IRWIN® HANSON® has been manufacturing High Carbon Steel threading tools for over 100 years, and has proven itself to be a brand you can trust. Performance, thread quality, durability, and ease of use — proven for over a century.

[1]



Tap and Die Styles

Self-Aligning Taps



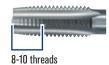
- · Starts straight every time
- Ideal for through holes and irregular surfaces

Plug Taps



- Ideal for all general purpose threading
- 3 to 5 threads chamfered
- Most common chamfer

Taper Taps



- Ideal for tough starting applications
- Preferred use with deep or through-hole applications
- 8 to 10 threads chamfered

Bottom Taps



Ideal for threading close to the bottom of blind holes

[2]

- 1 to 2 threads chamfered
- Shortest standard chamfer

Self-Aligning Dies



1" Across Hex Flats

- Starts straight every time
- More steel at critical points for extra strength
- Recommended for use with PTS die stock

Hexagon Dies



5/8", 1", 1-7/16" and 1-13/16" Across Hex Flats

- Best suited for maintenance and repair work
- Recommended for use with hexagonal die stock handles
- In area with limited space, die can be used with a wrench or socket

Solid Round Dies



174

1" and 1-1/2" Overall Diameter

- Ideal for general purpose threading
- Fits into adjustable guide or plain die stock

Adjustable Round Dies



1", 1-1/2", 2" and 3" Overall Diameter

- Ideal for a precision threading with the adjustment of die made by set screw
- Adjustable dies allow the user to under or over cut their threads
- Fits into adjustable guide or plain die stock handles
- Meets Federal Specifications GGG-D-296

Tap & Die Description Guide

10-24 NC **Fastener Diameter** 10 - Machine screw size 5/8" - Fractional 8 mm - Metric **Thread Pitch** Threads per inch (machine & fractional) Distance between threads (metric)

Thread Type

NC = National Coarse (USS)

NF = National Fine (SAE)

NS = National Special

NEF = National Extra Fine

NPT = National Pipe Taper BSP = British Standard Pipe

(no thread symbol required for metric fasteners)

Applications

General purpose machines and appliances Automotive parts requiring extreme pressures Special threads - either diameter or threads per inch For optical or thin wall parts For all pipe threads For all pipe threads

Diam/ Type	Decimal Equiv.	Fractional Tap	Machine Screw Tap	Metric Tap	Screw Ext.
1/64"	.0516				
1/32"	.0312				
1.0 mm	.0394				
60	.0400				
59	.0410				
58	.0420				
57	.0430				
56	.0465				
3/64"	.0469		0 - 80 NF		
55	.0520				
54	.0550				
1.5 mm	.0591				
53	.0595		1 - 64 NC 1 - 72NF		
1/16"	.0625				
52	.0635				
51	.0670				
			2 - 56 NC		
50	.0700		2 - 64 NF		
49	.0730				
48	.0760		0 40 NO		EV 4
5/64"	.0781		3 - 48 NC		EX-1
47	.0785				
2.0 mm	.0787				
46	.0810		0 50 NE		
45	.0820		3 - 56 NF		
44	.0860		4 - 36 NS		
43	.0890		4 - 40 NC		
	.0935		4 - 48 NF		
3/32"	.0938		4 - 40 NF	0.00	
41	.0960			3 mm - 0.60	
40	.0980			0.00	
2.5 mm	.0984			3 mm - 0.50	
39	.0995	1/8" - 40 NS	5 - 40 NC	3 mm - 0.50	
37	.1015 .1040	1/0 - 40 NS	5 - 44 NF		
36	.1040		6 - 32 NC		
7/64"	.1003		0 - 32 NO		EX-2
35	.1100				EA-Z
34	.1110		6 - 36 NS		
33	.1130		6 - 40 NF		
32	.1160		6 - 48 NS		
			U - 40 IVS		
3.0 mm	.1181				
31	.1200				
1/8"	.1250			4 0.70	
30	.1285			4 mm - 0.70 4 mm - 0.75	
29	.1360		8 - 32 NC 8 - 36 NF		
3.5 mm	.1378				
28	.1405				

Diam/	Decimal	Fractional	Machine	Metric	Screw
Type	Equiv.	Тар	Screw Tap	Тар	Ext.
9/64"	.1406	8 - 40 NS			ST-1
27	.1440				
26	.1470	3/16"-24 NS			
25	.1495		10 - 24 NC		
24	.1520				
23	.1540				
5/32"	.1562	3/16"-32 NS			EX-3
22	.1570				
4.0 mm	.1575				
21	.1590		10 - 32 NF		
20	.1600			5 mm - 0.90	
19	.1660			5 mm - 0.80	
18	.1695				
11/64"	.1719				
17	.1730				
16	.1770		12 - 24 NC		
4.5 mm	.1772				
15	.1800				
14	.1820		12 - 28 NEF		
13	.1850				
3/16"	.1875				ST-2
12	.1890				
11	.1910				
10	.1935		14 - 20 NS		
9	.1960				
5.0 mm	.1969			6 mm - 1.00	
8	.1990			6 mm - 1.00	
7	.2010	1/4" - 20 NC			
13/64"	.2031	20 110	14 - 24 NS		
6	.2040		14 24 110		
5	.2055				
4	.2090	1/4" - 24 NS			
3	.2130	1/4" - 28 NF			
5.5 mm	.2165	17.1 20.111			
7/32"	.2188	1/4"- 32 NEF			
2	.2210	174 02 NEI			
1	.2280	1/4" - 40 NS			
A	.2340	17 70 100			
15/64"	.2344			7 mm - 1.00	ST-3
6.0 mm	.2362			7 mm - 1.00	01 0
B	.2380			1 111111 1.00	
C	.2420				
D	.2420				
E	.2500				
1/4"					EV /
6.5 mm	.2500 .2559				EX-4
		E/10II 10 NO			
F	.2570	5/16"- 18 NC			

Machine Screw Reference Guide

Before cutting a thread, you must know the rod diameter.

Use the chart at right to determine the appropriate machine screw size:

Machine Screw	Rod Diameter
#0	.060"
#1	.073"
#2	.086"
#3	.099"
#4	.112"
#5	.125"
#6	.138"

Machine Screw	Rod Diameter
#7	.151"
#8	.164"
#9	.179"
#10	.190"
#12	.216"
#14	.242"

Diam/	Decimal	Fractional	Pipe	Metric	Screw
Type	Equiv.	Тар	Тар	Тар	Ext.
G	.2610				
17/64"	.2656			8 mm - 1.25	
H	.2660				
	.2720	5/16"-24 NF			
7.0 mm	.2756			8 mm - 1.00	
J	.2770			8 mm - 1.00	
K	.2810				
9/32"	.2812	5/16"-32 NEF			
L	.2900				
M	.2950				
7.5 mm	.2953				
19/64"	.2969				EX-5
N	.3020			9 mm - 1.25	
5/16"	.3125	3/8"- 16 NC			ST-4
8.0 mm	.3150			9 mm - 1.00	
0	.3160			9 mm - 1.00	
P	.3230			9 mm - 0.75	
21/64"	.3281		1/8" - 28 BSP	0	
Q	.3320	3/8"- 24 NF	1/8" - 27 NPT		
8.5 mm	.3346	0,0 21111		10 mm - 1.50	
R	.3390			10 mm - 1.50	
11/32"	.3438			10 mm - 1.25	
S .	.3480			10 111111 1.20	
9.0 mm	.3543			10 mm - 1.00	
T	.3580			10 mm - 1.00	
23/64"	.3594			10 111111 - 1.00	
U 23/04	.3680	7/16"- 14 NC			
9.5 mm	.3740	1/10 - 14 NG		11 mm 1 E0	
3/8"				11 mm - 1.50	OT E
	.3750			11 mm - 1.50	ST-5
V	.3770				
W OF (CAII	.3806	7/10" 00 NE			
25/64"	.3906	7/16"- 20 NF			
10.0 mm	.3937				
X	.3970				
γ	.4040				
13/32"	.4062			12 mm - 1.75	EX-6
Z	.4130			12 mm - 1.50	
10.5 mm	.4134			12 mm - 1.50	
27/64"	.4219	1/2"- 13 NC		12 mm - 1.25	
11.0 mm	.4331				
7/16"	.4375		1/4" - 18 NPT		
11.5 mm	.4528				
29/64"	.4531	1/2"-20 NF 1/2"-24 NS	1/4" - 19 BSP		
15/32"	.4688			14 mm - 2.00	ST-6
12.0 mm	.4724			14 mm - 2.00	
31/64"	.4844	9/16" - 12 NC			
01/04					

Diam/	Decimal	Fractional	Pipe	Metric	Screw
Туре	Equiv.	Тар	Тар	Тар	Ext.
1/2"	.5000			14 mm - 1.25 14 mm - 1.50	
13.0 mm	.5118			14 mm - 1.25	
33/64"	.5156	9/16"- 18 NF		14 111111 - 1.23	
17/32"	.5313	5/8" - 11 NC			EX-7
35/64"	.5469	3/0 - 11 NG		16 mm - 2.00	L/L
9/16"	.5625		3/8" - 18 NPT	10 111111 - 2.00	ST-7
37/64"	.5781	5/8"- 18 NF	3/0 10 101	16 mm - 1.50	01 1
19/32"	.5938	11/16"-11 NS		10 111111 1.00	
39/64"	.6094	TI/TO TT NO		18 mm - 2.50	
5/8"	.6250	11/16"-16 NS		10 111111 2.00	
41/64"	.6406	11/10 10110			
21/32"	.6562	3/4" - 10 NC		18 mm - 1.50	
43/64"	.6719	0/4 TO NO		10 111111 1.50	
11/16"	.6875	3/4" - 16 NF		20 mm - 2.50	
45/64"	.7031	0/4 - 10 NI	1/2" - 14 NPT	20 111111 - 2.30	
23/32"	.7188		1/2 14 101 1		
47/64"	.7344				
3/4"	.7500				
49/64"	.7656				
25/32"	.7812	7/8" - 9 NC			
51/64"	.7969	170 J NO			
13/16"	.8125	7/8" - 14 NF		22 mm - 1.50	EX-8
53/64"	.8281	1/0 - 14 NI		24 mm - 3.00	LV-0
27/32"	.8438			24 111111 - 3.00	
55/64"	.8594				
7/8"	.8750	1" - 8 NC		24 mm - 2.00	
57/64"	.8906	I ONO		24 111111 2.00	
29/32"	.9062				
59/64"	.9219	1" - 12 NF	3/4" - 14 NPT		
15/16"	.9375	1" - 14 NS	3/4 - 14 101 1		
61/64"	.9531	1 - 14 110			
31/32"	.9688				
63/64"	.9844	1-1/8"- 7 NC			
1"	1.0000	1 1/0 7 10			
1-1/64"	1.0156				
1-1/32"	1.0312				
1-1/16"	1.0625				EX-9
1-3/32"	1.0938				LV-2
1-1/8"	1.1250				
			1" - 11-1/2"		
1-5/32"	1.1562		NPT 11 1/2		
1-3/16"	1.1875				
1-1/4"	1.2500				
1-5/16"	1.3125				
1-3/8"	1.3750				
1-7/16"	1.4375				
1-1/2"	1.5000		1-1/4" - 11-1/2" NPT		

HANSON Adjustable Tap Handle & Reamer Wrenches



12498

- Straight handle design provides greater leverage, especially when using larger diameter taps
- Designed for use with taps, reamers, screw extractors and other tools with a square shank

HANSON Offset Handle Adjustable Tap & Reamer Wrenches



 Straight handle design provides greater leverage, especially when using larger diameter taps

HANSON Tap Adaptors



3095001

- Adaptors feature a 3/8" square drive to accommodate socket wrench or extension
- Designed for use with taps, reamers, screw extractors, and other tools with a square shank
- Not recommended for cutting new threads

HANSON T-Handle Tap Wrenches



- Designed for use with taps, reamers, screw extractors and other tools with a square shank
- Adjusted and tightened to size by twisting knurled nut
- End of TR-50 & TR-73 wrench has 3/8" square drive to accommodate socket wrench or extension when desired

HANSON T-Handle Ratcheting Tap Wrench



- Three position gear box for quick, efficient ratcheting action
- Designed for use with taps, reamers, screw extractors and other tools with a square shank

HANSON Offset Handle Adj. Tap Handle & Reamer Wrenches TR - 21 For Taps No. 0 to 1/2" (3 mm to 12 mm) 12021 12421 TR - 121 For Taps No. 1/4" to 1" (6 mm to 24 mm) — 11212 HANSON Adj. Tap Handle & Reamer Wrenches TR - 88 For Taps No. 0 to 1/2" (3 mm to 12 mm) 12088 311088 TR - 98 For Taps 1/4" to 1" (6 mm to 24 mm) — 12498 HANSON Tap Adaptors 2pc Tap Adaptor Set 2 Sizes for Taps No. 0 to 1/2" 3095001 — Small Tap Adaptor For Taps No. 0 to 1/4" — 3095001A Large Tap Adaptor For Taps 1/4" to 1/2" — 3095001B HANSON T-Handle Tap Wrench TR - 1-1/2E For Taps No. 0 to 1/4" (3 mm to 6 mm) 12001 12401 TR - 2E For Taps No. 12 to 5/16" 12115 12415 TR - 2E For Taps 1/4" to 1/2" (6 mm to 12 mm) 12002 12402 HANSON Tap Wrenches with 3/8" Drive TR - 73* For Taps No. 0 to 1/4" (3 mm - 6 mm) * 12073 12473 TR - 50	Description	Usage	Carded Item #	Bulk Item #		
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TR - 1-1/2E For Taps No. 12 to 5/16" 12115 12415 TR - 2E For Taps 1/4" to 1/2" (6 mm to 12 mm) 12002 12402 HANSON Tap Wrenches with 3/8" Drive TR - 73* For Taps No. 0 to 1/4" (3 mm - 6 mm) * 12073 12473 TR - 50 For Taps 1/4" to 1/2" (6 mm to 12 mm) 12050 12450 HANSON T-Handle Ratcheting Tap Wrench — For Tap Sizes No. 0 to 1/4" (3 mm to 6 mm) 21201 21101 — For Tap Sizes 1/4" to 1/2" (6 mm to 12 mm) 21202 21102	HANSON T-Handle Tap Wrench					
TR - 2E For Taps 1/4" to 1/2" (6 mm to 12 mm) 12002 12402 HANSON Tap Wrenches with 3/8" Drive TR - 73* For Taps No. 0 to 1/4" (3 mm - 6 mm) * 12073 12473 TR - 50 For Taps 1/4" to 1/2" (6 mm to 12 mm) 12050 12450 HANSON T-Handle Ratcheting Tap Wrench — For Tap Sizes No. 0 to 1/4" (3 mm to 6 mm) 21201 21101 — For Tap Sizes 1/4" to 1/2" (6 mm to 12 mm) 21202 21102	TR - 1E	For Taps No. O to 1/4" (3 mm to 6 mm)	12001	12401		
HANSON Tap Wrenches with 3/8" Drive TR - 73* For Taps No. 0 to 1/4" (3 mm - 6 mm) * 12073 12473 TR - 50 For Taps 1/4" to 1/2" (6 mm to 12 mm) 12050 12450 HANSON T-Handle Ratcheting Tap Wrench - For Tap Sizes No. 0 to 1/4" (3 mm to 6 mm) 21201 21101 - For Tap Sizes 1/4" to 1/2" (6 mm to 12 mm) 21202 21102	TR - 1-1/2E	For Taps No. 12 to 5/16"	12115	12415		
TR - 73* For Taps No. 0 to 1/4" (3 mm - 6 mm) * 12073 12473 TR - 50 For Taps 1/4" to 1/2" (6 mm to 12 mm) 12050 12450 HANSON T-Handle Ratcheting Tap Wrench - For Tap Sizes No. 0 to 1/4" (3 mm to 6 mm) 21201 21101 - For Tap Sizes 1/4" to 1/2" (6 mm to 12 mm) 21202 21102	TR - 2E	For Taps 1/4" to 1/2" (6 mm to 12 mm)	12002	12402		
TR - 50 For Taps 1/4" to 1/2" (6 mm to 12 mm) 12050 12450 HANSON T-Handle Ratcheting Tap Wrench - For Tap Sizes No. 0 to 1/4" (3 mm to 6 mm) 21201 21101 - For Tap Sizes 1/4" to 1/2" (6 mm to 12 mm) 21202 21102	HANSON Tap Wrenches with 3/8" Drive					
HANSON T-Handle Ratcheting Tap Wrench — For Tap Sizes No. 0 to 1/4" (3 mm to 6 mm) 21201 21101 — For Tap Sizes 1/4" to 1/2" (6 mm to 12 mm) 21202 21102	TR - 73*	For Taps No. 0 to 1/4" (3 mm - 6 mm) *	12073	12473		
- For Tap Sizes No. 0 to 1/4" (3 mm to 6 mm) 21201 21101 - For Tap Sizes 1/4" to 1/2" (6 mm to 12 mm) 21202 21102	TR - 50	For Taps 1/4" to 1/2" (6 mm to 12 mm)	12050	12450		
- For Tap Sizes 1/4" to 1/2" (6 mm to 12 mm) 21202 21102	HANSON T-Handle Ratcheting Tap Wrench					
	_	For Tap Sizes No. 0 to 1/4" (3 mm to 6 mm)	21201	21101		
– 10" Extended Length for Tap Sizes #0 - 1/4" (3 mm to 6 mm) 21210 21110	-	For Tap Sizes 1/4" to 1/2" (6 mm to 12 mm)	21202	21102		
	_	10" Extended Length for Tap Sizes #0 - 1/4" (3 mm to 6 mm)	21210	21110		
– 12" Extended Length for Tap Sizes 1/4" - 1/2" (6 mm to 12 mm) 21212 21112	-	12" Extended Length for Tap Sizes 1/4" - 1/2" (6 mm to 12 mm)	21212	21112		

*Note: TR-73 comes with a hexagon nut