10	5 or 20

ITEM NO.	THREAD SIZE	FOR USE WITH COLLET NO.
TPAD048-16	3/4 - 16	5 or 20
TPAD056-09	7/8 - 09	5, 20 or 25
TPAD056-14	7/8 - 14	5, 20 or 25
TPAD100-08	1 - 08	5, 20 or 25
TPAD100-12	1 - 12	5, 20 or 25
TPAD100-14	1 - 14	5, 20 or 25
TPAD100-14	1 - 14	5, 20 or 25
TPAD108-14	1-1/8 - 14	20 or 25
TPAD108-14	1-1/8 - 14	20 or 25
TPAD116-14	1-1/4 - 14	20 or 25
TPAD116-14	1-1/4 - 14	20 or 25
TPAD124-14	1-3/8 - 14	25
TPAD124-14	1-3/8 - 14	25
TPAD132-14	1-1/2 - 14	25
TPAD132-14	1-1/2 - 14	25

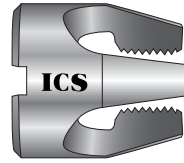
Please specify collet no. when ordering.

HIGH SPEED STEEL CONE DIES

ICS USA

SPECIAL PURPOSE

GROUND THREAD



RIGHT HAND CUT

Cone Dies are designed for production threading or screw machines and other threading equipment. They are designed to project from the die holder with a short die chamfer for close to the shoulder threading. They are also known as Spring Dies, Taper Nose Dies, Acorn Dies, and Cap Adjusting Dies.

ITEM NO.	THREAD SIZE	PRICE	
#1 BLANK (5/8") DIAMETER			
CD#1X02-56	2-56	CALL FOR PRICE	
CD#1X02-64	2-64		
CD#1X03-48	3-48		
CD#1X03-56	3-56		
CD#1X04-40	4-40		
CD#1X04-48	4-48		
CD#1X05-40	5-40		
CD#1X05-44	5-44		
CD#1X06-32	6-32		
CD#1X06-40	6-40		
CD#1X08-32	8-32		
CD#1X08-36	8-36		
CD#1X10-24	10-24		
CD#1X10-32	10-32		
CD#1X12-24	12-24		
CD#1X12-28	12-28		
CD#1X016-20	1/4-20		
CD#1X016-28	1/4-28		
#2 BLANK (7/8") DIAMETER			
CD#2X06-40	6-40		CALL FOR PRICE
CD#2X08-32	8-32		
CD#2X08-36	8-36		
CD#2X10-24	10-24		
CD#2X10-32	10-32		

ITEM NO.	THREAD SIZE	PRICE
#2 BLANK (7/8") DIAMETER		
CD#2X12-24	12-24	CALL FOR PRICE
CD#2X12-32	12-32	
CD#2X016-20	1/4-20	
CD#2X016-28	1/4-28	
CD#2X020-18	5/16-18	
CD#2X020-24	5/16-24	
CD#2X024-16	3/8-16	
CD#2X024-24	3/8-24	
CDPT#2X008-27	1/8 NPT	
CDPS#2X008-27	1/8 NPS	
#3 BLANK (1-1/4") DIAMETER		
CD#3X024-16	3/8-16	CALL FOR PRICE
CD#3X024-24	3/8-24	
CD#3X028-14	7/16-14	
CD#3X028-20	7/16-20	
CD#3X032-13	1/2-13	
CD#3X032-20	1/2-20	
CD#3X036-12	9/16-12	
CD#3X036-18	9/16-18	
CD#3X040-11	5/8-11	
CD#3X040-18	5/8-18	
CDPT#3X016-18	1/4 NPT	
CDPT#3X024-18	3/8 NPT	
CDPS#3X016-18	1/4 NPS	

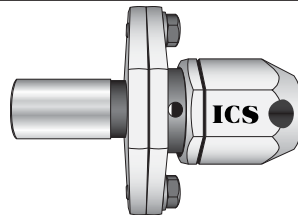
ITEM NO.	THREAD SIZE	PRICE	
#3 BLANK (1-1/4") DIAMETER			
CDPS#3X024-18	3/8 NPS	CALL FOR PRICE	
#4 BLANK (1-3/4") DIAMETER			
CD#4X040-11	5/8-11		
CD#4X040-18	5/8-18		
CD#4X048-11	3/4-10		
CD#4X048-16	3/4-16		
CD#4X056-09	7/8-9		
CD#4X056-14	7/8-14		
CD#4X100-08	1-8		
CD#4X100-12	1-12		
CD#4X100-14	1-14		
CDPT#4X032-14	1/2 NPT	CALL FOR PRICE	
CDPT#4X048-14	3/4 NPT		
CDPS#4X032-14	1/2 NPS		
CDPS#4X048-14	3/4 NPS		
#5 BLANK (2-5/32") DIAMETER			
CD#5X108-07	1-1/8 -7	CALL FOR PRICE	
CD#5X108-12	1-1/8 -12		
CD#5X116-07	1-1/4 -7		
CD#5X116-12	1-1/4 -12		
CD#5X124-12	1-3/8 -12		
CD#5X132-12	1-1/2 -12		

NOTE: We also have left hand and special thread sizes. Inquire for pricing.

CONE DIE HOLDER

SPECIAL PURPOSE

PRECISION THREAD



Cone Die Holders are designed for use on automatic bar machines or any machine that can be set to reverse once the correct thread length has been cut. This holder is used for external threading with cone dies. Cone die holders are also known as Spring Die Holders, Acorn Die Holders, Taper Nose Die Holders and Cap Adjusting Die Holders.

ITEM NO.	DIE SIZE	SHANK DIA.	HOLDS CONE DIE O.D.	CONE DIE CAPACITY	MAXIMUM LENGTH OF THREADS	PRICE
CDH#1X040	#1	5/8	5/8	#0 - 1/4	1-1/2	CALL FOR PRICE
CDH#2X048	#2	3/4	7/8	#6 - 3/8	2-3/4	
CDH#2X100	#2	1	7/8	#6 - 3/8	3	
CDH#3X048	#3	3/4	1-1/4	3/8 - 5/8	2-3/4	
CDH#3X100	#3	1	1-1/4	3/8 - 5/8	3-3/4	
CDH#4X100	#4	1	1-3/4	5/8 - 1	2-1/2	
CDH#5X200	#5	2	2-5/32	1-1/8 - 1-1/2	3-3/4	

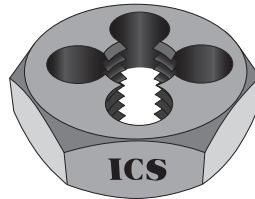
HIGH SPEED STEEL ACME THREAD HEXAGON RETHREADING DIES

ICS

USA

HEAVY DUTY

GROUND THREAD



HEX NUT DIAMETER ACROSS FLATS

Acme Thread Hexagon Rethreading Dies are of heavy duty construction for rethreading the broad, square threads on acme threaded rods and studs. They are used for general purpose acme threads with a class 2C thread fit. This is a looser fit than the class 2C precision acme thread.

Right Hand Sizes

ITEM NO.	THREAD SIZE	DIAMETER ACROSS FLATS
AHRD032-10	1/2 - 10	1-1/16
AHRD040-08	5/8 - 8	1-1/4
AHRD040-10	5/8 - 10	1-1/4
AHRD048-05	3/4 - 5	1-7/16
AHRD048-06	3/4 - 6	1-7/16
AHRD048-08	3/4 - 8	1-7/16
AHRD048-10	3/4 - 10	1-7/16
AHRD056-08	7/8 - 6	1-5/8

ITEM NO.	THREAD SIZE	DIAMETER ACROSS FLATS
AHRD100-04	1 - 4	1-13/16
AHRD100-05	1 - 5	1-13/16
AHRD100-10	1 - 10	1-13/16
AHRD108-05	1-1/8 - 5	2
AHRD116-04	1-1/4 - 4	2-3/16
AHRD116-05	1-1/4 - 5	2-3/16
AHRD132-04	1-1/2 - 4	2-9/16

Left Hand Sizes

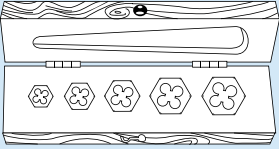
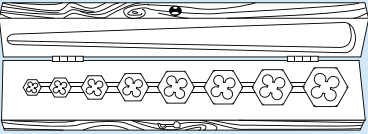
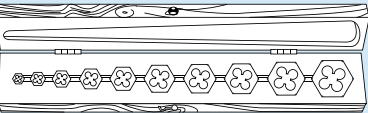
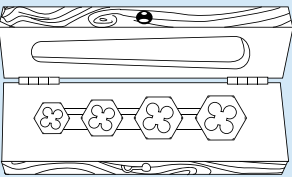
ITEM NO.	THREAD SIZE	DIAMETER ACROSS FLATS
AHRDL032-10	1/2 - 10	1-1/16
AHRDL040-08	5/8 - 8	1-1/4
AHRDL040-10	5/8 - 10	1-1/4
AHRDL048-05	3/4 - 5	1-7/16
AHRDL048-06	3/4 - 6	1-7/16
AHRDL048-08	3/4 - 8	1-7/16
AHRDL048-10	3/4 - 10	1-7/16
AHRDL056-08	7/8 - 6	1-5/8

ITEM NO.	THREAD SIZE	DIAMETER ACROSS FLATS
AHRDL100-04	1 - 4	1-13/16
AHRDL100-05	1 - 5	1-13/16
AHRDL100-10	1 - 10	1-13/16
AHRDL108-05	1-1/8 - 5	2
AHRDL116-04	1-1/4 - 4	2-3/16
AHRDL116-05	1-1/4 - 5	2-3/16
AHRDL132-04	1-1/2 - 4	2-9/16

NOTE: Acme Thread Hexagon Rethreading Dies are manufactured to order.
Inquire for quantity pricing for 3 or more pieces of a size.

HSS HEXAGON RETHREADING DIE SETS

WOODEN CASES


	DESCRIPTION	ITEM NO.	CUT	THREAD TYPE	PRICE
5 PC HSS HEX DIE SET  Sizes 1/4 to 1/2 or M6 to M14	5 PC Hex Die Set in a hinged wooden case. Contents of NC, NF, and Metric sets are listed below. (Specify style required.) Black & Gold finish.	DS-HTD-5C DS-HTD-5F	Right Hand Right Hand	Coarse Fine	\$125.02 125.02
	SIZES OF HIGH SPEED STEEL DIES IN 5 PC SET				
	NC (Coarse) 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13 NF (Fine) 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20				
8 PC HSS HEX DIE SET  Sizes 1/4 to 3/4 or M6 to M20	8 PC Hex Die Set in a hinged wooden case. Contents of NC, NF, and Metric sets are listed below. (Specify style required.) Black & Gold finish.	DS-HTD-8C DS-HTD-8F	Right Hand Right Hand	Coarse Fine	\$212.90 212.90
	SIZES OF HIGH SPEED STEEL DIES IN 8 PC SET				
	NC (Coarse) 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10 NF (Fine) 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16				
10 PC HSS HEX DIE SET  Sizes 1/4 to 1 or M6 to M24	10 PC Hex Die Set in a hinged wooden case. Contents of NC, NF, and Metric sets are listed below. (Specify style required.) Black & Gold finish.	DS-HTD-10C DS-HTD-10F	Right Hand Right Hand	Coarse Fine	\$312.60 312.60
	SIZES OF HIGH SPEED STEEL DIES IN 10 PC SET				
	NC (Coarse) 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10, 7/8-9, 1-8 NF (Fine) 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-11, 3/4-16, 7/8-14, 1-14				
4 PC HSS HEX DIE SET  Sizes 1-1/8 to 1-1/2 or M27 to M36	4 PC Hex Die Set in a hinged wooden case. Contents of NC, NF, and Metric sets are listed below. (Specify style required.) Black & Gold finish.	DS-HTD-4C DS-HTD-4F	Right Hand Right Hand	Coarse Fine	\$443.10 443.10
	SIZES OF HIGH SPEED STEEL DIES IN 4 PC SET				
	NC (Coarse) 1-1/8-7, 1-1/4-7, 1-3/8-6, 1-1/2-6 NF (Fine) 1-1/8-12, 1-1/4-12, 1-3/8-12, 1-1/2-12				

NOTE

Special boxed sets can be made to your requirements.


HAND TAP SETS

METAL INDEXES

	DESCRIPTION	ITEM NO.	STEEL SPEC	CUT	THREAD TYPE	PRICE
21 PC TAP SET 	21 PC Tap Set in a metal case. Each set contains one Taper, Bottom, and Plug tap in NC or NF thread form. Sizes are listed below.	TS-CHT-21C	CS	Right Hand	Coarse	\$85.18
		TS-SHT-21C	HSS	Right Hand	Coarse	151.68
		TS-SHT-21F	HSS	Right Hand	Fine	151.68
		TS-SHTT-21C	TiN	Right Hand	Coarse	276.54
		TS-SHTT-21F	TiN	Right Hand	Fine	276.54
		SIZES OF TAPS IN 21 PC SET				
NC (Coarse) #6-32, #10-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13 NF (Fine) #6-40, #10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20						

TAP AND HEX DIE SETS

PLASTIC CASES

	DESCRIPTION	ITEM NO.	STEEL SPEC	CUT	THREAD TYPE	PRICE		
40 PC TAP AND HEX DIE SET 	40 PC Tap and Hex Die Set in plastic case. Each set contains one each NC and NF Plug Tap and Hexagon Die. Sizes are listed below. Set also includes 1/8-27 NPT Pipe Tap and 6 threading tools.	THDS-CS-40	CS	Right Hand	NC, NF NPT	\$172.94		
		THDS-HS-40	HSS	Right Hand	NC, NF NPT	222.84		
		SIZES OF TAPS AND HEX DIES IN SET						
		NC (Coarse) #4-40, #6-32, #8-32, #10-24, #12-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13 NF (Fine) #10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20 NPT (Regular Taper) 1/8-27						
		THREADING TOOLS IN SET						
		Adjustable Die Stock - 1" round or hex Adjustable Tap Wrench - #4 to 1/2" Screw Pitch Gauge - Fractional			T-Handle Tap Wrench - #0 to 1/4" T-Handle Tap Wrench - 1/4" to 1/2" #5 Screwdriver			

METRIC TAP AND HEX DIE SET


PLASTIC CASES

	DESCRIPTION	ITEM NO.	STEEL SPEC	CUT	THREAD TYPE	PRICE		
40 PC TAP AND HEX DIE SET 	40 PC Tap and Hex Die Set in plastic case. Each set contains one each NC and NF Plug Tap and Hexagon Die. Sizes are listed below. Set also includes 1/8-28 BSPT Pipe Tap and 6 threading tools.	THDS-CS-40M	CS	Right Hand	NC, NF BSPT	\$180.22		
		SIZES OF TAPS AND HEX DIES IN SET						
		NC (Coarse) M3.0 x .50, M4.0 x .70, M5.0 x .80, M6.0 x 1.0, M7.0 x 1.0, M8.0 x 1.25, M9.0 x 1.25, M10.0 x 1.50, M11.0 x 1.50, M12.0 x 1.75 NF (Fine) M3.0 x .60, M4.0 x .75, M5.0 x .90, M9.0 x 1.00, M10.0 x 1.25, M12.0 x 1.50 BSPT (British Standard) 1/8-28						
		THREADING TOOLS IN SET						
		Adjustable Die Stock - 1" round or hex Adjustable Tap Wrench - M3 to M12 Screw Pitch Gauge - Metric			T-Handle Tap Wrench - M3 to M6 T-Handle Tap Wrench - M6 to M12 #5 Screwdriver			

TAP AND HEX DIE SETS

PLASTIC CASES

58 Piece Tap and Die Sets were originally designed to be a more advanced general purpose tap and die set for mechanics and DIY'ers for maintenance on domestic cars, motorcycles, and machinery that were manufactured using the unified inch thread standard. Each set contains the most popular sizes (#6-32 to 3/4-16) sizes that mechanics commonly use. Plastic case has individual compartments for tap and die storage and easy access.

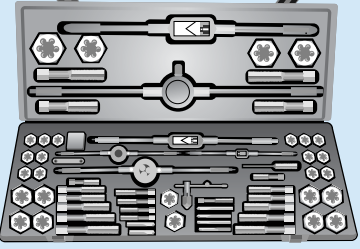
	DESCRIPTION	ITEM NO.	CUT	THREAD TYPE	PRICE
 <p style="text-align: center; margin-top: 5px;">SIZES #6 TO 3/4"</p>	Each set contains one each NC and NF Plug Tap and Hexagon Die in your choice of either Carbon Steel, High Speed Steel, or a combination (High Speed Steel Taps and Carbon Steel Hexagon Dies).	THDS-CS-58 (Carbon Steel)	Right Hand	NC, NF, NPT	\$362.88
		THDS-HS-58 (High Speed Steel)	Right Hand	NC, NF, NPT	\$741.44
		THDS-HS/C-58 (Combination set)	Right Hand	NC, NF, NPT	\$532.00
	SIZES OF TAPS AND HEX DIES IN SET				
	NC (Coarse) #6-32, #8-32, #10-24, #12-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10 NF (Fine) #10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16 NPT (Reg Taper) 1/8-27, 1/4-18				
DIE DIMENSIONS AND DIE SIZES					
1-1/2" Round Adjustable Dies 2" Round Adjustable Dies					
THREADING TOOLS IN SET					
Adjustable Tap Wrench - #4 to 1/2" Adjustable Tap Wrench - 1/4 to 3/4" Die Stock - 1" Round or Hex Die Stock - 1-1/2" Round or 1-7/16" Hex		T-Handle Tap Wrench - #0 - 1/4" Screw Pitch Gauge - Fractional Screwdriver - 1/8" x 2-1/4" Pocket Clip Screw Extractors - Spiral Flute -#1 to 5			

Standard Packaging - 1 Ea. Box (Wt. 15.0 lbs.)

TAP AND HEX DIE SETS

PLASTIC CASES

65 Piece Tap and Die Sets were originally designed to be a professional general purpose tap and die set for mechanics and DIY'ers for maintenance on domestic cars, motorcycles, and machinery that were manufactured using the unified inch thread standard. Each set contains the most popular sizes (#4-40 to 1-14) sizes that mechanics commonly use. Plastic case has individual compartments for tap and die storage and easy access.

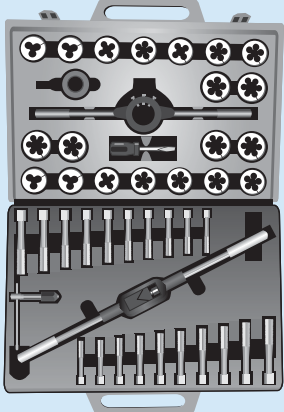
	DESCRIPTION	ITEM NO.	CUT	THREAD TYPE	PRICE
 <p>65 PC TAP AND HEX DIE SETS</p> <p>SIZES #4 TO 1"</p>	Each set contains one each NC and NF Plug Tap and Hexagon Die in your choice of either Carbon Steel, High Speed Steel, or a combination (High Speed Steel Taps and Carbon Steel Hexagon Dies).	THDS-CS-65 (Carbon Steel)	Right Hand	NC, NF, NPT	\$620.48
		THDS-HS-65 (High Speed Steel)	Right Hand	NC, NF, NPT	1077.44
		THDS-HS/C-65 (Combination set)	Right Hand	NC, NF, NPT	924.00
	SIZES OF TAPS AND HEX DIES IN SET				
	NC (Coarse)	#4-40, #6-32, #8-32, #10-24, #12-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10, *7/8-9, *1-8			
	NF (Fine)	#10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16, *7/8-14, *1-14			
	NPT (Reg Taper)	1/8-27, 1/4-18			
DIE DIMENSIONS AND DIE SIZES					
	1-1/2" Round Adjustable Dies				
	2" Round Adjustable Dies				
THREADING TOOLS IN SET					
	Adjustable Tap Wrench - #4 to 1/2"		Die Stock - 1-7/8" Hex		
	Adjustable Tap Wrench - 1/4 to 3/4"		T-Handle Tap Wrench - #0 - 1/4"		
	Adjustable Tap Wrench - 1/2" to 1-1/8"		Screw Pitch Gauge - Fractional		
	Die Stock - 1" Round or Hex		Screwdriver - 1/8" x 2-1/4" Pocket Clip		
	Die Stock - 1-1/2" Round or 1-7/16" Hex				

Standard Packaging - 1 Ea. Box (Wt. 23.0 lbs.) • *7/8 & 1" NC & NF Hex Dies only available in High Carbon Steel.

CARBON TAP AND ROUND ADJUSTABLE DIE SET

PLASTIC CASE

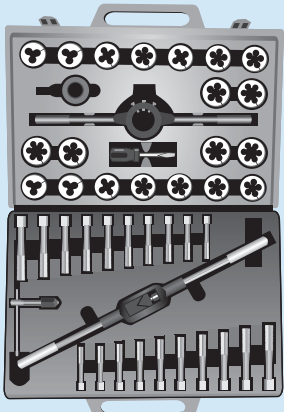
45 Piece Carbon Steel Fractional Tap and Die Sets were originally designed to be a basic general purpose tap and die set for mechanics and DIY'ers for maintenance on domestic cars, motorcycles, and machinery that were manufactured using the unified inch thread standard. Each set contains the most popular sizes (1/4-20 to 1-14) sizes that mechanics commonly use. Plastic case has individual compartments for tap and die storage and easy access.

	DESCRIPTION	ITEM NO.	CUT	THREAD TYPE	PRICE
 <p>45 PC TAP AND ROUND ADJUSTABLE DIE SET</p>	Each set contains one each NC and NF Plug Tap and Round Adjustable die. SIZES: 1/4" TO 1"	TRDS-CS-45	Right Hand	NC, NF, NPT	\$554.00
	SIZES OF TAPS AND ROUND ADJUSTABLE DIES IN SET				
	NC (Coarse)	1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12 5/8-11, 3/4-10, *7/8-9, *1-8			
	NF (Fine)	1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18 5/8-18, 3/4-16, *7/8-14, *1-14			
	DIE DIMENSIONS AND DIE SIZES				
	1-1/2" Round Adjustable Dies	1/2" to 5/8"			
	2" Round Adjustable Dies	3/4" to 1"			
	THREADING TOOLS IN SET				
	Adjustable Tap Wrench - 1/4" to 1"	T-Handle Tap Wrench - 1/4" - 1/2"			
	Die Stock Adapter - 1-1/2"	Screwdriver			
Die Stock - 2" Round					

METRIC CARBON TAP AND ROUND ADJUSTABLE DIE SET

PLASTIC CASE

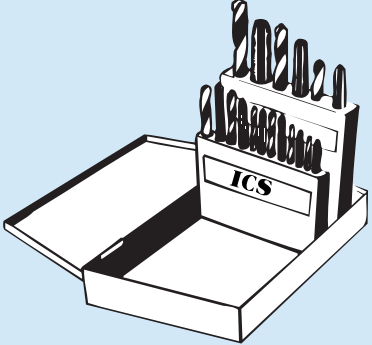
45 Piece Carbon Steel Metric Tap and Die Sets were originally designed to be a basic general purpose tap and die set for mechanics and DIY'ers for maintenance on foreign cars, motorcycles, and machinery that were manufactured using the unified inch thread standard. Each set contains the most popular sizes (M6 to M24) that mechanics commonly use. Plastic case has individual compartments for tap and die storage and easy access. With the advent of world trade, this set is now a staple in every tool box and workshop.

	DESCRIPTION	ITEM NO.	CUT	THREAD TYPE	PRICE
 <p>45 PC METRIC TAP AND ROUND ADJUSTABLE DIE SET</p>	Each set contains one each NC and NF Plug Tap and Round Adjustable die. SIZES: M6 to M24	TRDS-CS-45M	Right Hand	NC, NF, NPT	\$554.00
	SIZES OF TAPS AND ROUND ADJUSTABLE DIES IN SET				
	NC (Coarse)	M6x1.00, M8x1.25, M10x1.50, M12x1.75, M14x2.00 M16x2.00, M18x2.50			
	NF (Fine)	M6x0.75, M8x1.00, M10x1.25, M12x1.50, M14x1.50 M16x1.50, M18x1.50			
	DIE DIMENSIONS AND DIE SIZES				
	1-1/2" Round Adjustable Dies	M6 to M18			
	2" Round Adjustable Dies	M20 to M24			
	THREADING TOOLS IN SET				
	Adjustable Tap Wrench - M6 to M18	T-Handle Tap Wrench - M6-M12			
	Die Stock Adapter - 1-1/2"	Screwdriver			
Die Stock - 2" Round					

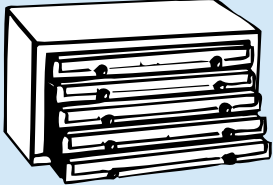
Standard Packaging - 1 Ea. Box (Wt. 23.0 lbs.)

TAP AND DRILL SETS

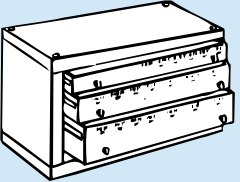
METAL INDEXES

DESCRIPTION	ITEM NO.	THREAD FORM	STYLE OF TAPS	CHAMFER	PRICE EACH	
	TDS-SPT-18C	Coarse	HSS Spiral Point Tap	Plug	\$95.92	
	TDS-SPT-18F	Fine	HSS Spiral Point Tap	Plug	97.72	
	TDS-SPTM-18M	Metric	HSS Spiral Point Tap	Plug	127.84	
	TDS-SPTT-18C	Coarse	TiN Coated Spiral Point Tap	Plug	192.72	
	TDS-SHT-18C	Coarse	HSS Standard Hand Tap	Plug	89.20	
	TDS-SHT-18F	Fine	HSS Standard Hand Tap	Plug	91.00	
	TDS-SHTM-18M	Metric	HSS Standard Hand Tap	Plug	105.62	
	TDS-SHTT-18C	Coarse	TiN Coated Std. Hand Tap	Plug	180.10	
	SIZES OF COARSE TAPS AND DRILLS IN 18 PC SETS					
	TAPS - #6-32, #8-32, #10-24, #10-32, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13 (COARSE) DRILLS - #36, #29, #25, #21, #7, "F", 5/16, "U", 27/64					
SIZES OF FINE TAPS AND DRILLS IN 18 PC SETS						
TAPS - #6-40, #8-36, #10-24, #10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20 (FINE) DRILLS - #33, #29, #25, #21, #3, "I", "Q", 25/64, 29/64						
SIZES OF METRIC TAPS AND DRILLS IN 18 PC SETS						
TAPS - M2.5x.45, M3.0x.50, M3.5x.60, M4.0x.70, M5.0x.80, M6.0x1.00, M8.0x1.25, M10.0x1.50, M12.0x1.75 DRILLS - M2.05, M2.50, M2.90, M3.30, M4.20, M5.00, M6.70, M8.50, M10.20 (METRIC)						

TAP AND DRILL DISPENSER

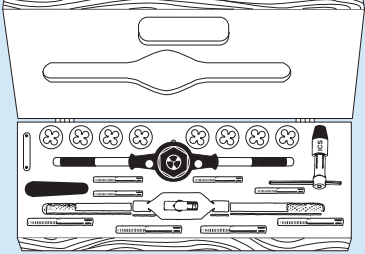
DESCRIPTION	ITEM NO.	STYLE OF TAPS	PRICE EACH
 <p>Size: 7-3/8 x 7-3/4 x 14-5/8</p>	D-TD-336	Dispenser Only (Wt. 10-1/2 lbs.)	\$98.00
	TAPS - #6-32, #8-32, #10-24, #10-32, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20 DRILLS - #36, #29, #25, #21, #7, #3, "F", "I", 5/16, "Q", "U", 25/64, 27/64, 29/64		

TAP DISPENSERS

DESCRIPTION	ITEM NO.	CAPACITY	PRICE EACH
 <p>Size: 7-3/8 x 7-3/4 x 14-5/8</p>	TD-FRACT	Holds fractional sizes 1/4-20 to 1-14 (Wt. 10-1/2 lbs.)	\$101.34
	TD-MACH	Holds machine screw sizes 2-56 to 12-28 (Wt. 13 lbs.)	125.34
	TD-MM	Holds metric sizes M3 to M24 (Wt. 10-1/2 lbs.)	101.34
Note: Dispenser will hold up to 12 each of every size.			

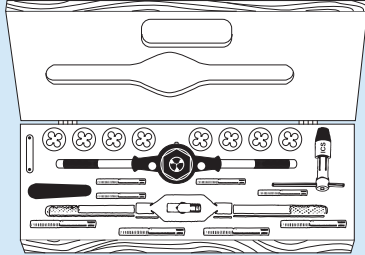
TAP AND ROUND ADJUSTABLE DIE SETS

WOODEN CASES

	DESCRIPTION	ITEM NO.	STEEL SPEC	CUT	THREAD FORM	PRICE
 <p>Sizes 1/4 to 3/4</p>	21 PC Tap and 1-1/2" Round Adjustable Die Set. Each set contains one Plug Tap and Round Adjustable Die in NC or NF Thread Form. Sizes are listed below. Set also includes 5 threading tools.	TRDS-SHT-21C	HSS	Right Hand	Coarse	\$505.06
		TRDS-SHT-21F	HSS	Right Hand	Fine	505.06
		TRDS-SHTL-21C	HSS	Left Hand	Coarse	531.56
		TRDS-SHTL-21F	HSS	Left Hand	Fine	531.56
		TRDS-SHTT-21C	TiN *	Right Hand	Coarse	577.44
		TRDS-SHTT-21F	TiN *	Right Hand	Fine	577.44
SIZES OF TAPS AND ROUND DIES IN SET						
NC (Coarse) 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10 NF (Fine) 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16 * Only taps are TiN Coated in set.						
THREADING TOOLS IN SET						
Adjustable Die Stock - 1-1/2" round Adjustable Tap Wrench - 1/4 to 1 Screw Pitch Gauge - Fractional			T-Handle Tap Wrench - 1/4 to 1/2 #5 Screwdriver			

METRIC TAP AND ROUND ADJUSTABLE DIE SET

WOODEN CASES

	DESCRIPTION	ITEM NO.	STEEL SPEC	CUT	THREAD FORM	PRICE	
 <p>Sizes M6 to M20</p>	21 PC Tap and 1-1/2" Round Adjustable Die Set. Each set contains one Plug Tap and Round Adjustable Die. Sizes are listed below. Set also includes 5 threading tools.	TRDS-SHTM-21C	HSS	Right Hand	Metric Coarse	\$554.38	
		SIZES OF TAPS AND ROUND DIES IN SET					
		NC (Coarse) M6.0 x 1.0, M8.0 x 1.25, M10.0 x 1.5, M12.0 x 1.75, M14.0 x 2.0, M16.0 x 2.0, M18.0 x 2.5, M20.0 x 2.50					
		THREADING TOOLS IN SET					
		Adjustable Die Stock - 1-1/2" round Adjustable Tap Wrench - M6 to M24 Screw Pitch Gauge - Metric			T-Handle Tap Wrench - M6 to M12 #5 Screwdriver		

NOTE Special boxed sets can be made to your requirements.

THREAD RESTORING FILES

ICS USA

SPECIAL PURPOSE

PRECISION CUT




Thread Restoring Files are designed to restore damaged external and internal threads of any diameter with one tool. They can be used on right or left hand threads or even be used as a thread gauge.

ITEM NO.	THREAD TYPE	THREADS	LENGTH x SIZE	PRICE	STD. PKG.	WT. (lbs.)
TRF-R	Regular	11, 12, 13, 14, 16, 18, 20, 24	9-1/4 x 3/8	\$48.44	1	.25
TRF-X	Extra Fine/Coarse	9, 10, 12, 16, 20, 27, 28, 32	9-1/4 x 3/8	48.44	1	.25
TRF-M	Metric	.75, 1.00, 1.25, 1.50, 1.75, 2.00, 3.00	9-1/4 x 3/8	48.44	1	.25
TRF-P	Pipe	8, 10, 11-1/2, 14, 16, 18, 24, 27	9-1/4 x 3/8	48.44	1	.25


SPIRAL POINT TAP/ROUND ADJUSTABLE DIE SET

PLASTIC CASE

	DESCRIPTION	ITEM NO.	STEEL SPEC	CUT	THREAD FORM	PRICE
 <p style="text-align: center;">40 PC TAP AND ROUND ADJUSTABLE DIE SET</p> <p style="text-align: center;">Sizes 1/4 to 1/2</p>	40 PC Tap and 1" Round Adjustable Die Set. Each set contains one Spiral Point Tap and Round Adjustable Die in NC and NF Thread Form. Sizes are listed below. Set also includes 5 threading tools.	TRDS-SPT-40	HSS	Right Hand	Coarse/Fine	\$240.00
	SIZES OF TAPS AND ROUND DIES IN SET					
	NC (Coarse) #4-40, #6-32, #8-32, #10-24, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13 NF (Fine) #10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20 NPT (Regular Taper) 1/8-27					
	THREADING TOOLS IN SET					
Adjustable Die Stock - 1" Round Adjustable Tap Wrench - #4 to 1/2" Screw Pitch Gauge - Fractional			T-Handle Tap Wrench - #0 to 1/4" #5 Screwdriver			

METRIC SPIRAL POINT TAP/ROUND ADJUSTABLE DIE SET

PLASTIC CASE


	DESCRIPTION	ITEM NO.	STEEL SPEC	CUT	THREAD FORM	PRICE
 <p style="text-align: center;">41 PC TAP AND ROUND ADJUSTABLE DIE SET</p> <p style="text-align: center;">Sizes M3 to M12</p>	41 PC Tap and 1" Round Adjustable Die Set. Each set contains one Spiral Point Tap and Round Adjustable Die. Sizes are listed below. Set also includes 5 threading tools.	TRDS-SPTM-41	HSS	Right Hand	Metric Coarse/ Fine	\$245.00
	SIZES OF TAPS AND ROUND DIES IN SET					
	NC (Coarse) M3.0 x .50, M4.0 x .70, M5.0 x .80, M6.0 x 1.0, M7.0 x 1.0, M8.0 x 1.25, M9.0 x 1.25, M10.0 x 1.50, M12.0 x 1.75 NF (Fine) M3.0 x .60, M4.0 x .75, M5 x .90, M9.0 x 1.00, M10.0 x 1.25, M12.0 x 1.50, BSPT (British Standard) 1/8-28					
	THREADING TOOLS IN SET					
Adjustable Die Stock - 1-1/2" round Adjustable Tap Wrench - M3 to M12 Screw Pitch Gauge - Metric			T-Handle Tap Wrench - M3 to M6 #5 Screwdriver			

NOTE

Special boxed sets can be made to your requirements.


AUTOMOTIVE RETHREADING TAP & DIE SET

PLASTIC CASE

	DESCRIPTION	ITEM NO.	CUT	THREAD TYPE	PRICE
54 PC AUTOMOTIVE RETHREADING TAP & DIE SET 	Each set contains one each NC & NF fractional & metric automotive rethreading taps and hex dies. Set also includes 3 thread restoring files.	ARTDS-54	Right Hand	NC & NF	\$118.00
	SIZES OF AUTOMOTIVE RETHREADING TAPS IN SET				
	NC-USS (Coarse)	1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12			
	NF-SAE (Fine)	1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18			
	METRIC	6x1.0, 8x1.25, 8x1.50, 10x1.00, 10x1.25, 10x1.50, 11x1.50, 12x1.25, 12x1.50, 12x1.75, 14x1.50			
SIZES OF AUTOMOTIVE RETHREADING DIES IN SET					
NC-USS (Coarse)	1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11				
NF-SAE (Fine)	1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/3-20, 9/16-18, 5/8-18				
METRIC	6x1.00, 6x1.25, 7x1.00, 8x1.00, 8x1.25, 8x1.50, 10x1.00, 10x1.25, 10x1.50, 11x1.50, 12x1.25, 12x1.50, 12x1.75, 14x1.50				
THREAD RESTORING FILES IN SET					
Regular File for	11, 12, 13, 14, 16, 18, 20, 24 threads per inch				
Metric File for	.80, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00 threads per inch				
Fine/Pipe File for	8, 9, 10, 11-1/2, 20, 27, 28, 32 threads per inch				


THREAD RESTORING FILE & AUTOMOTIVE DIE SETS

PLASTIC CASES

	DESCRIPTION	ITEM NO.	CUT	THREAD TYPE	PRICE
18 PC THREAD RESTORING FILE & AUTOMOTIVE DIE SET 	Each set contains one each NC & NF fractional automotive hexagon rethreading dies. Set also includes 2 thread restoring files.	TRFADS-18 TRFADS-18L	Right Hand Left Hand	NC & NF NC & NF	\$48.00 76.32
	SIZES OF AUTOMOTIVE RETHREADING DIES IN SET				
	NC-USS (Coarse)	1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10			
	NF-SAE (Fine)	1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/3-20, 9/16-18, 5/8-18, 3/4-16			
	THREAD RESTORING FILES IN SET				
Regular File for	11, 12, 13, 14, 16, 18, 20, 24 threads per inch				
Extra Fine/Coarse File for	9, 10, 12, 16, 20, 27, 28, 32 threads per inch				
AVAILABLE IN RIGHT OR LEFT HAND THREAD					

METRIC THREAD RESTORING FILE & AUTOMOTIVE DIE SET


PLASTIC CASES

	DESCRIPTION	ITEM NO.	CUT	THREAD TYPE	PRICE
13 PC METRIC THREAD RESTORING FILE & AUTOMOTIVE DIE SET 	Each set contains one each metric automotive hexagon rethreading dies and one each thread restoring file.	TRFADS-13M	Right Hand	Metric	\$35.50
	SIZES OF AUTOMOTIVE RETHREADING DIES IN SET				
	METRIC	6x1.0, 6x1.25, 8x1.00, 8x1.25, 8x1.50, 10x1.00, 10x1.25, 10x1.50, 12x1.25, 12x1.50, 14x1.25, 14x1.50			
	THREAD RESTORING FILES IN SET				
Metric File for	.80, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00 threads per inch				

HIGH SPEED STEEL MINIATURE TAP AND ROUND DIE SET

PLASTIC CASE


30 piece High Speed Steel Machine Screw Size Miniature Tap and Die Sets are designed to be a professional general purpose tap and die set with all the most popular tap and die machine screw sizes (#0 to #4-40) for use by camera repair shops, clock repair shops, model builders, jewelry manufacturers, business machine repair, electronic equipment, mold and die makers, medical equipment repair, fishing lure manufacturers, and tongue and body piercing. Plastic case has individual compartments for tap and die storage and easy access.

	DESCRIPTION	ITEM NO.	STEEL SPEC	CUT	THREAD FORM	PRICE
	Each set contains 2 plug taps and 1 round die for every size. Set also includes multi-size tap and die holder.	MTRDS-30	HSS	Right Hand	NC, NF, UM	\$39.00
	SIZES OF TAPS AND ROUND DIES IN SET					
	NC (Coarse)	00-90, 1-64, 2-56, 3-48, 4-40				
	NF (Fine)	0-80, 1-72, 2-64, 3-56				
TAP AND ROUND DIE HOLDER IN SET						
Multi-Size Tap and Die Holder holds 5/8 or 7/16 round dies and has two collet guides for holding taps. Both taps and dies lock into position with one screw.						

HIGH SPEED STEEL METRIC MINIATURE TAP AND ROUND DIE SET

PLASTIC CASE


30 piece High Speed Steel Metric Size Miniature Tap and Die Sets are designed to be a professional general purpose tap and die set with all the most popular tap and die metric sizes (M1.00 to M2.50) for use by camera repair shops, clock repair shops, model builders, jewelry manufacturers, business machine repair, electronic equipment, mold and die makers, medical equipment repair, fishing lure manufacturers, and tongue and body piercing. Plastic case has individual compartments for tap and die storage and easy access.

	DESCRIPTION	ITEM NO.	STEEL SPEC	CUT	THREAD FORM	PRICE
	Each set contains 2 plug taps and 1 round die for every size. Set also includes multi-size tap and die holder.	MTRDS-30M	HSS	Right Hand	Metric	\$39.00
	SIZES OF TAPS AND ROUND DIES IN SET					
	METRIC SIZES	M1.0x0.25, M1.1x0.25, M1.2x0.25, M1.4x0.30, M1.6x0.35 M1.8x0.35, M2.0x0.40, M2.2x0.45, M2.5x0.45				
	TAP AND ROUND DIE HOLDER IN SET					
Multi-Size Tap and Die Holder holds 5/8 or 7/16 round dies and has two collet guides for holding taps. Both taps and dies lock into position with one screw.						

MODEL AIRPLANE TAP SET

PLASTIC CASE


5 Piece Model Airplane Tap Sets were designed for model airplane enthusiasts for building model airplanes. Available in High Speed Steel or Carbon Steel, each set contains the most popular tap sizes (#2-56 to #8-32) that model airplane builders use. Plastic case has individual compartments for tap storage and easy access.

DESCRIPTION	ITEM NO.	STEEL SPEC	THREAD FORM	PRICE
<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>5 PC MODEL AIRPLANE TAP SET</p>  <p>SIZES #2-56 to #8-32</p> </div> <div style="flex: 2;"> <p>Each set contains one each of listed NC (Coarse) tap sizes.</p> </div> </div>	MATS-CS-5	Carbon Steel	NC	\$21.00
	MATS-HS-5	High Speed Steel	NC	\$29.00
	SIZES OF TAPS IN SET			
<p>NC (Coarse) #2-56, #3-48, #4-40, #6-32, #8-32</p>				

MODEL RAILROAD TAP SET

PLASTIC CASE


4 Piece Model Railroad Tap Sets were designed for model railroad enthusiasts for building model railroads. Available in High Speed Steel or Carbon Steel, each set contains the most popular tap sizes (#00-90 to #2-56) that model railroad builders use. Plastic case has individual compartments for tap storage and easy access.

DESCRIPTION	ITEM NO.	STEEL SPEC	THREAD FORM	PRICE
<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>4 PC MODEL RAILROAD TAP SET</p>  <p>SIZES #00-90 to #2-56</p> </div> <div style="flex: 2;"> <p>Each set contains one each of listed NC (Coarse) tap sizes.</p> </div> </div>	MRTS-CS-4	Carbon Steel	NC	\$21.00
	MRTS-HS-4	High Speed Steel	NC	\$29.00
	SIZES OF TAPS IN SET			
<p>NC (Coarse) #00-90, #0-80, #1-72, #2-56</p>				

RATCHETING PIPE THREADER SET

PLASTIC CASES


The 8 Piece Ratcheting Pipe Threader Set was designed to cut precision NPT pipe threads measuring 3/8", 1/2", 3/4", 1", or 1-1/4". It is a compact and sturdy set complete with unscrewable ratchet handle and extension. Die heads snap in and can be removed by pulling the ratchet knob out to position. Ratchet knob can be set for forward or reverse direction. Tools in set are made of alloy steel and malleable iron to withstand severe usage. Set comes complete with heavy duty plastic case with carrying handle for easy transportation and storage.

	ITEM NO.	THREADING TOOLS IN SET	THREAD FORM	PRICE
8 PC RATCHETING PIPE THREADER SET 	RPTS-8	Die Heads 3/8, 1/2, 3/4, 1, & 1-1/4 Ratchet Head (Exposed Style) Ratchet Handle Ratchet Handle Extension	NPT	\$64.98

RATCHETING PIPE THREADER SET

PLASTIC CASES

The 7 Piece Ratcheting Pipe Threader Set was designed to cut large precision NPT pipe threads measuring 1-1/4", 1-1/2" and 2". It is a compact and sturdy set complete with unscrewable ratchet handle and extension. Die heads snap in and can be removed by pulling the ratchet knob out to position. Ratchet knob can be set for forward or reverse direction. Tools in set are made of alloy steel and malleable iron to withstand severe usage. Set comes complete with heavy duty plastic case with carrying handle for easy transportation and storage.

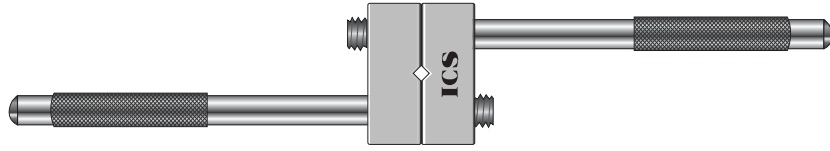
	ITEM NO.	THREADING TOOLS IN SET	THREAD FORM	PRICE
7 PC RATCHETING PIPE THREADER SET 	RPTS-7	Die Heads 1-1/4, 1-1/4, & 2 Ratchet Head (Exposed Style) Ratchet Handle Ratchet Handle Extensions (2)	NPT	\$89.94

ADJUSTABLE TAP AND REAMER WRENCH

ICS USA

GENERAL PURPOSE

OFFSET HANDLE



These economical wrenches are made for general purpose work. They adjust by evenly turning two knurled handles.

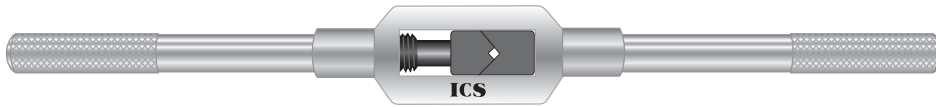
ITEM NO.	OVERALL LENGTH	CAPACITY				PRICE
		HAND TAPS	MACHINE TAPS	PIPE TAPS	HAND REAMERS	
TWOH5	7	1/16 - 1/2	0 - 14	1/8	11/64 - 7/16	\$10.78

ADJUSTABLE TAP AND REAMER WRENCHES

ICS USA

GENERAL PURPOSE

STRAIGHT TYPE



These wrenches are solidly built for a lifetime of industrial service under normal conditions. Size 0 to 7 wrenches have solid handles, one of which is forged integral with the body. The other handles turn for size adjustment. Size 7-1/2 to 8 wrenches have solid handles which are removable. One handle turns for size adjustment.

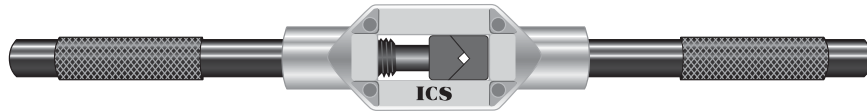
ITEM NO.	OVERALL LENGTH	CAPACITY				PRICE
		HAND TAPS	MACHINE TAPS	PIPE TAPS	HAND REAMERS	
TW-0	7	1/16 - 1/4	0 - 14	-	1/8 - 21/64	\$ 8.74
TW-4	9	1/16 - 3/8	0 - 14	-	1/8 - 25/64	12.22
TW-5	11	5/32 - 1/2	7 - 14	1/8 - 1/4	11/64 - 7/16	14.78
TW-6	15	5/32 - 3/4	7 - 14	1/8 - 1/4	11/64 - 41/64	19.04
TW-7	19	1/4 - 1-1/8	-	1/8 - 3/4	9/32 - 29/32	33.50
TW-7.5	31	1/2 - 1-3/8	-	1/8 - 1	3/4 - 1-5/32	91.84
TW-8	40	3/4 - 1-5/8	-	3/8 - 1-1/4	37/64 - 1-11/32	140.00
TW-9.5	54	1 - 2-1/2	-	3/4 - 2	7/8 - 2-1/8	169.46

ADJUSTABLE TAP AND REAMER WRENCHES

ICS USA

HEAVY DUTY

STRAIGHT TYPE



These heavy duty wrenches are built for a lifetime of industrial service even under hard use. All sizes have solid handles, one of which is forged integral with the body. The other handle turns for size adjustment.

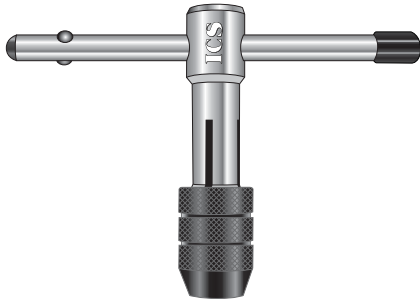
ITEM NO.	OVERALL LENGTH	CAPACITY				PRICE
		HAND TAPS	MACHINE TAPS	PIPE TAPS	HAND REAMERS	
TWHD 5	11	5/32 - 1/2	4 - 14	1/8	11/64 - 7/16	\$16.34
TWHD 6	15	1/4 - 3/4	-	1/8 - 1/4	11/16 - 41/64	28.00
TWHD 7	19	1/2 - 1-1/8	-	1/8 - 3/4	3/4 - 29/32	49.80

T-HANDLE TAP WRENCHES

ICS USA

GENERAL PURPOSE

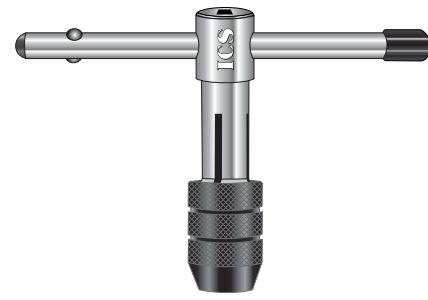
FIXED JAWS



Plain Type

T-Handle Tap Wrenches are designed for hand tapping. They also can be used with reamers, drills, and screw extractors. T-Handle may be slipped from side to side for complete turns in close quarters or be extended full length in either direction for more leverage.

ITEM NO.	TAP CAPACITY	PRICE
TTW-1	#0 - 1/4	\$4.96
TTW-2	#12 - 5/16	-
TTW-3	1/4 - 1/2	8.70



3/8" Square Drive Type

T-Handle Tap Wrenches with 3/8" square drive are designed with a removable handle to insert a 3/8" ratchet or extension when desired. All other features are same as regular T-Handle Tap Wrenches.

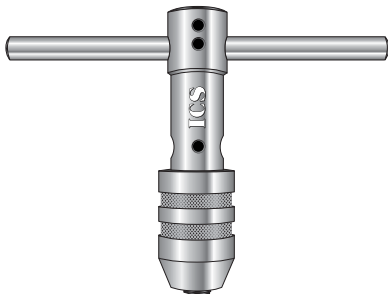
ITEM NO.	TAP CAPACITY	PRICE
TTWSD 3	1/4 - 1/2	\$12.93

T-HANDLE TAP WRENCHES

ICS USA

HEAVY DUTY

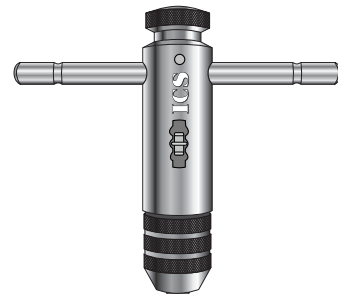
FIXED JAWS



Piloted Spindle

T-Handle Tap Wrenches with a piloted spindle are designed for threading a drilled hole manually on a drill press or lathe, without moving the work piece from set-up.

ITEM NO.	TAP CAPACITY	PRICE
TTWP-1	#0 - 1/4	\$15.46
TTWP-2	1/4 - 1/2	22.58
TTWP-3	1/2 - 3/4	52.06



Ratchet Type

T-Handle Tap Wrenches with a ratchet and slip handle are designed with a selector switch for left, right, or rigid operation.

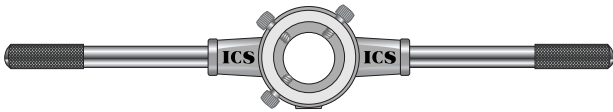
ITEM NO.	TAP CAPACITY	PRICE
TTWR-1	#0 - #8	\$17.44
TTWR-2	#8 - 1/4	19.02
TTWR-3	1/4 - 1/2	23.12

DIE STOCKS

ICS USA

HEAVY DUTY

THREE SCREW TYPE



Heavy Duty Three-Screw Type Die Stocks are designed to hold round adjustable dies of any construction. (Open style adjustment or internal screw adjustment type).

Adjustable Guide Die Stocks are designed to hold round and hexagon dies. Three jaw, self-centering adjustable guides provide easy starting and accurate threading.

ITEM NO.	SIZE OF DIE	LENGTH	PRICE
DSH052	13/16	6-1/4	\$7.44
DSH100	1	9	7.44
DSH132	1-1/2	14	12.06
DSH200	2	23	19.14
DSH232	2-1/2	29	34.42
DSH300	3	40	43.82
DSH400	4	42	68.64
DSH500	5	46	116.42

ITEM NO.	SIZE AND TYPE OF DIE	LENGTH	PRICE
DSAG100	1" RD or 1" Hex	9-7/8	\$16.38
DSAG132	1-1/2" RD or 1-7/16" Hex	14-1/8	29.64
DSAG156	1-7/8" Hex	23	52.22

DIE STOCKS

ICS USA

GENERAL PURPOSE

SOLID DIE CASTING

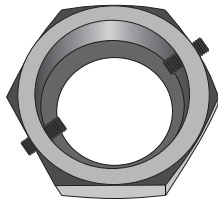


Solid Die Stocks are designed to hold 1" Round or Hexagon Dies. Dies easily lock in position with one set screw. Precision molded for accurate threading.

ITEM NO.	SIZE AND TYPE OF DIE	LENGTH	PRICE
DSE100	1" RD or 1" Hex	9	\$9.04

HEXAGON DIE ADAPTERS

SPECIAL PURPOSE



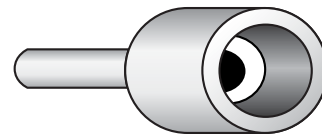
ICS IND

Hexagon Die Adapters convert round dies to hexagon dies when space limitations rule out use of die stocks. Round dies easily lock in position with two set screws.

ITEM NO.	SIZE OF DIE	HEX DIA. ACROSS FLATS	PRICE
HDA 052	13/16	1-1/2	\$7.58
HDA 100	1	1-1/2	10.52
HDA 132	1-1/2	2	12.88
HDA 200	2	2-1/2	18.88

FLOATING DIE HOLDERS

SPECIAL PURPOSE



Floating Die Holders are designed for short or medium run threading of shafts on lathes, milling machines, and tapping heads.

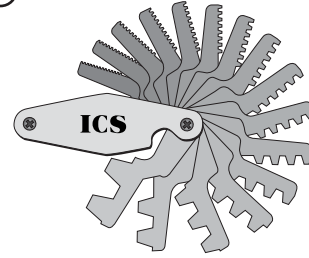
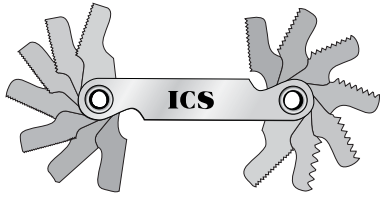
ITEM NO.	SIZE OF DIE	SHANK DIE	OVERALL LENGTH	THREAD RANGE	PRICE
FDH 052	13/16	1/2	3	#0 to 3/8	\$27.16
FDH 100	1	1/2	3	#0 to 3/8	27.16
FDH 132	1-1/2	3/4	3	1/4 to 3/4	37.70

SCREW PITCH GAUGES

ICS

USA

SPECIAL PURPOSE



Screw Pitch Gauges quickly identify and measure V, Unified, American National 60° threads and Metric threads. Blades are clearly marked with thread size.

ITEM NO.	GAUGE RANGE	PRICE
SPG-F	9 to 40 Fractional	\$7.54

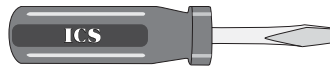
ITEM NO.	GAUGE RANGE	PRICE
SPG-M	.45 to 2.5M Metric	7.54

DIE STOCK SCREWDRIVER

ICS

USA

SPECIAL PURPOSE



Die Stock Screwdriver is designed for adjusting set screws on Die Stocks and Round Adjustable Dies. They have a plastic handle with high carbon blade and are used in ICS tap and drill sets.

ITEM NO.	BLADE SIZE	PRICE
S-DS-008 x 216	1/8 x 2-1/4	\$2.00

TAP GUIDE

ICS

USA

SPECIAL PURPOSE

PRECISION GROUND



A Tap Guide is designed to start every tap straight in the hole. It has a 3/16" dia. reversible tension pin for male or female hole centering of tap. 1/2" dia. shank is hardened and knurled for easy handling. Tension spring is adjustable.

SHANK	SHANK	TENSION PIN	PRICE
TG032	1/2	3/16	\$8.92

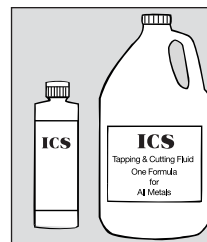
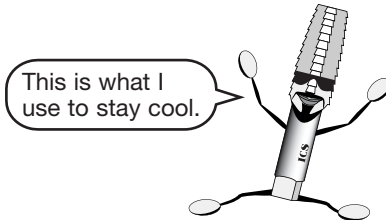
TAPPING & CUTTING FLUID

ICS

USA

SPECIAL PURPOSE

OZONE SAFE



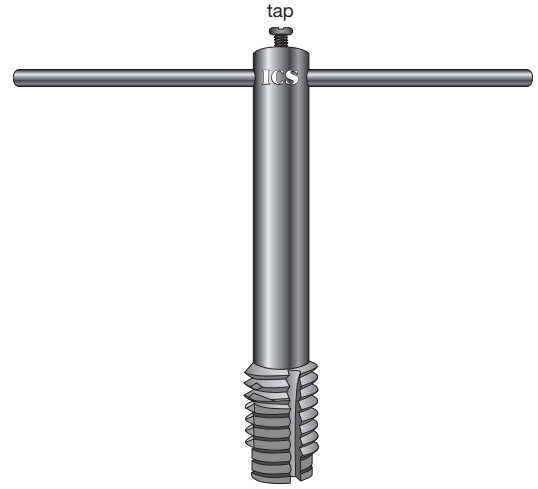
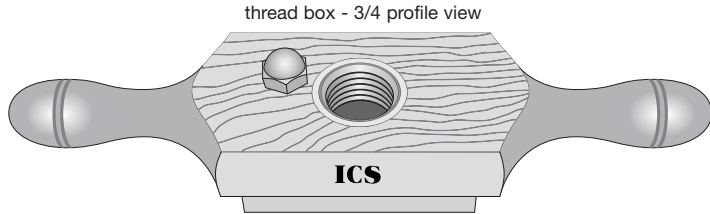
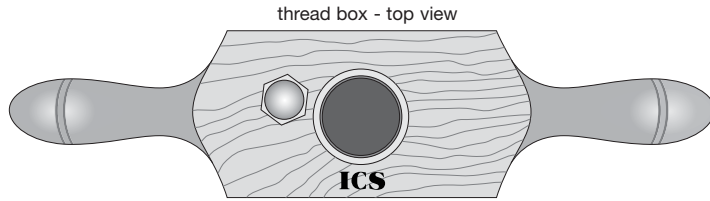
ICS Tapping and Cutting Fluid is formulated for all metals, especially aluminum and stainless steel. It does not contain sulfur or carbon tetrachloride and will not stain any metal. Dramatically extends tool life and controls chip welding.

ITEM NO.	CONTAINER SIZE	STANDARD PACKAGE	PRICE CASE	WEIGHT (lbs.)
TCF 004	4 oz.	24/case	\$ 53.76	7
TCF 016	Pint	12/case	78.40	13
TCF 100	Gallon	4/case	156.80	35
TCF 500	5 Gallon	1/pail	179.20	42

THREAD BOX AND TAP SET

ICS USA

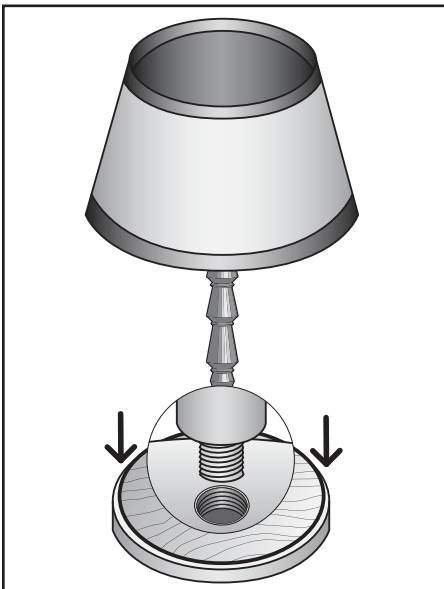
SPECIAL PURPOSE



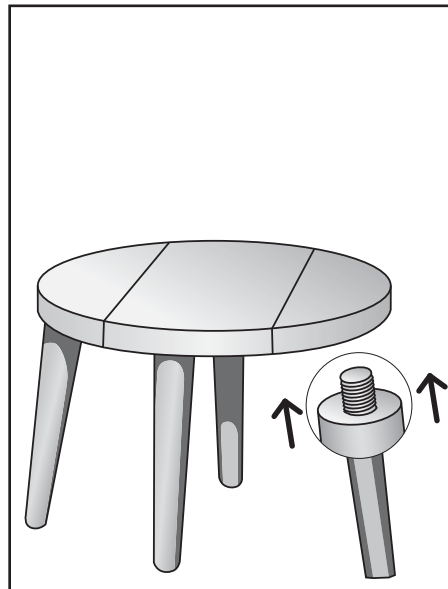
Thread Box and Tap Sets are designed to make sure-holding threads on wood dowels and matching thread hole in wood. Handy set for woodworking and maintenance departments. Each wood threading set contains thread box and matching tap. Handy for threading, rethreading or tapping many wood furnishings. Perfect for the DIYer.

ITEM NO.	FOR USE WITH	SET CONTAINS	PRICE
WTS032	1/2" Dowel Rod	1 each: tap and thread box	\$46.00
WTS048	3/4" Dowel Rod	1 each: tap and thread box	49.34
WTS100	1" Dowel Rod	1 each: tap and thread box	52.60

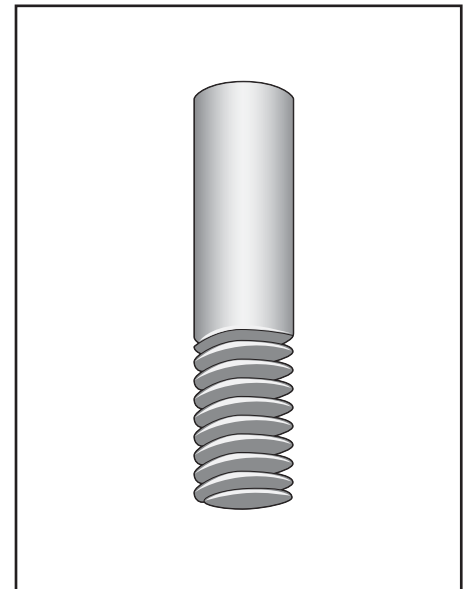
EXAMPLES OF USE



1. Threading and/or tapping wooden lamps.



2. Threading and/or tapping stools and chairs.



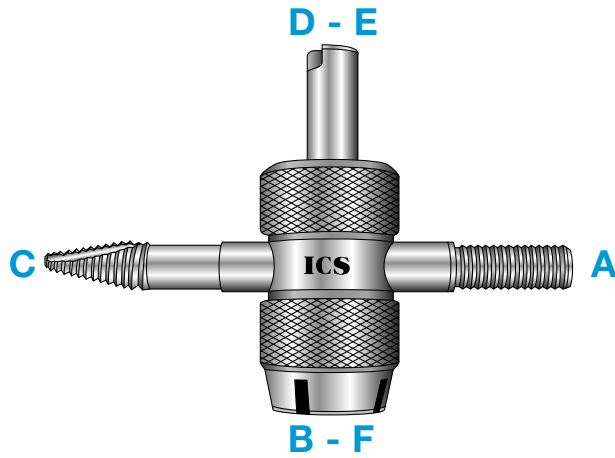
3. Threading or rethreading broomstick/mop handles.

TOOL STEEL
COMBINATION VALVE CORE TOOL

ICS

WIS

SPECIAL PURPOSE



The Combination Valve Core Tool was designed to be a 6 in 1 valve tool.

USES

- (A) rethreading inside of a valve stem
- (B) rethreading outside of a valve stem
- (C) a screw extractor to remove valve cores even if shoulders are broken
- (D) removal of valve cores
- (E) insertion of valve cores
- (F) for use as a T-handle to pull tire valve into rim hole

A handy tool for any mechanic. It is made of tool steel for long life and durability.

ITEM NO.	DESCRIPTION	PRICE
CVCT	6 in 1 Combination Valve Core Tool	\$2.98