



## High-Speed Steel Taps & Dies

### Taps



Special Thread Taps . . . . . B2

### Multi-Purpose Taps



 Spiral Pointed . . . . . B3  
 Spiral Fluted . . . . . B3

### High Performance Taps



#### For Low Tensile Materials

 Spiral Pointed . . . . . B4  
 Spiral Fluted . . . . . B4

#### For High Tensile Materials

 Spiral Pointed . . . . . B5  
 Spiral Fluted . . . . . B5

### Hand Taps

Alfa USA® . . . . . B6  
 Eco Pro® . . . . . B7  
 Alfa USA - Black Oxide . . . . . B8  
 Special Thread . . . . . B9  
 Metric Alfa USA® . . . . . B10  
 Metric Eco Pro® . . . . . B11  
 Metric, Special Thread . . . . . B12  
 Oversize +.005 . . . . . B13  
 Eight Pitch . . . . . B13  
 Left Hand . . . . . B14  
 Left Hand Metric . . . . . B15  
 Tap Bit / Monolock® 1/4" Power Shank . . . . . B15


### Spiral Pointed Taps

Spiral Pointed Alfa USA® . . . . . B16  
 Spiral Pointed Eco Pro® . . . . . B16  
 Spiral Pointed Alfa USA®, Black Oxide . . . . . B16  
 Spiral Pointed Metric . . . . . B17  
 Spiral Pointed Oversize +.005 . . . . . B17  
 Spiral Pointed TiN Coated . . . . . B17

### Spiral Fluted Taps

Spiral Fluted Taps - 52° Helix . . . . . B18

### Special Purpose Taps

Screw Thread Insert (STI) Taps . . . . . B41  
 Thread Forming . . . . . B19  
 Pulley . . . . . B19  
 Nut . . . . . B19

### Pipe Taps

Taper Pipe, NPT Regular . . . . . B20  
 Taper Pipe, Interrupted . . . . . B20  
 Taper Pipe, (Dry Seal) NPTF . . . . . B20  
 Taper Pipe, BSP (British Std.) . . . . . B20  
 Straight Pipe, NPS . . . . . B21  
 Taper Pipe Reamers . . . . . B21  
 Rethreading Taps . . . . . B21  
 Acme Taps . . . . . B21

### Dies

Round Adjustable . . . . . B22  
 Round Adjustable, Metric . . . . . B23  
 Round Adjustable, Special Thread . . . . . B24-25  
 Round Adjustable, Special Thread, Metric . . . . . B26  
 Hexagon . . . . . B27  
 Hexagon Eight Pitch . . . . . B27



## Carbon Steel Taps & Dies

### Hand Taps

Hand	B28
Hand, Metric	B29
Taper Pipe, NPT	B30
Spark Plug Taps & Set	B30

### Dies

Hexagon	B31
Hexagon - Metric	B31
Hexagon Rethreading	B32
Hexagon Rethreading - NPT	B32
Hexagon Rethreading - Left	B32
Hexagon Rethreading - Metric	B33
Hexagon Rethreading - Metric - Left	B33
Round Adjustable	B34
Round Adjustable (British Std.) Pipe Die	B34

## Tapping Tools & Accessories

### Tapping Tools

T-Handle Tap Wrenches	B35
<b>NEW</b> With Ratchet	B35
With Guide	B35
Die Stock	B35
Adjustable Tap / Reamer Wrench	B35
Thread Pitch Gages	B35

### Thread Files

Universal	B34
Thread Restoring	B34

### Extractors & Extensions

Screw Extractors	B36
Tap Extractors	B37
<b>NEW</b> Tap Extensions	B37

### Screw / Thread Inserts & Kits

Solid Screw Inserts & Kits	B38
Helical Thread Inserts & Repair Kits	B39-40
Screw Thread Insert (STI) Taps	B41

## Tap & Die Sets

<b>NEW</b> High-Speed Steel / Carbon Steel Sets	B42-44
Hexagon Rethreading Die Sets	B45
Tap & Drill Sets	B46
Tap Sets	B47
Tap Dispenser Cabinets	B48

Tap Terminology	B49
-----------------	-----



# Special Thread Taps

We offer special inch and metric HSS taps in a wide range of styles & types;  
**Straight flute, spiral flute and spiral point geometry.**

- Shipment within 24-48 hours on most items.
- Available in bright finish.
- Coated taps are available with longer delivery time.
- Manufactured in the USA.
- Visit our website for more information.



## Some of the Special Taps we offer include:

6mm x 1.0  
D3 2 FL.  
Spiral Point

#8-32 NC  
+.005 2 FL.  
Spiral Point for Plating

8mm x 1.25  
D3 2FL.  
Spiral Point

1/8"-27 NPT/F  
Taper Pipe Tap  
Spiral Flute

1/4-18 NPTF  
Interrupted Thread  
5 FL. Taper Pipe x 6"

1/2-28 NEF  
H3 4 FL.  
Plug Tap

#4-40 NC  
L.H. Spiral Point

3/4"-20 NEF  
L.H. Hand Tap

5/16-24 NF  
H7 4 FL.  
Bottoming Tap

1"-8 NC  
H4 3 FL.  
Spiral Point

#8-36 NF  
Form Tap

2"-4-1/2 NC  
Hand Tap

# Multi-Purpose Taps

For Stainless Steel and other applications



Ultimate extra life taps for tougher jobs

**HSS-M4 Hi-Vanadium Steel**  
**Ground Thread**  
**Steam Oxide Finish**  
**DIN Flute – ANSI Shank**

**Features:**

- Specially designed for a wide range of materials.
- Steam oxide tempered surface finish.
- Ground thread.
- High wear resistant.
- Suitable for high strength steels, tool steels and stainless steels.
- For threading up to HRC40 hardened material.
- With thread relief to suit specific applications.
- 2B class of fit.

## SPIRAL POINTED TAPS

HIGH-VANADIUM STEEL



## SPIRAL FLUTED TAPS

48° SPIRAL 8° - 10° HOOK



### PLUG CHAMFER

**NEW!**

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>				
4	40	2	H2	HPMP90107
6	32	2	H3	HPMP90111
6	40	2	H2	HPMP90112
8	32	3	H3	HPMP90113
10	24	3	H3	HPMP90115
10	32	3	H3	HPMP90116
<b>FRACTIONAL</b>				
1/4"	20	3	H5	HPMP90130
1/4"	28	3	H4	HPMP90131
5/16"	18	3	H5	HPMP90132
5/16"	24	3	H4	HPMP90133
3/8"	16	3	H5	HPMP90134
3/8"	24	3	H4	HPMP90135
7/16"	14	3	H5	HPMP90136
7/16"	20	3	H5	HPMP90137
1/2"	13	3	H5	HPMP90138
1/2"	20	3	H5	HPMP90139
5/8"	11	4	H6	HPMP90142
5/8"	18	4	H5	HPMP90143
3/4"	10	4	H6	HPMP90146
3/4"	16	4	H5	HPMP90147
7/8"	9	4	H6	HPMP90149
7/8"	14	4	H6	HPMP90150
1"	8	4	H6	HPMP90153
1"	12	4	H6	HPMP90154

1 per pack

### SEMI-BOTTOMING STYLE 2 - 2-1/2 THREAD CHAMFER

**NEW!**

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>				
4	40	3	H2	HPMP70907
6	32	3	H3	HPMP70911
8	32	3	H3	HPMP70913
10	24	3	H3	HPMP70915
10	32	3	H3	HPMP70916
<b>FRACTIONAL</b>				
1/4"	20	3	H5	HPMP70930
1/4"	28	3	H4	HPMP70931
5/16"	18	3	H5	HPMP70932
5/16"	24	3	H4	HPMP70933
3/8"	16	3	H5	HPMP70934
3/8"	24	3	H4	HPMP70935
7/16"	14	3	H5	HPMP70936
7/16"	20	3	H5	HPMP70937
1/2"	13	3	H5	HPMP70938
1/2"	20	3	H5	HPMP70939
5/8"	11	3	H6	HPMP70942
5/8"	18	3	H5	HPMP70943
3/4"	10	3	H6	HPMP70946
3/4"	16	3	H5	HPMP70947
7/8"	9	4	H6	HPMP70949
7/8"	14	4	H6	HPMP70950
1"	8	4	H6	HPMP70953
1"	12	4	H6	HPMP70954

1 per pack

Multi-Purpose Taps

**B**

# High Performance Taps

For Low Tensile Materials  
(Mild Steel)



With thread relief to suit specific applications

HSS-M4 Hi-Vanadium Steel  
Ground Thread  
Steam Oxide Finish

Features:

- Specially designed for low tensile materials, such as carbon steel 1010 or 1018.
- Steam oxide tempered surface finish.
- Ground thread.
- High wear resistant.
- For working on materials up to HRC-32.

## SPIRAL POINTED TAPS

HIGH-VANADIUM STEEL



## SPIRAL FLUTED TAPS

50° SPIRAL 10° - 12° HOOK



### PLUG CHAMFER

**NEW!**

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>				
4	40	2	H2	HPLT30707
6	32	2	H3	HPLT30711
6	40	2	H2	HPLT30712
8	32	3	H3	HPLT30713
10	24	3	H3	HPLT30715
10	32	3	H3	HPLT30716
<b>FRACTIONAL</b>				
1/4"	20	3	H5	HPLT30730
1/4"	28	3	H4	HPLT30731
5/16"	18	2	H5	HPLT30732
5/16"	24	3	H4	HPLT30733
3/8"	16	3	H5	HPLT30734
3/8"	24	3	H4	HPLT30735
7/16"	14	3	H5	HPLT30736
7/16"	20	3	H5	HPLT30737
1/2"	13	3	H5	HPLT30738
1/2"	20	3	H5	HPLT30739
5/8"	11	4	H5	HPLT30742
5/8"	18	4	H5	HPLT30743
3/4"	10	4	H5	HPLT30746
3/4"	16	4	H5	HPLT30747
7/8"	9	4	H6	HPLT30749
7/8"	14	4	H6	HPLT30750
1"	8	4	H6	HPLT30753
1"	12	4	H6	HPLT30754

1 per pack

### SEMI-BOTTOMING STYLE 2 - 2-1/2 THREAD CHAMFER

**NEW!**

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>				
4	40	3	H2	HPLT71107
6	32	3	H3	HPLT71111
8	32	3	H3	HPLT71113
10	24	3	H3	HPLT71115
10	32	3	H3	HPLT71116
<b>FRACTIONAL</b>				
1/4"	20	3	H5	HPLT71130
1/4"	28	3	H4	HPLT71131
5/16"	18	3	H5	HPLT71132
5/16"	24	3	H4	HPLT71133
3/8"	16	3	H5	HPLT71134
3/8"	24	3	H4	HPLT71135
7/16"	14	3	H5	HPLT71136
7/16"	20	3	H5	HPLT71137
1/2"	13	3	H5	HPLT71138
1/2"	20	3	H5	HPLT71139
5/8"	11	3	H5	HPLT71142
5/8"	18	3	H5	HPLT71143
3/4"	10	3	H5	HPLT71146
3/4"	16	3	H5	HPLT71147
7/8"	9	4	H6	HPLT71149
7/8"	14	4	H6	HPLT71150
1"	8	4	H6	HPLT71153
1"	12	4	H6	HPLT71154

1 per pack

High Performance Taps

**B**

# High Performance Taps

For High Tensile Materials  
(Titanium & Nickel Alloys)



With thread relief to suit specific applications

HSS-PM Sintered Metal Steel  
Ground Thread  
Steam Oxide Finish

Features:

- Specially designed for high tensile materials.
- Steam oxide tempered surface finish.
- Ground thread.
- High wear resistant.
- For use on hardened materials up to HRC-44.
- Suitable for alloy steels, tool steels, nickel alloy and titanium alloy steel.

## SPIRAL POINTED TAPS

HIGH-VANADIUM STEEL



## SPIRAL FLUTED TAPS

24° SPIRAL 8° - 10° HOOK



### PLUG CHAMFER

**NEW!**

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>				
4	40	2	H2	HPHT90207
5	40	2	H2	HPHT90211
6	32	2	H3	HPHT90212
8	32	3	H3	HPHT90213
10	24	3	H3	HPHT90215
10	32	3	H3	HPHT90216
<b>FRACTIONAL</b>				
1/4"	20	3	H3	HPHT90230
1/4"	28	3	H3	HPHT90231
5/16"	18	3	H3	HPHT90232
5/16"	24	3	H3	HPHT90233
3/8"	16	3	H3	HPHT90234
3/8"	24	3	H3	HPHT90235
7/16"	14	3	H3	HPHT90236
7/16"	20	3	H3	HPHT90237
1/2"	13	3	H3	HPHT90238
1/2"	20	3	H3	HPHT90239
5/8"	11	4	H3	HPHT90242
5/8"	18	4	H3	HPHT90243
3/4"	10	4	H3	HPHT90246
3/4"	16	4	H3	HPHT90247

1 per pack

### SEMI-BOTTOMING STYLE 2 - 2-1/2 THREAD CHAMFER

**NEW!**

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>				
4	40	3	H2	HPHT71007
6	32	3	H3	HPHT71011
8	32	3	H3	HPHT71013
10	24	3	H3	HPHT71015
10	32	3	H3	HPHT71016
<b>FRACTIONAL</b>				
1/4"	20	3	H3	HPHT71030
1/4"	28	3	H3	HPHT71031
5/16"	18	3	H3	HPHT71032
5/16"	24	3	H3	HPHT71033
3/8"	16	3	H3	HPHT71034
3/8"	24	3	H3	HPHT71035
7/16"	14	3	H3	HPHT71036
7/16"	20	3	H3	HPHT71037
1/2"	13	3	H3	HPHT71038
1/2"	20	3	H3	HPHT71039
5/8"	11	3	H3	HPHT71042
5/8"	18	3	H3	HPHT71043
3/4"	10	3	H3	HPHT71046
3/4"	16	3	H3	HPHT71047

1 per pack

High Performance Taps

**B**

# Hand Taps - Alfa USA

Super High-Speed Steel  
Ground Thread, Right Hand



Taper, Plug, Bottoming & Sets



**Features:**

- General purpose taps can be used by hand or under power, in through (open both ends) or blind holes (closed one end).
- Suitable for tapping most materials.
- Standard "H" limits provide adequate "class of fit."
- **Taper taps** (7 to 10 threads). Longest chamfer insures easier starting.
- **Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
- **Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.

NC = National Coarse NF = National Fine NS = National Standard

TAP SIZE	THREADS PER INCH			NO. OF FLUTES	GRIND LIMITS	STOCK #			
	NC	NF	NS			TAPER	PLUG	BOTTOM	SET OF 3
<b>MACHINE SCREW SIZES</b>									
0	80		NF	2	H1	HTT170000	HTP170000	HTB170000	HTS170000
1	64		NC	2	H1	HTT170001	HTP170001	HTB170001	HTS170001
1	72		NF	2	H1	HTT170002	HTP170002	HTB170002	HTS170002
2	56		NC	3	H2	HTT170003	HTP170003	HTB170003	HTS170003
2	64		NF	3	H2	HTT170004	HTP170004	HTB170004	HTS170004
3	48		NC	3	H2	HTT170005	HTP170005	HTB170005	HTS170005
3	56		NF	3	H2	HTT170006	HTP170006	HTB170006	HTS170006
4	40		NC	3	H2	HTT170007	HTP170007	HTB170007	HTS170007
4	48		NF	3	H2	HTT170008	HTP170008	HTB170008	HTS170008
4	36		NS	3	H2	HTT170008A	HTP170008A	HTB170008A	HTS170008A
5	40		NC	3	H2	HTT170009	HTP170009	HTB170009	HTS170009
5	44		NF	3	H2	HTT170010	HTP170010	HTB170010	HTS170010
6	32		NC	3	H3	HTT170011	HTP170011	HTB170011	HTS170011
6	40		NF	3	H2	HTT170012	HTP170012	HTB170012	HTS170012
8	32		NC	4	H3	HTT170013	HTP170013	HTB170013	HTS170013
8	36		NF	4	H2	HTT170014	HTP170014	HTB170014	HTS170014
10	24		NC	4	H3	HTT170015	HTP170015	HTB170015	HTS170015
10	32		NF	4	H3	HTT170016	HTP170016	HTB170016	HTS170016
12	24		NC	4	H3	HTT170017	HTP170017	HTB170017	HTS170017
12	28		NF	4	H3	HTT170018	HTP170018	HTB170018	HTS170018
<b>FRACTIONAL</b>									
1/4"	20		NC	4	H3	HTT170030	HTP170030	HTB170030	HTS170030
1/4"	28		NF	4	H3	HTT170031	HTP170031	HTB170031	HTS170031
5/16"	18		NC	4	H3	HTT170032	HTP170032	HTB170032	HTS170032
5/16"	24		NF	4	H3	HTT170033	HTP170033	HTB170033	HTS170033
3/8"	16		NC	4	H3	HTT170034	HTP170034	HTB170034	HTS170034
3/8"	24		NF	4	H3	HTT170035	HTP170035	HTB170035	HTS170035
7/16"	14		NC	4	H3	HTT170036	HTP170036	HTB170036	HTS170036
7/16"	20		NF	4	H3	HTT170037	HTP170037	HTB170037	HTS170037
1/2"	13		NC	4	H3	HTT170038	HTP170038	HTB170038	HTS170038
1/2"	20		NF	4	H3	HTT170039	HTP170039	HTB170039	HTS170039
9/16"	12		NC	4	H3	HTT170040	HTP170040	HTB170040	HTS170040
9/16"	18		NF	4	H3	HTT170041	HTP170041	HTB170041	HTS170041
5/8"	11		NC	4	H3	HTT170042	HTP170042	HTB170042	HTS170042
5/8"	18		NF	4	H3	HTT170043	HTP170043	HTB170043	HTS170043
11/16"	11		NS	4	H3	HTT170044	HTP170044	HTB170044	HTS170044
11/16"	16		NS	4	H3	HTT170045	HTP170045	HTB170045	HTS170045
3/4"	10		NC	4	H3	HTT170046	HTP170046	HTB170046	HTS170046
3/4"	16		NF	4	H3	HTT170047	HTP170047	HTB170047	HTS170047
7/8"	9		NC	4	H4	HTT170048	HTP170048	HTB170048	HTS170048
7/8"	14		NF	4	H4	HTT170049	HTP170049	HTB170049	HTS170049
1"	8		NC	4	H4	HTT170050	HTP170050	HTB170050	HTS170050
1"	12		NF	4	H4	HTT170051	HTP170051	HTB170051	HTS170051
1"	14		NS	4	H4	HTT170052	HTP170052	HTB170052	HTS170052
1-1/8"	7		NC	4	H4	HTT170053	HTP170053	HTB170053	HTS170053
1-1/8"	12		NF	4	H4	HTT170054	HTP170054	HTB170054	HTS170054
1-1/4"	7		NC	4	H4	HTT170055	HTP170055	HTB170055	HTS170055
1-1/4"	12		NF	6	H4	HTT170056	HTP170056	HTB170056	HTS170056
1-3/8"	6		NC	4	H4	HTT170057	HTP170057	HTB170057	HTS170057
1-3/8"	12		NF	6	H4	HTT170058	HTP170058	HTB170058	HTS170058
1-1/2"	6		NC	4	H4	HTT170059	HTP170059	HTB170059	HTS170059
1-1/2"	12		NF	6	H4	HTT170060	HTP170060	HTB170060	HTS170060

Bulk 0 to 1/4", 12 per pack  
5/16" to 1/2", 6 per pack

9/16" to 1", 3 per pack  
1-1/8" to 1-1/2", 1 per pack

Sets 3 taps per box, 1 each Taper, Plug and Bottom per size

Hand Taps - Alfa USA

B

# Hand Taps - Eco Pro



## Super High-Speed Steel Ground Thread, Right Hand

### Taper, Plug, Bottoming & Sets



#### Features:

- General purpose taps can be used by hand or under power, in through (open both ends) or blind holes (closed one end).
- Suitable for tapping most materials.
- Standard "H" limits provide adequate "class of fit."
- **Taper taps** (7 to 10 threads). Longest chamfer insures easier starting.
- **Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
- **Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.

NC = National Coarse NF = National Fine NS = National Standard

TAP SIZE	THREADS PER INCH			NO. OF FLUTES	GRIND LIMITS	STOCK #			
	NC	NF	NS			TAPER	PLUG	BOTTOM	SET OF 3
<b>MACHINE SCREW SIZES</b>									
0	80	NF		2	H1	HTT270000	HTP270000	HTB270000	HTS270000
1	64	NC		2	H1	HTT270001	HTP270001	HTB270001	HTS270001
1	72	NF		2	H1	HTT270002	HTP270002	HTB270002	HTS270002
2	56	NC		3	H2	HTT270003	HTP270003	HTB270003	HTS270003
2	64	NF		3	H2	HTT270004	HTP270004	HTB270004	HTS270004
3	48	NC		3	H2	HTT270005	HTP270005	HTB270005	HTS270005
3	56	NF		3	H2	HTT270006	HTP270006	HTB270006	HTS270006
4	40	NC		3	H2	HTT270007	HTP270007	HTB270007	HTS270007
4	48	NF		3	H2	HTT270008	HTP270008	HTB270008	HTS270008
5	40	NC		3	H2	HTT270009	HTP270009	HTB270009	HTS270009
5	44	NF		3	H2	HTT270010	HTP270010	HTB270010	HTS270010
6	32	NC		3	H3	HTT270011	HTP270011	HTB270011	HTS270011
6	40	NF		3	H2	HTT270012	HTP270012	HTB270012	HTS270012
8	32	NC		4	H3	HTT270013	HTP270013	HTB270013	HTS270013
8	36	NF		4	H2	HTT270014	HTP270014	HTB270014	HTS270014
10	24	NC		4	H3	HTT270015	HTP270015	HTB270015	HTS270015
10	32	NF		4	H3	HTT270016	HTP270016	HTB270016	HTS270016
12	24	NC		4	H3	HTT270017	HTP270017	HTB270017	HTS270017
12	28	NF		4	H3	HTT270018	HTP270018	HTB270018	HTS270018
<b>FRACTIONAL</b>									
1/4"	20	NC		4	H3	HTT270030	HTP270030	HTB270030	HTS270030
1/4"	28	NF		4	H3	HTT270031	HTP270031	HTB270031	HTS270031
5/16"	18	NC		4	H3	HTT270032	HTP270032	HTB270032	HTS270032
5/16"	24	NF		4	H3	HTT270033	HTP270033	HTB270033	HTS270033
3/8"	16	NC		4	H3	HTT270034	HTP270034	HTB270034	HTS270034
3/8"	24	NF		4	H3	HTT270035	HTP270035	HTB270035	HTS270035
7/16"	14	NC		4	H3	HTT270036	HTP270036	HTB270036	HTS270036
7/16"	20	NF		4	H3	HTT270037	HTP270037	HTB270037	HTS270037
1/2"	13	NC		4	H3	HTT270038	HTP270038	HTB270038	HTS270038
1/2"	20	NF		4	H3	HTT270039	HTP270039	HTB270039	HTS270039
9/16"	12	NC		4	H3	HTT270040	HTP270040	HTB270040	HTS270040
9/16"	18	NF		4	H3	HTT270041	HTP270041	HTB270041	HTS270041
5/8"	11	NC		4	H3	HTT270042	HTP270042	HTB270042	HTS270042
5/8"	18	NF		4	H3	HTT270043	HTP270043	HTB270043	HTS270043
11/16"	11	NS		4	H3	HTT270044	HTP270044	HTB270044	HTS270044
11/16"	16	NS		4	H3	HTT270045	HTP270045	HTB270045	HTS270045
3/4"	10	NC		4	H3	HTT270046	HTP270046	HTB270046	HTS270046
3/4"	16	NF		4	H3	HTT270047	HTP270047	HTB270047	HTS270047
7/8"	9	NC		4	H4	HTT270048	HTP270048	HTB270048	HTS270048
7/8"	14	NF		4	H4	HTT270049	HTP270049	HTB270049	HTS270049
1"	8	NC		4	H4	HTT270050	HTP270050	HTB270050	HTS270050
1"	12	NF		4	H4	HTT270051	HTP270051	HTB270051	HTS270051
1"	14	NS		4	H4	HTT270052	HTP270052	HTB270052	HTS270052
1-1/8"	7	NC		4	H4	HTT270053	HTP270053	HTB270053	HTS270053
1-1/8"	12	NF		4	H4	HTT270054	HTP270054	HTB270054	HTS270054
1-1/4"	7	NC		4	H4	HTT270055	HTP270055	HTB270055	HTS270055
1-1/4"	12	NF		4	H4	HTT270056	HTP270056	HTB270056	HTS270056
1-3/8"	6	NC		4	H4	HTT270057	HTP270057	HTB270057	HTS270057
1-3/8"	12	NF		6	H4	HTT270058	HTP270058	HTB270058	HTS270058
1-1/2"	6	NC		4	H4	HTT270059	HTP270059	HTB270059	HTS270059
1-1/2"	12	NF		6	H4	HTT270060	HTP270060	HTB270060	HTS270060

Bulk 0 to 1/4", 10 per pack  
5/16" to 1/2", 5 per pack

9/16" to 1", 3 per pack  
1-1/8" to 1-1/2", 1 per pack

Sets 3 taps per box, 1 each Taper, Plug and Bottom per size



Hand Taps - Eco Pro

B

B-7



# Hand Taps - Alfa USA - Black Oxide

## Super High-Speed Steel Ground Thread, Right Hand

### Taper, Plug, Bottoming & Sets

Black oxide surface treatment provides extra lubricity, increases wear resistance and extends tool life.

#### Features:

- General purpose taps can be used by hand or under power, in through (open both ends) or blind holes (closed one end).
- Suitable for tapping most materials.
- For use in Oil Field, Pipe Line and Heat Exchanger Applications.
- Standard "H" limits provide adequate "class of fit."
- **Taper taps** (7 to 10 threads). Longest chamfer insures easier starting.
- **Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
- **Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.



**NEW!**

NC = National Coarse NF = National Fine NS = National Standard

TAP SIZE	THREADS PER INCH			NO. OF FLUTES	GRIND LIMITS	STOCK #			
	NC	NF	NS			TAPER	PLUG	BOTTOM	SET OF 3
<b>MACHINE SCREW SIZES</b>									
1	64		NC	2	H1	HTT80001	HTP80001	HTB80001	HTS80001
1	72		NF	2	H1	HTT80002	HTP80002	HTB80002	HTS80002
2	56		NC	3	H2	HTT80003	HTP80003	HTB80003	HTS80003
2	64		NF	3	H2	HTT80004	HTP80004	HTB80004	HTS80004
3	48		NC	3	H2	HTT80005	HTP80005	HTB80005	HTS80005
3	56		NF	3	H2	HTT80006	HTP80006	HTB80006	HTS80006
4	40		NC	3	H2	HTT80007	HTP80007	HTB80007	HTS80007
4	48		NF	3	H2	HTT80008	HTP80008	HTB80008	HTS80008
4	36		NS	3	H2	HTT80008A	HTP80008A	HTB80008A	HTS80008A
5	40		NC	3	H2	HTT80009	HTP80009	HTB80009	HTS80009
5	44		NF	3	H2	HTT80010	HTP80010	HTB80010	HTS80010
6	32		NC	3	H3	HTT80011	HTP80011	HTB80011	HTS80011
6	40		NF	3	H2	HTT80012	HTP80012	HTB80012	HTS80012
8	32		NC	4	H3	HTT80013	HTP80013	HTB80013	HTS80013
8	36		NF	4	H2	HTT80014	HTP80014	HTB80014	HTS80014
10	24		NC	4	H3	HTT80015	HTP80015	HTB80015	HTS80015
10	32		NF	4	H3	HTT80016	HTP80016	HTB80016	HTS80016
12	24		NC	4	H3	HTT80017	HTP80017	HTB80017	HTS80017
12	28		NF	4	H3	HTT80018	HTP80018	HTB80018	HTS80018
<b>FRACTIONAL</b>									
1/4"	20		NC	4	H3	HTT80030	HTP80030	HTB80030	HTS80030
1/4"	28		NF	4	H3	HTT80031	HTP80031	HTB80031	HTS80031
5/16"	18		NC	4	H3	HTT80032	HTP80032	HTB80032	HTS80032
5/16"	24		NF	4	H3	HTT80033	HTP80033	HTB80033	HTS80033
3/8"	16		NC	4	H3	HTT80034	HTP80034	HTB80034	HTS80034
3/8"	24		NF	4	H3	HTT80035	HTP80035	HTB80035	HTS80035
7/16"	14		NC	4	H3	HTT80036	HTP80036	HTB80036	HTS80036
7/16"	20		NF	4	H3	HTT80037	HTP80037	HTB80037	HTS80037
1/2"	13		NC	4	H3	HTT80038	HTP80038	HTB80038	HTS80038
1/2"	20		NF	4	H3	HTT80039	HTP80039	HTB80039	HTS80039
9/16"	12		NC	4	H3	HTT80040	HTP80040	HTB80040	HTS80040
9/16"	18		NF	4	H3	HTT80041	HTP80041	HTB80041	HTS80041
5/8"	11		NC	4	H3	HTT80042	HTP80042	HTB80042	HTS80042
5/8"	18		NF	4	H3	HTT80043	HTP80043	HTB80043	HTS80043
11/16"	11		NS	4	H3	HTT80044	HTP80044	HTB80044	HTS80044
11/16"	16		NS	4	H3	HTT80045	HTP80045	HTB80045	HTS80045
3/4"	10		NC	4	H3	HTT80046	HTP80046	HTB80046	HTS80046
3/4"	16		NF	4	H3	HTT80047	HTP80047	HTB80047	HTS80047
7/8"	9		NC	4	H4	HTT80048	HTP80048	HTB80048	HTS80048
7/8"	14		NF	4	H4	HTT80049	HTP80049	HTB80049	HTS80049
1"	8		NC	4	H4	HTT80050	HTP80050	HTB80050	HTS80050
1"	12		NF	4	H4	HTT80051	HTP80051	HTB80051	HTS80051
1"	14		NS	4	H4	HTT80052	HTP80052	HTB80052	HTS80052
1-1/8"	7		NC	4	H4	HTT80053	HTP80053	HTB80053	HTS80053
1-1/8"	12		NF	4	H4	HTT80054	HTP80054	HTB80054	HTS80054
1-1/4"	7		NC	4	H4	HTT80055	HTP80055	HTB80055	HTS80055
1-1/4"	12		NF	6	H4	HTT80056	HTP80056	HTB80056	HTS80056
1-3/8"	6		NC	4	H4	HTT80057	HTP80057	HTB80057	HTS80057
1-3/8"	12		NF	6	H4	HTT80058	HTP80058	HTB80058	HTS80058
1-1/2"	6		NC	4	H4	HTT80059	HTP80059	HTB80059	HTS80059
1-1/2"	12		NF	6	H4	HTT80060	HTP80060	HTB80060	HTS80060

Bulk 1 to 1/4", 12 per pack  
5/16" to 1/2", 6 per pack

9/16" to 1", 3 per pack  
1-1/8" to 1-1/2", 1 per pack

Sets 3 taps per box, 1 each Taper, Plug and Bottom per size

# Hand Taps - Special Thread

## Super High-Speed Steel Ground Thread, Right Hand

### Features:

- General purpose taps can be used by hand or under power, in through (open both ends) or blind holes (closed one end).
- Suitable for tapping most materials.
- Standard "H" limits provide adequate "class of fit."
- **Taper taps** (7 to 10 threads). Longest chamfer insures easier starting.
- **Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
- **Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.



Any special thread  
pitch tap is available.  
Call for details.



### TAPER / PLUG / BOTTOMING

PLEASE SPECIFY (T) TAPER / (P) PLUG / (B) BOTTOMING WHEN ORDERING i.e. HTSP T 71301

### MACHINE SCREW & FRACTIONAL SIZES

TAP SIZE x TPI	STOCK #	TAP SIZE x TPI	STOCK #	TAP SIZE x TPI	STOCK #	TAP SIZE x TPI	STOCK #	TAP SIZE x TPI	STOCK #
6-36	HTSP 71301	5/8-24	HTSP 71351	1-16	HTSP 71401	1 3/8-10	HTSP 71451	1 15/16-18	HTSP 71501
6-48	HTSP 71302	5/8-26	HTSP 71352	1-18	HTSP 71402	1 3/8-14	HTSP 71452	2-4 1/2	HTSP 71502
8-24	HTSP 71303	5/8-27	HTSP 71353	1-20	HTSP 71403	1 3/8-16	HTSP 71453	2-8	HTSP 71503
8-40	HTSP 71304	5/8-28	HTSP 71354	1-24	HTSP 71404	1 3/8-18	HTSP 71454	2-10	HTSP 71504
8-48	HTSP 71305	5/8-32	HTSP 71355	1-26	HTSP 71405	1 3/8-20	HTSP 71455	2-12	HTSP 71505
10-28	HTSP 71306	5/8-36	HTSP 71356	1-27	HTSP 71406	1 3/8-24	HTSP 71456	2-14	HTSP 71506
10-36	HTSP 71307	5/8-40	HTSP 71357	1-28	HTSP 71407	1 7/16-12	HTSP 71457	2-16	HTSP 71507
10-40	HTSP 71308	11/16-12	HTSP 71358	1-32	HTSP 71408	1 7/16-16	HTSP 71458	2-18	HTSP 71508
10-48	HTSP 71309	11/16-18	HTSP 71359	1-36	HTSP 71409	1 7/16-18	HTSP 71459	2-20	HTSP 71509
12-32	HTSP 71310	11/16-20	HTSP 71360	1-40	HTSP 71410	1 7/16-20	HTSP 71460	2 1/8-8	HTSP 71510
12-36	HTSP 71311	11/16-24	HTSP 71361	1 1/16-8	HTSP 71411	1 1/2-8	HTSP 71461	2 1/8-12	HTSP 71511
12-40	HTSP 71312	11/16-27	HTSP 71362	1 1/16-12	HTSP 71412	1 1/2-10	HTSP 71462	2 1/4-4 1/2	HTSP 71512
12-48	HTSP 71313	11/16-32	HTSP 71363	1 1/16-14	HTSP 71413	1 1/2-14	HTSP 71463	2 1/4-8	HTSP 71513
1/4-24	HTSP 71314	3/4-12	HTSP 71364	1 1/16-16	HTSP 71414	1 1/2-16	HTSP 71464	2 1/4-12	HTSP 71514
1/4-32	HTSP 71315	3/4-14	HTSP 71365	1 1/16-18	HTSP 71415	1 1/2-18	HTSP 71465	2 1/4-14	HTSP 71515
1/4-36	HTSP 71316	3/4-18	HTSP 71366	1 1/16-20	HTSP 71416	1 1/2-20	HTSP 71466	2 1/4-16	HTSP 71516
1/4-40	HTSP 71317	3/4-20	HTSP 71367	1 1/16-24	HTSP 71417	1 1/2-24	HTSP 71467	2 1/4-18	HTSP 71517
5/16-20	HTSP 71318	3/4-24	HTSP 71368	1 1/16-32	HTSP 71418	1 1/2-32	HTSP 71468	2 3/8-8	HTSP 71518
5/16-22	HTSP 71319	3/4-26	HTSP 71369	1 1/8-8	HTSP 71419	1 9/16-12	HTSP 71469	2 3/8-12	HTSP 71519
5/16-32	HTSP 71320	3/4-27	HTSP 71370	1 1/8-10	HTSP 71420	1 9/16-16	HTSP 71470	2 3/8-16	HTSP 71520
5/16-36	HTSP 71321	3/4-28	HTSP 71371	1 1/8-16	HTSP 71421	1 9/16-18	HTSP 71471	2 3/8-18	HTSP 71521
5/16-40	HTSP 71322	3/4-32	HTSP 71372	1 1/8-18	HTSP 71422	1 9/16-20	HTSP 71472	2 1/2-4	HTSP 71522
3/8-14	HTSP 71323	3/4-36	HTSP 71373	1 1/8-20	HTSP 71423	1 5/8-5 1/2	HTSP 71473	2 1/2-8	HTSP 71523
3/8-18	HTSP 71324	13/16-10	HTSP 71374	1 1/8-24	HTSP 71424	1 5/8-8	HTSP 71474	2 1/2-12	HTSP 71524
3/8-20	HTSP 71325	13/16-12	HTSP 71375	1 1/8-27	HTSP 71425	1 5/8-12	HTSP 71475	2 1/2-16	HTSP 71525
3/8-32	HTSP 71326	13/16-14	HTSP 71376	1 1/8-32	HTSP 71426	1 5/8-16	HTSP 71476	2 5/8-8	HTSP 71527
3/8-40	HTSP 71327	13/16-16	HTSP 71377	1 3/16-8	HTSP 71427	1 5/8-18	HTSP 71477	2 5/8-12	HTSP 71528
7/16-24	HTSP 71328	13/16-18	HTSP 71378	1 3/16-12	HTSP 71428	1 5/8-20	HTSP 71478	2 5/8-16	HTSP 71529
7/16-27	HTSP 71329	13/16-20	HTSP 71379	1 3/16-14	HTSP 71429	1 11/16-12	HTSP 71479	2 3/4-8	HTSP 71530
7/16-28	HTSP 71330	13/16-24	HTSP 71380	1 3/16-16	HTSP 71430	1 11/16-16	HTSP 71480	2 3/4-12	HTSP 71531
1/2-12	HTSP 71331	13/16-26	HTSP 71381	1 3/16-18	HTSP 71431	1 11/16-18	HTSP 71481	2 3/4-16	HTSP 71532
1/2-14	HTSP 71332	13/16-28	HTSP 71382	1 3/16-20	HTSP 71432	1 11/16-20	HTSP 71482	2 7/8-8	HTSP 71533
1/2-16	HTSP 71333	13/16-32	HTSP 71383	1 3/16-24	HTSP 71433	1 3/4-5	HTSP 71483	2 7/8-12	HTSP 71534
1/2-18	HTSP 71334	13/16-36	HTSP 71384	1 3/16-32	HTSP 71434	1 3/4-6	HTSP 71484	3-4	HTSP 71535
1/2-24	HTSP 71335	7/8-12	HTSP 71385	1 1/4-8	HTSP 71435	1 3/4-8	HTSP 71485	3-8	HTSP 71536
1/2-28	HTSP 71336	7/8-16	HTSP 71386	1 1/4-10	HTSP 71436	1 3/4-10	HTSP 71486	3-12	HTSP 71537
1/2-32	HTSP 71337	7/8-18	HTSP 71387	1 1/4-14	HTSP 71437	1 3/4-12	HTSP 71487	3-16	HTSP 71538
1/2-40	HTSP 71338	7/8-20	HTSP 71388	1 1/4-16	HTSP 71438	1 3/4-14	HTSP 71488	3-18	HTSP 71539
9/16-16	HTSP 71339	7/8-24	HTSP 71389	1 1/4-18	HTSP 71439	1 3/4-16	HTSP 71489	3 1/4-8	HTSP 71540
9/16-20	HTSP 71340	7/8-27	HTSP 71390	1 1/4-20	HTSP 71440	1 3/4-18	HTSP 71490	3 1/4-12	HTSP 71541
9/16-24	HTSP 71341	7/8-32	HTSP 71391	1 1/4-24	HTSP 71441	1 3/4-20	HTSP 71491	3 1/2-4	HTSP 71542
9/16-27	HTSP 71342	7/8-40	HTSP 71392	1 1/4-26	HTSP 71442	1 3/4-24	HTSP 71492	3 1/2-8	HTSP 71543
9/16-28	HTSP 71343	15/16-12	HTSP 71393	1 1/4-32	HTSP 71443	1 7/8-5	HTSP 71493	3 1/2-12	HTSP 71544
9/16-30	HTSP 71344	15/16-16	HTSP 71394	1 5/16-8	HTSP 71444	1 7/8-8	HTSP 71494	3 3/4-8	HTSP 71545
9/16-32	HTSP 71345	15/16-18	HTSP 71395	1 5/16-12	HTSP 71445	1 7/8-12	HTSP 71495	3 3/4-12	HTSP 71546
9/16-40	HTSP 71346	15/16-20	HTSP 71396	1 5/16-14	HTSP 71446	1 7/8-16	HTSP 71496	4-8	HTSP 71547
5/8-12	HTSP 71347	15/16-24	HTSP 71397	1 5/16-16	HTSP 71447	1 7/8-18	HTSP 71497	4-12	HTSP 71548
5/8-14	HTSP 71348	15/16-27	HTSP 71398	1 5/16-18	HTSP 71448	1 7/8-20	HTSP 71498		
5/8-16	HTSP 71349	15/16-32	HTSP 71399	1 5/16-20	HTSP 71449	1 15/16-12	HTSP 71499		
5/8-20	HTSP 71350	1-10	HTSP 71400	1 3/8-8	HTSP 71450	1 15/16-16	HTSP 71500		

# Metric Hand Taps - Alfa USA

## High-Speed Steel Ground Thread Right Hand

### Features:

- General purpose taps can be used by hand or under power, in through (open both ends) or blind holes (closed one end).
- Suitable for tapping most materials.
- Standard "H" limits provide adequate "class of fit."
- **Taper taps** (7 to 10 threads). Longest chamfer insures easier starting.
- **Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
- **Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.



Expanded

Metric Hand Taps

B

TAP SIZE	PITCH	NO. OF FLUTES	GRIND LIMITS	STOCK #			
				TAPER	PLUG	BOTTOM	SET OF 3
2	0.40	3	D3	HSMTT171004	HSMTTP171004	HSMTB171004	HSMTS171004
2.2	0.45	3	D3	HSMTT171006	HSMTTP171006	HSMTB171006	HSMTS171006
2.5	0.45	3	D3	HSMTT171008	HSMTTP171008	HSMTB171008	HSMTS171008
3	0.50	3	D3	HSMTT171010	HSMTTP171010	HSMTB171010	HSMTS171010
3.5	0.60	3	D4	HSMTT171012	HSMTTP171012	HSMTB171012	HSMTS171012
4	0.70	4	D4	HSMTT171014	HSMTTP171014	HSMTB171014	HSMTS171014
4.5	0.75	4	D4	HSMTT171015	HSMTTP171015	HSMTB171015	HSMTS171015
5	0.80	4	D4	HSMTT171016	HSMTTP171016	HSMTB171016	HSMTS171016
6	1.00	4	D5	HSMTT171020	HSMTTP171020	HSMTB171020	HSMTS171020
7	1.00	4	D5	HSMTT171023	HSMTTP171023	HSMTB171023	HSMTS171023
8	1.25	4	D5	HSMTT171024	HSMTTP171024	HSMTB171024	HSMTS171024
8	1.00	4	D5	HSMTT171025	HSMTTP171025	HSMTB171025	HSMTS171025
10	1.50	4	D6	HSMTT171027	HSMTTP171027	HSMTB171027	HSMTS171027
10	1.25	4	D5	HSMTT171028	HSMTTP171028	HSMTB171028	HSMTS171028
12	1.75	4	D6	HSMTT171031	HSMTTP171031	HSMTB171031	HSMTS171031
12	1.25	4	D6	HSMTT171033	HSMTTP171033	HSMTB171033	HSMTS171033
14	2.00	4	D7	HSMTT171034	HSMTTP171034	HSMTB171034	HSMTS171034
14	1.50	4	D6	HSMTT171035	HSMTTP171035	HSMTB171035	HSMTS171035
16	2.00	4	D7	HSMTT171037	HSMTTP171037	HSMTB171037	HSMTS171037
16	1.50	4	D6	HSMTT171038	HSMTTP171038	HSMTB171038	HSMTS171038
18	2.50	4	D7	HSMTT171039	HSMTTP171039	HSMTB171039	HSMTS171039
18	1.50	4	D6	HSMTT171042	HSMTTP171042	HSMTB171042	HSMTS171042
20	2.50	4	D7	HSMTT171043	HSMTTP171043	HSMTB171043	HSMTS171043
20	1.50	4	D6	HSMTT171044	HSMTTP171044	HSMTB171044	HSMTS171044
22	2.50	4	D7	HSMTT171047	HSMTTP171047	HSMTB171047	HSMTS171047
22	1.50	4	D6	HSMTT171048	HSMTTP171048	HSMTB171048	HSMTS171048
24	3.00	4	D8	HSMTT171049	HSMTTP171049	HSMTB171049	HSMTS171049
24	2.00	4	D7	HSMTT171050	HSMTTP171050	HSMTB171050	HSMTS171050
27	3.00	4	D8	HSMTT171052	HSMTTP171052	HSMTB171052	HSMTS171052
27	2.00	4	D7	HSMTT171053	HSMTTP171053	HSMTB171053	HSMTS171053
30	3.50	4	D9	HSMTT171054	HSMTTP171054	HSMTB171054	HSMTS171054
30	2.00	4	D7	HSMTT171055	HSMTTP171055	HSMTB171055	HSMTS171055
33	3.50	4	D9	HSMTT171058	HSMTTP171058	HSMTB171058	HSMTS171058
33	2.00	4	D7	HSMTT171059	HSMTTP171059	HSMTB171059	HSMTS171059
36	4.00	4	D9	HSMTT171060	HSMTTP171060	HSMTB171060	HSMTS171060

2 to 6mm, 12 per pack, 7 to 12mm, 6 per pack  
14 to 27mm, 3 per pack, 30mm and above 1 per pack

Sets 3 taps per box, 1 each Taper, Plug and Bottom per size

# Metric Hand Taps - Eco Pro

## High-Speed Steel Ground Thread Right Hand

### Features:

- General purpose taps can be used by hand or under power, in through (open both ends) or blind holes (closed one end).
- Suitable for tapping most materials.
- Standard "H" limits provide adequate "class of fit."
- **Taper taps** (7 to 10 threads). Longest chamfer insures easier starting.
- **Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
- **Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.



Expanded

TAP SIZE	PITCH	NO. OF FLUTES	GRIND LIMITS	STOCK #			
				TAPER	PLUG	BOTTOM	SET OF 3
2	0.40	3	D3	HSMTT271004	HSMTTP271004	HSMTB271004	HSMTS271004
2.2	0.45	3	D3	HSMTT271006	HSMTTP271006	HSMTB271006	HSMTS271006
2.3	0.40	3	D3	HSMTT271007	HSMTTP271007	HSMTB271007	HSMTS271007
2.5	0.45	3	D3	HSMTT271008	HSMTTP271008	HSMTB271008	HSMTS271008
3	0.50	3	D3	HSMTT271010	HSMTTP271010	HSMTB271010	HSMTS271010
3.5	0.60	3	D4	HSMTT271012	HSMTTP271012	HSMTB271012	HSMTS271012
4	0.50	4	D3	HSMTT271013	HSMTTP271013	HSMTB271013	HSMTS271013
4	0.70	4	D4	HSMTT271014	HSMTTP271014	HSMTB271014	HSMTS271014
4.5	0.75	4	D4	HSMTT271015	HSMTTP271015	HSMTB271015	HSMTS271015
5	0.80	4	D4	HSMTT271016	HSMTTP271016	HSMTB271016	HSMTS271016
5	0.90	4	D4	HSMTT271017	HSMTTP271017	HSMTB271017	HSMTS271017
5	0.50	4	D3	HSMTT271018	HSMTTP271018	HSMTB271018	HSMTS271018
6	1.00	4	D5	HSMTT271020	HSMTTP271020	HSMTB271020	HSMTS271020
6	0.75	4	D3	HSMTT271021	HSMTTP271021	HSMTB271021	HSMTS271021
7	1.00	4	D5	HSMTT271023	HSMTTP271023	HSMTB271023	HSMTS271023
8	1.25	4	D5	HSMTT271024	HSMTTP271024	HSMTB271024	HSMTS271024
8	1.00	4	D5	HSMTT271025	HSMTTP271025	HSMTB271025	HSMTS271025
9	1.25	4	D5	HSMTT271026	HSMTTP271026	HSMTB271026	HSMTS271026
10	1.50	4	D6	HSMTT271027	HSMTTP271027	HSMTB271027	HSMTS271027
10	1.25	4	D5	HSMTT271028	HSMTTP271028	HSMTB271028	HSMTS271028
10	1.00	4	D5	HSMTT271029	HSMTTP271029	HSMTB271029	HSMTS271029
11	1.50	4	D6	HSMTT271030	HSMTTP271030	HSMTB271030	HSMTS271030
12	1.75	4	D6	HSMTT271031	HSMTTP271031	HSMTB271031	HSMTS271031
12	1.50	4	D6	HSMTT271032	HSMTTP271032	HSMTB271032	HSMTS271032
12	1.25	4	D6	HSMTT271033	HSMTTP271033	HSMTB271033	HSMTS271033
14	2.00	4	D7	HSMTT271034	HSMTTP271034	HSMTB271034	HSMTS271034
14	1.50	4	D6	HSMTT271035	HSMTTP271035	HSMTB271035	HSMTS271035
14	1.25	4	D5	HSMTT271036	HSMTTP271036	HSMTB271036	HSMTS271036
16	2.00	4	D7	HSMTT271037	HSMTTP271037	HSMTB271037	HSMTS271037
16	1.50	4	D6	HSMTT271038	HSMTTP271038	HSMTB271038	HSMTS271038
18	2.50	4	D7	HSMTT271039	HSMTTP271039	HSMTB271039	HSMTS271039
18	2.00	4	D7	HSMTT271040	HSMTTP271040	HSMTB271040	HSMTS271040
18	1.00	4	D5	HSMTT271041	HSMTTP271041	HSMTB271041	HSMTS271041
18	1.50	4	D6	HSMTT271042	HSMTTP271042	HSMTB271042	HSMTS271042
20	2.50	4	D7	HSMTT271043	HSMTTP271043	HSMTB271043	HSMTS271043
20	1.50	4	D6	HSMTT271044	HSMTTP271044	HSMTB271044	HSMTS271044
20	1.00	4	D5	HSMTT271045	HSMTTP271045	HSMTB271045	HSMTS271045
20	2.00	4	D7	HSMTT271046	HSMTTP271046	HSMTB271046	HSMTS271046
22	2.50	4	D7	HSMTT271047	HSMTTP271047	HSMTB271047	HSMTS271047
22	1.50	4	D6	HSMTT271048	HSMTTP271048	HSMTB271048	HSMTS271048
24	3.00	4	D8	HSMTT271049	HSMTTP271049	HSMTB271049	HSMTS271049
24	2.00	4	D7	HSMTT271050	HSMTTP271050	HSMTB271050	HSMTS271050
24	1.50	4	D6	HSMTT271051	HSMTTP271051	HSMTB271051	HSMTS271051
27	3.00	4	D8	HSMTT271052	HSMTTP271052	HSMTB271052	HSMTS271052
27	2.00	4	D7	HSMTT271053	HSMTTP271053	HSMTB271053	HSMTS271053
30	3.50	4	D9	HSMTT271054	HSMTTP271054	HSMTB271054	HSMTS271054
30	2.00	4	D7	HSMTT271055	HSMTTP271055	HSMTB271055	HSMTS271055
30	1.50	4	D6	HSMTT271056	HSMTTP271056	HSMTB271056	HSMTS271056
32	2.00	4	D7	HSMTT271057	HSMTTP271057	HSMTB271057	HSMTS271057
33	3.50	4	D9	HSMTT271058	HSMTTP271058	HSMTB271058	HSMTS271058
33	2.00	4	D7	HSMTT271059	HSMTTP271059	HSMTB271059	HSMTS271059
36	4.00	4	D9	HSMTT271060	HSMTTP271060	HSMTB271060	HSMTS271060

2 to 6mm, 10 per pack, 7 to 12mm, 5 per pack  
14 to 27mm, 3 per pack, 30mm and above 1 per pack

Sets 3 taps per box, 1 each Taper, Plug and Bottom per size

**ECO PRO** • ECO PRO Taps are manufactured in Europe.

Metric Hand Taps

B

# Metric Hand Taps - Special Thread

## High-Speed Steel Ground Thread

- Features:**
- General purpose taps can be used by hand or under power, in through (open both ends) or blind holes (closed one end).
  - Suitable for tapping most materials.
  - Standard “H” limits provide adequate “class of fit.”
  - **Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
  - **Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.



### PLUG / BOTTOMING CHAMFERS

Metric Hand Taps

B

TAP SIZE	PITCH	NO. OF FLUTES	GRIND LIMITS	STOCK #	
				PLUG	BOTTOM
2	0.25	3	D3	HSMT72008	HSMTB72008
2	0.45	3	D3	HSMT72009	HSMTB72009
2.5	0.50	3	D3	HSMT72011	HSMTB72011
2.6	0.35	3	D3	HSMT72012	HSMTB72012
2.6	0.45	3	D3	HSMT72013	HSMTB72013
3	0.35	3	D3	HSMT72014	HSMTB72014
3	0.60	3	D4	HSMT72015	HSMTB72015
3.5	0.50	3	D3	HSMT72016	HSMTB72016
4.5	0.50	4	D3	HSMT72018	HSMTB72018
5	0.75	4	D4	HSMT72020	HSMTB72020
5.5	0.70	4	D4	HSMT72022	HSMTB72022
5.5	0.90	4	D4	HSMT72023	HSMTB72023
6	0.50	4	D3	HSMT72024	HSMTB72024
7	0.50	4	D4	HSMT72026	HSMTB72026
7	0.75	4	D5	HSMT72027	HSMTB72027
7	1.25	4	D5	HSMT72028	HSMTB72028
8	0.50	4	D4	HSMT72029	HSMTB72029
8	0.75	4	D5	HSMT72030	HSMTB72030
8	1.50	4	D6	HSMT72031	HSMTB72031
9	0.50	4	D4	HSMT72032	HSMTB72032
9	0.75	4	D5	HSMT72033	HSMTB72033
9	1.00	4	D5	HSMT72034	HSMTB72034
10	0.50	4	D4	HSMT72036	HSMTB72036
10	0.75	4	D5	HSMT72037	HSMTB72037
11	0.50	4	D4	HSMT72039	HSMTB72039
11	0.75	4	D5	HSMT72040	HSMTB72040
11	1.00	4	D5	HSMT72041	HSMTB72041
11	1.25	4	D5	HSMT72042	HSMTB72042
12	0.50	4	D4	HSMT72044	HSMTB72044
12	0.75	4	D5	HSMT72045	HSMTB72045
12	1.00	4	D5	HSMT72046	HSMTB72046
13	0.50	4	D4	HSMT72048	HSMTB72048
13	1.00	4	D5	HSMT72049	HSMTB72049
13	1.25	4	D5	HSMT72050	HSMTB72050
13	1.50	4	D6	HSMT72051	HSMTB72051
13	2.00	4	D7	HSMT72052	HSMTB72052
14	0.50	4	D4	HSMT72053	HSMTB72053
14	0.75	4	D5	HSMT72054	HSMTB72054
14	1.00	4	D5	HSMT72055	HSMTB72055
14	1.75	4	D6	HSMT72057	HSMTB72057
15	0.50	4	D4	HSMT72058	HSMTB72058
15	1.50	4	D6	HSMT72059	HSMTB72059
15	1.00	4	D5	HSMT72060	HSMTB72060
15	2.00	4	D7	HSMT72061	HSMTB72061
16	0.50	4	D4	HSMT72062	HSMTB72062
16	0.75	4	D5	HSMT72063	HSMTB72063
16	1.00	4	D5	HSMT72064	HSMTB72064
16	1.25	4	D5	HSMT72065	HSMTB72065
17	0.50	4	D4	HSMT72066	HSMTB72066
17	1.00	4	D5	HSMT72067	HSMTB72067
17	1.50	4	D6	HSMT72068	HSMTB72068
17	2.00	4	D7	HSMT72069	HSMTB72069
18	0.50	4	D4	HSMT72070	HSMTB72070
18	1.25	4	D5	HSMT72072	HSMTB72072

TAP SIZE	PITCH	NO. OF FLUTES	GRIND LIMITS	STOCK #	
				PLUG	BOTTOM
18	1.75	4	D6	HSMT72073	HSMTB72073
19	0.50	4	D4	HSMT72075	HSMTB72075
19	1.00	4	D5	HSMT72076	HSMTB72076
19	1.50	4	D6	HSMT72077	HSMTB72077
19	2.00	4	D7	HSMT72078	HSMTB72078
20	1.25	4	D5	HSMT72080	HSMTB72080
21	1.00	4	D5	HSMT72082	HSMTB72082
21	1.50	4	D6	HSMT72083	HSMTB72083
21	2.00	4	D7	HSMT72084	HSMTB72084
21	2.50	4	D7	HSMT72085	HSMTB72085
22	1.00	4	D5	HSMT72086	HSMTB72086
22	2.00	4	D7	HSMT72087	HSMTB72087
23	1.00	4	D5	HSMT72088	HSMTB72088
23	1.50	4	D6	HSMT72089	HSMTB72089
23	2.00	4	D7	HSMT72090	HSMTB72090
23	2.50	4	D7	HSMT72091	HSMTB72091
23	3.00	4	D8	HSMT72092	HSMTB72092
24	1.00	4	D5	HSMT72093	HSMTB72093
25	1.00	4	D5	HSMT72094	HSMTB72094
25	1.50	4	D6	HSMT72095	HSMTB72095
25	2.00	4	D7	HSMT72096	HSMTB72096
25	3.00	4	D8	HSMT72097	HSMTB72097
26	1.50	4	D6	HSMT72098	HSMTB72098
26	2.00	4	D7	HSMT72099	HSMTB72099
27	1.00	4	D6	HSMT72100	HSMTB72100
27	2.50	4	D8	HSMT72101	HSMTB72101
28	1.50	4	D6	HSMT72102	HSMTB72102
28	2.00	4	D7	HSMT72103	HSMTB72103
30	1.00	4	D6	HSMT72104	HSMTB72104
30	2.50	4	D8	HSMT72106	HSMTB72106
30	3.00	4	D8	HSMT72107	HSMTB72107
32	1.50	4	D6	HSMT72108	HSMTB72108
33	1.50	4	D6	HSMT72110	HSMTB72110
34	1.50	6	D6	HSMT72112	HSMTB72112
35	1.50	6	D6	HSMT72113	HSMTB72113
38	1.50	6	D6	HSMT72114	HSMTB72114
39	1.50	6	D6	HSMT72115	HSMTB72115
40	1.50	6	D6	HSMT72116	HSMTB72116
42	1.50	6	D6	HSMT72117	HSMTB72117
42	3.00	6	D8	HSMT72118	HSMTB72118
42	4.50	6	D10	HSMT72119	HSMTB72119
45	1.50	6	D6	HSMT72120	HSMTB72120
45	3.00	6	D8	HSMT72121	HSMTB72121
45	4.50	6	D10	HSMT72122	HSMTB72122
48	1.50	8	D6	HSMT72123	HSMTB72123
48	3.00	6	D8	HSMT72124	HSMTB72124
48	4.50	6	D10	HSMT72125	HSMTB72125
48	5.00	6	D10	HSMT72126	HSMTB72126
50	1.50	8	D6	HSMT72127	HSMTB72127
50	3.00	6	D8	HSMT72128	HSMTB72128
52	1.50	8	D6	HSMT72129	HSMTB72129
52	3.00	6	D8	HSMT72130	HSMTB72130
52	5.00	6	D10	HSMT72131	HSMTB72131

1 per pack

# Hand Taps + .005 Oversize

## High-Speed Steel Ground Thread

- Features:**
- Produces threads with a pitch diameter .005 larger than basic pitch diameter.
  - Can be used by hand or under power, in through or blind holes.
  - Used primarily on parts to be plated or heat treated after tapping, or where loss of size is anticipated for any reason.



### PLUG CHAMFER

TAP SIZE	TPI	NO. OF FLUTES	STOCK
<b>MACHINE SCREW SIZES</b>			
4	40	3	HTO71407
5	40	3	HTO71409
6	32	3	HTO71411
6	40	3	HTO71412
8	32	4	HTO71413
8	36	4	HTO71414
10	24	4	HTO71415
10	32	4	HTO71416
<b>FRACTIONAL</b>			
1/4"	20	4	HTO71430
1/4"	28	4	HTO71431
5/16"	18	4	HTO71432
5/16"	24	4	HTO71433
3/8"	16	4	HTO71434
3/8"	24	4	HTO71435

TAP SIZE	TPI	NO. OF FLUTES	STOCK
<b>FRACTIONAL</b>			
7/16"	14	4	HTO71436
7/16"	20	4	HTO71437
1/2"	13	4	HTO71438
1/2"	20	4	HTO71439
9/16"	12	4	HTO71440
9/16"	18	4	HTO71441
5/8"	11	4	HTO71442
5/8"	18	4	HTO71443
3/4"	10	4	HTO71446
3/4"	16	4	HTO71447
7/8"	9	4	HTO71448
7/8"	14	4	HTO71449
1"	8	4	HTO71450
1"	12	4	HTO71451
1"	14	4	HTO71452

4 to 1/4", 10 per pack, 5/16" to 1/2", 5 per pack  
9/16" to 1", 3 per pack

Hand Taps - Oversize • Hand Taps - Eight Pitch

**B**

# Hand Taps - Eight Pitch

## High-Speed Steel Ground Thread



- Features:**
- Special eight thread taps feature eight threads per inch.
  - Engineered specifically for liquid transmission equipment found in oil fields.



### FRACTIONAL

TAP SIZE X PITCH	NO. OF FLUTES	GRIND LIMITS	STOCK #		
			TAPER	PLUG	BOTTOM
1-1/8"	8	4	HTSPT71419	HTSPP71419	HTSPB71419
1-1/4"	8	4	HTSPT71435	HTSPP71435	HTSPB71435
1-3/8"	8	4	HTSPT71450	HTSPP71450	HTSPB71450
1-1/2"	8	6	HTSPT71461	HTSPP71461	HTSPB71461
1-5/8"	8	6	HTSPT71474	HTSPP71474	HTSPB71474
1-3/4"	8	6	HTSPT71485	HTSPP71485	HTSPB71485
1-7/8"	8	6	HTSPT71494	HTSPP71494	HTSPB71494
2"	8	6	HTSPT71503	HTSPP71503	HTSPB71503
2-1/8"	8	6	HTSPT71510	HTSPP71510	HTSPB71510
2-1/4"	8	6	HTSPT71513	HTSPP71513	HTSPB71513
2-3/8"	8	6	HTSPT71518	HTSPP71518	HTSPB71518
2-1/2"	8	8	HTSPT71523	HTSPP71523	HTSPB71523
2-5/8"	8	8	HTSPT71527	HTSPP71527	HTSPB71527
2-3/4"	8	8	HTSPT71530	HTSPP71530	HTSPB71530
2-7/8"	8	8	HTSPT71533	HTSPP71533	HTSPB71533
3"	8	8	HTSPT71536	HTSPP71536	HTSPB71536
3-1/4"	8	8	HTSPT71540	HTSPP71540	HTSPB71540
3-1/2"	8	8	HTSPT71543	HTSPP71543	HTSPB71543
3-3/4"	8	8	HTSPT71545	HTSPP71545	HTSPB71545
4"	8	8	HTSPT71547	HTSPP71547	HTSPB71547

1 per pack

**B-13**

# Left Hand Taps

## High-Speed Steel Ground Thread

### Features:

- Specifically designed to cut threads with left hand rotation.
- Precision ground for a wide variety of applications.



### PLUG CHAMFER

Expanded

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #		
				TAPER	PLUG	BOTTOM
<b>MACHINE SCREW SIZES</b>						
6	32	3	H3	HTLT71111	HTLP71111	HTLB71111
8	32	4	H3	HTLT71113	HTLP71113	HTLB71113
10	24	4	H3	HTLT71115	HTLP71115	HTLB71115
10	32	4	H3	HTLT71116	HTLP71116	HTLB71116
<b>FRACTIONAL</b>						
1/4"	20	4	H3	HTLT71120	HTLP71120	HTLB71120
1/4"	28	4	H3	HTLT71121	HTLP71121	HTLB71121
5/16"	18	4	H3	HTLT71122	HTLP71122	HTLB71122
5/16"	24	4	H3	HTLT71123	HTLP71123	HTLB71123
3/8"	16	4	H3	HTLT71124	HTLP71124	HTLB71124
3/8"	24	4	H3	HTLT71125	HTLP71125	HTLB71125
7/16"	14	4	H3	HTLT71126	HTLP71126	HTLB71126
7/16"	20	4	H3	HTLT71127	HTLP71127	HTLB71127
1/2"	13	4	H3	HTLT71128	HTLP71128	HTLB71128
1/2"	20	4	H3	HTLT71129	HTLP71129	HTLB71129
9/16"	12	4	H3	HTLT71130	HTLP71130	HTLB71130
9/16"	18	4	H3	HTLT71131	HTLP71131	HTLB71131
5/8"	11	4	H3	HTLT71132	HTLP71132	HTLB71132
5/8"	18	4	H3	HTLT71133	HTLP71133	HTLB71133
3/4"	10	4	H3	HTLT71134	HTLP71134	HTLB71134
3/4"	16	4	H3	HTLT71135	HTLP71135	HTLB71135
7/8"	9	4	H4	HTLT71136	HTLP71136	HTLB71136
7/8"	14	4	H4	HTLT71137	HTLP71137	HTLB71137
1"	8	4	H4	HTLT71138	HTLP71138	HTLB71138
1"	12	4	H4	HTLT71139	HTLP71139	HTLB71139
1"	14	4	H4	HTLT71140	HTLP71140	HTLB71140
1-1/8"	7	4	H4	HTLT71141	HTLP71141	HTLB71141
1-1/8"	12	4	H4	HTLT71142	HTLP71142	HTLB71142
1-1/4"	7	4	H4	HTLT71143	HTLP71143	HTLB71143
1-1/4"	12	6	H4	HTLT71144	HTLP71144	HTLB71144
1-3/8"	6	4	H4	HTLT71145	HTLP71145	HTLB71145
1-3/8"	12	6	H4	HTLT71146	HTLP71146	HTLB71146
1-1/2"	6	4	H4	HTLT71147	HTLP71147	HTLB71147
1-1/2"	12	6	H4	HTLT71148	HTLP71148	HTLB71148

6 to 1/4", 10 per pack  
5/16" to 1/2", 5 per pack

9/16" to 1", 3 per pack  
1-1/8" to 1-1/2", 1 per pack

\*Please note stock numbers HSHTL71111 to HSHTL71147 from catalog 03G have been revised.

All taps available TiN coated. Details on request.

# Metric Left Hand Taps

## High-Speed Steel Ground Thread

### Features:

- Specifically designed to cut threads with left hand rotation.
- Precision ground for a wide variety of applications.



### PLUG CHAMFER

**NEW!**

TAP SIZE	PITCH	CLASS OF FIT	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>METRIC</b>					
3.5	0.60	6H	3	D4	HTLM81111
4	0.70	6H	4	D4	HTLM81113
4.5	0.75	6H	4	D4	HTLM81115
5	0.80	6H	4	D4	HTLM81116
6	1.00	6H	4	D5	HTLM81120
7	1.00	6H	4	D5	HTLM81123
8	1.25	6H	4	D5	HTLM81124
8	1.00	6H	4	D5	HTLM81125
10	1.50	6H	4	D6	HTLM81127
10	1.25	6H	4	D5	HTLM81128
12	1.75	6H	4	D6	HTLM81131
12	1.25	6H	4	D5	HTLM81133
14	2.00	6H	4	D7	HTLM81134
14	1.50	6H	4	D6	HTLM81135
16	2.00	6H	4	D7	HTLM81137
16	1.50	6H	4	D6	HTLM81138
18	2.50	6H	4	D7	HTLM81139
18	1.50	6H	4	D6	HTLM81142
20	2.50	6H	4	D7	HTLM81143
20	1.50	6H	4	D6	HTLM81144
22	2.50	6H	4	D7	HTLM81147
22	1.50	6H	4	D6	HTLM81148
24	3.00	6H	4	D8	HTLM81149
24	2.00	6H	4	D7	HTLM81150

3mm to 6mm, 10 per pack, 7mm to 12mm, 5 per pack  
14mm to 24mm, 3 per pack

Metric Left Hand Taps • Monolock Tap Bits

**B**

## Tap Bits

### High-Speed Steel 1/4" Power Shank



Use with Hex Shank Driving Tool  
or Ratchet Handle Wrench.



### MACHINE SCREW & FRACTIONAL SIZES

TAP SIZE x TPI	NC/NF	OAL	STOCK #
6-32	NC	1-5/8"	HST70321
8-32	NC	1-5/8"	HST70322
10-24	NC	1-5/8"	HST70323
1/4"-20	NC	1-5/8"	HST70324
5/16"-18	NC	1-5/8"	HST70325
3/8"-16	NC	1-5/8"	HST70326
6-40	NF	1-5/8"	HST70341
8-36	NF	1-5/8"	HST70342
10-32	NF	1-5/8"	HST70343
1/4"-28	NF	1-5/8"	HST70344
5/16"-24	NF	1-5/8"	HST70345
3/8"-24	NF	1-5/8"	HST70346

1 per pack

- 1/4" hex shanks are designed for use in power tools with quick change chucks and adapters. Also provides added stability when used in standard drill chucks.

### METRIC

TAP SIZE x TPI	OAL	STOCK #
4-0.70	1-5/8"	HST70351
5-0.80	1-5/8"	HST70352
6-1.00	1-5/8"	HST70353
8-1.25	1-5/8"	HST70354
10-1.25	1-5/8"	HST70355

1 per pack



# Spiral Pointed Taps

## High-Speed Steel, Ground Thread Right Hand Spiral, Bright Finish

### Features:

- Specially designed for tapping deep through or blind holes where chips may collect at the bottom of the hole.
- Prevents clogging by forcing chips ahead of tap.
- Suitable for tapping most materials, especially those with high ductility.
- Also known as "gun taps" as chips are shot forward.



### PLUG CHAMFER

Expanded

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #	
				ALFA USA	ECO PRO
<b>MACHINE SCREW SIZES</b>					
0	80	2	H1	SPT170100	SPT270100
1	64	2	H1	SPT170101	SPT270101
1	72	2	H1	SPT170102	SPT270102
2	56	2	H2	SPT170103	SPT270103
2	64	2	H2	SPT170104	SPT270104
3	48	2	H2	SPT170105	SPT270105
3	56	2	H2	SPT170106	SPT270106
4	40	2	H2	SPT170107	SPT270107
4	48	2	H2	SPT170108	SPT270108
4	*36	2	H2	SPT170108A	SPT270108A
5	40	2	H2	SPT170109	SPT270109
5	44	2	H2	SPT170110	SPT270110
6	32	2	H3	SPT170111	SPT270111
6	40	2	H2	SPT170112	SPT270112
8	32	2	H3	SPT170113	SPT270113
8	36	2	H2	SPT170114	SPT270114
10	24	2	H3	SPT170115	SPT270115
10	32	2	H3	SPT170116	SPT270116
12	24	2	H3	SPT170117	SPT270117
12	28	2	H3	SPT170118	SPT270118
<b>FRACTIONAL</b>					
1/4"	20	2	H3	SPT170128	SPT270128
1/4"	28	2	H3	SPT170129	SPT270129
5/16"	18	2	H3	SPT170130	SPT270130
5/16"	24	2	H3	SPT170131	SPT270131
3/8"	16	3	H3	SPT170132	SPT270132
3/8"	24	3	H3	SPT170133	SPT270133
7/16"	14	3	H3	SPT170134	SPT270134
7/16"	20	3	H3	SPT170135	SPT270135
1/2"	13	3	H3	SPT170136	SPT270136
1/2"	20	3	H3	SPT170137	SPT270137
9/16"	12	3	H3	SPT170138	SPT270138
9/16"	18	3	H3	SPT170139	SPT270139
5/8"	11	3	H3	SPT170140	SPT270140
5/8"	18	3	H3	SPT170141	SPT270141
3/4"	10	3	H3	SPT170142	SPT270142
3/4"	16	3	H3	SPT170143	SPT270143
7/8"	9	3	H4	SPT170144	SPT270144
7/8"	14	3	H4	SPT170145	SPT270145
1"	8	3	H4	SPT170146	SPT270146
1"	12	3	H4	SPT170147	SPT270147
1"	*14	3	H4	SPT170148	SPT270148

0 to 1/4", 12 per pack, 5/16" to 1/2", 6 per pack, \*UNS  
9/16" to 3/4", 3 per pack, 7/8" to 1", 1 per pack



• ALFA USA taps are made in the United States.



• ECO PRO taps are made in Europe.

# Spiral Pointed Taps - Black Oxide

## High-Speed Steel, Ground Thread Right Hand Spiral



### Features:

- Specially designed for tapping deep through or blind holes where chips may collect at the bottom of the hole.
- For use in Oil Field, Pipe Line and Heat Exchanger Applications.
- Prevents clogging by forcing chips ahead of tap.
- Suitable for tapping most materials, especially those with high ductility.
- Also known as "gun taps" as chips are shot forward.

**Black oxide surface treatment provides extra lubricity, increases wear resistance and extends tool life.**

**NOT RECOMMENDED FOR NON-FERROUS MATERIALS.**



### PLUG CHAMFER

Expanded

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
				ALFA USA
<b>MACHINE SCREW SIZES</b>				
0	80	2	H1	SPTB170100
1	64	2	H1	SPTB170101
1	72	2	H1	SPTB170102
2	56	2	H2	SPTB170103
2	64	2	H2	SPTB170104
3	48	2	H2	SPTB170105
3	56	2	H2	SPTB170106
4	40	2	H2	SPTB170107
4	48	2	H2	SPTB170108
4	*36	2	H2	SPTB170108A
5	40	2	H2	SPTB170109
5	44	2	H2	SPTB170110
6	32	2	H3	SPTB170111
6	40	2	H2	SPTB170112
8	32	2	H3	SPTB170113
8	36	2	H2	SPTB170114
10	24	2	H3	SPTB170115
10	32	2	H3	SPTB170116
12	24	2	H3	SPTB170117
12	28	2	H3	SPTB170118
<b>FRACTIONAL</b>				
1/4"	20	2	H3	SPTB170128
1/4"	20	3	H3	SPTB170129
1/4"	28	2	H3	SPTB170130
5/16"	18	2	H3	SPTB170131
5/16"	24	2	H3	SPTB170132
3/8"	16	3	H3	SPTB170133
3/8"	24	3	H3	SPTB170134
7/16"	14	3	H3	SPTB170135
7/16"	20	3	H3	SPTB170136
1/2"	13	3	H3	SPTB170137
1/2"	20	3	H3	SPTB170138
9/16"	12	3	H3	SPTB170139
9/16"	18	3	H3	SPTB170140
5/8"	11	3	H3	SPTB170141
5/8"	18	3	H3	SPTB170142
3/4"	10	3	H3	SPTB170143
3/4"	16	3	H3	SPTB170144

0 to 1/4", 12 per pack, 5/16" to 1/2", 6 per pack, \*UNS  
9/16" to 3/4", 3 per pack



• ALFA USA taps are made in the United States.



• ECO PRO taps are made in Europe.

# Spiral Pointed Taps - Cont.

## High-Speed Steel, Ground Thread Right Hand Spiral

### METRIC SPIRAL POINTED TAPS

**Features:**

- Specially designed for tapping deep through or blind holes where chips may collect at the bottom of the hole.
- Prevents clogging by forcing chips ahead of tap.
- Suitable for tapping most materials, especially those with high ductility.
- Also known as "gun taps" as chips are shot forward.



**PLUG CHAMFER**

TAP SIZE	PITCH	D LIMIT	NO. OF FLUTES	THREAD LENGTH	STOCK #	
					ALFA USA	ECO PRO
1.6	0.35	3	2	5/16	SPTM170151	SPTM270151
1.8	0.35	3	2	3/8	SPTM170152	SPTM270152
2	0.40	3	2	7/16	SPTM170153	SPTM270153
2.2	0.45	3	2	7/16	SPTM170154	SPTM270154
2.5	0.45	3	2	1/2	SPTM170155	SPTM270155
3	0.50	3	2	5/8	SPTM170156	SPTM270156
3.5	0.60	4	2	11/16	SPTM170157	SPTM270157
4	0.70	4	2	3/4	SPTM170158	SPTM270158
4.5	0.75	4	2	7/8	SPTM170159	SPTM270159
5	0.80	4	2	7/8	SPTM170160	SPTM270160
6	1.00	5	2	1	SPTM170161	SPTM270161
6.3	1.00	5	2	1	-	SPTM270162
7	1.00	5	2	1-1/8	SPTM170163	SPTM270163
8	1.25	5	2	1-1/8	SPTM170164	SPTM270164
8	1.00	5	2	1-1/8	SPTM170165	SPTM270165
10	1.50	6	3	1-1/4	SPTM170166	SPTM270166
10	1.25	5	3	1-1/4	SPTM170167	SPTM270167
12	1.75	6	3	1-21/32	SPTM170168	SPTM270168
12	1.25	5	3	1-21/32	SPTM170169	SPTM270169
14	2.00	7	3	1-21/32	SPTM170170	SPTM270170
14	1.50	6	3	1-21/32	SPTM170171	SPTM270171
16	2.00	7	3	1-13/16	SPTM170172	SPTM270172
16	1.50	6	3	1-13/16	SPTM170173	SPTM270173
18	2.50	7	4	1-13/16	SPTM170174	SPTM270174
20	2.50	7	3	2	SPTM170175	SPTM270175
20	2.50	6	4	2	-	SPTM270176

1.6mm to 6mm, 12 per pack,  
7mm to 12mm, 6 per pack, 14mm to 20mm, 3 per pack



• **ALFA USA** taps are made in the United States.



• **ECO PRO** taps are made in Europe.

## SPIRAL POINTED TAPS + .005 OVERSIZE



- Features:**
- Produces threads with a pitch diameter .005 larger than basic pitch diameter.
  - Used on parts to be plated or heat treated after tapping, or where loss of size is anticipated.



**PLUG CHAMFER**

TAP SIZE	TPI	NO. OF FLUTES	STOCK #
<b>MACHINE SCREW SIZES</b>			
6	32	2	SPTO71511
8	32	2	SPTO71513
10	24	2	SPTO71515
10	32	2	SPTO71516
<b>FRACTIONAL</b>			
1/4"	20	2	SPTO71528
1/4"	28	2	SPTO71529
5/16"	18	2	SPTO71530
5/16"	24	2	SPTO71531
3/8"	16	3	SPTO71532
3/8"	24	3	SPTO71533
7/16"	14	3	SPTO71534
1/2"	13	3	SPTO71536
1/2"	20	3	SPTO71537

5 per pack

## SPIRAL POINTED TAPS TITANIUM NITRIDE COATED



- Features:**
- Titanium Nitride coating provides greater surface hardness and lubricity to promote longer tap life.
  - Provides higher tapping speeds.



**PLUG CHAMFER**

Expanded

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
				ALFA USA
<b>MACHINE SCREW SIZES</b>				
4	40	2	H2	SPT170107TN
6	32	2	H3	SPT170111TN
8	32	2	H3	SPT170113TN
10	24	2	H3	SPT170115TN
10	32	2	H3	SPT170116TN
12	24	2	H3	SPT170117TN
<b>FRACTIONAL</b>				
1/4"	20	2	H3	SPT170128TN
1/4"	28	2	H3	SPT170129TN
5/16"	18	2	H3	SPT170130TN
5/16"	24	2	H3	SPT170131TN
3/8"	16	3	H3	SPT170132TN
3/8"	24	3	H3	SPT170133TN
7/16"	14	3	H3	SPT170134TN
7/16"	20	3	H3	SPT170135TN
1/2"	13	3	H3	SPT170136TN
1/2"	20	3	H3	SPT170137TN
5/8"	11	3	H3	SPT170140TN
5/8"	18	3	H3	SPT170141TN
3/4"	10	3	H3	SPT170142TN
3/4"	16	3	H3	SPT170143TN

1 per pack

Spiral Pointed Taps

**B**

# Spiral Fluted Taps

## High-Speed Steel Ground Thread



### Features:

- Spiral fluted taps draw chips out of a tapped hole, thereby preventing clogging and recutting of chips.
- Will bridge a keyway or other slot inside a hole without binding.
- Can be used for tapping most materials, especially mild steel, aluminum, magnesium, copper and brass in blind holes.

### Fast Spiral

**Chamfer: Plug (3 to 5 threads) Bottoming (1 to 2 threads)**



### PLUG CHAMFER

### BOTTOMING CHAMFER

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>				
<b>3</b>	48	2	H2	SFTP170905
<b>3</b>	56	2	H2	SFTP170906
<b>4</b>	40	2	H2	SFTP170907
<b>4</b>	48	2	H2	SFTP170908
<b>5</b>	40	2	H2	SFTP170909
<b>5</b>	44	2	H2	SFTP170910
<b>6</b>	32	2	H3	SFTP170911
<b>6</b>	40	2	H2	SFTP170912
<b>8</b>	32	2-3	H3	SFTP170913
<b>8</b>	36	2-3	H3	SFTP170914
<b>10</b>	24	2-3	H3	SFTP170915
<b>10</b>	32	2-3	H3	SFTP170916
<b>12</b>	24	2-3	H3	SFTP170917
<b>12</b>	28	2-3	H3	SFTP170918
<b>FRACTIONAL</b>				
<b>1/4"</b>	20	2-3	H3	SFTP170930
<b>1/4"</b>	28	2-3	H3	SFTP170931
<b>5/16"</b>	18	3	H3	SFTP170932
<b>5/16"</b>	24	3	H3	SFTP170933
<b>3/8"</b>	16	3	H3	SFTP170934
<b>3/8"</b>	24	3	H3	SFTP170935
<b>7/16"</b>	14	3-4	H3	SFTP170936
<b>7/16"</b>	20	3-4	H3	SFTP170937
<b>1/2"</b>	13	3-4	H3	SFTP170938
<b>1/2"</b>	20	3-4	H3	SFTP170939
<b>9/16"</b>	12	3-4	H3	SFTP170940
<b>9/16"</b>	18	3-4	H3	SFTP170941
<b>5/8"</b>	11	3-4	H3	SFTP170942
<b>5/8"</b>	18	3-4	H3	SFTP170943
<b>3/4"</b>	10	4	H3	SFTP170946
<b>3/4"</b>	16	4	H3	SFTP170947

TAP SIZE	TPI	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>				
<b>3</b>	48	2	H2	SFTB170905
<b>3</b>	56	2	H2	SFTB170906
<b>4</b>	40	2	H2	SFTB170907
<b>4</b>	48	2	H2	SFTB170908
<b>5</b>	40	2	H2	SFTB170909
<b>5</b>	44	2	H2	SFTB170910
<b>6</b>	32	2	H3	SFTB170911
<b>6</b>	40	2	H2	SFTB170912
<b>8</b>	32	2-3	H3	SFTB170913
<b>8</b>	36	2-3	H3	SFTB170914
<b>10</b>	24	2-3	H3	SFTB170915
<b>10</b>	32	2-3	H3	SFTB170916
<b>12</b>	24	2-3	H3	SFTB170917
<b>12</b>	28	2-3	H3	SFTB170918
<b>FRACTIONAL</b>				
<b>1/4"</b>	20	2-3	H3	SFTB170930
<b>1/4"</b>	28	2-3	H3	SFTB170931
<b>5/16"</b>	18	3	H3	SFTB170932
<b>5/16"</b>	24	3	H3	SFTB170933
<b>3/8"</b>	16	3	H3	SFTB170934
<b>3/8"</b>	24	3	H3	SFTB170935
<b>7/16"</b>	14	3-4	H3	SFTB170936
<b>7/16"</b>	20	3-4	H3	SFTB170937
<b>1/2"</b>	13	3-4	H3	SFTB170938
<b>1/2"</b>	20	3-4	H3	SFTB170939
<b>9/16"</b>	12	3-4	H3	SFTB170940
<b>9/16"</b>	18	3-4	H3	SFTB170941
<b>5/8"</b>	11	3-4	H3	SFTB170942
<b>5/8"</b>	18	3-4	H3	SFTB170943
<b>3/4"</b>	10	4	H3	SFTB170946
<b>3/4"</b>	16	4	H3	SFTB170947

3 to 1/4", 12 per pack, 5/16" to 1/2", 6 per pack  
9/16" to 3/4", 3 per pack

3 to 1/4", 12 per pack, 5/16" to 1/2", 6 per pack  
9/16" to 3/4", 3 per pack

# Thread Forming Taps

# Pulley Taps

## High-Speed Steel Ground Thread



For internal  
threading in  
ductile materials

### Features:

- Very effective in ductile materials such as aluminum, brass, stainless steel, copper, zinc, cast steel and alloy steel materials.



### PLUG CHAMFER BOTTOMING CHAMFER

TAP SIZE	TPI	GRIND LIMITS	CLASS OF FIT	STOCK #	
				PLUG	BOTTOM
<b>MACHINE SCREW SIZES</b>					
0	80	H3	2B	-	TFB81700
1	64	H3	3B	-	TFB81701
1	72	H3	3B	-	TFB81702
2	56	H3	3B	-	TFB81703
2	64	H3	3B	-	TFB81704
3	48	H3	3B	-	TFB81705
3	56	H3	3B	-	TFB81706
4	40	H3	3B	TFP71707	TFB81707
4	48	H3	3B	TFP71708	TFB81708
5	40	H4	3B	TFP71709	TFB81709
5	44	H3	3B	TFP71710	TFB81710
6	32	H4	3B	TFP71711	TFB81711
6	40	H4	3B	TFP71712	TFB81712
8	32	H4	3B	TFP71713	TFB81713
8	36	H4	3B	TFP71714	TFB81714
10	24	H5	2B	TFP71715	TFB81715
10	32	H5	2B	TFP71716	TFB81716
12	24	H4	3B	TFP71717	TFB81717
12	28	H4	3B	TFP71718	TFB81718
<b>FRACTIONAL</b>					
1/4"	20	H6	2B	TFP71719	TFB81719
1/4"	28	H5	2B	TFP71720	TFB81720
5/16"	18	H6	2B	TFP71721	TFB81721
5/16"	24	H6	2B	TFP71722	TFB81722
3/8"	16	H7	2B	TFP71723	TFB81723
3/8"	24	H6	2B	TFP71724	TFB81724
7/16"	14	H6	3B	TFP71725	TFB81725
7/16"	20	H5	3B	TFP71726	TFB81726
1/2"	13	H8	2B	TFP71727	TFB81727
1/2"	20	H5	3B	TFP71728	TFB81728
9/16"	12	H6	3B	TFP71729	TFB81729
9/16"	18	H5	3B	TFP71730	TFB81730
5/8"	11	H8	2B	TFP71731	TFB81731
5/8"	18	H6	3B	TFP71732	TFB81732
3/4"	10	H8	2B	TFP71733	TFB81733
3/4"	16	H6	3B	TFP71734	TFB81734

1 per pack

## High-Speed Steel Ground Thread



### Features:

- Specially designed to tap the set screw thread in pulley hubs.
- Also used as extension taps in many applications.
- Available in 6", 8", 10" & 12" overall lengths.



### PLUG CHAMFER

TAP SIZE	TPI	OVERALL LENGTH	NO. OF FLUTES	GRIND LIMITS	STOCK #
<b>MACHINE SCREW SIZES</b>					
6	32	6	3	3	HSPUT70201
8	32	6	4	3	HSPUT70202
10	24	6	4	3	HSPUT70203
10	32	6	4	3	HSPUT70204
<b>FRACTIONAL</b>					
1/4"	20	6	4	3	HSPUT70205
1/4"	28	6	4	3	HSPUT70206
5/16"	18	6	4	3	HSPUT70207
5/16"	24	6	4	3	HSPUT70208
3/8"	16	6	4	3	HSPUT70209
3/8"	24	6	4	3	HSPUT70210
7/16"	14	6	4	3	HSPUT70211
7/16"	20	6	4	3	HSPUT70212
1/2"	13	6	4	3	HSPUT70213
1/2"	20	6	4	3	HSPUT70214
5/8"	11	6	4	3	HSPUT70215
5/8"	18	6	4	3	HSPUT70216
1/4"	20	8	4	3	HSPUT70230
1/4"	28	8	4	3	HSPUT70231
5/16"	18	8	4	3	HSPUT70232
5/16"	24	8	4	3	HSPUT70233
3/8"	16	8	4	3	HSPUT70234
3/8"	24	8	4	3	HSPUT70235
7/16"	14	8	4	3	HSPUT70236
1/2"	13	8	4	3	HSPUT70238
1/2"	20	8	4	3	HSPUT70239
5/8"	11	8	4	3	HSPUT70240
5/8"	18	8	4	3	HSPUT70241
3/4"	10	8	4	3	HSPUT70242
1"	8	8	4	3	HSPUT70243
3/8"	16	10	4	3	HSPUT70250
1/2"	13	10	4	3	HSPUT70254
5/8"	11	10	4	3	HSPUT70256
5/8"	18	10	4	3	HSPUT70257
3/4"	10	10	4	3	HSPUT70258
3/4"	16	10	4	3	HSPUT70259
1"	8	10	4	3	HSPUT70260
1/2"	13	12	4	4	HSPUT70270
5/8"	11	12	4	4	HSPUT70272
5/8"	18	12	4	4	HSPUT70273
3/4"	10	12	4	4	HSPUT70274
1"	8	12	4	4	HSPUT70276

1 per pack

# Nut Taps

## High-Speed Steel Ground Thread



### Features:

- Nut taps have long thread length, long chamfers & longer shanks.
- Long chamfers assist in centering the hole.
- May also be used to reach holes that would not be accessible with regular length taps.

**NEW!**

TAP SIZE	TPI	GRIND LIMITS	NO. OF FLUTES	THREAD LENGTH	OVERALL LENGTH	STOCK #
1/4"	20	H3	4	1-5/8"	5	NT30230
5/16"	18	H3	4	1-13/16"	5-1/2	NT30232
3/8"	16	H3	4	2"	6	NT30234
1/2"	13	H3	4	2-1/2"	7	NT30238

1 per pack



# Pipe Taps

## High-Speed Steel Ground Thread



### TAPER PIPE TAPS, NPT

- Features:**
- Used for tapping pipe and pipe fittings.
  - Designed to produce threads where mated parts are not required to withstand high fluid and gas pressures, and where the use of a sealing compound or tape may be used to produce leakproof threads.



TAP SIZE (PIPE)	TPI	THREAD LENGTH	NO. OF FLUTES	STOCK #	
				ALFA USA	ECO PRO
1/16"	27	11/16"	4	HSNPT170301	HSNPT270301
1/8"	27	3/4"	4	HSNPT170302	HSNPT270302
1/4"	18	1-1/16"	4	HSNPT170303	HSNPT270303
3/8"	18	1-1/16"	4	HSNPT170304	HSNPT270304
1/2"	14	1-3/8"	4	HSNPT170305	HSNPT270305
3/4"	14	1-3/8"	5	HSNPT170306	HSNPT270306
1"	11-1/2	1-3/4"	5	HSNPT170307	HSNPT270307
1-1/4"	11-1/2	1-3/4"	5	HSNPT170308	HSNPT270308
1-1/2"	11-1/2	1-3/4"	7	HSNPT170309	HSNPT270309
2"	11-1/2	1-3/4"	7	HSNPT170310	HSNPT270310
2-1/2"	8	2-9/16"	8	—	HSNPT270311
3"	8	2-5/8"	8	—	HSNPT270312
3-1/2"	8	2-11/16"	8	—	HSNPT270313
4"	8	2-3/4"	8	—	HSNPT270314

1 per pack



### TAPER PIPE TAPS, NPTF (Dry Seal)

- Features:**
- Dry Seal Taps are used to tap fittings which give a pressure tight joint without the use of a sealer.
  - Used where sealing compounds may fail due to high heat or high fluid and gas pressures.
  - Suitable for carbon steels, leaded steels and die-cast parts.



TAP SIZE	TPI	THREAD LENGTH	NO. OF FLUTES	STOCK #	
				ALFA USA	ECO PRO
1/16"	27	11/16"	4	HSNPT180321	HSNPT280321
1/8"	27	3/4"	4	HSNPT180322	HSNPT280322
1/4"	18	1-1/16"	4	HSNPT180323	HSNPT280323
3/8"	18	1-1/16"	4	HSNPT180324	HSNPT280324
1/2"	14	1-3/8"	4	HSNPT180325	HSNPT280325
3/4"	14	1-3/8"	5	HSNPT180326	HSNPT280326
1"	11-1/2	1-3/4"	5	HSNPT180327	HSNPT280327
1-1/4"	11-1/2	1-3/4"	5	HSNPT180328	HSNPT280328

1 per pack

Pipe Taps

B



### TAPER PIPE TAPS, INTERRUPTED

- Features:**
- Suitable for threading both ferrous and nonferrous materials where chip disposal is a problem.
  - The interrupted threads reduce drag while taper pipe threading.
  - These pipe taps are standard, having an odd number of flutes.



TAP SIZE	TPI	NO. OF FLUTES	OVERALL LENGTH	LENGTH OF THREAD	STOCK #	
					ALFA USA	ECO PRO
1/16"	27	5	2-1/8"	11/16"	HSNPT76701	HSNPT26701
1/8"	27	5	2-1/8"	3/4"	HSNPT76702	HSNPT26702
1/4"	18	5	2-7/16"	1-1/16"	HSNPT76703	HSNPT26703
3/8"	18	5	2-9/16"	1-1/16"	HSNPT76704	HSNPT26704
1/2"	14	5	3-1/8"	1-3/8"	HSNPT76705	HSNPT26705
3/4"	14	5	3-1/4"	1-3/8"	HSNPT76706	HSNPT26706
1"	11-1/2	5	3-3/4"	1-3/4"	HSNPT76707	HSNPT26707
1-1/4"	11-1/2	5	4"	1-3/4"	HSNPT76708	—
1-1/2"	11-1/2	7	4"	1-3/4"	HSNPT76709	—
2"	11-1/2	7	4-1/2"	1-3/4"	HSNPT76710	—

1 per pack

### Straight & Taper



U.K.



### BSP BRITISH STANDARD PIPE TAPS

- Features:**
- Suitable for tapping holes or couplings for low pressure work.
  - A sealant must be used to ensure a pressure-tight joint.

TAP SIZE	TPI	STOCK #	
		BSPP STRAIGHT	BSPT TAPER
1/8"	28	BSPP70452	BSPT70342
1/4"	19	BSPP70453	BSPT70343
3/8"	19	BSPP70454	BSPT70344
1/2"	14	BSPP70455	BSPT70345
3/4"	14	BSPP70456	BSPT70346
1"	11	BSPP70457	BSPT70347
1-1/4"	11	BSPP70458	BSPT70348
1-1/2"	11	BSPP70459	BSPT70349
2"	11	BSPP70460	BSPT70350

1 per pack



• ALFA USA taps are made in the United States.



• ECO PRO taps are made in Europe.

# Pipe Taps - Cont.

## High-Speed Steel



### STRAIGHT PIPE TAPS, NPS

- Features:**
- Suitable for tapping holes or couplings for low pressure work.
  - Suitable for assembly with taper threaded pipe or fittings to secure tight joints when sealer is used.

TAP SIZE	TPI	THREAD LENGTH	NO. OF FLUTES	STOCK #
				ALFA USA
1/16"	27	11/16"	4	HSNPS172321
1/8"	27	3/4"	4	HSNPS172323
1/4"	18	1-1/16"	4	HSNPS172324
3/8"	18	1-1/16"	4	HSNPS172325
1/2"	14	1-3/8"	4	HSNPS172326
3/4"	14	1-3/8"	5	HSNPS172327
1"	11-1/2	1-3/4"	5	HSNPS172328
1-1/4"	11-1/2	1-3/4"	5	HSNPS172329
1-1/2"	11-1/2	1-3/4"	7	HSNPS172330
2"	11-1/2	1-3/4"	7	HSNPS172331

1 per pack

# Pipe Reamers

## High-Speed Steel



### TAPER PIPE REAMERS

- Features:**
- 3/4" taper per foot.
  - For reaming holes to be tapped with taper pipe taps.

NPT SIZE	SMALL DIA.	LARGE DIA.	OVERALL LENGTH	STOCK #
<b>STRAIGHT FLUTE</b>				
1/8"	.316	.362	2-1/8"	HSPR70341
1/4"	.406	.472	2-7/16"	HSPR70342
3/8"	.540	.606	2-9/16"	HSPR70343
1/2"	.665	.751	3-1/8"	HSPR70344
3/4"	.876	.962	3-1/4"	HSPR70345
1"	1.103	1.212	3-3/4"	HSPR70346
1-1/4"	1.444	1.553	4"	HSPR70347
1-1/2"	1.684	1.793	4-1/4"	HSPR70348
2"	2.159	2.268	4-1/2"	HSPR70349
<b>SPIRAL FLUTE</b>				
1/8"	.316	.362	2-1/8"	HSPR70351
1/4"	.406	.472	2-7/16"	HSPR70352
3/8"	.540	.606	2-9/16"	HSPR70353
1/2"	.665	.751	3-1/8"	HSPR70354
3/4"	.876	.962	3-1/4"	HSPR70355
1"	1.103	1.212	3-3/4"	HSPR70356
1-1/4"	1.444	1.553	4"	HSPR70357
1-1/2"	1.684	1.793	4-1/4"	HSPR70358
2"	2.159	2.268	4-1/2"	HSPR70359

1 per pack

# Rethreading Taps

## Carbon Steel

- Restores internal threads without undercutting.



THREAD SIZE	STOCK #
1/4" - 20	RTT70761
1/4" - 28	RTT70762
5/16" - 18	RTT70763
5/16" - 24	RTT70764
3/8" - 16	RTT70765
3/8" - 24	RTT70766
7/16" - 14	RTT70767
7/16" - 20	RTT70768
1/2" - 13	RTT70769
1/2" - 20	RTT70770
9/16" - 12	RTT70771
9/16" - 18	RTT70772

1 per pack

### RETHREADING TAP SET

NO. OF PIECES	DESCRIPTION	STOCK #
4 pc.	1 each sizes: 1/4" - 20; 5/16" - 18; 3/8" - 16; 1/2" - 13	RTT70775

1 per pack



# Acme Taps

## High-Speed Steel Ground Thread



### Tandem Style, Single Pass

- Features:**
- Combines roughing and finishing operations in one pass for more economical production runs.
  - No leadscrew required.
  - Thread pitches are generally coarse relative to the diameter.

SIZE	FLUTE LENGTH	OVERALL LENGTH	STOCK #
1/2" - 10	2-9/16"	5"	AT66571
5/8" - 8	3-3/16"	6-1/4"	AT66572
3/4" - 6	4-5/16"	7-15/16"	AT66573
7/8" - 6	4-3/8"	8-5/8"	AT66574
1" - 5	5-1/4"	10-1/8"	AT66575
1-3/8" - 4	5-7/8"	12-1/4"	AT66578
1-1/2" - 4	5-7/8"	12-5/8"	AT66579

1 per pack





# Round Adjustable Dies

## High-Speed Steel Standard Thread

- Used for cutting external right hand threads.
- Ideal for precision threading with die adjustment made by set screws.
- Adjustment dies allow the user to under or over cut their threads.
- For threading where a high-speed steel round adjustable die is desired for improved wear life.



Expanded

Round Adjustable Dies

**B**

TAP SIZE	TPI NC, NF, NS	STOCK #						
		13/16" O.D.	1" O.D.	1-1/2" O.D.	2" O.D.	2-1/2" O.D.	3" O.D.	4" O.D.
<b>MACHINE SCREW SIZES</b>								
0	80	HSRD90391	-	-	-	-	-	-
1	64	HSRD90392	-	-	-	-	-	-
1	72	HSRD90393	-	-	-	-	-	-
2	56	HSRD90394	-	-	-	-	-	-
2	64	HSRD90395	-	-	-	-	-	-
3	48	HSRD90396	-	-	-	-	-	-
3	56	HSRD90397	-	-	-	-	-	-
4	40	HSRD90398	HSRD90414	-	-	-	-	-
4	48	HSRD90399	HSRD90415	-	-	-	-	-
5	40	HSRD90400	HSRD90416	-	-	-	-	-
5	44	HSRD90401	-	-	-	-	-	-
6	32	HSRD90402	HSRD90417	-	-	-	-	-
6	40	HSRD90403	HSRD90418	-	-	-	-	-
8	32	HSRD90404	HSRD90419	-	-	-	-	-
8	36	HSRD90405	HSRD90420	-	-	-	-	-
10	24	HSRD90406	HSRD90421	-	-	-	-	-
10	32	HSRD90407	HSRD90422	-	-	-	-	-
12	24	HSRD90408	HSRD90423	-	-	-	-	-
12	28	HSRD90409	HSRD90424	-	-	-	-	-
<b>FRACTIONAL</b>								
1/4"	20	HSRD90410	HSRD90425	HSRD90435	HSRD90453	-	-	-
1/4"	28	HSRD90411	HSRD90426	HSRD90436	HSRD90454	-	-	-
5/16"	18	HSRD90412	HSRD90427	HSRD90437	HSRD90455	-	-	-
5/16"	24	HSRD90413	HSRD90428	HSRD90438	HSRD90456	-	-	-
3/8"	16	-	HSRD90429	HSRD90439	HSRD90457	-	-	-
3/8"	24	-	HSRD90430	HSRD90440	HSRD90458	-	-	-
7/16"	14	-	HSRD90431	HSRD90441	HSRD90459	-	-	-
7/16"	20	-	HSRD90432	HSRD90442	HSRD90460	-	-	-
1/2"	13	-	HSRD90433	HSRD90443	HSRD90461	-	-	-
1/2"	20	-	HSRD90434	HSRD90444	HSRD90462	-	-	-
9/16"	12	-	-	HSRD90445	HSRD90463	-	-	-
9/16"	18	-	-	HSRD90446	HSRD90464	-	-	-
5/8"	11	-	-	HSRD90447	HSRD90465	-	-	-
5/8"	18	-	-	HSRD90448	HSRD90466	-	-	-
11/16"	11	-	-	HSRD90449	HSRD90467	-	-	-
11/16"	16	-	-	HSRD90450	HSRD90468	-	-	-
3/4"	10	-	-	HSRD90451	HSRD90469	-	-	-
3/4"	16	-	-	HSRD90452	HSRD90470	-	-	-
7/8"	9	-	-	-	HSRD90471	-	-	-
7/8"	14	-	-	-	HSRD90472	-	-	-
1"	8	-	-	-	HSRD90473	-	HSRD90484	-
1"	12	-	-	-	HSRD90474	-	HSRD90485	-
1"	14	-	-	-	HSRD90475	-	HSRD90486	-
1-1/8"	7	-	-	-	-	HSRD90476	HSRD90487	-
1-1/8"	12	-	-	-	-	HSRD90477	HSRD90488	-
1-1/4"	7	-	-	-	-	HSRD90478	HSRD90489	-
1-1/4"	12	-	-	-	-	HSRD90479	HSRD90490	-
1-3/8"	6	-	-	-	-	HSRD90480	HSRD90491	-
1-3/8"	12	-	-	-	-	HSRD90481	HSRD90492	-
1-1/2"	6	-	-	-	-	HSRD90482	HSRD90493	-
1-1/2"	12	-	-	-	-	HSRD90483	HSRD90494	-
1-3/4"	5	-	-	-	-	-	HSRD90495	-
1-3/4"	12	-	-	-	-	-	HSRD90496	-
2"	4-1/2	-	-	-	-	-	HSRD90497	-
2"	12	-	-	-	-	-	HSRD90498	-
<b>NPT SIZES</b>								
1/16"	27	-	HSRD90499	-	-	-	-	-
1/8"	27	-	HSRD90500	HSRD90501	-	-	-	-
1/4"	18	-	-	HSRD90502	HSRD90504	-	-	-
3/8"	18	-	-	HSRD90503	HSRD90505	-	-	-
1/2"	14	-	-	-	HSRD90506	-	-	-
3/4"	14	-	-	-	HSRD90507	-	-	-
1"	11-1/2	-	-	-	-	HSRD90508	-	-
1-1/4"	11-1/2	-	-	-	-	-	HSRD90509	-
1-1/2"	11-1/2	-	-	-	-	-	HSRD90510	HSRD90511
2"	11-1/2	-	-	-	-	-	-	HSRD90512

1 per pack

**Note:** Stock numbers have been changed from previous publication.



# Round Adjustable Dies - Metric

High-Speed Steel  
Standard Thread



## METRIC SIZES

Expanded

TAP SIZE	TPI NC, NF, NS	STOCK #					
		13/16" O.D.	1" O.D.	1-1/2" O.D.	2" O.D.	2-1/2" O.D.	3" O.D.
1	0.25	HSRD90513	-	-	-	-	-
1.6	0.35	HSRD90514	-	-	-	-	-
2	0.40	HSRD90515	HSRD90523	-	-	-	-
2.2	0.45	-	HSRD90524	-	-	-	-
2.3	0.40	-	HSRD90525	-	-	-	-
2.5	0.45	HSRD90516	HSRD90526	-	-	-	-
2.6	0.45	-	HSRD90527	-	-	-	-
3	0.50	HSRD90517	HSRD90528	-	-	-	-
3.5	0.60	HSRD90518	HSRD90529	-	-	-	-
4	0.50	HSRD90519	-	-	-	-	-
4	0.70	HSRD90520	HSRD90530	-	-	-	-
4.5	0.75	-	HSRD90531	-	-	-	-
5	0.80	HSRD90521	HSRD90532	-	-	-	-
6	1.00	HSRD90522	HSRD90533	-	-	-	-
6.3	1.00	-	HSRD90534	-	-	-	-
7	1.00	-	HSRD90535	-	-	-	-
8	1.00	-	HSRD90536	-	-	-	-
8	1.25	-	HSRD90537	-	-	-	-
10	1.25	-	HSRD90538	HSRD90541	-	-	-
10	1.50	-	HSRD90539	HSRD90542	-	-	-
12	1.25	-	-	HSRD90543	-	-	-
12	1.75	-	HSRD90540	HSRD90544	-	-	-
14	1.50	-	-	HSRD90545	-	-	-
14	2.00	-	-	HSRD90546	-	-	-
16	2.00	-	-	HSRD90547	-	-	-
18	1.50	-	-	HSRD90548	-	-	-
18	2.50	-	-	HSRD90549	HSRD90552	-	-
20	1.50	-	-	HSRD90550	HSRD90553	-	-
20	2.50	-	-	HSRD90551	HSRD90554	-	-
22	1.50	-	-	-	HSRD90555	-	-
22	2.50	-	-	-	HSRD90556	-	-
24	2.00	-	-	-	HSRD90557	-	-
24	3.00	-	-	-	HSRD90558	-	-
27	2.00	-	-	-	HSRD90559	-	-
27	3.00	-	-	-	HSRD90560	-	-
30	3.50	-	-	-	HSRD90561	-	-
33	2.00	-	-	-	-	HSRD90562	-
45	4.50	-	-	-	-	-	HSRD90563

1 per pack

Note: Stock numbers have been changed from previous publication.

Round Adjustable Dies - Metric

B





# Round Adj. Dies - Special Thread

**High-Speed Steel**

- Features:**
- Provides improved wear life.
  - Ideal for precision threading with adjustment of die by set screws.
  - Allows the user to under or over cut threads.



## INCH SIZES – MACHINE SCREW & FRACTIONAL

Round Adjustable Dies - Special Thread

**B**

SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #
<b>1" O.D.</b>		<b>1" O.D.</b>		<b>1-1/2" O.D.</b>		<b>1-1/2" O.D.</b>		<b>2" O.D.</b>	
4-36	RDSP74710	5/16-30	RDSP74765	1/4-22	RDSP74810	1/2-48	RDSP74865	7/16-18	RDSP75030
4-56	RDSP74711	5/16-32	RDSP74766	1/4-24	RDSP74811	1/2-56	RDSP74866	7/16-24	RDSP75031
4-60	RDSP74712	5/16-36	RDSP74767	1/4-27	RDSP74812	9/16-14	RDSP74867	1/2-12	RDSP75032
4-64	RDSP74713	5/16-40	RDSP74768	1/4-30	RDSP74813	9/16-16	RDSP74868	1/2-16	RDSP75033
5-48	RDSP74714	5/16-48	RDSP74769	1/4-32	RDSP74814	9/16-20	RDSP74869	1/2-18	RDSP75034
5-56	RDSP74715	3/8-14	RDSP74770	1/4-36	RDSP74815	9/16-22	RDSP74870	1/2-24	RDSP75035
5-64	RDSP74716	3/8-18	RDSP74771	1/4-40	RDSP74816	9/16-24	RDSP74871	1/2-27	RDSP75036
6-30	RDSP74717	3/8-20	RDSP74772	1/4-48	RDSP74817	9/16-27	RDSP74872	1/2-28	RDSP75037
6-36	RDSP74718	3/8-22	RDSP74773	5/16-16	RDSP74818	9/16-28	RDSP74873	1/2-30	RDSP75038
6-48	RDSP74719	3/8-26	RDSP74774	5/16-20	RDSP74819	9/16-30	RDSP74874	1/2-32	RDSP75039
6-56	RDSP74720	3/8-27	RDSP74775	5/16-22	RDSP74820	9/16-32	RDSP74875	9/16-14	RDSP75040
8-24	RDSP74721	3/8-28	RDSP74776	5/16-27	RDSP74821	9/16-36	RDSP74876	9/16-20	RDSP75041
8-30	RDSP74722	3/8-30	RDSP74777	5/16-28	RDSP74822	9/16-40	RDSP74877	9/16-24	RDSP75042
8-40	RDSP74723	3/8-32	RDSP74778	5/16-30	RDSP74823	5/8-10	RDSP74878	9/16-27	RDSP75043
8-48	RDSP74724	3/8-36	RDSP74779	5/16-32	RDSP74824	5/8-12	RDSP74879	9/16-28	RDSP75044
8-56	RDSP74725	3/8-40	RDSP74780	5/16-36	RDSP74825	5/8-14	RDSP74880	9/16-30	RDSP75045
10-26	RDSP74726	3/8-48	RDSP74781	5/16-40	RDSP74826	5/8-16	RDSP74881	9/16-32	RDSP75046
10-27	RDSP74727	7/16-16	RDSP74782	5/16-48	RDSP74827	5/8-20	RDSP74882	9/16-36	RDSP75047
10-28	RDSP74728	7/16-18	RDSP74783	3/8-14	RDSP74828	5/8-22	RDSP74883	5/8-10	RDSP75048
10-30	RDSP74729	7/16-24	RDSP74784	3/8-18	RDSP74829	5/8-24	RDSP74884	5/8-12	RDSP75049
10-36	RDSP74730	7/16-27	RDSP74785	3/8-20	RDSP74830	5/8-26	RDSP74885	5/8-14	RDSP75050
10-40	RDSP74731	7/16-28	RDSP74786	3/8-22	RDSP74831	5/8-27	RDSP74886	5/8-16	RDSP75051
10-48	RDSP74732	7/16-30	RDSP74787	3/8-26	RDSP74832	5/8-28	RDSP74887	5/8-20	RDSP75052
10-56	RDSP74733	7/16-32	RDSP74788	3/8-27	RDSP74833	5/8-30	RDSP74888	5/8-24	RDSP75053
12-26	RDSP74734	7/16-36	RDSP74789	3/8-28	RDSP74834	5/8-32	RDSP74889	5/8-27	RDSP75054
12-27	RDSP74735	7/16-40	RDSP74790	3/8-30	RDSP74835	5/8-36	RDSP74890	5/8-28	RDSP75055
12-30	RDSP74736	1/2-12	RDSP74791	3/8-32	RDSP74836	5/8-40	RDSP74891	5/8-30	RDSP75056
12-32	RDSP74737	1/2-14	RDSP74792	3/8-36	RDSP74837	5/8-48	RDSP74892	5/8-32	RDSP75057
12-36	RDSP74738	1/2-16	RDSP74793	3/8-40	RDSP74838	11/16-12	RDSP74893	5/8-40	RDSP75058
12-40	RDSP74739	1/2-18	RDSP74794	3/8-48	RDSP74839	11/16-14	RDSP74894	11/16-12	RDSP75059
12-48	RDSP74740	1/2-22	RDSP74795	7/16-12	RDSP74840	11/16-18	RDSP74895	11/16-14	RDSP75060
12-56	RDSP74741	1/2-24	RDSP74796	7/16-16	RDSP74841	11/16-20	RDSP74896	11/16-18	RDSP75061
14-27	RDSP74742	1/2-27	RDSP74797	7/16-18	RDSP74842	11/16-24	RDSP74897	11/16-20	RDSP75062
14-28	RDSP74743	1/2-28	RDSP74798	7/16-22	RDSP74843	11/16-27	RDSP74898	11/16-24	RDSP75063
14-30	RDSP74744	1/2-30	RDSP74799	7/16-24	RDSP74844	11/16-30	RDSP74899	11/16-27	RDSP75064
14-32	RDSP74745	1/2-32	RDSP74800	7/16-27	RDSP74845	11/16-32	RDSP75000	11/16-32	RDSP75065
14-48	RDSP74746	1/2-36	RDSP74801	7/16-28	RDSP74846	3/4-12	RDSP75001	11/16-36	RDSP75066
1/4-14	RDSP74747	1/2-40	RDSP74802	7/16-30	RDSP74847	3/4-14	RDSP75002	11/16-40	RDSP75067
1/4-16	RDSP74748	1/2-48	RDSP74803	7/16-32	RDSP74848	3/4-18	RDSP75003	3/4-12	RDSP75068
1/4-18	RDSP74749			7/16-36	RDSP74849	3/4-20	RDSP75004	3/4-14	RDSP75069
1/4-22	RDSP74750			7/16-40	RDSP74850	3/4-24	RDSP75005	3/4-18	RDSP75070
1/4-24	RDSP74751			7/16-48	RDSP74851	3/4-27	RDSP75006	3/4-20	RDSP75071
1/4-26	RDSP74752			15/32-32	RDSP74852	3/4-28	RDSP75007	3/4-24	RDSP75072
1/4-27	RDSP74753			1/2-12	RDSP74853	3/4-30	RDSP75008	3/4-27	RDSP75073
1/4-30	RDSP74754			1/2-14	RDSP74854	3/4-32	RDSP75009	3/4-28	RDSP75074
1/4-32	RDSP74755			1/2-16	RDSP74855	3/4-36	RDSP75010	3/4-32	RDSP75075
1/4-36	RDSP74756			1/2-18	RDSP74856	3/4-40	RDSP75011	3/4-36	RDSP75076
1/4-40	RDSP74757			1/2-22	RDSP74857	3/4-48	RDSP75012	3/4-40	RDSP75077
1/4-48	RDSP74758			1/2-24	RDSP74858	13/16-10	RDSP75013	13/16-10	RDSP75078
1/4-56	RDSP74759			1/2-27	RDSP74859	13/16-12	RDSP75014	13/16-12	RDSP75079
5/16-16	RDSP74760			1/2-28	RDSP74860	13/16-16	RDSP75015	13/16-14	RDSP75080
5/16-20	RDSP74761			1/2-30	RDSP74861	13/16-20	RDSP75016	13/16-16	RDSP75081
5/16-22	RDSP74762			1/2-32	RDSP74862	13/16-24	RDSP75017		
5/16-27	RDSP74763			1/2-36	RDSP74863	13/16-28	RDSP75018		
5/16-28	RDSP74764			1/2-40	RDSP74864	13/16-32	RDSP75019		

*Continued*



# Round Adj. Dies - Special Thread - Cont.

High-Speed Steel



## INCH SIZES – MACHINE SCREW & FRACTIONAL

SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #	SIZE	STOCK #
<b>2" O.D.</b>		<b>2-1/2" O.D.</b>		<b>2-1/2" O.D.</b>		<b>3" O.D.</b>		<b>3" O.D.</b>	
13/16-18	RDSP75082	1-10	RDSP75130	1-1/4-24	RDSP75178	1-10	RDSP75230	1-1/2-14	RDSP75282
13/16-20	RDSP75083	1-16	RDSP75131	1-1/4-26	RDSP75179	1-16	RDSP75231	1-1/2-16	RDSP75283
13/16-24	RDSP75084	1-18	RDSP75132	1-1/4-27	RDSP75180	1-18	RDSP75232	1-1/2-18	RDSP75284
13/16-27	RDSP75085	1-20	RDSP75133	1-1/4-28	RDSP75181	1-20	RDSP75233	1-1/2-20	RDSP75285
13/16-30	RDSP75086	1-24	RDSP75134	1-1/4-30	RDSP75182	1-24	RDSP75234	1-1/2-24	RDSP75286
13/16-32	RDSP75087	1-26	RDSP75135	1-1/4-32	RDSP75183	1-1/16-8	RDSP75235	1-9/16-6	RDSP75287
13/16-36	RDSP75088	1-27	RDSP75136	1-1/4-36	RDSP75184	1-1/16-10	RDSP75236	1-9/16-8	RDSP75288
13/16-40	RDSP75089	1-28	RDSP75137	1-1/4-40	RDSP75185	1-1/16-12	RDSP75237	1-9/16-12	RDSP75289
7/8-10	RDSP75090	1-32	RDSP75138	1-5/16-8	RDSP75186	1-1/16-14	RDSP75238	1-9/16-16	RDSP75290
7/8-12	RDSP75091	1-1/16-7	RDSP75139	1-5/16-12	RDSP75187	1-1/16-16	RDSP75239	1-9/16-18	RDSP75291
7/8-16	RDSP75092	1-1/16-8	RDSP75140	1-5/16-14	RDSP75188	1-1/16-18	RDSP75240	1-5/8-5	RDSP75292
7/8-18	RDSP75093	1-1/16-10	RDSP75141	1-5/16-16	RDSP75189	1-1/16-20	RDSP75241	1-5/8-5-1/2	RDSP75293
7/8-20	RDSP75094	1-1/16-12	RDSP75142	1-5/16-18	RDSP75190	1-1/16-24	RDSP75242	1-5/8-6	RDSP75294
7/8-24	RDSP75095	1-1/16-14	RDSP75143	1-5/16-20	RDSP75191	1-1/8-8	RDSP75243	1-5/8-8	RDSP75295
7/8-27	RDSP75096	1-1/16-16	RDSP75144	1-5/16-24	RDSP75192	1-1/8-10	RDSP75244	1-5/8-10	RDSP75296
7/8-28	RDSP75097	1-1/16-18	RDSP75145	1-5/16-27	RDSP75193	1-1/8-14	RDSP75245	1-5/8-12	RDSP75297
7/8-30	RDSP75098	1-1/16-20	RDSP75146	1-5/16-32	RDSP75194	1-1/8-16	RDSP75246	1-5/8-14	RDSP75298
7/8-32	RDSP75099	1-1/16-24	RDSP75147	1-3/8-7	RDSP75195	1-1/8-18	RDSP75247	1-5/8-18	RDSP75299
7/8-36	RDSP75100	1-1/16-28	RDSP75148	1-3/8-8	RDSP75196	1-1/8-20	RDSP75248	1-5/8-20	RDSP75300
7/8-40	RDSP75101	1-1/8-8	RDSP75149	1-3/8-10	RDSP75197	1-1/8-24	RDSP75249	1-11/16-6	RDSP75301
15/16-10	RDSP75102	1-1/8-10	RDSP75150	1-3/8-14	RDSP75198	1-3/16-8	RDSP75250	1-11/16-8	RDSP75302
15/16-12	RDSP75103	1-1/8-14	RDSP75151	1-3/8-16	RDSP75199	1-3/16-12	RDSP75251	1-11/16-12	RDSP75303
15/16-14	RDSP75104	1-1/8-16	RDSP75152	1-3/8-18	RDSP75200	1-3/16-16	RDSP75252	1-11/16-16	RDSP75304
15/16-16	RDSP75105	1-1/8-18	RDSP75153	1-3/8-20	RDSP75201	1-1/4-6	RDSP75253	1-11/16-18	RDSP75305
15/16-18	RDSP75106	1-1/8-20	RDSP75154	1-3/8-24	RDSP75202	1-1/4-8	RDSP75254	1-3/4-5-1/2	RDSP75306
15/16-20	RDSP75107	1-1/8-24	RDSP75155	1-3/8-27	RDSP75203	1-1/4-10	RDSP75255	1-3/4-6	RDSP75307
15/16-24	RDSP75108	1-1/8-26	RDSP75156	1-3/8-32	RDSP75204	1-1/4-14	RDSP75256	1-3/4-8	RDSP75308
15/16-27	RDSP75109	1-1/8-27	RDSP75157	1-7/16-6	RDSP75205	1-1/4-16	RDSP75257	1-3/4-10	RDSP75309
15/16-28	RDSP75110	1-1/8-28	RDSP75158	1-7/16-8	RDSP75206	1-1/4-18	RDSP75258	1-3/4-14	RDSP75310
15/16-30	RDSP75111	1-1/8-30	RDSP75159	1-7/16-12	RDSP75207	1-1/4-20	RDSP75259	1-3/4-16	RDSP75311
15/16-32	RDSP75112	1-1/8-32	RDSP75160	1-7/16-16	RDSP75208	1-1/4-24	RDSP75260	1-3/4-20	RDSP75312
1-10	RDSP75113	1-3/16-7	RDSP75161	1-7/16-18	RDSP75209	1-5/16-8	RDSP75261	1-3/4-24	RDSP75313
1-16	RDSP75114	1-3/16-8	RDSP75162	1-1/2-7	RDSP75210	1-5/16-10	RDSP75262	1-7/8-5	RDSP75314
1-18	RDSP75115	1-3/16-12	RDSP75163	1-1/2-8	RDSP75211	1-5/16-12	RDSP75263	1-7/8-5-1/2	RDSP75315
1-20	RDSP75116	1-3/16-14	RDSP75164	1-1/2-10	RDSP75212	1-5/16-14	RDSP75264	1-7/8-6	RDSP75316
1-24	RDSP75117	1-3/16-16	RDSP75165	1-1/2-14	RDSP75213	1-5/16-16	RDSP75265	1-7/8-8	RDSP75317
1-27	RDSP75118	1-3/16-18	RDSP75166	1-1/2-16	RDSP75214	1-5/16-18	RDSP75266	1-7/8-10	RDSP75318
1-28	RDSP75119	1-3/16-20	RDSP75167	1-1/2-18	RDSP75215	1-5/16-20	RDSP75267	1-7/8-12	RDSP75319
1-30	RDSP75120	1-3/16-24	RDSP75168	1-1/2-20	RDSP75216	1-3/8-8	RDSP75268	1-7/8-14	RDSP75320
1-32	RDSP75121	1-3/16-27	RDSP75169	1-1/2-24	RDSP75217	1-3/8-10	RDSP75269	1-7/8-16	RDSP75321
1-36	RDSP75122	1-3/16-28	RDSP75170	1-1/2-27	RDSP75218	1-3/8-14	RDSP75270	1-7/8-18	RDSP75322
1-40	RDSP75123	1-3/16-32	RDSP75171	1-1/2-30	RDSP75219	1-3/8-16	RDSP75271	1-7/8-20	RDSP75323
1-48	RDSP75124	1-1/4-8	RDSP75172	1-1/2-32	RDSP75220	1-3/8-18	RDSP75272	2-4	RDSP75324
1-56	RDSP75125	1-1/4-10	RDSP75173			1-3/8-20	RDSP75273	2-6	RDSP75325
		1-1/4-14	RDSP75174			1-3/8-24	RDSP75274	2-8	RDSP75326
		1-1/4-16	RDSP75175			1-7/16-6	RDSP75275	2-10	RDSP75327
		1-1/4-18	RDSP75176			1-7/16-8	RDSP75276	2-14	RDSP75328
		1-1/4-20	RDSP75177			1-7/16-12	RDSP75277	2-16	RDSP75329
						1-7/16-16	RDSP75278	2-18	RDSP75330
						1-7/16-18	RDSP75279	2-20	RDSP75331
						1-1/2-8	RDSP75280	2-24	RDSP75332
						1-1/2-10	RDSP75281		

1 per pack

Round Adjustable Dies - Special Thread

B



# Round Adj. Dies - Special Thread - Metric

## High-Speed Steel

- Features:
- Provides improved wear life.
  - Ideal for precision threading with adjustment of die by set screws.
  - Allows the user to under or over cut threads.



### METRIC SIZES

SIZE	STOCK #
<b>1" O.D.</b>	
3 x 0.35	RDSPM75320
3 x 0.60	RDSPM75321
3 x 0.75	RDSPM75322
3.5 x 0.35	RDSPM75323
3.5 x 0.50	RDSPM75324
4 x 0.50	RDSPM75325
4 x 0.35	RDSPM75326
4 x 0.60	RDSPM75327
4 x 0.75	RDSPM75328
4 x 1.00	RDSPM75329
4.5 x 0.50	RDSPM75330
4.5 x 1.00	RDSPM75331
5 x 0.50	RDSPM75332
5 x 0.75	RDSPM75333
5 x 0.90	RDSPM75334
5 x 1.00	RDSPM75335
5.5 x 0.50	RDSPM75336
5.5 x 0.70	RDSPM75337
5.5 x 0.90	RDSPM75338
6 x 0.50	RDSPM75339
6 x 0.75	RDSPM75340
6 x 1.25	RDSPM75341
6 x 1.50	RDSPM75342
7 x 0.50	RDSPM75343
7 x 0.75	RDSPM75344
7 x 1.25	RDSPM75345
8 x 0.50	RDSPM75346
8 x 0.75	RDSPM75347
8 x 1.50	RDSPM75348
8 x 1.75	RDSPM75349
9 x 0.50	RDSPM75350
9 x 0.75	RDSPM75351
9 x 1.00	RDSPM75352
9 x 1.25	RDSPM75353
9 x 1.50	RDSPM75354
9 x 1.75	RDSPM75355
10 x 0.50	RDSPM75356
10 x 0.75	RDSPM75357
10 x 1.00	RDSPM75358
10 x 1.75	RDSPM75359
10 x 2.00	RDSPM75360
11 x 0.50	RDSPM75361
11 x 0.75	RDSPM75362
11 x 1.00	RDSPM75363
11 x 1.25	RDSPM75364
11 x 1.50	RDSPM75365
11 x 1.75	RDSPM75366
11 x 2.00	RDSPM75367
12 x 0.50	RDSPM75368
12 x 0.75	RDSPM75369
12 x 1.00	RDSPM75370
12 x 1.50	RDSPM75371
12 x 2.00	RDSPM75372

SIZE	STOCK #
<b>1-1/2" O.D.</b>	
9 x 0.50	RDSPM75410
9 x 0.75	RDSPM75411
9 x 1.00	RDSPM75412
9 x 1.25	RDSPM75413
10 x 0.50	RDSPM75414
10 x 0.75	RDSPM75415
10 x 1.00	RDSPM75416
11 x 0.50	RDSPM75417
11 x 0.75	RDSPM75418
11 x 1.00	RDSPM75419
11 x 1.25	RDSPM75420
11 x 1.50	RDSPM75421
12 x 0.50	RDSPM75422
12 x 0.75	RDSPM75423
12 x 1.00	RDSPM75424
12 x 1.50	RDSPM75425
12 x 2.00	RDSPM75426
13 x 0.50	RDSPM75427
13 x 0.75	RDSPM75428
13 x 1.00	RDSPM75429
13 x 1.25	RDSPM75430
13 x 1.50	RDSPM75431
13 x 1.75	RDSPM75432
13 x 2.00	RDSPM75433
14 x 0.50	RDSPM75434
14 x 0.75	RDSPM75435
14 x 1.00	RDSPM75436
14 x 1.25	RDSPM75437
14 x 1.75	RDSPM75438
15 x 0.50	RDSPM75439
15 x 1.00	RDSPM75440
15 x 1.50	RDSPM75441
15 x 2.00	RDSPM75442
16 x 0.50	RDSPM75443
16 x 0.75	RDSPM75444
16 x 1.00	RDSPM75445
16 x 1.25	RDSPM75446
16 x 1.50	RDSPM75446A
16 x 1.75	RDSPM75447
17 x 0.50	RDSPM75448
17 x 1.00	RDSPM75449
17 x 1.50	RDSPM75450
17 x 2.00	RDSPM75451
18 x 0.50	RDSPM75452
18 x 1.00	RDSPM75453
18 x 1.25	RDSPM75454
18 x 1.75	RDSPM75455
18 x 2.00	RDSPM75456
19 x 0.50	RDSPM75457
19 x 1.00	RDSPM75458
19 x 1.50	RDSPM75459
19 x 2.00	RDSPM75460
20 x 1.00	RDSPM75461
20 x 1.25	RDSPM75462
20 x 1.75	RDSPM75463
20 x 2.00	RDSPM75464

SIZE	STOCK #
<b>2" O.D.</b>	
18 x 1.00	RDSPM75510
19 x 1.50	RDSPM75511
20 x 1.00	RDSPM75512
20 x 1.25	RDSPM75513
20 x 2.00	RDSPM75514
21 x 1.00	RDSPM75515
21 x 1.50	RDSPM75516
21 x 2.00	RDSPM75517
21 x 2.50	RDSPM75518
22 x 1.00	RDSPM75519
22 x 2.00	RDSPM75520
23 x 1.00	RDSPM75521
23 x 1.50	RDSPM75522
23 x 2.00	RDSPM75523
23 x 2.50	RDSPM75524
24 x 1.50	RDSPM75525
25 x 1.00	RDSPM75526
25 x 1.50	RDSPM75527
25 x 2.00	RDSPM75528
25 x 2.50	RDSPM75529
26 x 1.50	RDSPM75530
26 x 2.00	RDSPM75531
27 x 1.00	RDSPM75532
27 x 1.50	RDSPM75533
28 x 1.00	RDSPM75534
28 x 1.50	RDSPM75535
28 x 2.00	RDSPM75536
30 x 1.00	RDSPM75537
30 x 1.50	RDSPM75538
30 x 2.00	RDSPM75539
30 x 3.00	RDSPM75540
<b>2-1/2" O.D.</b>	
32 x 1.50	RDSPM75610
33 x 1.50	RDSPM75611
34 x 1.50	RDSPM75612
35 x 1.00	RDSPM75613
35 x 1.50	RDSPM75614
36 x 1.50	RDSPM75615
38 x 1.50	RDSPM75620

SIZE	STOCK #
<b>3" O.D.</b>	
39 x 1.50	RDSPM75621
40 x 1.50	RDSPM75622
42 x 1.50	RDSPM75623
42 x 3.00	RDSPM75624
42 x 4.50	RDSPM75625
45 x 1.50	RDSPM75626
45 x 3.00	RDSPM75627
45 x 4.50	RDSPM75628
48 x 1.50	RDSPM75629
48 x 3.00	RDSPM75630
48 x 5.00	RDSPM75631
50 x 1.50	RDSPM75632
52 x 1.50	RDSPM75633
52 x 3.00	RDSPM75634
52 x 5.00	RDSPM75635

1 per pack

# Hexagon Dies

## High-Speed Steel Right Hand Thread



**Features:**

- Designed for tough cutting applications of all types of external threads.
- Versatile hexagon shape assures use with adjustable wrench.

THREAD SIZE	TPI NC, NF, NS	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
<b>MACHINE SCREW SIZES</b>				
4	40	19/32"	1/4"	HSHD74501
6	32	19/32"	1/4"	HSHD74503
8	32	19/32"	1/4"	HSHD74505
10	24	19/32"	1/4"	HSHD74507
10	32	19/32"	1/4"	HSHD74509
12	24	19/32"	1/4"	HSHD74511
<b>FRACTIONAL</b>				
1/4"	20	19/32"	1/4"	HSHD74512
1/4"	28	19/32"	1/4"	HSHD74513
5/16"	18	11/16"	5/16"	HSHD74514
5/16"	24	11/16"	5/16"	HSHD74515
3/8"	16	25/32"	3/8"	HSHD74516
3/8"	24	25/32"	3/8"	HSHD74517
7/16"	14	7/8"	7/16"	HSHD74518
7/16"	20	7/8"	7/16"	HSHD74519
1/2"	13	1-1/16"	1/2"	HSHD74520
1/2"	20	1-1/16"	1/2"	HSHD74521
9/16"	12	1-1/16"	1/2"	HSHD74522
9/16"	18	1-1/16"	1/2"	HSHD74523
5/8"	11	1-1/4"	5/8"	HSHD74524
5/8"	18	1-1/4"	5/8"	HSHD74525
3/4"	10	1-7/16"	3/4"	HSHD74526
3/4"	16	1-7/16"	3/4"	HSHD74527
7/8"	9	1-5/8"	7/8"	HSHD74528
7/8"	14	1-5/8"	7/8"	HSHD74529
1"	8	1-13/16"	1"	HSHD74530
1"	12	1-13/16"	1"	HSHD74531
1"	14	1-13/16"	1"	HSHD74532
1-1/8"	7	2"	1"	HSHD74533
1-1/8"	12	2"	1"	HSHD74534
1-1/4"	7	2-3/16"	1"	HSHD74535
1-1/4"	12	2-3/16"	1"	HSHD74536
1-3/8"	6	2-3/8"	1"	HSHD74537
1-3/8"	12	2-3/8"	1"	HSHD74538
1-1/2"	6	2-9/16"	1"	HSHD74539
1-1/2"	12	2-9/16"	1"	HSHD74540

1 per pack

THREAD SIZE	TPI	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
<b>NPT SIZES</b>				
1/8"	27	3/4"	3/8"	HSHD74551
1/4"	18	1-1/16"	1/2"	HSHD74552
3/8"	18	1-7/16"	5/8"	HSHD74553
1/2"	14	1-7/16"	3/4"	HSHD74554
3/4"	14	1-13/16"	1"	HSHD74555
1"	11-1/2	2-3/16"	1"	HSHD74556
1-1/4"	11-1/2	3-1/8"	1"	HSHD74557
1-1/2"	11-1/2	3-1/8"	1"	HSHD74558
2"	11-1/2	4-1/2"	1-1/2"	HSHD74559

1 per pack

## Eight Pitch Hexagon Dies

### High Carbon Steel



**Features:**

- Designed for tough cutting applications of all types of external threads.
- Versatile hexagon shape assures use with adjustable wrench.

TAP SIZE	TPI	STOCK #
1-1/8"	8	CSRTD70751
1-1/4"	8	CSRTD70752
1-3/8"	8	CSRTD70753
1-1/2"	8	CSRTD70754
1-5/8"	8	CSRTD70755
1-3/4"	8	CSRTD70756
1-7/8"	8	CSRTD70757
2"	8	CSRTD70758
2-1/8"	8	CSRTD70759
2-1/4"	8	CSRTD70760
2-3/8"	8	CSRTD70761
2-1/2"	8	CSRTD70762
2-5/8"	8	CSRTD70763
2-3/4"	8	CSRTD70764
2-7/8"	8	CSRTD70765
3"	8	CSRTD70766
3-1/4"	8	CSRTD70767
3-1/2"	8	CSRTD70768
3-3/4"	8	CSRTD70769
4"	8	CSRTD70770

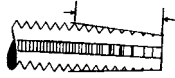
1 per pack

Hexagon Dies

**B**

# Hand Taps Carbon Steel

**Cut Thread, Right Hand  
Bright Finish**



**Features:**

- Precision-made from high carbon tool steel.
- Ideal for hand threading in routine maintenance, repair work & for rethreading applications.
- **Taper taps** (7 to 10 threads). Longest chamfer insures easier starting.
- **Plug taps** (3 to 5 threads). Most common chamfer. Used in through or blind holes.
- **Bottoming taps** (1 to 2 threads). Used for threading close to the bottom of a blind hole.



## TAPER, PLUG, BOTTOMING & SETS

NC = National Coarse NF = National Fine NS = National Standard SP = Spark Plug

TAP SIZE	TPI NC, NF, NS	TAPER STOCK # BULK	PLUG STOCK # BULK	PLUG STOCK # CARDED	BOTTOM STOCK # BULK	SET OF 3 STOCK # BOXED
<b>MACHINE SCREW SIZES</b>						
0	80 NF	CSHTT70500	CSHTP70500	CSHTP70500C	CSHTB70500	CSHTS70500
1	64 NC	CSHTT70501	CSHTP70501	CSHTP70501C	CSHTB70501	CSHTS70501
1	72 NF	CSHTT70502	CSHTP70502	CSHTP70502C	CSHTB70502	CSHTS70502
2	56 NC	CSHTT70503	CSHTP70503	CSHTP70503C	CSHTB70503	CSHTS70503
2	64 NF	CSHTT70504	CSHTP70504	CSHTP70504C	CSHTB70504	CSHTS70504
3	48 NC	CSHTT70505	CSHTP70505	CSHTP70505C	CSHTB70505	CSHTS70505
3	56 NF	CSHTT70506	CSHTP70506	CSHTP70506C	CSHTB70506	CSHTS70506
4	36 NS	CSHTT70507	CSHTP70507	CSHTP70507C	CSHTB70507	CSHTS70507
4	40 NC	CSHTT70508	CSHTP70508	CSHTP70508C	CSHTB70508	CSHTS70508
4	48 NF	CSHTT70509	CSHTP70509	CSHTP70509C	CSHTB70509	CSHTS70509
5	40 NC	CSHTT70510	CSHTP70510	CSHTP70510C	CSHTB70510	CSHTS70510
5	44 NF	CSHTT70511	CSHTP70511	CSHTP70511C	CSHTB70511	CSHTS70511
6	32 NC	CSHTT70512	CSHTP70512	CSHTP70512C	CSHTB70512	CSHTS70512
6	40 NF	CSHTT70513	CSHTP70513	CSHTP70513C	CSHTB70513	CSHTS70513
8	32 NC	CSHTT70514	CSHTP70514	CSHTP70514C	CSHTB70514	CSHTS70514
8	36 NF	CSHTT70515	CSHTP70515	CSHTP70515C	CSHTB70515	CSHTS70515
10	24 NC	CSHTT70516	CSHTP70516	CSHTP70516C	CSHTB70516	CSHTS70516
10	32 NF	CSHTT70517	CSHTP70517	CSHTP70517C	CSHTB70517	CSHTS70517
12	24 NC	CSHTT70518	CSHTP70518	CSHTP70518C	CSHTB70518	CSHTS70518
12	28 NF	CSHTT70519	CSHTP70519	CSHTP70519C	CSHTB70519	CSHTS70519
<b>FRACTIONAL</b>						
3/16"	24 NS	CSHTT70530	CSHTP70530	CSHTP70530C	CSHTB70530	CSHTS70530
3/16"	32 NS	CSHTT70531	CSHTP70531	CSHTP70531C	CSHTB70531	CSHTS70531
1/4"	20 NC	CSHTT70532	CSHTP70532	CSHTP70532C	CSHTB70532	CSHTS70532
1/4"	28 NF	CSHTT70533	CSHTP70533	CSHTP70533C	CSHTB70533	CSHTS70533
5/16"	18 NC	CSHTT70534	CSHTP70534	CSHTP70534C	CSHTB70534	CSHTS70534
5/16"	24 NF	CSHTT70535	CSHTP70535	CSHTP70535C	CSHTB70535	CSHTS70535
3/8"	16 NC	CSHTT70536	CSHTP70536	CSHTP70536C	CSHTB70536	CSHTS70536
3/8"	24 NF	CSHTT70537	CSHTP70537	CSHTP70537C	CSHTB70537	CSHTS70537
7/16"	14 NC	CSHTT70538	CSHTP70538	CSHTP70538C	CSHTB70538	CSHTS70538
7/16"	20 NF	CSHTT70539	CSHTP70539	CSHTP70639C	CSHTP70539	CSHTS70539
1/2"	13 NC	CSHTT70540	CSHTP70540	CSHTP70540C	CSHTB70540	CSHTS70540
1/2"	20 NF	CSHTT70541	CSHTP70541	CSHTP70541C	CSHTB70541	CSHTS70541
9/16"	12 NC	CSHTT70542	CSHTP70542	—	CSHTB70542	CSHTS70542
9/16"	18 NF	CSHTT70543	CSHTP70543	—	CSHTB70543	CSHTS70543
5/8"	11 NC	CSHTT70544	CSHTP70544	—	CSHTB70544	CSHTS70544
5/8"	18 NF	CSHTT70545	CSHTP70545	—	CSHTB70545	CSHTS70545
3/4"	10 NC	CSHTT70546	CSHTP70546	—	CSHTB70546	CSHTS70546
3/4"	16 NF	CSHTT70547	CSHTP70547	—	CSHTB70547	CSHTS70547
7/8"	9 NC	CSHTT70548	CSHTP70548	—	CSHTB70548	CSHTS70548
7/8"	14 NF	CSHTT70549	CSHTP70549	—	CSHTB70549	CSHTS70549
*7/8"	18 SP	—	CSHTP70550	—	—	—
1"	8 NC	CSHTT70551	CSHTP70551	—	CSHTB70551	CSHTS70551
1"	12 NF	CSHTT70552	CSHTP70552	—	CSHTB70552	CSHTS70552
1"	14 NS	CSHTT70553	CSHTP70553	—	CSHTB70553	CSHTS70553
1-1/8"	7 NC	CSHTT70554	CSHTP70554	—	CSHTB70554	CSHTS70554
1-1/8"	12 NF	CSHTT70555	CSHTP70555	—	CSHTB70555	CSHTS70555
1-1/4"	7 NC	CSHTT70556	CSHTP70556	—	CSHTB70556	CSHTS70556
1-1/4"	12 NF	CSHTT70557	CSHTP70557	—	CSHTB70557	CSHTS70557
1-3/8"	6 NC	CSHTT70558	CSHTP70558	—	CSHTB70558	CSHTS70558
1-3/8"	12 NF	CSHTT70559	CSHTP70559	—	CSHTB70559	CSHTS70559
1-1/2"	6 NC	CSHTT70560	CSHTP70560	—	CSHTB70560	CSHTS70560
1-1/2"	12 NF	CSHTT70561	CSHTP70561	—	CSHTB70561	CSHTS70561

0-80 to 1", 3 per pack, 1-1/8 and above, 1 per pack

\* Spark Plug Tap

Hand Taps Carbon Steel



**B**

# Metric Hand Taps

## High Carbon Steel



- Features:**
- Precision-made from high carbon tool steel.
  - Ideal for hand threading in routine maintenance, repair work and for rethreading applications.



### METRIC HAND TAPS

Expanded

TAP SIZE	PITCH	STOCK #			
		TAPER	PLUG	BOTTOMING	SET OF 3 BOXED
3	0.50	CSMTT70810	CSMTP70810	CSMTB70810	CSMTS70810
3	0.60	CSMTT70811	CSMTP70811	CSMTB70811	CSMTS70811
4	0.50	CSMTT70812	CSMTP70812	CSMTB70812	CSMTS70812
4	0.70	CSMTT70813	CSMTP70813	CSMTB70813	CSMTS70813
4	0.75	CSMTT70813A	CSMTP70813A	CSMTB70813A	CSMTS70813A
5	0.80	CSMTT70814	CSMTP70814	CSMTB70814	CSMTS70814
5	0.90	CSMTT70815	CSMTP70815	CSMTB70815	CSMTS70815
6	1.00	CSMTT70816	CSMTP70816	CSMTB70816	CSMTS70816
7	1.00	CSMTT70817	CSMTP70817	CSMTB70817	CSMTS70817
8	1.00	CSMTT70818	CSMTP70818	CSMTB70818	CSMTS70818
8	1.25	CSMTT70819	CSMTP70819	CSMTB70819	CSMTS70819
9	0.75	CSMTT70820	CSMTP70820	CSMTB70820	CSMTS70820
9	1.00	CSMTT70821	CSMTP70821	CSMTB70821	CSMTS70821
9	1.25	CSMTT70822	CSMTP70822	CSMTB70822	CSMTS70822
10	1.00	CSMTT70823	CSMTP70823	CSMTB70823	CSMTS70823
10	1.25	CSMTT70824	CSMTP70824	CSMTB70824	CSMTS70824
10	1.50	CSMTT70825	CSMTP70825	CSMTB70825	CSMTS70825
11	1.50	CSMTT70826	CSMTP70826	CSMTB70826	CSMTS70826
12	1.25	CSMTT70827	CSMTP70827	CSMTB70827	CSMTS70827
12	1.50	CSMTT70828	CSMTP70828	CSMTB70828	CSMTS70828
12	1.75	CSMTT70829	CSMTP70829	CSMTB70829	CSMTS70829
14	1.25	CSMTT70830	CSMTP70830	CSMTB70830	CSMTS70830
14	1.50	CSMTT70831	CSMTP70831	CSMTB70831	CSMTS70831
14	2.00	CSMTT70832	CSMTP70832	CSMTB70832	CSMTS70832
16	1.50	CSMTT70833	CSMTP70833	CSMTB70833	CSMTS70833
16	2.00	CSMTT70834	CSMTP70834	CSMTB70834	CSMTS70834
18	2.00	CSMTT70835	CSMTP70835	CSMTB70835	CSMTS70835
18	2.50	CSMTT70836	CSMTP70836	CSMTB70836	CSMTS70836
18	1.50	CSMTT70837	CSMTP70837	CSMTB70837	CSMTS70837
20	1.50	CSMTT70838	CSMTP70838	CSMTB70838	CSMTS70838
20	2.50	CSMTT70839	CSMTP70839	CSMTB70839	CSMTS70839
22	1.50	CSMTT70840	CSMTP70840	CSMTB70840	CSMTS70840
22	2.50	CSMTT70841	CSMTP70841	CSMTB70841	CSMTS70841
24	2.00	CSMTT70842	CSMTP70842	CSMTB70842	CSMTS70842
24	3.00	CSMTT70843	CSMTP70843	CSMTB70843	CSMTS70843
27	2.00	CSMTT70844	CSMTP70844	CSMTB70844	CSMTS70844
27	3.00	CSMTT70845	CSMTP70845	CSMTB70845	CSMTS70845
30	2.00	CSMTT70846	CSMTP70846	CSMTB70846	CSMTS70846
30	3.50	CSMTT70847	CSMTP70847	CSMTB70847	CSMTS70847

3 to 24mm, 3 per pack, 27mm and above, 1 per pack

\*Please note stock numbers CSMT70810 to CSMT70847 from catalog 03G page B6 have been revised.

# Taper Pipe Taps

High Carbon Steel



## TAPER PIPE TAPS, NPT

TAP SIZE	TPI	STOCK #	
		BULK	CARDED
1/16"	27	CSNPT70560	CSNPT70560C
1/8"	27	CSNPT70561	CSNPT70561C
1/4"	18	CSNPT70562	CSNPT70562C
3/8"	18	CSNPT70563	CSNPT70563C
1/2"	14	CSNPT70564	CSNPT70564C
3/4"	14	CSNPT70565	-
1"	11-1/2	CSNPT70566	-
1-1/4"	11-1/2	CSNPT70567	-
1-1/2"	11-1/2	CSNPT70568	-
2"	11-1/2	CSNPT70569	-

**Bulk** 1/16" to 1", 3 per pack, 1-1/4" and above, 1 per pack

**Card** 1/16" to 1/2", 1 per card

**Features:**

- Tapered at the rate of 3/4" per foot.
- Normally used for tapping pipe fittings.
- The nominal size of the tap is that of the pipe fitting being tapped and not the actual size of the tap.

Taper Pipe Taps • Spark Plug Taps

# B Spark Plug Taps

High Carbon Steel



**Features:**

- Ideal for threading or rethreading spark plug holes.
- Available in standard and metric threads.



CSMTP70855

## 4 PC. SPARK PLUG TAP SET

In Wooden Storage Case

TAP SIZE	NO. OF FLUTES	STOCK #
7/8" - 18NS	4	CSHTP70550
10mm - 1.00	4	CSMTP70823
12mm - 1.25	4	CSMTP70827
14mm - 1.25	4	CSMTP70830
18mm - 1.50	4	CSMTP70837

3 per pack

DESCRIPTION	STOCK #
Tap Set Contains:	CSMTP70855
10mm - 1.00mm	
12mm - 1.25mm	
14mm - 1.25mm	
18mm - 1.50mm	

# Hexagon Dies

## High Carbon Steel



### Features:



- Suitable for cutting all types of external threads.
- Versatile hexagon shape assures use with die stock or adjustable wrench.
- Best suited for maintenance and repair work.



### HEXAGON DIES

THREAD SIZE	TPI	STOCK #	
		BULK	CARDED
<b>1" A.F.</b>			
4	40	CSHD70859	CSHD70859C
5	40	CSHD70860	CSHD70860C
5	44	CSHD70860A	CSHD70860AC
6	32	CSHD70861	CSHD70861C
6	40	CSHD70861A	CSHD70861AC
8	32	CSHD70862	CSHD70862C
8	36	CSHD70862A	CSHD70862AC
10	24	CSHD70863	CSHD70863C
10	32	CSHD70864	CSHD70864C
12	24	CSHD70865	CSHD70865C
1/4"	20	CSHD70866	CSHD70866C
1/4"	28	CSHD70867	CSHD70867C
5/16"	18	CSHD70868	CSHD70868C
5/16"	24	CSHD70869	CSHD70869C
3/8"	16	CSHD70870	CSHD70870C
3/8"	24	CSHD70871	CSHD70871C
7/16"	14	CSHD70872	CSHD70872C
7/16"	20	CSHD70873	CSHD70873C
1/2"	13	CSHD70874	CSHD70874C
1/2"	20	CSHD70875	CSHD70875C
1/8" NPT	27	CSHD70891	CSHD70891C
1/4" NPT	18	CSHD70893	CSHD70893C
<b>1-7/16" A.F.</b>			
1/2"	13	CSHD70880	CSHD70880C
1/2"	20	CSHD70881	CSHD70881C
9/16"	12	CSHD70882	CSHD70882C
9/16"	18	CSHD70883	CSHD70883C
5/8"	11	CSHD70884	CSHD70884C
5/8"	18	CSHD70885	CSHD70885C
3/4"	10	CSHD70886	CSHD70886C
3/4"	16	CSHD70887	CSHD70887C
1/8" NPT	27	CSHD70892	CSHD70892C
1/4" NPT	18	CSHD70894	CSHD70894C

1 per pack

Card 1 per card

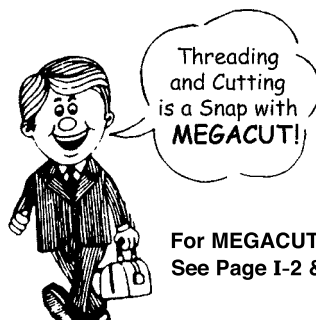
### METRIC – HEXAGON DIES

THREAD SIZE	TPI	STOCK #	
		BULK	CARDED
<b>1" A.F.</b>			
3	0.50	MHD71010	MHD71010C
3	0.60	MHD71011	MHD71011C
4	0.50	MHD71012	MHD71012C
4	0.70	MHD71013	MHD71013C
5	0.80	MHD71014	MHD71014C
5	0.90	MHD71015	MHD71015C
6	1.00	MHD71016	MHD71016C
7	1.00	MHD71017	MHD71017C
8	1.00	MHD71018	MHD71018C
8	1.25	MHD71019	MHD71019C
9	0.75	MHD71020	MHD71020C
9	1.00	MHD71021	MHD71021C
9	1.25	MHD71022	MHD71022C
10	1.00	MHD71023	MHD71023C
10	1.25	MHD71024	MHD71024C
10	1.50	MHD71025	MHD71025C
11	1.50	MHD71026	MHD71026C
12	1.25	MHD71027	MHD71027C
12	1.50	MHD71028	MHD71028C
12	1.75	MHD71029	MHD71029C
<b>1-7/16" A.F.</b>			
14	1.25	MHD71029A	—
14	1.50	MHD71030	—
14	2.00	MHD71031	—
16	1.25	MHD71032	—
16	1.50	MHD71033	—
16	2.00	MHD71034	—
18	1.50	MHD71035	—
18	2.00	MHD71036	—
18	2.50	MHD71037	—

1 per pack

Card 3 to 12mm, 1 per card

See Die Stock on Page B35.



For MEGACUT details,  
See Page I-2 & I-3.



# Hexagon Rethreading Dies

High Carbon Steel



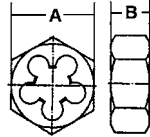
## RIGHT HAND THREAD

TAP SIZE	TPI	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
<b>MACHINE SCREW SIZES</b>				
4	40	19/32"	1/4"	CSRTD70689
4	48	19/32"	1/4"	CSRTD70690
5	40	19/32"	1/4"	CSRTD70691
5	44	19/32"	1/4"	CSRTD70692
6	32	19/32"	1/4"	CSRTD70693
6	40	19/32"	1/4"	CSRTD70694
8	32	19/32"	1/4"	CSRTD70695
8	36	19/32"	1/4"	CSRTD70696
10	24	19/32"	1/4"	CSRTD70697
10	32	19/32"	1/4"	CSRTD70698
12	24	19/32"	1/4"	CSRTD70699
12	28	19/32"	1/4"	CSRTD70700
<b>FRACTIONAL</b>				
1/4"	20	19/32"	1/4"	CSRTD70701
1/4"	28	19/32"	1/4"	CSRTD70702
5/16"	18	11/16"	5/16"	CSRTD70703
5/16"	24	11/16"	5/16"	CSRTD70704
3/8"	16	25/32"	3/8"	CSRTD70705
3/8"	24	25/32"	3/8"	CSRTD70706
7/16"	14	7/8"	7/16"	CSRTD70707
7/16"	20	7/8"	7/16"	CSRTD70708
1/2"	13	1-1/16"	1/2"	CSRTD70709
1/2"	20	1-1/16"	1/2"	CSRTD70710
9/16"	12	1-1/16"	1/2"	CSRTD70711
9/16"	18	1-1/16"	1/2"	CSRTD70712
5/8"	11	1-1/4"	5/8"	CSRTD70713
5/8"	18	1-1/4"	5/8"	CSRTD70714
3/4"	10	1-7/16"	3/4"	CSRTD70715
3/4"	16	1-7/16"	3/4"	CSRTD70716
7/8"	9	1-5/8"	7/8"	CSRTD70717
7/8"	14	1-5/8"	7/8"	CSRTD70718
1"	8	1-13/16"	1"	CSRTD70719
1"	12	1-13/16"	1"	CSRTD70720
1"	14	1-13/16"	1"	CSRTD70721
1-1/8"	7	2"	1"	CSRTD70722
1-1/8"	12	2"	1"	CSRTD70723
1-1/4"	7	2-3/16"	1"	CSRTD70724
1-1/4"	12	2-3/16"	1"	CSRTD70725
1-3/8"	6	2-3/8"	1"	CSRTD70726
1-3/8"	12	2-3/8"	1"	CSRTD70727
1-1/2"	6	2-9/16"	1"	CSRTD70728
1-1/2"	12	2-9/16"	1"	CSRTD70729
1-5/8"	6	3-1/8"	1"	CSRTD70730
1-5/8"	12	3-1/8"	1"	CSRTD70731
1-3/4"	5	3-1/8"	1"	CSRTD70732
1-3/4"	12	3-1/8"	1"	CSRTD70733
2"	4-1/2	3-1/2"	1-1/4"	CSRTD70734
2"	12	3-1/2"	1-1/4"	CSRTD70735
2-1/2"	4	4-1/2"	1-1/2"	CSRTD70736
2-3/4"	4	4-1/2"	1-5/8"	CSRTD70737
3"	4	5"	2"	CSRTD70738
3-1/4"	4	5"	2"	CSRTD70739
3-1/2"	4	5"	2"	CSRTD70739A
3-3/4"	4	6"	2-1/4"	CSRTD70739B
4"	4	7"	2-3/8"	CSRTD70739C
<b>NPT SIZES</b>				
1/16"	27	25/32"	3/8"	CSRTD70740A
1/8"	27	25/32"	3/8"	CSRTD70740
1/4"	18	1-1/16"	1/2"	CSRTD70741
3/8"	18	1-1/4"	5/8"	CSRTD70742
1/2"	14	1-7/16"	3/4"	CSRTD70743
3/4"	14	1-13/16"	1"	CSRTD70744
1"	11-1/2	2-3/16"	1"	CSRTD70745
1-1/4"	11-1/2	2-9/16"	1"	CSRTD70746
1-1/2"	11-1/2	3-1/8"	1"	CSRTD70747
2"	11-1/2	4-1/2"	1-1/2"	CSRTD70748

- Features:
- Specially designed for cleaning dirty or rusty threads.
  - Restores damaged threads to correct form and lead.
  - Will not undercut good threads.
  - Versatile hexagon shape assures use with any open end, box or adjustable wrench.

## LEFT HAND THREAD

TAP SIZE	TPI	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
<b>MACHINE SCREW SIZES</b>				
4	40	19/32"	1/4"	CSRTD70689L
4	48	19/32"	1/4"	CSRTD70690L
5	40	19/32"	1/4"	CSRTD70691L
5	44	19/32"	1/4"	CSRTD70692L
6	32	19/32"	1/4"	CSRTD70693L
6	40	19/32"	1/4"	CSRTD70694L
8	32	19/32"	1/4"	CSRTD70695L
8	36	19/32"	1/4"	CSRTD70696L
10	24	19/32"	1/4"	CSRTD70697L
10	32	19/32"	1/4"	CSRTD70698L
12	24	19/32"	1/4"	CSRTD70699L
12	28	19/32"	1/4"	CSRTD70700L
<b>FRACTIONAL</b>				
1/4"	20	19/32"	1/4"	CSRTD70701L
1/4"	28	19/32"	1/4"	CSRTD70702L
5/16"	18	11/16"	5/16"	CSRTD70703L
5/16"	24	11/16"	5/16"	CSRTD70704L
3/8"	16	25/32"	3/8"	CSRTD70705L
3/8"	24	25/32"	3/8"	CSRTD70706L
7/16"	14	7/8"	7/16"	CSRTD70707L
7/16"	20	7/8"	7/16"	CSRTD70708L
1/2"	13	1-1/16"	1/2"	CSRTD70709L
1/2"	20	1-1/16"	1/2"	CSRTD70710L
9/16"	12	1-1/16"	1/2"	CSRTD70711L
9/16"	18	1-1/16"	1/2"	CSRTD70712L
5/8"	11	1-1/4"	5/8"	CSRTD70713L
5/8"	18	1-1/4"	5/8"	CSRTD70714L
3/4"	10	1-7/16"	3/4"	CSRTD70715L
3/4"	16	1-7/16"	3/4"	CSRTD70716L
7/8"	9	1-5/8"	7/8"	CSRTD70717L
7/8"	14	1-5/8"	7/8"	CSRTD70718L
1"	8	1-13/16"	1"	CSRTD70719L
1"	12	1-13/16"	1"	CSRTD70720L
1"	14	1-13/16"	1"	CSRTD70721L
1-1/8"	7	2"	1"	CSRTD70722L
1-1/8"	12	2"	1"	CSRTD70723L
1-1/4"	7	2-3/16"	1"	CSRTD70724L
1-1/4"	12	2-3/16"	1"	CSRTD70725L
1-3/8"	6	2-3/8"	1"	CSRTD70726L
1-3/8"	12	2-3/8"	1"	CSRTD70727L
1-1/2"	6	2-9/16"	1"	CSRTD70728L
1-1/2"	12	2-9/16"	1"	CSRTD70729L



Hexagon Rethreading Dies

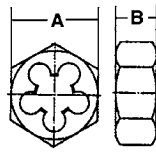
**B**

1 per pack

1 per pack

# Hexagon Rethreading Dies - Metric

High Carbon Steel



- Features:**
- Ideal for repairing damaged threads without undercutting good threads.
  - Versatile hexagon shape assures use with any open end, box or adjustable wrench.

## RIGHT HAND THREAD

THREAD SIZE	TPI	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
3	0.50	19/32	1/4	MHD70751
3.5	0.60	19/32	1/4	MHD70752
4	0.70	19/32	1/4	MHD70753
4	0.75	19/32	1/4	MHD70753A
4.5	0.75	19/32	1/4	MHD70754
5	0.80	19/32	1/4	MHD70755
6	1.00	19/32	1/4	MHD70756
6.3	1.00	19/32	1/4	MHD70757
7	1.00	11/16	5/16	MHD70758
8	1.00	11/16	5/16	MHD70759
8	1.25	11/16	5/16	MHD70760
10	1.00	25/32	3/8	MHD70761A
10	1.25	25/32	3/8	MHD70761
10	1.50	25/32	3/8	MHD70762
11	1.50	7/8	7/16	MHD70763
12	1.25	1-1/16	1/2	MHD70764
12	1.75	1-1/16	1/2	MHD70765
14	1.25	1-1/16	1/2	MHD70766
14	1.50	1-1/16	1/2	MHD70767
14	2.00	1-1/16	1/2	MHD70768
16	1.25	1-1/4	5/8	MHD70769
16	1.50	1-1/4	5/8	MHD70770
16	2.00	1-1/4	5/8	MHD70771
18	1.50	1-7/16	3/4	MHD70772
18	2.00	1-7/16	3/4	MHD70773
18	2.50	1-7/16	3/4	MHD70774
20	1.50	1-7/16	3/4	MHD70775
20	2.50	1-7/16	3/4	MHD70776
22	1.50	1-5/8	7/8	MHD70777
22	2.50	1-5/8	7/8	MHD70778
24	2.00	1-13/16	1	MHD70779
24	3.00	1-13/16	1	MHD70780
27	2.00	2	1	MHD70781
27	3.00	2	1	MHD70782
30	2.00	2	1	MHD70783
30	3.50	2	1	MHD70784
33	2.00	2-3/16	1	MHD70785
33	3.50	2-3/16	1	MHD70786
36	3.00	2-9/16	1	MHD70787
36	4.00	2-9/16	1	MHD70788
39	3.00	2-9/16	1	MHD70789
39	4.00	2-9/16	1	MHD70790
40	1.50	2-9/16	1	MHD70791
42	1.50	3-1/8	1	MHD70792
42	4.50	3-1/8	1	MHD70793
45	1.50	3-1/8	1	MHD70794
45	4.50	3-1/8	1	MHD70795
48	1.50	3-1/8	1-1/4	MHD70796
48	5.00	3-1/8	1-1/4	MHD70797
52	1.50	3-1/2	1-1/4	MHD70798
52	5.00	3-1/2	1-1/4	MHD70799

1 per pack

## LEFT HAND THREAD

THREAD SIZE	TPI	DIE WIDTH A/F (A)	THICKNESS (B)	STOCK #
5	0.80	19/32	1/4	MHD70755L
6	1.00	19/32	1/4	MHD70756L
6.3	1.00	19/32	1/4	MHD70757L
7	1.00	11/16	5/16	MHD70758L
8	1.00	11/16	5/16	MHD70759L
8	1.25	11/16	5/16	MHD70760L
10	1.25	25/32	3/8	MHD70761L
10	1.50	25/32	3/8	MHD70762L
11	1.50	7/8	7/16	MHD70763L
12	1.25	1-1/16	1/2	MHD70764L
12	1.75	1-1/16	1/2	MHD70765L
14	1.25	1-1/16	1/2	MHD70766L
14	1.50	1-1/16	1/2	MHD70767L
14	2.00	1-1/16	1/2	MHD70768L
16	1.25	1-1/4	5/8	MHD70769L
16	1.50	1-1/4	5/8	MHD70770L
16	2.00	1-1/4	5/8	MHD70771L
18	1.50	1-7/16	3/4	MHD70772L
18	2.00	1-7/16	3/4	MHD70773L
18	2.50	1-7/16	3/4	MHD70774L
20	1.50	1-7/16	3/4	MHD70775L
20	2.50	1-7/16	3/4	MHD70776L
22	1.50	1-5/8	7/8	MHD70777L
22	2.50	1-5/8	7/8	MHD70778L
24	2.00	1-13/16	1	MHD70779L
24	3.00	1-13/16	1	MHD70780L
27	2.00	2	1	MHD70781L
27	3.00	2	1	MHD70782L
30	2.00	2	1	MHD70783L
30	3.50	2	1	MHD70784L

1 per pack

Hexagon Rethreading Dies

**B**



# Round Adjustable Dies



## High Carbon Steel

- Features:
- Ideal for precision threading with adjustment of die by set screw.
  - Allows the user to under or over cut threads.

Round Adjustable Dies

B

THREAD SIZE	TPI	STOCK #	
		BULK	CARDED
<b>13/16" O.D.</b>			
0	80	CSR70591	CSR70591C
1	64	CSR70592	CSR70592C
1	72	CSR70593	CSR70593C
2	56	CSR70594	CSR70594C
2	64	CSR70595	CSR70595C
3	48	CSR70596	CSR70596C
3	56	CSR70597	CSR70597C
4	40	CSR70598	CSR70598C
4	48	CSR70599	CSR70599C
<b>1" O.D.</b>			
5	40	CSR70601	CSR70601C
5	44	CSR70602	CSR70602C
6	32	CSR70603	CSR70603C
6	40	CSR70604	CSR70604C
8	32	CSR70605	CSR70605C
8	36	CSR70606	CSR70606C
10	24	CSR70607	CSR70607C
10	32	CSR70608	CSR70608C
12	24	CSR70609	CSR70609C
12	28	CSR70610	CSR70610C
1/4"	20	CSR70611	CSR70611C
1/4"	28	CSR70612	CSR70612C
5/16"	18	CSR70613	CSR70613C
5/16"	24	CSR70614	CSR70614C
3/8"	16	CSR70615	CSR70615C
3/8"	24	CSR70616	CSR70616C
7/16"	14	CSR70617	CSR70617C
7/16"	20	CSR70618	CSR70618C
1/2"	13	CSR70619	CSR70619C
1/2"	20	CSR70620	CSR70620C

THREAD SIZE	TPI	STOCK #	
		BULK	CARDED
<b>1-1/2" O.D.</b>			
1/4"	20	CSR70630	CSR70630C
1/4"	28	CSR70631	CSR70631C
5/16"	18	CSR70632	CSR70632C
5/16"	24	CSR70633	CSR70633C
3/8"	16	CSR70634	CSR70634C
3/8"	24	CSR70635	CSR70635C
7/16"	14	CSR70636	CSR70636C
7/16"	20	CSR70637	CSR70637C
1/2"	13	CSR70638	CSR70638C
1/2"	20	CSR70639	CSR70639C
9/16"	12	CSR70640	CSR70640C
9/16"	18	CSR70641	CSR70641C
5/8"	11	CSR70642	CSR70642C
5/8"	18	CSR70643	CSR70643C
3/4"	10	CSR70644	CSR70644C
3/4"	16	CSR70645	CSR70645C
<b>2" O.D.</b>			
5/8"	11	CSR70650	-
5/8"	18	CSR70651	-
3/4"	10	CSR70652	-
3/4"	16	CSR70653	-
7/8"	9	CSR70654	-
7/8"	14	CSR70655	-
1"	8	CSR70656	-
1"	12	CSR70657	-
1"	14	CSR70658	-

1 per pack

Card 1 per card

## BRITISH STANDARD ROUND ADJUSTABLE PIPE DIES

### BSPB STRAIGHT THREAD

#### FRACTIONAL SIZES

**NEW!**

TAP SIZE	TPI NC, NF, NS	STOCK #		
		1" O.D.	1-1/2" O.D.	2" O.D.
1/8"	28	BSPD105	-	-
1/4"	19	BSPD107	BSPD157	-
3/8"	19	-	-	BSPD209

1 per pack

## UNIVERSAL THREAD FILE



Single Blade Universal Thread File  
renews all 60° Threads (also metric)

STOCK # RTF70751

## THREAD RESTORING FILES



Features:

- Restores battered, rusted or corroded threads.
- Usable as a thread gauge.
- Sizes clearly marked.
- Overlap good threads to use as a file to restore damaged area.

DESCRIPTION	THREADS	STOCK #
Thread Restoring Files	11, 12, 13, 14, 16, 18, 20 & 24 TPI	TRF01
	9, 10, 12, 16, 20, 27, 28, & 32 TPI	TRF02
External Pipe Files	8, 10, 11-1/2, 14	TRF05
	8, 10, 11-1/2, 14, 18/10, 16, 24, 27	TRF07
Metric Thread Files	.80, 1.0, 1.25, 1.5, 1.75, 2.0, 2.5, 3.0	TRF08
Plastic Handles	For Stock # - TRF01, TRF02, TRF07, TRF08	TRF12
4 File Set in Plastic Roll	1 each #1, #2, #7, #8	TRF15P

1 per pack

# Tapping Tools & Accessories

## T-HANDLE TAP WRENCH

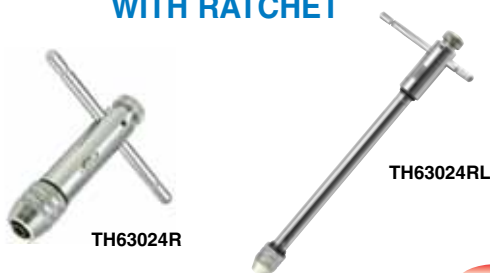
Chrome Plated for  
Square Driven Tools:  
Taps - Reamers -  
Screw Extractors



TAP SIZE	OVERALL LENGTH	STOCK #
<b>REGULAR LENGTH</b>		
#0 - 1/4"	2-3/8"	TH63021
1/4" - 1/2"	3-1/4"	TH63024
<b>LONG REACH</b>		
5/32" - 1/4"	12-15/16"	TH63026
1/4" - 1/2"	12-1/16"	TH63027

1 per pack

## T-HANDLE TAP WRENCH WITH RATCHET



TAP SIZE	OVERALL LENGTH	STOCK #
<b>REGULAR REACH</b>		
#0 - 1/4"	3-3/8"	TH63022R
1/4" - 1/2"	4-3/8"	TH63024R
<b>EXTRA-CAPACITY</b>		
1/2" - 5/8"	4-1/4"	TH63025R
<b>LONG REACH</b>		
5/32" - 1/4"	9-1/2"	TH63022RL
1/4" - 1/2"	11-3/8"	TH63024RL

1 per pack

## T-HANDLE TAP WRENCH WITH GUIDE

Features:

- Manually threads straight tap holes without removing the workpiece from the machine.
- Guide spindle inserts into drill press or lathe chuck.
- Tap wrench works its way out of the guide to easily gauge thread depth.



TAP SIZE	OVERALL LENGTH	STOCK #
0 - 1/4"	3-1/4"	TH65031
1/4" - 1/2"	4"	TH65032
1/2" - 3/4"	4-1/4"	TH65033

1 per pack

## DIE STOCK



SIZE	OAL	STOCK #
<b>ROUND</b>		
13/16" OD	6-1/4"	DS63001
1"	9"	DS63002
1-1/2"	14"	DS63003
2"	23"	DS63004
2-1/2"	26"	DS63005
3"	22"	DS63006
4"	29"	DS63007
<b>HEX</b>		
1" A.F.	9"	DSH63008
1-7/16" A.F.	12"	DSH63009

1 per pack

## ADJUSTABLE TAP / REAMER WRENCH



#	SIZE	OVERALL LENGTH	STOCK #
	CAPACITY		
#0	#0 - 1/4"	7"	TW63011
#4	#0 - 3/8"	8"	TW63012
#5	#7 - 1/2", 1/8" NPT	11"	TW63013
#6	#7 - 3/4", 1/4" NPT	15"	TW63014
#7	1/4" - 1", 3/4" NPT	17"	TW63015A
#7	1/4" - 1-1/8", 3/4" NPT	19"	TW63015
#7-1/2	1/2" - 1-3/8", 1/4" - 1" NPT	31"	TW63016
#8	3/4" - 1-5/8", 3/8" - 1-1/4" NPT	40"	TW63017

1 per pack

## THREAD PITCH GAGES

Features:

- Blades are of a narrow leaf design to permit their use in determining pitch for inside as well as outside screw threads.
- Each blade marked with proper thread size.
- Locking device at each end.



NO. OF BLADES	TPI RANGE	STOCK #
51	4 - 84	TPG63041
28	4 - 80	TPG63042
22	9 - 40	TPG63043
28	0.25 - 2.50 mm	TPG63044

1 per pack

### Pitch Gauge Range

<b>Unified 60°</b>	51 Blades included: 4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82 & 84
<b>Unified 60°</b>	28 Blades included: 4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 16, 18, 20, 24, 27, 28, 32, 36, 40, 44, 48, 56, 64, 72 & 80
<b>Unified 60°</b>	22 Blades included: 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38 & 40
<b>Metric Gauge</b>	28 Blades included: .25, .30, .35, .40, .45, .50, .55, .60, .65, .70, .75, .80, .85, .90, 1.00, 1.10, 1.20, 1.25, 1.30, 1.40, 1.50, 1.60, 1.70, 1.75, 1.80, 1.90, 2.00 & 2.50

# Screw Extractors

## Spiral & Straight Flute Special Alloy Steel

- Features:**
- Manufactured from rugged alloy steel.
  - Ideal for handling the stress of removing broken bolts, studs, socket screws and fittings.
  - Use left hand drill as per chart below followed by screw extractor.



### SPIRAL FLUTE SCREW EXTRACTORS



Tapered, left hand spiral flutes grip screws firmly.

SCREW EXTRACTOR SIZE #	USE DRILL SIZE	REMOVES BOLT / SCREW SIZE	STOCK #	
			BULK	CARDED
1	5/64"	3/32" to 5/32"	SE61701	SE61701C
2	7/64"	5/32" to 7/32"	SE61702	SE61702C
3	5/32"	7/32" to 9/32"	SE61703	SE61703C
4	1/4"	9/32" to 3/8", 1/8" Pipe	SE61704	SE61704C
5	17/64"	3/8", to 5/8", 1/4" Pipe	SE61705	SE61705C
6	13/32"	5/8" to 7/8", 3/8" Pipe	SE61706	SE61706C
7*	17/32"	7/8" to 1-1/8", 1/2" Pipe	SE61707	—
8*	13/16"	1-1/8" to 1-3/8", 3/4" Pipe	SE61708	—
9*	1-1/16"	1-3/8" to 2", 1" Pipe	SE61709	—

**Bulk** # 1 to 4, 12 per pack # 5 to 6, 6 per pack # 7 to 9, 1 per pack \* Made in Japan **Card** # 1 to 6, 1 per card

### STRAIGHT FLUTE SCREW EXTRACTORS



Straight flutes provide maximum bite.

SCREW EXTRACTOR SIZE #	USE DRILL SIZE	REMOVES BOLT / SCREW SIZE	STOCK #
1	1/8"	1/4" to 5/16"	SE61721
2	3/16"	3/8"	SE61722
3	15/64"	7/16", 1/8" Pipe	SE61723
4	5/16"	1/2" to 9/16", 1/4" Pipe	SE61724
5	3/8"	5/8", 3/8" Pipe	SE61725
6	15/32"	3/4"	SE61726
7*	9/16"	7/8", 1/2" Pipe	SE61727
8*	21/32"	1" to 1-1/8", 1/2" Pipe	SE61728
9*	13/16"	1-1/4" to 1-3/8", 3/4" Pipe	SE61729

**Bulk** # 1 to 4, 12 per pack # 5 to 6, 6 per pack # 7 to 9, 1 per pack \* Made in Japan **Card** # 1 to 6, 1 per card

Screw Extractors

**B**

### SPIRAL FLUTE SCREW EXTRACTOR SETS IN VINYL POUCH



NO. OF PIECES	DESCRIPTION	STOCK #
5 Pc.	Spiral Flute Sizes: 1, 2, 3, 4, 5	SE61715
6 Pc.	Spiral Flute Sizes: 1, 2, 3, 4, 5, 6	SE61716

1 per pack

### STRAIGHT FLUTE SCREW EXTRACTOR SETS IN VINYL POUCH



NO. OF PIECES	DESCRIPTION	STOCK #
5 Pc.	Straight Flute Sizes: 1, 2, 3, 4, 5	SE61735
6 Pc.	Straight Flute Sizes: 1, 2, 3, 4, 5, 6	SE61736

1 per pack

### SPIRAL FLUTED SCREW EXTRACTOR PAIRED WITH HSS LEFT HAND DRILL ON A HANGUP CARD

**No more guesswork!** Get the appropriate HSS Left Hand Drill paired with the Screw Extractor.

SCREW EXTRACTOR SIZE #	LEFT HAND DRILL SIZE	STOCK #
#1	5/64"	SE61741C
#2	7/64"	SE61742C
#3	5/32"	SE61743C
#4	1/4"	SE61744C
#5	19/64"	SE61745C
#6	13/32"	SE61746C

1 pair per card



### 10 PC. SPIRAL FLUTE SCREW EXTRACTOR & DRILL SET IN METAL INDEX CASE

Five most used spiral fluted screw extractors are matched with HSS left hand drills, in a metal index case.

NO. OF PIECES	DESCRIPTION	STOCK #
10 Pc.	Screw Extractor Sizes: 1, 2, 3, 4, 5 L.H. Drill Sizes: 5/64", 7/64", 5/32", 1/4", 19/64"	SE61747

1 per pack



# Tap Extractors



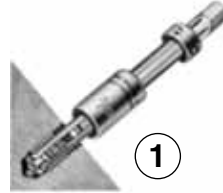
## MACHINE SCREW, FRACTIONAL & METRIC

TAP SIZE	STOCK #		
	4-FLUTE	3-FLUTE	2-FLUTE
#4 (3mm)	—	TE10043	TE10042
#5 (1/8) (3.2mm)	—	TE10053	TE10052
#6 (3.5mm)	TE10064	TE10063	TE10062
#8 (4mm)	TE10084	TE10083	TE10082
#10 (3/16) (5mm)	TE10104	TE10103	TE10102
#12 (5.5mm)	TE10124	TE10123	TE10122
1/4" (6mm)	TE10254	TE10253	TE10252
5/16" (8mm)	TE10314	TE10313	TE10312
3/8" (9mm - 10mm)	TE10374	TE10373	TE10372
7/16" (11mm)	TE10434	TE10433	TE10432
1/2" (12mm)	TE10504	TE10503	TE10502
9/16" (14mm)	TE10564	TE10563	—
5/8" (16mm)	TE10624	TE10623	—
11/16" (18mm)	TE10684	—	—
3/4" (20mm)	TE10754	TE10753	—
7/8" (22mm)	TE10874	TE10873	—
1" (25mm)	TE11004	TE11003	—

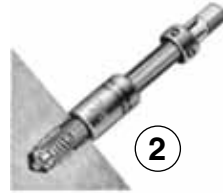
1 per pack

• 4 Flute style normally supplied unless otherwise specified.

- Features:**
- Hardened steel fingers fit in the flutes of broken taps for easy removal.
  - Will not damage threads.
  - Fits both NC and NF taps.



1. Remove chips. Apply gentle pressure to position extractor fingers in the flutes of the broken tap.



2. Push on the holder to bring it into contact with the broken tap. Slide the sleeve down to make contact with the work.



3. Using a tap wrench, twist the square end of the holder back and forth. Once the tap is loose, back it out of the hole.

Tap Extractors • Tap Extensions

# Tap Extensions

## Special Alloy Steel

### STYLE A - 5" OAL



For hand tapping only.

- Features:**
- Manufactured from alloy steel heat treated for strength and durability.
  - Usable for hand tapping in close quarters where it is difficult or impossible to turn a tap wrench.
  - Supplied in paired sets. Each piece 5" long. Pieces may be combined to achieve 10" length extension.

### MACHINE SCREW & FRACTIONAL

TAP SIZE	SHANK SQUARE OF TAP	TAP SHANK DIA.	STOCK #
#10 (3/16")	.152 sq.	.154 sq.	TE45010
1/4"	.191 sq.	.193 sq.	TE45025
5/16"	.238 sq.	.242 sq.	TE45031
3/8" (.206 sq.)	.206 sq.	.210 sq.	TE45037
3/8" (.286 sq.)	*.286 sq.	*.290 sq.	TE45038
7/16"	.242 sq.	.246 sq.	TE45043
1/2"	.275 sq.	.279 sq.	TE45050
5/8"	.360 sq.	.364 sq.	TE45062

1 pair per pack

\*3/8" (.286 sq.) size is more frequently used than the 3/8" (.206 sq.) size. Specify which is required.

### STYLE B - 8" OAL



For machine and hand tapping.

- Features:**
- Provides easy access for hard-to-reach tapping applications. Small socket end allows the extension to pass through standard liner bushings.
  - Deep socket of the extension and two socket set screws provide a close-fitting, secure hold.
  - Each extension designed for a specific tap size. Square and round sockets available.
  - Suitable for repeated use, unlike special length taps.

### MACHINE SCREW & FRACTIONAL

**NEW!**

TAP SIZE	SHANK SQUARE OF TAP	TAP SHANK DIA.	SHANK DIA. OF TAP	STOCK #
0-6	.191 sq.	.250 sq.	.142 sq.	TE40006
8	.191 sq.	.250 sq.	.169 sq.	TE40008
10 (3/16)	.191 sq.	.312 sq.	.195 sq.	TE40010
12	.164 sq.	.312 sq.	.220 sq.	TE40012
1/4"	.191 sq.	.375 sq.	.256 sq.	TE40025
5/16"	.237 sq.	.437 sq.	.319 sq.	TE40031
3/8"	.285 sq.	.500 sq.	.382 sq.	TE40037
7/16"	.241 sq.	.500 sq.	.240 sq.	TE40043
1/2"	.274 sq.	.500 sq.	.368 sq.	TE40050
5/8"	.359 sq.	.625 sq.	.481 sq.	TE40062
3/4"	.441 sq.	.750 sq.	.591 sq.	TE40075
7/8"	.522 sq.	.906 sq.	.698 sq.	TE40087
1"	.599 sq.	1.000 sq.	.801 sq.	TE40100

1 per pack



B

# Solid Screw Inserts

## Carbon Steel

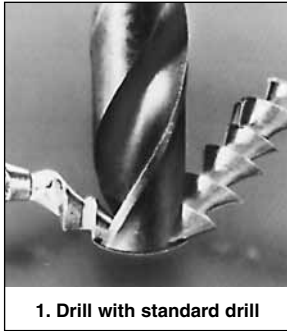


### ALFA LOK Inserts will not back out or vibrate loose

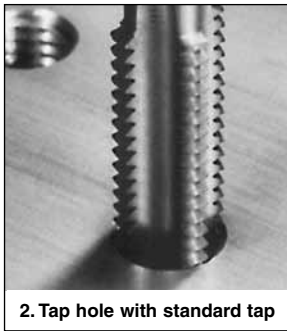
Immediately on installation, micro-encapsulated adhesive begins to set, and the newly installed inserts can be fastened within minutes. The adhesive continues to set overnight until completely set. The adhesive seals against all liquids and gases to a pressure of 6,000 psi when fully cured and bonds to virtually all metals.

### Easy Removal

Use a standard screw and bolt extractor to back out a damaged insert and then replace it with a new insert. Removal is simply a matter of overcoming the resistance to torque-out which has been produced by the threadlocking material.



1. Drill with standard drill



2. Tap hole with standard tap



3. Turn ALFA LOK home flush with bolt



Prepackaged kits containing a range of sizes are available.

### COARSE THREAD

INTERNAL THREAD	EXTERNAL THREAD	LENGTH	TAP DRILL SIZE	TAP SIZE	MINIMUM FULL THREAD DEPTH	STOCK #
4-40	10-32	.250	5/32	10-32	9/32	SI67501
6-32	1/4-20	.280	7	1/4-20	11/32	SI67502
8-32	5/16-18	.290	F	5/16-18	7/16	SI67503
10-24	3/8-16	.406	5/16	3/8-16	15/32	SI67504
1/4-20	7/16-14	.437	23/64	7/16-14	1/2	SI67505
5/16-18	1/2-13	.484	27/64	1/2-13	9/16	SI67506
3/8-16	9/16-12	.515	31/64	9/16-12	19/32	SI67507
7/16-14	5/8-11	.656	17/32	5/8-11	23/32	SI67508
1/2-13	3/4-10	.656	21/32	3/4-10	3/4	SI67509
9/16-12	3/4-10	.656	21/32	3/4-10	3/4	SI67510
5/8-11	7/8-9	.687	49/64	7/8-9	13/16	SI67511
5/8-11	7/8-9	1.125	49/64	7/8-9	1-1/4	SI67512
3/4-10	1-8	.781	7/8	1-8	7/8	SI67513
7/8-9	1-1/4 - 7	1.125	1-7/64	1-1/4 - 7	1-1/8	SI67514
1-8	1-3/8 - 12	1.250	1-9/32	1-3/8 - 12	1-3/8	SI67515

### FINE THREAD

10-32	3/8-16	.406	5/16	3/8-16	15/32	SI67521
1/4-28	7/16-14	.437	23/64	7/16-14	1/2	SI67522
5/16-24	1/2-13	.484	27/64	1/2-13	9/16	SI67523
3/8-24	9/16-12	.515	31/64	9/16-12	19/32	SI67524
7/16-20	5/8-11	.656	17/32	5/8-11	23/32	SI67525
1/2-20	3/4-10	.656	21/32	3/4-10	3/4	SI67526
9/16-18	3/4-10	.656	21/32	3/4-10	3/4	SI67527
5/8-18	7/8-9	.687	49/64	7/8-9	13/16	SI67528
3/4-16	1-8	.781	7/8	1-8	7/8	SI67529
7/8-14	1-1/4 - 7	1.125	1-7/64	1-1/4 - 7	1-1/8	SI67530
1-14	1-3/8 - 12	1.250	1-9/32	1-3/8 - 12	1-3/8	SI67531

### EXTRA HEAVY WALL

1/4-20	1/2-13	.484	27/64	1/2-13	9/16	SI67533
5/16-18	9/16-12	.515	31/64	9/16-12	19/32	SI67534
3/8-16	5/8-11	.656	17/32	5/8-11	23/32	SI67535
1/2-13	7/8-9	.687	49/64	7/8-9	13/16	SI67536
5/8-11	1-8	.781	7/8	1-8	7/8	SI67537

### METRIC INSIDE - N. C. OUTSIDE

M6-1.0	3/8-16	.406	5/16	3/8-16	15/32	SIM67541
M8-1.25	1/2-13	.484	27/64	1/2-13	9/16	SIM67542
M10-1.50	9/16-12	.515	31/64	9/16-12	19/32	SIM67543
M10-1.25	9/16-12	.515	31/64	9/16-12	19/32	SIM67544
M12-1.75	3/4-10	.658	21/32	3/4-10	3/4	SIM67545
M14-2.0	7/8-9	.687	49/64	7/8-9	13/16	SIM67546
M16-2.0	1-8	.781	7/8	1-8	7/8	SIM67547

### SCREW INSERT KITS

KIT RANGE	CONTENTS				STOCK #	
#10 - 1/2" UNC	10 10-24		10 5/16-18		6 1/2-13	SI67555
	10 1/4-20		10 3/8-16			
1/2" - 1" UNC		6 1/2 - 13		7 3/4 - 10		SI67556
		7 5/8 - 11		2 1-8		
#10 - 1/2" UNF	10 10-32		10 5/16-24		6 1/2-20	SI67557
	10 1/4-28		10 3/8-24			
1/2" - 1" UNF		6-1/2-20		7 3/4 - 16		SI67558
		7-5/8 - 18		2 1-14		
M8 - M12 METRIC		10 M6-1.0		10 M10-1.5		SI67559
		10 M8-1.25		8 M12-1.75		

Bulk up to 1/2", 10 per pack  
9/16" to 1", 5 per pack

M6 to M12, 10 per pack  
M14 to M16, 5 per pack

Kits 1 per pack

# Helical Thread Inserts

HELICALLY WOUND STAINLESS STEEL  
FOR STRONG THREADS IN WEAK MATERIALS



COARSE • FINE • PIPE • METRIC • SPARK PLUG SIZES

## NC INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
4-40	0.168	No. 31	TI66210
4-40	0.224		TI66210B
6-32	0.207	No. 25	TI66212
6-32	0.276		TI66212B
8-32	0.246	11/64	TI66214
8-32	0.328		TI66214B
10-24	0.285	13/64	TI66216
10-24	0.380		TI66216B
1 1/4"-20	0.375	17/64	TI66220
1 1/4"-20	0.500		TI66220B
5/16"-18	0.468	21/64	TI66222
5/16"-18	0.624		TI66222B
3/8"-16	0.563	25/64	TI66224
3/8"-16	0.750		TI66224B
7/16"-14	0.657	29/64	TI66226
7/16"-14	0.876		TI66226B
1/2"-13	0.750	17/32	TI66228
1/2"-13	1.000		TI66228B
5/8"-11	0.938	21/32	TI66230
5/8"-11	1.250		TI66230B
3/4"-10	1.125	25/32	TI66232
3/4"-10	1.500		TI66232B
7/8"-9	1.313	29/32	TI66234
7/8"-9	1.750		TI66234B
1"-8	1.500	1-1/32	TI66236
1"-8	2.000		TI66236B



### APPLICATIONS:

- Repairs damaged threaded holes.
- Reinforces threads which may be subject to failure.
- Usable on cast iron, steel, copper, aluminum, zinc, magnesium, most plastic compounds & wood.
- Meets or exceeds most applicable specifications, including MS122076 series, 124651 series, 21208, 21209, 33537, mll-1 8846 and mll-F-5577.
- Easy way to change from inch to metric threads.
- Provides stronger more efficient threads.

## NF INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
4-48	0.168	No. 31	TI66211
4-48	0.224		TI66211B
6-40	0.207	No. 26	TI66213
6-40	0.276		TI66213B
8-36	0.246	11/64	TI66215
8-36	0.328		TI66215B
10-32	0.285	13/64	TI66217
10-32	0.380		TI66217B
1 1/4"-28	0.375	17/64	TI66221
1 1/4"-28	0.500		TI66221B
5/16"-24	0.468	21/64	TI66223
5/16"-24	0.624		TI66223B
3/8"-24	0.563	25/64	TI66225
3/8"-24	0.750		TI66225B
7/16"-20	0.657	29/64	TI66227
7/16"-20	0.876		TI66227B
1/2"-20	0.750	33/64	TI66229
1/2"-20	1.000		TI66229B
5/8"-18	0.938	41/64	TI66233
5/8"-18	1.250		TI66233B
3/4"-16	1.125	49/64	TI66235
3/4"-16	1.500		TI66235B
7/8"-14	1.313	57/64	TI66237
7/8"-14	1.750		TI66237B
1"-12	1.500	1-1/64	TI66239
1"-12	2.000		TI66239B
1"-14	1.500	1-1/64	TI66241
1"-14	2.000		TI66241B

**STI TAPS**  
NC / NF / METRIC  
See Page B41

## NPT INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
1/8"- 27	0.188	3/8	TI66340
1/4"- 18	0.375	33/64	TI66341
3/8"- 18	0.668	21/32	TI66342
1/2"- 14	0.750	13/16	TI66343
3/4"- 14	1.125	1-1/64	TI66344
1"- 11-1/2	1.500	1-9/32	TI66345

10 per pack

## METRIC COARSE INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
M6-1	9.00	6.3	TI66243
M6-1	12.00		TI66243B
M8-1.25	12.00	8.3	TI66244
M8-1.25	16.00		TI66244B
M10-1.5	15.00	10.4	TI66247
M10-1.5	20.00		TI66247B
M12-1.75	18.00	12.5	TI66250
M12-1.75	24.00		TI66250B
M14-2	21.00	14.5	TI66252
M14-2	28.00		TI66252B
M16-2	24.00	16.5	TI66254
M16-2	32.00		TI66254B
M18-2.5	27.00	18.8	TI66256
M18-2.5	36.00		TI66256B
M20-2.5	30.00	20.8	TI66258
M20-2.5	40.00		TI66258B
M22-2.5	33.00	22.8	TI66260
M22-2.5	44.00		TI66260B
M24-3	36.00	24.8	TI66262
M24-3	48.00		TI66262B

## METRIC FINE INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
M8-1	12.00	8.3	TI66263
M8-1	16.00		TI66263B
M10-1.25	15.00	10.3	TI66265
M10-1.25	20.00		TI66265B
M10-1	15.00	10.3	TI66267
M10-1	20.00		TI66267B
M12-1.25	18.00	12.3	TI66271
M12-1.25	24.00		TI66271B
M12-1.5	18.00	12.3	TI66269
M12-1.5	24.00		TI66269B
M14-1.5	21.00	14.3	TI66273
M14-1.5	28.00		TI66273B
M16-1.5	24.00	16.5	TI66275
M16-1.5	32.00		TI66275B
M18-2	27.00	18.5	TI66277
M18-2	36.00		TI66277B
M18-1.5	27.00	18.5	TI66279
M18-1.5	36.00		TI66279B
M20-2	30.00	20.5	TI66281
M20-2	40.00		TI66281B
M20-1.5	30.00	20.5	TI66283
M20-1.5	40.00		TI66283B
M22-2	33.00	22.5	TI66285
M22-2	44.00		TI66285B
M22-1.5	33.00	22.5	TI66287
M22-1.5	44.00		TI66287B
M24-2	36.00	24.5	TI66289
M24-2	48.00		TI66289B

## SPARK PLUG INSERTS

SIZE	LENGTH	DRILL SIZE	STOCK #
M10-1	0.339	10.3	TI66290
M10-1	1/2"		TI66290A
M12-1.25	1/2"	12.3	TI66291
M12-1.25	3/4"		TI66291B
M14-1.25	3/8"	14.25	TI66293
M14-1.25	0.472		TI66293A
M14-1.25	7/16"		TI66293B
M14-1.25	1/2"		TI66293C
M14-1.25	3/4"		TI66293D
M18-1.5	1/2"		18.5

10 per pack

10 per pack

Alfa Tools inserts are made of stainless steel with diamond cross section. They are interchangeable with Helicoil and all other brands.

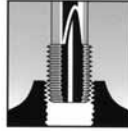


# Helical Thread Repair Kits

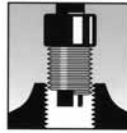
## How to use Insert-A-Thread



**1. DRILL**  
Drill to clear out the damaged thread (if necessary).



**2. TAP**  
Thread with STI tap supplied with the kit.



**3. INSTALL**  
Wind insert in with light downward pressure until 1/4 to 1/2 turn below the surface, driving tang towards the bottom of the hole.



**4. TANG REMOVAL**  
Remove tool and place back on top of tang. Tap down on tool sharply. Do not try to twist tang off. For spark plug and large fine thread inserts, use long nose pliers and pull tang out.

### NC REPAIR KITS

SIZE	INSERT LENGTH	NO. OF INSERTS	STOCK #
4-40	0.168	10	TI66210K
6-32	0.207	10	TI66212K
8-32	0.246	10	TI66214K
10-24	0.285	10	TI66216K
1/4" - 20	0.375	10	TI66220K
5/16" - 18	0.468	5	TI66222K
3/8" - 16	0.563	5	TI66224K
7/16" - 14	0.657	5	TI66226K
1/2" - 13	0.750	5	TI66228K
5/8" - 11	0.938	5	TI66230K
3/4" - 10	1.125	5	TI66232K
7/8" - 9	1.313	5	TI66234K
1" - 8	1.500	5	TI66236K

### NF REPAIR KITS

4-48	0.168	10	TI66211K
6-40	0.207	10	TI66213K
8-36	0.246	10	TI66215K
10-32	0.285	10	TI66217K
1/4" - 28	0.375	10	TI66221K
5/16" - 24	0.468	5	TI66223K
3/8" - 24	0.563	5	TI66225K
7/16" - 20	0.657	5	TI66227K
1/2" - 20	0.750	5	TI66229K
5/8" - 18	0.938	5	TI66233K
3/4" - 16	1.125	5	TI66235K
7/8" - 14	1.313	5	TI66237K
1" - 12	1.500	5	TI66239K
1" - 14	1.500	5	TI66241K

### METRIC COARSE REPAIR KITS

SIZE	INSERT LENGTH	NO. OF INSERTS	STOCK #
M6-1	9.00	10	TI66243K
M8-1.25	12.00	5	TI66244K
M10-1.5	15.00	5	TI66247K
M12-1.75	18.00	5	TI66250K
M14-2	21.00	5	TI66252K
M16-2	24.00	5	TI66254K
M18-2.5	27.00	5	TI66256K
M20-2.5	30.00	5	TI66258K
M22-2.5	33.00	5	TI66260K
M24-3	36.00	5	TI66262K

### METRIC FINE REPAIR KITS

M8-1	12.00	5	TI66263K
M10-1.25	15.00	5	TI66265K
M10-1	15.00	5	TI66267K
M12-1.5	18.00	5	TI66269K
M12-1.25	18.00	5	TI66271K
M14-1.5	21.00	5	TI66273K
M16-1.5	24.00	5	TI66275K
M18-2	27.00	5	TI66277K
M18-1.5	27.00	5	TI66279K
M20-2	30.00	5	TI66281K
M20-1.5	30.00	5	TI66283K
M22-2	33.00	5	TI66285K
M22-1.5	33.00	5	TI66287K
M24-2	36.00	5	TI66289K

### NPT REPAIR KITS



SIZE	INSERT LENGTH	NO. OF INSERTS	STOCK #
1/8 - 27	0.188	10	TI65000K
1/4 - 18	0.375	10	TI65001K
3/8 - 18	0.668	5	TI65002K
1/2 - 14	0.750	5	TI65003K
3/4 - 14	1.125	5	TI65004K
1" - 11-1/2	1.500	5	TI65005K

### SPARK PLUG REPAIR KITS

M10-1	1/2"	10	TI66290K
M12-1.25	1/2"	10	TI66291BK
	3/4"	10	TI66291AK
M14-1.25	3/8"	5	TI66293K
	3/4"	5	TI66293DK
M18-1.5	1/2"	5	TI66294K



**Each Kit Includes:**  
Inserts, Insertion Tool & STI Tap

Helical Thread Repair Kits

**B**

1 kit per pack

## RANGE REPAIR KITS

• Each kit contains a tap and installation tool for the given size.

### UNC RANGE



SIZE	INSERT LENGTH	INSERTS PER KIT	STOCK #
1/4" - 20	0.375	10	TIK66597
5/16" - 18	0.468	5	
3/8" - 16	0.563	5	
7/16" - 14	0.657	5	
1/2" - 13	0.750	5	

### UNF RANGE

SIZE	INSERT LENGTH	INSERTS PER KIT	STOCK #
1/4" - 28	0.375	10	TIK66598
5/16" - 24	0.468	5	
3/8" - 24	0.563	5	
7/16" - 20	0.657	5	
1/2" - 20	0.750	5	

### METRIC RANGE

SIZE	INSERT LENGTH	INSERTS PER KIT	STOCK #
M6-1	9.00	5	TIK66599
M8-1	12.00	5	
M8-1.25	12.00	5	
M10-1.5	15.00	5	
M12-1.75	18.00	5	

## INSTALLATION TOOLS

### UNC THREADS

THREAD SIZE	STOCK #
4-40	TI66314
6-32	TI66315
8-32	TI66316
10-24	TI66317
1/4" - 20	TI66318
5/16" - 18	TI66319
3/8" - 16	TI66320
7/16" - 14	TI66321
1/2" - 13	TI66322
5/8" - 11	TI66323
3/4" - 10	TI66324
7/8" - 9	TI66325
1" - 8	TI66326

### UNF THREADS

THREAD SIZE	STOCK #
4-48	TI66314
6-40	TI66315
8-36	TI66316
10-32	TI66317
1/4" - 28	TI66318
5/16" - 24	TI66328
3/8" - 24	TI66329
7/16" - 20	TI66321
1/2" - 20	TI66322
5/8" - 18	TI66323
3/4" - 16	TI66330
7/8" - 14	TI66325
1" - 12	TI66326
1" - 14	TI66326

### METRIC COARSE THREADS

THREAD SIZE	STOCK #
M6-1	TI66318
M8-1.25	TI66328
M10-1.5	TI66320
M12-1.75	TI66322
M14-2	TI66331
M16-2	TI66323
M18-2.5	TI66324
M20-2.5	TI66330
M22-2.5	TI66325
M24-3	TI66326

### METRIC FINE THREADS

THREAD SIZE	STOCK #
M8-1	TI66328
M10-1.25	TI66329
M10-1	TI66329
M12-1.5	TI66322
M12-1.25	TI66322
M14-1.25S/P	TI66332
M14-1.5	TI66332
M16-1.5	TI66323
M18-2	TI66324
M18-1.5	TI66324
M20-2	TI66330
M20-1.5	TI66330
M22-2	TI66325
M22-1.5	TI66325
M24-2	TI66326

### NPT THREADS

THREAD SIZE	STOCK #
1/8" - 27	TI66329
1/4" - 18	TI66331
3/8" - 18	TI66323
1/2" - 14	TI66325
3/4" - 14	TI66333
1" - 11-1/2	TI66334

1 per pack

**B-40**

# Screw Thread Insert (STI) Taps

## Premium High-Speed Steel

### Special Taps For Helical Coil Thread Inserts (Plug Style)

- Features:
- Can be used by hand or under power.
  - Produces threads to accommodate helical screw thread inserts.
  - General purpose over size taps



### INCH SIZES

STI SIZE	DRILL SIZE	STOCK #
<b>MACHINE SCREW SIZES</b>		
4 - 40	#31	ST66507
4 - 48	#31	ST66508
5 - 40	#28	ST66509
6 - 32	#25	ST66511
6 - 40	#25	ST66512
8 - 32	11/64"	ST66513
8 - 36	#17	ST66514
10 - 24	13/64"	ST66515
10 - 32	13/64"	ST66516
12 - 24	#1	ST66517
<b>FRACTIONAL</b>		
1/4" - 20	17/64"	ST66530
1/4" - 28	17/64"	ST66531
5/16" - 18	21/64"	ST66532
5/16" - 24	21/64"	ST66533
3/8" - 16	25/64"	ST66534
3/8" - 24	25/64"	ST66535
7/16" - 14	29/64"	ST66536
7/16" - 20	29/64"	ST66537
1/2" - 13	17/32"	ST66538
1/2" - 20	33/64"	ST66539
5/8" - 11	21/32"	ST66542
5/8" - 18	41/64"	ST66542A
3/4" - 10	25/32"	ST66546
3/4" - 16	49/64"	ST66547
7/8" - 9	29/32"	ST66548
7/8" - 14	57/64"	ST66548A
1" - 8	1-1/32"	ST66549
1" - 12	1-1/64"	ST66549A
1" - 14	1-1/64"	ST66549B

1 per pack

### METRIC

STI SIZE	DRILL SIZE	STOCK #
M5 x .8	5.2	ST66550
M6 x 1.0	6.3	ST66551
M8 x 1.0	8.3	ST66552A
M8 x 1.25	8.3	ST66552
M9 x 1.25	9.25	ST66553
M10 x 1.0	10.3	ST66554A
M10 x 1.25	10.3	ST66554
M10 x 1.50	10.4	ST66555
M11 x 1.25	11.00	ST66556
M11 x 1.50	11.00	ST66557
M12 x 1.25	12.2	ST66558
M12 x 1.50	12.25	ST66559
M12 x 1.75	12.50	ST66560
M14 x 1.25	14.30	ST66561A
M14 x 1.50	14.30	ST66561
M14 x 2.0	14.50	ST66562
M16 x 1.50	16.25	ST66563
M16 x 2.00	16.50	ST66564
M18 x 1.50	18.25	ST66565
M18 x 2.0	18.50	ST66566A
M18 x 2.50	18.50	ST66566
M20 x 1.50	20.25	ST66567
M20 x 2.0	20.50	ST66568A
M20 x 2.50	20.50	ST66568
M22 x 1.50	22.50	ST66569
M22 x 2.0	22.50	ST66570
M22 x 2.5	22.50	ST66571A
M24 x 2.0	24.25	ST66571
M24 x 3.0	24.75	ST66572

1 per pack



### TAPER PIPE TAPS (NPT)

**NEW!**

STI SIZE	DRILL SIZE	DECIMAL EQUIV.	STOCK #
<b>FRACTIONAL</b>			
1/8" - 27	Q	0.3320	STNPT66591
1/4" - 18	7/16	0.4375	STNPT66592
3/8" - 18	9/16	0.5625	STNPT66593
1/2" - 14	45/64	0.7031	STNPT66594
3/4" - 14	29/32	0.9062	STNPT66595
1" - 11-1/2	1-9/64	1.1406	STNPT66596

1 per pack

Screw Thread Insert (STI) Taps

**B**

# Tap & Die Sets

Available in Fractional, Metric or Combination Sets

NC = Coarse    NF = Fine    NPT = Pipe    MM = Metric



Tap & Die Sets

B



TDS66012NPT

## 12 PC. PIPE TAP & RETHREADING HEXAGON DIE SET

IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66012NPT	HIGH CARBON	12	6 NPT Pipe Taps, and 6 NPT Rethreading Hexagon Dies
<b>Size and threads per inch (NPT sizes)</b> 1/8-27, 1/4-18, 3/8-18, 1/2-14, 3/4-14, 1-11-1/2			



TDS66006NPT

## 6 PC. PIPE TAP SET

IN WOOD CASE

**NEW!**

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66006NPT	HIGH CARBON	6	6 NPT Pipe Taps
<b>Size and threads per inch (NPT sizes)</b> 1/4-18, 3/8-18, 1/2-14, 3/4-14, 1-11-1/2, 1-1/4-1-1/2			



TDS66012

## 12 PC. TAP & ADJ. ROUND DIE SET

IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66012	HIGH CARBON	12	5 Plug Taps, 5 Adj. 1" O.D. Round Dies,
<b>Size and threads per inch (Fractional sizes)</b> NC 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13			
			1 Die Stock 1" O.D. and 1 T-Handle Tap Wrench 1/8" - 1/2"



TDS66022

## 22 PC. TAP & ADJ. ROUND DIE SET

IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66022	HIGH CARBON	22	10 Plug Taps, 10 Adj. 1" O.D. Round Dies,
<b>Size and threads per inch (Fractional sizes)</b> NC 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13			
			1 Die Stock 1" O.D. and 1 T-Handle Tap Wrench 1/8" - 1/2"
<b>NF 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20</b>			

# Tap & Die Sets - Cont.

Available in Fractional, Metric or Combination Sets

NC = Coarse    NF = Fine    NPT = Pipe    MM = Metric



TDS24MC

## 24 PC. METRIC TAP & ADJ. ROUND DIE SET

IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS24MC	HIGH CARBON	24	11 Plug Taps, 11 Adj. 2" O.D. Round Dies, 1 Die Stock 2" O.D. and 1 Adj. Tap Wrench
TDS24MH	HIGH-SPEED	24	
<b>Metric sizes: M6 - M20, 1 each tap, 1 each die</b> 6mm x 1.00, 7 x 1.00, 8 x 1.25, 9 x 1.25, 10 x 1.50, 11 x 1.50, 12mm x 1.75, 14 x 2.00, 16 x 2.00, 18 x 2.50, 20 x 2.50			



TDS40H (HSS)

## 40 PC. POPULAR MECHANIC'S TAP & DIE SETS – SAE OR METRIC

WITH HEXAGON DIES IN A DOUBLE TRAY PLASTIC CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES		
<b>NEW!</b> TDS40C (SAE)	HIGH CARBON	40	17 Plug Taps, 17 - 1" Hexagon Dies, 1 Hexagon Die Stock 1", 2 T Handle Tap Wrenches: 0 to 1/4" & 1/4" to 1/2", 1 Adjustable Tap Wrench 0 -1", 1 Screwdriver and 1 Pitch Gauge.		
<b>NEW!</b> TDS40CM (METRIC)	HIGH CARBON	40			
<b>NEW!</b> TDS40H (HSS)	HIGH-SPEED	40			
<b>SAE Set size and threads per inch (Machine Screw &amp; Fractional sizes)</b> <b>NC</b> 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 <b>NF</b> 10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20 <b>NPT</b> 1/8-27					
<b>Metric Tap and Die sizes</b>					
3mm-0.5	4mm-0.75	6mm-0.75	7mm-0.75	10mm-1.25	12mm-1.75
3mm-0.6	5mm-0.8	6mm-1.00	8mm-1.00	10mm-1.50	1/8" Pipe Tap
4mm-0.7	5mm-0.9	7mm-1.00	8mm-1.25	12mm-1.50	



TDS66045C

## 45 PC. TAP & DIE SET – METRIC

WITH ADJUSTABLE SPLIT ROUND DIES IN A METAL CASE



STOCK #	STEEL	NO. OF PIECES	SET INCLUDES	
TDS66045C	HIGH CARBON TOOL STEEL	45	20 Plug Taps, 20 Adj. Round Dies, 2 Die Stock 1" & 2" O.D., 2 Tap Wrenches: #5, #7, 1 Screwdriver.	
<b>Metric Tap (Plug) and Die sizes</b>				
6mm-1.00	10mm-1.50	14mm-2.00	18mm-2.25	22mm-2.25
6mm-0.75	10mm-1.25	14mm-1.50	18mm-1.50	22mm-1.50
8mm-1.25	12mm-1.75	16mm-2.00	20mm-2.50	24mm-3.00
8mm-1.00	12mm-1.50	16mm-1.50	20mm-1.50	24mm-1.50

# Tap & Die Sets - Cont.

Available in Fractional or Combination Sets

NC = Coarse NF = Fine NPT = Pipe MM = Metric



Tap & Die Sets

B



TDS66064H

## 64 PC. SUPER TAP AND DIE SET

IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66064H	HIGH SPEED	64	28 Plug Taps with: 17 Adjustable 1" O.D. Round Dies, 7 Adjustable 1-1/2" O.D. Round Dies, 4 Adjustable 2" O.D. Round Dies, 3 Die Stocks: 1" O.D., 1-1/2" O.D. and 2" O.D., 1 T-Handle Tap Wrench #0-1/4, 2 Adjustable Tap Wrenches: 1/16-1/2" and 1/4-1 1/8", 1 Screw Driver & 1 Screw Pitch Gauge
TDS66064C	HIGH CARBON	64	

**Size and threads per inch (Machine Screw & Fractional sizes)**

**NC** 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** 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(NS)

**NPT** 1/8-27, 1/4-18



TDS66060

## 60 PC. COMBINATION SAE & METRIC SET

WITH HEXAGON DIES IN METAL CASE

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66060	HIGH CARBON	60	17 Plug Taps & Hexagon Dies SAE 10 Plug Taps & Hexagon Dies METRIC Hexagon Die stock 1", T-Handle Tap Wrench, Adjustable Tap Wrench 0-1", Screw Driver, Thread Gauge Inch & Metric.

**Size and threads per inch (Machine Screw, Fractional & Metric sizes)**

**SAE NC** 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** 10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20

**NPT** 1/8-27

**Metric** 3mm-0.5, 4mm-0.7, 5mm-0.8, 6mm-1.0, 7mm-1.0, 8mm-1.25, 9mm-1.25, 10mm-1.5, 10mm-1.0, 12mm-1.75



TDS66110

## 110 PC. TAP & DIE SET - SAE & METRIC

WITH ROUND DIES IN A METAL CASE

**NEW!**

STOCK #	STEEL	NO. OF PIECES	SET INCLUDES
TDS66110	HIGH CARBON ALLOY STEEL	110	24 Plug Taps & Dies SAE, 2 Plug Taps & Dies NPT, 9 Plug Taps & Dies METRIC, 2 Die Stocks 1", 1-1/2" O.D., 2 Tap Wrenches #6 and #8, T-Handle Tap Wrench, Taps: Taper & Bottoming Chamfer (70 Pcs.) Dies: (35 Pcs.)

**Size and threads per inch (NC, NF, NPT & Metric sizes)**

**SAE NC** 4-40, 6-32, 8-32, 10-24, 12-24, 1/4-20, 1/4-24, 1/4-32, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10

**NF** 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** 1/8-27, 1/4-18

**Metric** 6mm-1.0, 8mm-1.25, 10mm-1.5, 10mm-1.0, 11mm-1.5, 12mm-1.25, 12mm-1.75, 14mm-1.25, 18mm-1.5

# Hexagon Rethreading Dies Sets In Wood Cases

High Carbon Steel



TDS5C



TDS8C



TDS20

## RIGHT HAND DIE SET

1 die each size

NO. OF PIECES	DESCRIPTION	STOCK #
5 pc.	NC – 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13	TDS5C
5 pc.	NF – 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20	TDS5F
8 pc.	NC – 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10	TDS8C
8 pc.	NF – 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16	TDS8F
10 pc.	NC – 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	TDS10C
10 pc.	NF – 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, 1-12	TDS10F
20 pc.	NC/NF – 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, 9/16-12, 9/16-18, 5/8-11, 5/8-18, 3/4-10, 3/4-16, 7/8-9, 7/8-14, 1-8, 1-12	TDS20

## LEFT HAND DIE SET

1 die each size

NO. OF PIECES	DESCRIPTION	STOCK #
5 pc.	NC – 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13	TDS5LC
5 pc.	NF – 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20	TDS5LF
8 pc.	NC – 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13, 9/16-12, 5/8-11, 3/4-10	TDS8LC
8 pc.	NF – 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20, 9/16-18, 5/8-18, 3/4-16	TDS8LF
10 pc.	NC – 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	TDS10LC
10 pc.	NF – 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, 1-12	TDS10LF
20 pc.	NC/NF – 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, 9/16-12, 9/16-18, 5/8-11, 5/8-18, 3/4-10, 3/4-16, 7/8-9, 7/8-14, 1-8, 1-12	TDSL20

Hexagon Rethreading Die Sets

**B**

# Tap & Drill Sets

## 18 Pc. Tap & Drill Index Sets High-Speed & Carbon Steel Inch or Metric

In Metal Case  
NC or NF Threads



### Features:

- Organized in a durable metal case.
- Fits conveniently in any toolbox.
- Isolates each tap and drill.
- Prevents chipping.
- Permits easy selection.

### HSS TAPS WITH HSS DRILLS

DESCRIPTION	STOCK #	
	ALFA USA	ECO PRO
<b>NC Plug Taps with Jobber Drills</b> Contains 1 ea. 6-32 tap #36 drill 8-32 #29 10-24 #25 10-32 #21 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64"	TDSH118C	TDSH218C
<b>NC HSS Plug Taps with Blitz Bit Drills</b> Contains 1 ea. 6-32 tap #36 drill 8-32 #29 10-24 #25 10-32 #21 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64"	TDSBB18NC	—
<b>NF Plug Taps with Jobber Drills</b> Contains 1 ea. 6-40 tap #33 drill 8-36 #29 10-24 #25 10-32 #21 1/4"-28 #3 5/16"-24 I 3/8"-24 Q 7/16"-20 25/64 1/2"-20 29/64	TDSH118F	TDSH218F
<b>NF HSS Plug Taps with Blitz Bit Drills</b> Contains 1 ea. 6-40 tap #33 drill 8-36 #29 10-24 #25 10-32 #21 1/4"-28 #3 5/16"-24 I 3/8"-24 Q 7/16"-20 25/64 1/2"-20 29/64	TDSBB18NF	—
<b>Metric Plug Taps with Jobber Drills</b> Contains 1 ea. M2.5 x .45 #46 drill M3.0 x .50 #39 M3.5 x .60 #32 M4.0 x .70 #30 M5.0 x .80 #19 M6.0 x 1.0 #8 M8.0 x 1.25 H M10.0 x 1.50 Q M12.0 x 1.75 13/32	TDSH118M	TDSH218M

### HIGH CARBON TAPS WITH HSS DRILLS

DESCRIPTION	STOCK #	
	ALFA USA	ECO PRO
<b>NC Taps with Jobber Drills</b> Contains 1 each 6-32 tap #36 drill 8-32 #29 10-24 #25 10-32 #21 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64"		TDSC218C
<b>NF Taps with Jobber Drills</b> Contains 1 each 6-40 tap #33 drill 8-36 #29 10-24 #25 10-32 #21 1/4"-28 #3 5/16"-24 I 3/8"-24 Q 7/16"-20 25/64 1/2"-20 29/64		TDSC218F

Tap & Drill Sets

B

## 36 Pc. Tap & Drill Combination Index Sets

In Metal Case  
NC & NF Threads



### HSS TAPS & HSS DRILLS

DESCRIPTION	STOCK #	
	ALFA USA	ECO PRO
<b>NC/NF Plug Taps with Jobber Drills</b> Contains 1 each NC 6-32 tap #36 drill 8-32 #29 10-24 #25 12-24 #16 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64 and NF 6-40 tap #33 drill 8-36 #29 10-32 #21 12-28 #15 1/4"-28 #3 5/16"-24 I 3/8"-24 Q 7/16"-20 25/64 1/2"-20 29/64	TDSH136	TDSH236

### HIGH CARBON TAPS & HSS DRILLS

DESCRIPTION	STOCK #	
	ALFA USA	ECO PRO
<b>NC/NF Plug Taps with Jobber Drills</b> Contains 1 each NC 6-32 tap #36 drill 8-32 #29 10-24 #25 12-24 #16 1/4"-20 #7 5/16"-18 F 3/8"-16 5/16" 7/16"-14 U 1/2"-13 27/64" and NF 6-40 tap #33 drill 8-36 #29 10-32 #21 12-28 #15 1/4"-28 #3 5/16"-24 I 3/8"-24 Q 7/16"-20 25/64 1/2"-20 29/64		TDSC236



• ALFA USA taps and drills are manufactured in the United States.  
• ECO PRO taps and drills are made outside the United States to ALFA TOOL'S specifications.



## High-Speed & Carbon Steel Inch or Metric

In Metal Case  
NC or NF Threads

### Features:

- Organized in a durable metal case.
- Fits conveniently in any toolbox.
- Isolates each tap.
- Prevents chipping.
- Permits easy selection.

## HAND TAP SETS

Expanded

NO. OF PIECES	DESCRIPTION	STOCK #	
		ALFA USA	ECO PRO
<b>HIGH-SPEED STEEL TAP SETS</b>			
10 pc.	<b>Machine Screw &amp; Fractional Plug Taps, 1 size each:</b> 4-40NC, 6-32NC, 8-32NC, 10-24NC, 10-32NF, 1/4-20NC, 5/16-18NC, 3/8-16NC, 1/2-13NC, 5/8-11NC	TDS66010	TDS266010
10 pc.	<b>Metric Plug Taps, 1 size each:</b> 3 x .5, 3.5 x .6, 4 x .7, 4.5 x .75, 5 x .8, 6 x 1.0, 8 x 1.25, 10 x 1.5, 12 x 1.75, 16 x 2.0	TDS66011	TDS266011
10 pc.	<b>Fractional Plug Taps, 1 size each:</b> 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	TDS66013	TDS266013
16 pc.	<b>Machine Screw &amp; Fractional Plug Taps, 1 size each:</b> 1/2-20, 1/2-13, 7/16-20, 7/16-14, 3/8-24, 3/8-16, 5/16-24, 5/16-18, 1/4-28, 1/4-20, 12-28, 12-24, 10-32, 10-24, 8-32, 6-32	TDS66016	TDS266016
19 pc.	<b>Machine Screw Plug Taps, 1 size each:</b> 0-80, 1-64, 1-72, 2-56, 2-64, 3-48, 3-56 4-40, 4-48, 5-40, 5-44, 6-32, 6-40, 8-32 8-36, 10-24, 10-32, 12-24, 12-28	TDS66019	TDS266019
<b>CARBON STEEL SETS</b>			
10 pc.	<b>Machine Screw &amp; Fractional Plug Taps, 1 size each:</b> 4-40, 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18, 3/8-16, 1/2-13, 5/8-11	—	TDS266014
10 pc.	<b>Fractional Plug Taps, 1 size each:</b> 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	—	TDS266015



TDS66010



TDS66016



HST70362



<b>HSS TAP BIT SET WITH QUICK CHANGE CHUCK</b>			
13 pc.	<b>Machine Screw &amp; Fractional Plug Taps, 1 size each:</b> 3/8-24, 5/16-24, 1/4-28, 10-32, 8-36, 6-40, 3/8-16, 5/16-18, 1/4-20, 10-24, 8-32, 6-32, and one 1/4" Quick Change Chuck	—	HST70362



1/4" hex shanks are designed for use in power tools with quick change chucks and adapters.



• ALFA USA taps are manufactured in the United States.  
• ECO PRO taps are made outside the United States to ALFA TOOL'S specifications.





## TOOLS NOT INCLUDED



### Features:

- Cost effective tool management & storage.
- Heavy gauge steel cabinets and drawers with vinyl dividers.
- Stackable models with full drawer extensions.
- Baked epoxy finish for long life.

## TAP DISPENSER CABINETS

Dimensions: 14-5/8" W x 7-3/8" D x 7-3/4" H

DESCRIPTION	WEIGHT	STOCK #
<b>FOR MACHINE SCREW SIZES</b> 2-56 12-28 Five Drawers	13 lbs.	DIHTMS13550
<b>FOR FRACTIONAL SIZES</b> 1/4"-20 1-14 Three Drawers	10.5 lbs.	DIHTF13500
<b>FOR METRIC SIZES</b> 3mm - 24mm Three Drawers	10.5 lbs.	DIHTM13575



**Tap Dispenser  
Machine Screw Sizes**  
DIHTMS13550

**Fractional Sizes**  
DIHTMF13500

**Metric Taps**  
DIHTM13575

Stackable  
(Not Lockable)

Tap Dispenser Cabinets

## MASTER TAP DISPENSER

(Four Drawers)

Dimensions: 26" W x 12" D x 12-1/2" H

DESCRIPTION	WEIGHT	STOCK #
Holds NC/NF sizes in taper, plug and bottoming chamfer Machine screw sizes 2-56 to 12-28 Fractional sizes 1/4"-20 to 1"-14 <b>Lockable</b>	50 lbs.	DIHTM13580



**Master Tap  
Dispenser**  
DIHTM13580  
(Lockable)  
with ball bearing slides

## TAP & DRILL DISPENSER

(Three Drawers)

Dimensions: 14-5/8" W x 7-3/8" D x 7-3/4" H

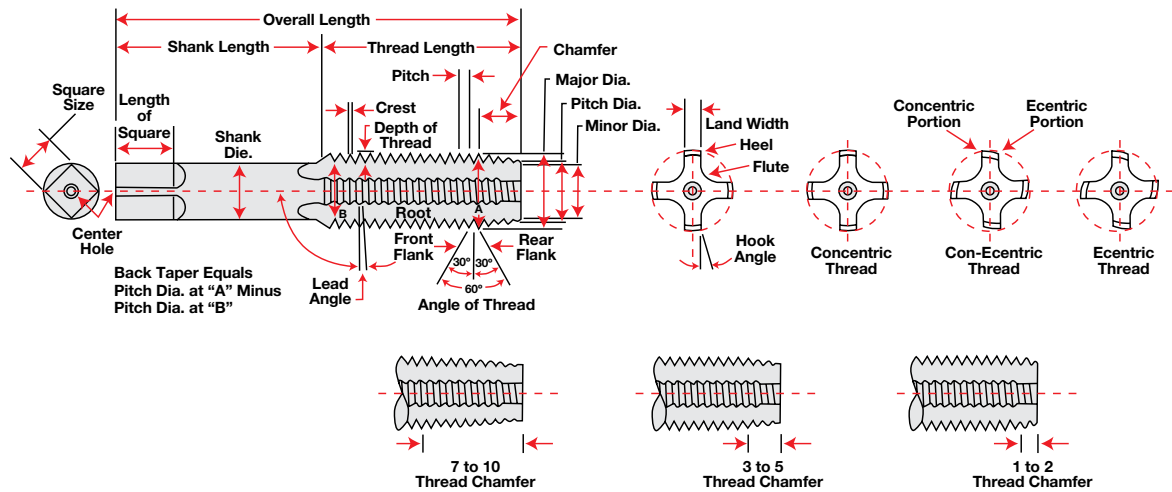
- Stores and organizes correct tap drill with corresponding tap.
- Holds 1 doz. (min.) of each size.

DESCRIPTION				WEIGHT	STOCK #
Tap	Drill	Tap	Drill	10.5 lbs.	DIHT13590
6-32	#36	1/4"-28	#3		
8-32	#29	5/16"-18	F		
10-24	#25	5/16"-24	I		
10-32	#21	3/8"-16	5/16"		
1/4"-20	#7	3/8"-24	Q		
		Tap	Drill		
		7/16"-14	U		
		7/16"-20	25/64"		
		1/2"-13	27/64"		
		1/2"-20	29/64"		



**Tap & Drill Dispenser**  
DIHT13590  
(Not Lockable)

B



**Angle of Thread:** The angle included between the flanks of the thread, measured in an axial plane.

**Back Taper:** A slight axial relief of the tap that makes the pitch diameter of the thread near the shank slightly smaller than the pitch diameter of the thread near the chamfered end.

**Basic:** The theoretical or nominal standard size from which all variations are made.

**Chamfer:** The tapering of the threads at the front end of each land. Done by cutting away and relieving the crest of the first few teeth, which distributes the cutting action over several teeth. When the tapering amounts to 7 to 10 threads, the tap is called a “taper” tap; 3 to 5 threads is called a “plug” tap; and 1 to 2 threads is called a “bottoming” tap.

**Chamfer Relief:** The gradual decrease in height of the lands from cutting edge to heel on the chamfered portion. Provides clearance for the cutting action as the tap advances.

**Crest:** The top surface joining the two flanks of a thread. The crest of an external thread is at its major diameter, while the crest of an internal thread is at its minor diameter.

**Cutting Face:** The leading side of the land in the direction of rotation for cutting, on which the chip impinges.

**Dryseal:** A pipe threaded fuel connection designed for use where the assembled product must withstand high fluid or gas pressures without the use of a sealing compound. Suitable for both external and internal applications.

**Flutes:** Longitudinal channels formed in a tap to create cutting edges on the thread profile. Provides chip spaces and cutting fluid passages.

**Height of Thread:** The distance between the crest and the base of a thread, measured normal to the axis.

**Helical Flute:** A flute with uniform axial lead and constant helix in a helical path around the axis of a cylindrical tap.

**Hook Face:** A concave cutting face. Usually specified either as chordal hook or tangential hook.

**Chordal Hook Angle:** The angle between the chord passing through the root and crest of a thread at the cutting face and a radial line through the crest at the cutting edge.

**Tangential Hook Angle:** The angle between a line tangent to a hook cutting face at the cutting edge and a radial line to the same point.

**Interrupted Thread:** A tap with an odd number of lands. Every other tooth along the thread helix is removed.

**Lead:** The distance a screw thread advances axially in one complete turn. On a single lead screw or tap, the lead and pitch are identical. On a double lead screw or tap, the lead is twice the pitch, and so on for higher lead screws or taps.

**Pitch:** The distance from any point on a screw or tap thread to a corresponding point on the next thread, measured parallel to the axis. The pitch equals on divided by the number of threads per inch.

**Pitch Diameter:** On straight threads, the pitch diameter is the diameter of an imaginary coaxial cylinder. The surface of this cylinder would pass through the thread profile at points which would make the width of threads and the width of the spaces cut by the surface of the cylinder equal. On taper threads, the pitch diameter is the diameter at a given distance from a reference plane perpendicular to the axis of an imaginary coaxial cone. The surface of this cone would pass through the thread profile at points which would make the width of the threads and the width of the spaces cut by the surface of the cone equal.

**Rake:** Deviation of a straight cutting face of the tooth from a radial line. Positive rake means the crest of the cutting face is angularly advanced ahead of the balance of the face of the tooth. Negative rake means the crest of the cutting face is angularly behind the balance of the face of the tooth. Zero rake means the cutting face is directly on the center line.

**Root:** The bottom surface joining the flanks of two adjacent threads. The root of an external thread is at its minor diameter. The root of an internal thread is at its major diameter.

**Spiral Point:** A supplemental angular fluting cut in the cutting face of the land at the chamfer end. Slightly longer than the chamfer on the tap and the opposite hand to that of rotation. Also known as a “chip driver.”

**Threads Per Inch:** The number of threads in one inch of length.

**Thread relief:** The clearance produced by removing metal from behind the cutting edge. When the thread angle is relieved from the heel to the cutting edge, it is called an “eccentric” relief. When the thread angle is relieved from the heel to a portion of the land width only, it is called a “con-eccentric” relief.