

24 HOUR DELIVERY!



The Advantages of WESTport TAPS & DIES

ISO 9001 & ISO/IEC 17025

WESTport is an ISO 9001 registered and ISO/IEC 17025 accredited company.

Superior Quality

WESTport tap and dies are made of only the highest quality high speed steel, carbide and cobalt.

Highest Accuracy

WESTport tap and dies are manufactured to the high end of industry standards providing superior precision and longer wearability.

Custom Specials

WESTport will custom make any tap blank to your blueprint specifications with the fastest turnaround time the industry has to offer.

Largest Stocking Inventory

WESTport has one of the largest stocking inventories of tap blank sizes available for immediate delivery.

Guaranteed Lowest Prices

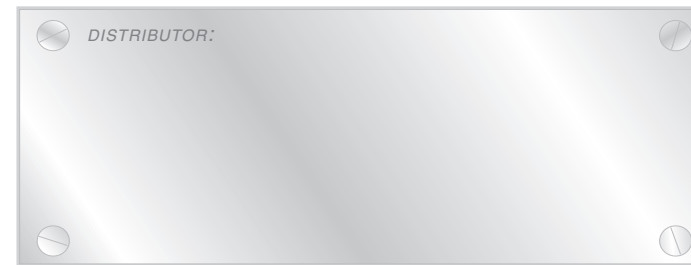
WESTport always guarantees to beat any competitor's price on any of the products we manufacture.

Quality Control

WESTport maintains a strict Quality Control Program that exceeds industry standards.

Prompt & Courteous Service

Call us on our 800 numbers, fax, email or order online—24/7. Your order will be processed the same business day to insure on-time delivery.



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WESTport CORPORATION

"Need It Tomorrow, Call Us Today"

24 HOUR DELIVERY!



Special Taps & Dies

An ISO 9001 Registered and ISO/IEC 17025 Accredited Company

Pub No. 0104, Litho in U.S.A. Prices subject to change without notice.



At WESTport we considerate it a privilege to be an approved supplier of taps and dies for your company. We will work hard every day to exceed your expectations.

When you need a popular special tap or die in a hurry or need one made to your blueprint, you can count on WESTport to provide you with on-time delivery. WESTport is ISO 9001 and ISO/IEC 17025 accredited and will always provide you with the highest quality standards.

WESTport Tap and Die is part of the WESTport family of industrial tool companies. Our sister companies WESTport Gage, WESTport-Fox Valley Metrology, WESTport Hardness Testing and WESTport Industrial Tool Supply are proud to be your one-stop shop for all your manufacturing needs.

In today's demanding marketplace requiring world-class products and services, we are proud to be an approved supplier to many of the worlds largest corporations. We take great pride in being your industry leader and providing you with "Quality you can Trust".

On behalf of the entire WESTport family, thank you for your continued support at our "one stop shop" for all your quality assurance needs.

With great appreciation,

Robert Forbes
President/CEO

Quality Assurance
Guarantee

- Ace Electric
- ALCOA Aluminum
- Allegheny Ludlum Corp.
- Allied Signal
- Badger Meter, Inc.
- Bausch & Lomb
- B.F. Goodrich
- Black & Decker
- Boeing
- Brown & Sharpe Mfg. Co.
- Caterpillar, Inc.
- Coltec Industries
- Delco-Remy
- Dow-Corning
- Dresser Industries
- Electrolux
- Eaton Corp.
- Ford Motor Co.
- General Electric
- General Motors
- Gibraltar Steel
- Harley Davidson
- Honda
- Honeywell Inc.
- Ingersoll-Rand
- Latrobe Steel Co.
- Lindberg Heat Treating
- Lukens Steel
- Mercury Marine
- Moen Corp.
- Northrop Grumman
- Nucor Fastener
- Olin Corp.
- Parker Hannifin
- Pratt & Whitney
- Pridgeon and Clay, Inc.
- Purolator
- Robert Bosch Corp.
- Rockwell International
- Rolax Co.
- Ryobi Outdoor Products
- Schlumberger Industries
- Skil
- Smith and Wesson
- Snap-On Tools
- Timken Company
- U.S. Army
- U.S. Navy
- U.S. Steel
- Vickers Inc.
- Westinghouse Electric Corp.

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Popular Special Taps & Dies (Inches) *Continued*

Size	Description	Part Number		Price/Quantity Levels											
		Taper	Plug	Bottom	1	2	3	6	12	24	48				
#6-40 (continued)	H2 3FL STI TAP		31041	31042	13.23	13.23	13.23	13.23	11.45	11.45	11.45				
	H2 3FL TAP	85072	85073	85074	5.88	5.88	5.88	5.88	5.88	5.88	5.88				
	H3 4FL LH TAP	31319	31320	31321	5.04	5.04	5.04	5.04	5.04	5.04	5.04				
	HSS RASD 1 OD		39231		16.38	16.38	16.38	16.38	16.38	16.38	16.38				
	HSS RASD 1 OD LH		39098		19.74	19.74	19.74	19.74	19.74	19.74	19.74				
#8-32	HSS RASD 13/16 OD		39229		13.02	13.02	13.02	13.02	13.02	13.02	13.02				
	HSS RASD 13/16 OD LH		39096		17.85	17.85	17.85	17.85	17.85	17.85	17.85				
	H1 3FL STI TAP		31043	31044	13.23	13.23	13.23	13.23	11.45	11.45	11.45				
	H1 4FL TAP	85076	85077	85078	7.04	7.04	7.04	7.04	7.04	7.04	7.04				
	H2 2FL STI SPPT TAP		31203		14.60	14.60	14.60	14.60	12.81	12.81	12.81				
	H2 3FL STI TAP		31045	31046	13.23	13.23	13.23	13.23	11.45	11.45	11.45				
	H2 4FL TAP	85080	85081	85082	5.88	5.88	5.88	5.88	5.88	5.88	5.88				
	H3 2FL STI SPPT TAP		31204		14.60	14.60	14.60	14.60	12.81	12.81	12.81				
	H3 3FL STI TAP		31047	31048	13.23	13.23	13.23	13.23	11.45	11.45	11.45				
	H3 4FL LH TAP	31322	31323	31324	4.94	4.94	4.94	4.94	4.94	4.94	4.94				
	H3 4FL TAP	85084	85085	85086	5.78	5.78	5.78	5.78	5.78	5.78	5.78				
	HSS RASD 1 OD		39234		16.38	16.38	16.38	16.38	16.38	16.38	16.38				
	HSS RASD 1 OD LH		39101		19.74	19.74	19.74	19.74	19.74	19.74	19.74				
	HSS RASD 13/16 OD		39232		13.02	13.02	13.02	13.02	13.02	13.02	13.02				
	HSS RASD 13/16 OD LH		39099		17.85	17.85	17.85	17.85	17.85	17.85	17.85				
#8-36	H1 2FL STI SPPT TAP		31205		14.60	14.60	14.60	14.60	12.81	12.81	12.81				
	H1 3FL STI TAP		31049	31050	13.23	13.23	13.23	13.23	11.45	11.45	11.45				
	H1 4FL TAP	85088	85089	85090	7.04	7.04	7.04	7.04	7.04	7.04	7.04				
	H2 2FL STI SPPT TAP		31206		14.60	14.60	14.60	14.60	12.81	12.81	12.81				
	H2 3FL STI TAP		31051	31052	13.23	13.23	13.23	13.23	11.45	11.45	11.45				
	H2 4FL TAP	85092	85093	85094	5.88	5.88	5.88	5.88	5.88	5.88	5.88				
	H3 2FL STI SPPT TAP		31207		14.60	14.60	14.60	14.60	12.81	12.81	12.81				
	H3 3FL STI TAP		31053	31054	13.23	13.23	13.23	13.23	11.45	11.45	11.45				
	H3 4FL LH TAP	31325	31326	31327	5.04	5.04	5.04	5.04	5.04	5.04	5.04				
	HSS RASD 1 OD		39235		16.38	16.38	16.38	16.38	16.38	16.38	16.38				
	HSS RASD 1 OD LH		39102		19.74	19.74	19.74	19.74	19.74	19.74	19.74				
	HSS RASD 13/16 OD		39233		13.02	13.02	13.02	13.02	13.02	13.02	13.02				
	HSS RASD 13/16 OD LH		39100		17.85	17.85	17.85	17.85	17.85	17.85	17.85				
	#10-24	H1 4FL TAP	85096	85097	85098	6.09	6.09	6.09	6.09	6.09	6.09	6.09			
		H2 2FL STI SPPT TAP		31208		15.75	15.75	15.75	15.75	13.76	13.76	13.76			
H2 3FL STI TAP			31055	31056	14.18	14.18	14.18	14.18	12.18	12.18	12.18				
H2 4FL TAP		85100	85101	85102	6.09	6.09	6.09	6.09	6.09	6.09	6.09				
H3 2FL STI SPPT TAP			31209		15.75	15.75	15.75	15.75	13.76	13.76	13.76				
H3 3FL STI TAP			31057	31058	14.18	14.18	14.18	14.18	12.18	12.18	12.18				
H3 4FL LH TAP		31328	31329	31330	4.94	4.94	4.94	4.94	4.94	4.94	4.94				
H3 4FL TAP		85104	85105	85106	5.88	5.88	5.88	5.88	5.88	5.88	5.88				
HSS RASD 1 OD			39238		16.38	16.38	16.38	16.38	16.38	16.38	16.38				
HSS RASD 1 OD LH			39105		19.74	19.74	19.74	19.74	19.74	19.74	19.74				
HSS RASD 13/16 OD			39236		13.02	13.02	13.02	13.02	13.02	13.02	13.02				
HSS RASD 13/16 OD LH			39103		17.85	17.85	17.85	17.85	17.85	17.85	17.85				
#10-32		H1 4FL TAP	85108	85109	85110	6.09	6.09	6.09	6.09	6.09	6.09	6.09			
		H2 2FL STI SPPT TAP		31210		15.75	15.75	15.75	15.75	13.76	13.76	13.76			
		H2 3FL STI TAP		31059	31060	14.18	14.18	14.18	14.18	12.18	12.18	12.18			
	H2 4FL TAP	85112	85113	85114	6.09	6.09	6.09	6.09	6.09	6.09	6.09				
	H3 2FL STI SPPT TAP		31211		15.75	15.75	15.75	15.75	13.76	13.76	13.76				
	H3 3FL STI TAP		31061	31062	14.18	14.18	14.18	14.18	12.18	12.18	12.18				
	H3 4FL LH TAP	31331	31332	31333	4.94	4.94	4.94	4.94	4.94	4.94	4.94				
	H3 4FL TAP	85116	85117	85118	5.88	5.88	5.88	5.88	5.88	5.88	5.88				
	HSS RASD 1 OD		39239		16.38	16.38	16.38	16.38	16.38	16.38	16.38				
	HSS RASD 1 OD LH		39106		19.74	19.74	19.74	19.74	19.74	19.74	19.74				
	HSS RASD 13/16 OD		39237		13.02	13.02	13.02	13.02	13.02	13.02	13.02				
	HSS RASD 13/16 OD LH		39104		17.85	17.85	17.85	17.85	17.85	17.85	17.85				
	#12-24	H2 2FL STI SPPT TAP		31212		16.07	16.07	16.07	16.07	14.07	14.07	14.07			
		H2 3FL STI TAP		31063	31064	14.49	14.49	14.49	14.49	12.39	12.39	12.39			
		H3 2FL STI SPPT TAP		31213		16.07	16.07	16.07	16.07	14.07	14.07	14.07			
H3 3FL STI TAP			31065	31066	14.49	14.49	14.49	14.49	12.39	12.39	12.39				
H3 4FL LH TAP		31334	31335	31336	5.15	5.15	5.15	5.15	5.15	5.15	5.15				
H3 4FL TAP		85120	85121	85122	6.30	6.30	6.30	6.30	6.30	6.30	6.30				
HSS RASD 1 OD			39242		16.38	16.38	16.38	16.38	16.38	16.38	16.38				
HSS RASD 1 OD LH			39109		19.74	19.74	19.74	19.74	19.74	19.74	19.74				
HSS RASD 13/16 OD			39240		13.02	13.02	13.02	13.02	13.02	13.02	13.02				

Please Note: Due to circumstances beyond our control, there are wide fluctuations in the price of HSS in the world market. If there is a surcharge, it will be added to the price and quoted at the time of purchase.

Popular Special Taps & Dies (Inches) *Continued*

Size	Description	Part Number		Price/Quantity Levels										
		Taper	Plug	Bottom	1	2	3	6	12	24	48			
#12-24 (continued)	HSS RASD 13/16 OD LH		39107		17.85	17.85	17.85	17.85	17.85	17.85	17.85			
	H1 4FL TAP	85124	85125	85126	7.46	7.46	7.46	7.46	7.46	7.46	7.46			
	H3 4FL LH TAP	31337	31338	31339	5.15	5.15	5.15	5.15	5.15	5.15	5.15			
	H3 4FL TAP	85128	85129	85130	7.04	7.04	7.04	7.04	7.04	7.04	7.04			
	HSS RASD 1 OD		39243		16.38	16.38	16.38	16.38	16.38	16.38	16.38			
#12-28	HSS RASD 1 OD LH		39110		19.74	19.74	19.74	19.74	19.74	19.74	19.74			
	HSS RASD 13/16 OD		39241		13.02	13.02	13.02	13.02	13.02	13.02	13.02			
	HSS RASD 13/16 OD LH		39108		17.85	17.85	17.85	17.85	17.85	17.85	17.85			
	NPT 4FL TAP		62121		12.60	12.60	12.60	12.60	10.82	10.82	10.82			
	NPT LH TAP		31306		60.06	43.05	28.98	18.90	11.76	11.76	11.76			
	NPT 4FL SMALL SHANK TAP		62007		12.60	12.60	12.60	12.60	10.82	10.82	10.82			
	NPT 4FL TAP		62122		12.60	12.60	12.60	12.60	10.82	10.82	10.82			
	NPT LH TAP		31307		61.43	44.10	30.35	20.37	12.81	12.81	12.81			
	55 DEGREE MOD BSPP RH		31537		14.39	14.39	14.39	14.39	14.39	12.60	10.82			
	55 DEGREE MOD BSPT RH		31528		14.39	14.39	14.39	14.39	14.39	12.60	10.82			
	H3 4FL TAP	36350	36351	36352	73.92	48.51	33.08	21.00	11.66	8.82	8.30			
	LH 2G ACME TANDEM 4FL		37086		65.31	65.31	65.31	59.54	59.54	59.54	59.54			
	RH 2G ACME TANDEM 4FL		37087		65.31	65.31	65.31	59.54	59.54	59.54	59.54			
	#14-18	NPSF 4FL 6 OAL TAP		36358		44.10	39.69	39.69	36.44					

Popular Special Taps & Dies (Inches) *Continued*

Size	Description	Part Number		Price/Quantity Levels							
		Taper	Plug	Bottom	1	2	3	6	12	24	48
1/4-28	+ .003 2FL SPPT		36388		65.84	47.15	31.71	15.12	11.87	9.66	9.14
	+ .003 4FL TAP	36385	36386	36387	65.10	46.31	30.87	14.39	11.03	8.82	8.30
	+ .005 2FL SPPT		36392		7.25	7.25	7.25	7.25	7.25	7.25	7.25
	+ .005 4FL TAP	36389	36390	36391	6.41	6.41	6.41	6.41	6.41	6.41	6.41
	CARBON HEX DIE		39247		5.25	5.25	5.25	5.25	5.25	5.25	5.25
	CBN HEX DIE LH		39376		14.49	14.49	14.49	14.49	14.49	14.49	14.49
	H2 3FL STI TAP		31071	31072	14.49	14.49	14.49	14.49	12.39	12.39	12.39
	H2 3FL STI SPPT TAP		31216		16.07	16.07	16.07	16.07	14.07	14.07	14.07
	H3 2FL 6 OAL SMSH SP		36399		25.41	25.41	25.41	25.41	25.41	25.41	25.41
	H3 2FL CARBIDE SPPT		38234		93.77	88.20	84.95	81.59	80.54	68.36	67.31
	H3 3FL STI TAP		31073	31074	14.49	14.49	14.49	14.49	12.39	12.39	12.39
	H3 3FL STI SPPT TAP		31217		16.07	16.07	16.07	16.07	14.07	14.07	14.07
	H3 4FL 6 OAL TAP	36396	36397	36398	15.44	15.44	15.44	15.44	15.44	15.44	15.44
	H3 4FL CARBIDE TAP	38245	38246	38247	88.20	82.74	79.38	77.18	74.97	62.90	61.74
	H3 4FL LH TAP	31343	31344	31345	5.67	5.67	5.67	5.67	5.67	5.67	5.67
	H3 DBLD 4FL TAP	36393	36394	36395	91.56	67.31	45.26	21.00	16.59	13.23	12.18
	HSS RASD 1 1/2 OD		39251		25.10	25.10	25.10	25.10	25.10	25.10	25.10
	HSS RASD 1 1/2 OD LH		39116		26.88	26.88	26.88	26.88	26.88	26.88	26.88
	HSS RASD 1 OD		39249		16.38	16.38	16.38	16.38	16.38	16.38	16.38
	HSS RASD 1 OD LH		39114		19.74	19.74	19.74	19.74	19.74	19.74	19.74
	HSS RASD 13/16 OD		39246		13.02	13.02	13.02	13.02	13.02	13.02	13.02
	HSS RASD 13/16 OD LH		39112		17.85	17.85	17.85	17.85	17.85	17.85	17.85
	HSS RASD 2 OD		39407		34.97	34.97	34.97	34.97	34.97	34.97	34.97
	HSS RASD 2 OD LH		39118		49.56	49.56	49.56	49.56	49.56	49.56	49.56
1/4-32	H3 2FL SPPT TAP		36407		20.48	16.91	12.18	9.98	7.25	7.25	6.62
	H3 4FL TAP	31237	31238	31239	4.31	4.31	4.31	4.31	4.31	4.31	4.31
	HSS RASD 1 OD		39751		54.08	39.69	34.23	23.21	21.53	18.80	18.27
	LH H3 4FL TAP	36404	36405	36406	63.95	41.90	39.69	18.80	14.39	11.66	11.24
	H2 4FL TAP	36008	36009	36010	25.41	18.27	18.27	12.29	8.30	7.46	7.46
	HSS RASD RH 1 OD		86502		24.89	24.89	24.89	24.89	24.89	24.89	24.89
1/4-36	H2 2FL SPPT TAP		36408		27.62	20.48	17.12	10.82	8.82	8.61	7.77
1/4-40	H2 2FL SPPT		36409		27.62	20.48	17.12	10.82	8.82	8.61	7.77
	H2 4FL TAP	36012	36013	36014	25.41	18.27	18.27	12.29	8.30	7.46	7.46
	HSS RASD RH 1 OD		86503		24.89	24.89	24.89	24.89	24.89	24.89	24.89
1/4-48	H2 4FL TAP	36016	36017	36018	25.41	18.27	18.27	12.29	8.30	7.46	7.46
	HSS RASD RH 1 OD		86504		24.89	24.89	24.89	24.89	24.89	24.89	24.89
1/4-56	H2 4FL TAP	36410	36411	36412	26.46	19.32	16.59	9.98	7.88	7.77	6.93
	HSS RASD 1 OD		39752		55.13	41.37	36.44	23.73	21.53	18.27	18.27
1/4-80	H2 4FL TAP	36413	36414	36415	67.31	52.40	35.91	17.12	14.39	11.24	10.29
	HSS RASD 1 OD		39753		55.13	41.37	36.44	23.73	21.53	18.27	18.27
5/16-12	LH 2G ACME TANDEM 4FL		37139		59.96	59.96	59.96	49.46	49.46	49.46	49.46
	RH 2G ACME TANDEM 4FL		37140		59.96	59.96	59.96	49.46	49.46	49.46	49.46
5/16-18	+ .003 2FL SPPT TAP		36419		66.15	50.72	35.18	16.07	13.02	10.50	8.61
	+ .003 4FL TAP	36416	36417	36418	65.10	49.67	34.02	14.91	12.18	9.45	7.56
	+ .005 2FL SPPT TAP		36421		8.40	8.40	8.40	7.77	7.77	7.77	7.77
	+ .005 4FL TAP	36420	36782	36783	8.09	8.09	8.09	8.09	7.35	7.35	7.35
	+ .010 4FL TAP	36422	36423	36424	81.90	57.23	40.11	19.85	15.02	12.08	11.76
	CARBON HEX DIE		39253		5.99	5.99	5.99	5.99	5.99	5.99	5.99
	CBN HEX DIE LH		39377		14.81	14.81	14.81	14.81	14.81	14.81	14.81
	H3 2FL 6 OAL SMSH SPPT		36431		17.43	17.43	17.43	17.43	17.43	17.43	17.43
	H3 3FL STI SPPT TAP		31218		17.12	17.12	17.12	17.12	15.02	15.02	15.02
	H3 4FL 6 OAL TAP	36428	36429	36430	16.59	16.59	16.59	16.59	16.59	16.59	16.59
	H3 4FL 8 OAL TAP	36432	36433	36434	19.64	19.32	18.80	18.27	18.27	18.27	17.64
	H3 4FL CARBIDE TAP	38248	38249	38250	123.48	112.46	104.79	93.77	89.36	81.59	80.54
	H3 4FL DBLD TAP	36425	36426	36427	93.77	69.20	47.46	23.21	18.27	14.39	14.39
	H3 4FL LH TAP	31346	31347	31348	6.20	6.20	6.20	6.20	6.20	6.20	6.20
	H3 4FL STI TAP		31075	31076	15.65	15.65	15.65	15.65	13.44	13.44	13.44
	H4 3FL STI SPPT TAP		31219		17.12	17.12	17.12	17.12	15.02	15.02	15.02
	H4 4FL STI TAP		31077	31078	15.65	15.65	15.65	15.65	13.44	13.44	13.44
	HSS RASD 1 1/2 OD		39258		25.10	25.10	25.10	25.10	25.10	25.10	25.10
	HSS RASD 1 1/2 OD LH		39123		26.88	26.88	26.88	26.88	26.88	26.88	26.88
	HSS RASD 1 OD		39256		16.38	16.38	16.38	16.38	16.38	16.38	16.38
	HSS RASD 1 OD LH		39121		19.74	19.74	19.74	19.74	19.74	19.74	19.74
	HSS RASD 13/16 OD		39252		13.02	13.02	13.02	13.02	13.02	13.02	13.02
	HSS RASD 13/16 OD LH		39119		17.85	17.85	17.85	17.85	17.85	17.85	17.85
	HSS RASD 2 OD		39408		34.97	34.97	34.97	34.97	34.97	34.97	34.97

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Popular Special Taps & Dies (Inches) *Continued*

Size	Description	Part Number		Price/Quantity Levels							
		Taper	Plug	Bottom	1	2	3	6	12	24	48
5/16-18 (continued)	HSS RASD 2 OD LH		39125		49.56	49.56	49.56	49.56	49.56	49.56	49.56
	H3 2FL CARBIDE SPPT		38235		130.10	118.02	110.25	99.23	94.82	87.15	86.00
5/16-20	H3 4FL TAP	36020	36021	36022	26.46	18.80	18.80	13.23	9.03	7.88	7.88
	HSS RASD RH 1 OD		86505		24.89	24.89	24.89	24.89	24.89	24.89	24.89
5/16-24	+ .005 2FL SPPT		36442		8.40	8.40	8.40	8.40	8.40	8.40	8.40
	+ .005 4FL TAP	36439	36440	36441	8.09	8.09	8.09	8.09	8.09	8.09	8.09
	CARBON HEX DIE		39255		5.99	5.99	5.99	5.99	5.99	5.99	5.99
	CBN HEX DIE LH		39378		14.81	14.81	14.81	14.81	14.81	14.81	14.81
	H2 3FL STI SPPT TAP		31220		17.12	17.12	17.12	17.12	15.02	15.02	15.02
	H2 4FL STI TAP		31079	31080	15.65	15.65	15.65	15.65	13.44	13.44	13.44
	H3 2FL 6 OAL SMSH SP P		36446		17.43	17.43	17.43	17.43	17.43	17.43	17.43
	H3 2FL CARBIDE SPPT		38236		130.10	118.02	110.25	99.23	94.82	87.15	86.00
	H3 3FL STI SPPT TAP		31221		17.12	17.12	17.12	17.12	15.02	15.02	15.02
	H3 4FL 6 OAL TAP	36443	36444	36445	16.59	16.59	16.59	16.59	16.59	16.59	16.59
	H3 4FL CARBIDE TAP	38251	38252	38253	123.48	112.46	104.79	93.77	89.36	81.59	80.54
	H3 4FL LH TAP	31349	31350	31351	6.20	6.20	6.20	6.20	6.20	6.20	6.20
	H3 4FL STI TAP		31081	31082	15.65	15.65	15.65	15.65	13.44	13.44	13.44
	HSS RASD 1 1/2 OD		39259		25.10	25.10	25.10	25.10	25.10	25.10	25.10
	HSS RASD 1 1/2 OD LH		39124		26.88	26.88	26.88	26.88	26.88	26.88	26.88
	HSS RASD 1 OD		39257		16.38	16.38	16.38	16.38	16.38	16.38	16.38
	HSS RASD 1 OD LH		39122		19.74	19.74	19.74	19.74	19.74	19.74	19.74
	HSS RASD 13/16 OD		39254		13.02	13.02	13.02	13.02	13.02	13.02	13.02
	HSS RASD 13/16 OD LH		39120		17.85	17.85	17.85	17.85	17.85	17.85	17.85
	HSS RASD 2 OD		39409		34.97	34.97	34.97	34.97	34.97	34.97	34.97
	HSS RASD 2 OD LH		39126		49.56	49.56	49.56				

Popular Special Taps & Dies (Inches) *Continued*

Size	Description	Part Number			Price/Quantity Levels							
		Taper	Plug	Bottom	1	2	3	6	12	24	48	
5/8-24 (continued)	HSS RASD 1 1/2 OD		39762		63.95	54.08	43.05	34.23	32.03	32.03	32.03	
5/8-27	H3 6FL TAP	36116	36117	36118	52.50	31.92	31.92	23.31	17.54	17.01	17.01	
	HSS RASD RH 1 1/2 OD		86527		31.92	31.92	31.92	31.92	31.92	31.92	31.92	
5/8-28	H3 6FL TAP	36648	36649	36650	55.76	33.92	32.87	21.00	18.80	18.80	17.64	
	HSS RASD 1 1/2 OD		39763		63.95	54.08	43.05	34.23	32.03	32.03	32.03	
5/8-32	H3 6FL TAP	36120	36121	36122	52.50	31.92	31.92	23.31	17.54	17.01	17.01	
	HSS RASD RH 1 1/2 OD		86528		31.92	31.92	31.92	31.92	31.92	31.92	31.92	
.664-32	CBN HEX #3 LCKNT DIE		40006		55.76	41.79	30.66	21.53	21.53	21.53	21.53	
	HSS HEX #3 LCKNT DIE		40007		81.27	62.58	47.15	34.76	34.76	34.76	34.76	
11/16-11	CARBON HEX DIE		39287		13.13	13.13	13.13	13.13	13.13	13.13	13.13	
	CBN HEX DIE LH		39389		17.96	17.96	17.96	17.96	17.96	17.96	17.96	
	H3 4FL LH TAP	31382	31383	31384	21.84	21.84	21.84	21.84	21.84	21.84	21.84	
	HSS RASD 1 1/2 OD		39428		28.35	28.35	28.35	28.35	28.35	28.35	28.35	
	HSS RASD 1 1/2 OD LH		39161		30.14	30.14	30.14	30.14	30.14	30.14	30.14	
	HSS RASD 2 1/2 OD		39430		47.88	47.88	47.88	47.88	47.88	47.88	47.88	
	HSS RASD 2 1/2 OD LH		39165		52.71	52.71	52.71	52.71	52.71	52.71	52.71	
	HSS RASD 2 OD		39286		34.97	34.97	34.97	34.97	34.97	34.97	34.97	
	HSS RASD 2 OD LH		39163		49.56	49.56	49.56	49.56	49.56	49.56	49.56	
11/16-16	CARBON HEX DIE		39289		13.13	13.13	13.13	13.13	13.13	13.13	13.13	
	CBN HEX DIE LH		39390		17.96	17.96	17.96	17.96	17.96	17.96	17.96	
	H3 4FL LH TAP	31385	31386	31387	21.84	21.84	21.84	21.84	21.84	21.84	21.84	
	HSS RASD 1 1/2 OD		39429		28.35	28.35	28.35	28.35	28.35	28.35	28.35	
	HSS RASD 1 1/2 OD LH		39162		30.14	30.14	30.14	30.14	30.14	30.14	30.14	
	HSS RASD 2 1/2 OD		39431		47.88	47.88	47.88	47.88	47.88	47.88	47.88	
	HSS RASD 2 1/2 OD LH		39166		52.71	52.71	52.71	52.71	52.71	52.71	52.71	
	HSS RASD 2 OD		39288		34.97	34.97	34.97	34.97	34.97	34.97	34.97	
	HSS RASD 2 OD LH		39164		49.56	49.56	49.56	49.56	49.56	49.56	49.56	
11/16-18	H3 6FL TAP	36124	36125	36126	55.13	35.81	35.81	25.73	20.06	19.32	19.32	
	HSS RASD RH 2 OD		86529		42.95	42.95	42.95	42.95	42.95	42.95	42.95	
	LH H3 6FL TAP	36651	36652	36653	89.36	67.31	49.67	29.82	25.94	22.05	19.85	
11/16-20	H3 6FL TAP	36128	36129	36130	55.13	35.81	35.81	25.73	20.06	19.32	19.32	
	HSS RASD RH 2 OD		86530		42.95	42.95	42.95	42.95	42.95	42.95	42.95	
11/16-24	H3 6FL TAP	31258	31259	31260	13.76	13.76	13.76	13.76	13.76	13.76	13.76	
11/16-28	H3 6FL TAP	36654	36655	36656	59.01	38.64	37.49	23.73	21.53	21.00	18.80	
11/16-32	H3 6FL TAP	36132	36133	36134	55.13	35.81	35.81	25.73	20.06	19.32	19.32	
	HSS RASD RH 2 OD		86531		42.95	42.95	42.95	42.95	42.95	42.95	42.95	
3/4-5	LH 2G ACME FINISHER 4FL		37116		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
	LH 2G ACME ROUGHEN 4FL		37115		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
	RH 2G ACME FINISHER 4FL		37097		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
	RH 2G ACME ROUGHEN 4FL		37096		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
3/4-6	LH 2G ACME FINISHER 4FL		37118		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
	LH 2G ACME ROUGHEN 4FL		37117		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
	LH 2G ACME TANDEM 4FL		37072		104.16	104.16	104.16	93.77	93.77	93.77	93.77	
	LH ACME RH SPIRAL TANDEM 4FL		37312		136.50	136.50	136.50	136.50	136.50	136.50	136.50	
	RH 2G ACME FINISHER 4FL		37002		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
	RH 2G ACME ROUGHEN 4FL		37098		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
	RH 2G ACME TANDEM 4FL		37073		104.16	104.16	104.16	93.77	93.77	93.77	93.77	
	RH ACME LH SPIRAL TANDEM 4FL		37302		136.50	136.50	136.50	136.50	136.50	136.50	136.50	
3/4-8	LH 2G ACME FINISHER 4FL		37120		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
	LH 2G ACME ROUGHEN 4FL		37119		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
	LH 2G ACME TANDEM 4FL		37092		104.16	104.16	104.16	93.77	93.77	93.77	93.77	
	RH 2G ACME FINISHER 4FL		37100		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
	RH 2G ACME ROUGHEN 4FL		37099		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
	RH 2G ACME TANDEM 4FL		37093		104.16	104.16	104.16	93.77	93.77	93.77	93.77	
3/4-10	+ .005 3FL SPPT		36660		27.09	27.09	27.09	23.21	21.00	21.00	20.48	
	+ .005 4FL TAP	36657	36658	36659	23.73	23.73	23.73	19.85	17.64	17.64	17.12	
	+ .010 4FL TAP	36661	36662	36663	91.04	67.31	51.35	27.09	25.41	23.73	22.05	
	CARBON HEX DIE		39291		16.38	16.38	16.38	16.38	16.38	16.38	16.38	
	CBN HEX DIE LH		39391		18.80	18.80	18.80	18.80	18.80	18.80	18.80	
	H3 3FL 6 OAL SPPT		36667		71.72	71.72	71.72	47.46	41.90	41.90	41.90	
	H3 4FL 10 OAL TAP	36671	36672	36673	90.41	90.41	90.41	66.15	62.90	62.90	62.90	
	H3 4FL 6 OAL TAP	36664	36665	36666	68.36	68.36	68.36	44.10	38.64	38.64	38.64	
	H3 4FL 8 OAL TAP	36668	36669	36670	81.06	78.86	76.65	57.33	55.13	55.13	55.13	
	H3 4FL LH TAP	31388	31389	31390	24.99	24.99	24.99	24.99	24.99	24.99	24.99	
	H3 4FL STI TAP		31123		46.94	46.94	46.94	46.94	39.06	39.06	39.06	
	H4 4FL STI TAP		31125		46.94	46.94	46.94	46.94	39.06	39.06	39.06	

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Popular Special Taps & Dies (Inches) *Continued*

Size	Description	Part Number			Price/Quantity Levels							
		Taper	Plug	Bottom	1	2	3	6	12	24	48	
3/4-10 (continued)	HSS RASD 1 1/2 OD		39432		28.35	28.35	28.35	28.35	28.35	28.35	28.35	
	HSS RASD 1 1/2 OD LH		39167		30.14	30.14	30.14	30.14	30.14	30.14	30.14	
	HSS RASD 2 1/2 OD		39434		47.88	47.88	47.88	47.88	47.88	47.88	47.88	
	HSS RASD 2 1/2 OD LH		39171		52.71	52.71	52.71	52.71	52.71	52.71	52.71	
	HSS RASD 2 OD		39290		34.97	34.97	34.97	34.97	34.97	34.97	34.97	
	HSS RASD 2 OD LH		39169		49.56	49.56	49.56	49.56	49.56	49.56	49.56	
	LH 2G ACME FINISHER 4FL		37122		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
	LH 2G ACME ROUGHEN 4FL		37121		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
	RH 2G ACME FINISHER 4FL		37102		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
	RH 2G ACME ROUGHEN 4FL		37101		59.33	59.33	59.33	47.88	47.88	47.88	47.88	
3/4-11	1/2 GARDEN HOSE 6FL		36674		94.82	80.54	61.74	56.81	51.87	41.37	39.69	
3/4-12	H4 4FL TAP	36136	36137	36138	58.91	38.12	38.12	27.09	22.05	20.90	20.90	
	HSS RASD RH 2 OD		86532		42.95	42.95	42.95	42.95	42.95	42.95	42.95	
3/4-14	55 DEGREE MOD BSPP RH		31541		43.58	43.58	43.58	43.58	39.90	35.91	34.23	
	55 DEGREE MOD BSPT RH		31532		43.58	43.58	43.58	43.58	39.90	35.91	34.23	
	NPSI 5FL		36683		105.84	78.33	64.58	49.14	42.53	39.69	39.17	
	NPT 15° SPIRAL FLUTE		36679		82.22	80.01	78.33	57.96	54.60	52.40	46.94	
	NPT 5FL 6 OAL		36680		70.04	70.04	70.04	67.31	57.96	57.96	57.96	
	NPT 5FL TAP		62126		42.00	42.00	42.00	42.00	38.85	38.85	38.85	
	NPT 6 OAL 5FL INTR		36681		82.74	82.74	82.74	77.18	68.36	68.36	68.36	
	NPT 8 OAL 5FL		36682		87.15	87.15	87.15	81.				

Popular Special Taps & Dies (Inches) Continued

Size	Description	Part Number		Price/Quantity Levels								
		Taper	Plug	Bottom	1	2	3	6	12	24	48	
7/8-6 (continued)	RH 2G ACME TANDEM 4FL		37075		116.66	116.66	116.66	108.05	108.05	108.05	108.05	
	RH ACME LH SPIRAL TANDEM 4FL		37303		152.25	152.25	152.25	152.25	152.25	152.25	152.25	
7/8-9	+ .005 4FL TAP	36706	36707	36708	34.76	34.76	34.76	27.62	25.41	25.41	25.41	
	CARBON HEX DIE		39295		19.74	19.74	19.74	19.74	19.74	19.74	19.74	
	CBN HEX DIE LH		39393		20.06	20.06	20.06	20.06	20.06	20.06	20.06	
	H3 4FL STI TAP		31131	31132	53.66	53.66	53.66	53.66	47.15	47.15	47.15	
	H4 4FL 8 OAL TAP	36709	36710	36711	83.27	81.59	78.86	61.74	57.33	57.33	57.33	
	H4 4FL LH TAP	31394	31395	31396	29.82	29.82	29.82	29.82	29.82	29.82	29.82	
	H5 4FL STI TAP		31133	31134	53.66	53.66	53.66	53.66	47.15	47.15	47.15	
	HSS RASD 2 1/2 OD		39436		47.88	47.88	47.88	47.88	47.88	47.88	47.88	
	HSS RASD 2 1/2 OD LH		39175		52.71	52.71	52.71	52.71	52.71	52.71	52.71	
	HSS RASD 2 OD		39294		38.43	38.43	38.43	38.43	38.43	38.43	38.43	
	HSS RASD 2 OD LH		39173		49.56	49.56	49.56	49.56	49.56	49.56	49.56	
	7/8-10	H4 4FL TAP	36712	36713	36714	70.04	49.67	48.51	34.76	32.03	30.87	26.46
	7/8-12	H4 4FL TAP	36168	36169	36170	66.36	46.31	46.31	36.86	29.19	27.62	27.62
		HSS RASD RH 2 OD		86540		48.51	48.51	48.51	48.51	48.51	48.51	48.51
7/8-14	+ .005 4FL TAP	36715	36716	36717	34.76	34.76	34.76	27.62	25.41	25.41	25.41	
	CARBON HEX DIE		39297		19.74	19.74	19.74	19.74	19.74	19.74	19.74	
	CBN HEX DIE LH		39394		20.06	20.06	20.06	20.06	20.06	20.06	20.06	
	H3 4FL STI TAP		31135	31136	53.66	53.66	53.66	53.66	47.15	47.15	47.15	
	H4 4FL LH TAP	31397	31398	31399	29.82	29.82	29.82	29.82	29.82	29.82	29.82	
	H4 4FL STI TAP		31137	31138	53.66	53.66	53.66	53.66	47.15	47.15	47.15	
	HSS RASD 2 1/2 OD		39437		47.88	47.88	47.88	47.88	47.88	47.88	47.88	
	HSS RASD 2 1/2 OD LH		39176		52.71	52.71	52.71	52.71	52.71	52.71	52.71	
	HSS RASD 2 OD		39296		38.43	38.43	38.43	38.43	38.43	38.43	38.43	
	HSS RASD 2 OD LH		39174		49.56	49.56	49.56	49.56	49.56	49.56	49.56	
	7/8-16	H3 4FL TAP	36172	36173	36174	66.36	46.31	46.31	36.86	29.19	27.62	27.62
		HSS RASD RH 2 OD		86541		48.51	48.51	48.51	48.51	48.51	48.51	48.51
	7/8-18	H3 6FL TAP	36176	36177	36178	66.36	46.31	46.31	36.86	29.19	27.62	27.62
		HSS RASD RH 2 OD		86542		48.51	48.51	48.51	48.51	48.51	48.51	48.51
7/8-20	H3 6FL TAP	31267	31268	31269	21.42	21.42	21.42	21.42	21.42	21.42	21.42	
	HSS RASD 2 OD		39765		84.42	71.72	61.11	48.51	44.10	44.10	44.10	
7/8-24	H3 6FL TAP	36718	36719	36720	97.65	73.40	57.96	39.17	35.28	30.87	27.09	
	HSS RASD 2 OD		39766		84.42	71.72	61.11	48.51	44.10	44.10	44.10	
7/8-27	H3 6FL TAP	36721	36722	36723	97.65	73.40	57.96	39.06	35.28	30.87	27.09	
7/8-32	H3 6FL TAP	36724	36725	36726	97.65	73.40	57.96	39.06	35.28	30.87	27.09	
15/16-12	H4 4FL TAP	36180	36181	36182	68.78	49.14	49.14	39.27	29.82	28.98	28.98	
	HSS RASD RH 2 OD		86543		48.51	48.51	48.51	48.51	48.51	48.51	48.51	
15/16-14	H4 4FL TAP	36727	36728	36729	97.65	73.40	57.96	39.06	35.28	30.87	27.09	
	HSS RASD 2 OD		39768		84.42	71.72	61.11	48.51	44.10	44.10	44.10	
15/16-16	H3 4FL TAP	36184	36185	36186	68.78	49.14	49.14	39.27	29.82	28.98	28.98	
	HSS RASD RH 2 OD		86544		48.51	48.51	48.51	48.51	48.51	48.51	48.51	
15/16-18	H3 6FL TAP	36188	36189	36190	68.78	49.14	49.14	39.27	29.82	28.98	28.98	
	HSS RASD RH 2 OD		86545		48.51	48.51	48.51	48.51	48.51	48.51	48.51	
15/16-20	H3 6FL TAP	31270	31271	31272	22.37	22.37	22.37	22.37	22.37	22.37	22.37	
	HSS RASD 2 OD		39769		84.42	71.72	61.11	48.51	44.10	44.10	44.10	
15/16-32	H3 6FL TAP	36730	36731	36732	99.23	78.33	59.54	42.53	37.49	35.28	32.03	
.969-32	CBN HEX #5 LCKNT DIE		40010		59.75	45.89	34.34	24.68	24.68	24.68	24.68	
	HSS HEX #5 LCKNT DIE		40011		86.21	67.73	51.77	38.75	38.75	38.75	38.75	
1-5	LH 2G ACME FINISHER 4FL		37126		77.60	77.60	77.60	62.16	62.16	62.16	62.16	
	LH 2G ACME RGHR 4FL TAP		37125		77.60	77.60	77.60	62.16	62.16	62.16	62.16	
	LH 2G ACME TNDM 4FL TAP		37076		130.10	130.10	130.10	122.33	122.33	122.33	122.33	
	LH ACME RH SPIRAL TANDEM 4FL		37314		170.10	170.10	170.10	170.10	170.10	170.10	170.10	
	RH 2G ACME FINISHER 4FL		37004		77.60	77.60	77.60	62.16	62.16	62.16	62.16	
	RH 2G ACME ROUGHER 4FL		37104		77.60	77.60	77.60	62.16	62.16	62.16	62.16	
	RH 2G ACME TNDM 4FL TAP		37077		130.10	130.10	130.10	122.33	122.33	122.33	122.33	
	RH ACME LH SPIRAL TANDEM 4FL		37304		170.10	170.10	170.10	170.10	170.10	170.10	170.10	
	+ .005 3FL SPPT TAP		36742		108.05	80.54	66.15	49.67	44.10	39.69	39.69	
	+ .005 4FL TAP	36739	36740	36741	44.10	44.10	44.10	33.08	33.08	33.08	30.87	
	+ .010 4FL TAP	36743	36744	36745	111.41	90.41	88.20	62.90	55.13	49.67	45.26	
	CARBON HEX DIE		39298		20.48	20.48	20.48	20.48	20.48	20.48	20.48	
	CBN HEX DIE LH		39395		22.89	22.89	22.89	22.89	22.89	22.89	22.89	
	H3 4FL STI TAP		31139	31140	64.16	64.16	64.16	64.16	57.96	57.96	57.96	
H4 3FL SPPT		36738		108.68	81.38	66.15	49.14	43.58	39.17	39.17		
H4 4FL 10 OAL TAP	36749	36750	36751	119.07	116.87	115.82	93.77	74.97	74.97	74.97		

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Popular Special Taps & Dies (Inches) Continued

Size	Description	Part Number			Price/Quantity Levels						
		Taper	Plug	Bottom	1	2	3	6	12	24	48
1-8 (continued)	H4 4FL 8 OAL TAP	36746	36747	36748	99.23	98.18	97.02	74.97	65.10	65.10	65.10
	H4 4FL FAST SPIRAL			36734	123.48	104.79	87.15	66.15	61.74	55.13	48.51
	H4 4FL LH TAP	31400	31401	31402	40.64	40.64	40.64	40.64	40.64	40.64	40.64
	H4 4FL SLOW SPIRAL			36733	123.48	104.79	87.15	66.15	61.74	55.13	48.51
	H4 4FL STI TAP		31141	31142	64.16	64.16	64.16	64.16	57.96	57.96	57.96
	H6 4FL STI TAP		31143	31144	64.16	64.16	64.16	64.16	57.96	57.96	57.96
	H6 4FL TAP	36735	36736	36737	105.32	81.06	63.42	46.94	41.90	38.12	38.12
	HSS RASD 2 1/2 OD		39441		47.88	47.88	47.88	47.88	47.88	47.88	47.88
	HSS RASD 2 1/2 OD LH		39179		52.71	52.71	52.71	52.71	52.71	52.71	52.71
	HSS RASD 2 OD		39438		38.43	38.43	38.43	38.43	38.43	38.43	38.43
	HSS RASD 2 OD LH		39177		49.56	49.56	49.56	49.56	49.56	49.56	49.56
	HSS RASD 3 OD		39444		81.06	81.06	81.06	81.06	81.06	81.06	81.06
	HSS RASD 3 OD LH		39181		89.25	89.25	89.25	89.25	89.25	89.25	89.25
	LH 2G ACME FINISHER 4FL		37128		77.60	77.60	77.60	60.69	60.69	60.69	60.69
LH 2G ACME ROUGHER 4FL		37127		77.60	77.60	77.60	60.69	60.69	60.69	60.69	
RH 2G ACME FINISHER 4FL		37106		77.60	77.60	77.60	60.69	60.69	60.69	60.69	
RH 2G ACME ROUGHER 4FL		37105		77.60	77.60	77.60	60.69	60.69	60.69	60.69	
1-10	H4 4FL TAP	36752	36753	36754	82.74	60.69	60.69	39.69	34.23	32.03	30.87
	55 DEGREE MOD BSPP RH		31542		67.31	67.31	67.31	67.31	57.12	51.45	44.00
1-11	55 DEGREE MOD BSPT RH		31533		67.31	67.31	67.31	67.31	57.12	51.45	44.00
	1/2 NPT 5FL 10 OAL TAP		36756		138.92	136.71	135.66	124.64	121.28	118.02	118.02
1-12	1/2 NPT 5FL 6 OAL TAP		36755		101.43	99.23	99.23	92.61	90.41	78.33	78.33
	1/2 NPT 5FL TAP		62127		60.90	60.90	60.90	60.90	57.75	57.75	57.75
	1/2 NPT LH TAP		31312		107.84	79.17	74.55	61.11	49.56	49.56	49.56
	+ .005 4FL TAP	36757	36758	36759	44.10	44.10	44.10	33.08	33.08	33.08	30.87
1-14	CARBON HEX DIE		39299		20.48	20.48	20.48	20.48	20.48	20.48	20.48
	CBN HEX DIE LH		39396								

Popular Special Taps & Dies (Inches) *Continued*

Size	Description	Part Number		Price/Quantity Levels							
		Taper	Plug	Bottom	1	2	3	6	12	24	48
1 3/8-6 (continued)	CBN HEX DIE LH		39402		33.60	33.60	33.60	33.60	33.60	33.60	33.60
	H4 4FL LH TAP	31421	31422	31423	74.87	74.87	74.87	74.87	74.87	74.87	74.87
	H6 6FL STI TAP		31174		115.29	115.29	115.29	115.29	93.03	93.03	93.03
	H6 6FL STI TAP		31173	31174	115.29	115.29	115.29	115.29	93.03	93.03	93.03
	H7 6FL STI TAP		31175	31176	115.29	115.29	115.29	115.29	93.03	93.03	93.03
	H7 6FL STI TAP		31176		115.29	115.29	115.29	115.29	93.03	93.03	93.03
	HSS RASD 3 OD		39455		104.27	104.27	104.27	104.27	104.27	104.27	104.27
1 3/8-8	HSS RASD 3 OD LH		39194		114.66	114.66	114.66	114.66	114.66	114.66	114.66
	CBN HEX DIE		34004		72.24	58.38	44.73	32.66	29.61	29.61	29.61
	H5 4FL L/S TAP	32008	32009	32010	61.43	61.43	61.43	61.43	61.43	61.43	61.43
1 3/8-12	HSS HEX DIE		34005		105.32	88.62	67.73	51.35	46.73	46.73	46.73
	HSS RASD 2 1/2 OD		39784		124.64	104.58	83.79	64.89	59.01	59.01	59.01
	CBN HEX DIE		39306		27.09	27.09	27.09	27.09	27.09	27.09	27.09
	CBN HEX DIE LH		39403		33.60	33.60	33.60	33.60	33.60	33.60	33.60
	H4 6FL LH TAP	31424	31425	31426	74.87	74.87	74.87	74.87	74.87	74.87	74.87
	H6 6FL STI BOTTOM TAP		31178		115.29	115.29	115.29	115.29	93.03	93.03	93.03
	H6 6FL STI TAP		31177	31178	115.29	115.29	115.29	115.29	93.03	93.03	93.03
1 3/8-16	HSS RASD 3 OD		39456		104.27	104.27	104.27	104.27	104.27	104.27	104.27
	HSS RASD 3 OD LH		39195		114.66	114.66	114.66	114.66	114.66	114.66	114.66
	H4 6FL S/S TAP	36244	36245	36246	80.01	80.01	80.01	61.43	54.08	49.14	49.14
	HSS RASD RH 2 1/2 OD		86556		83.79	83.79	83.79	83.79	83.79	83.79	83.79
	HSS RASD 2 1/2 OD		39785		124.64	104.58	83.79	64.89	59.01	59.01	59.01
	H4 6FL TAP	31291	31292	31293	52.08	52.08	52.08	52.08	52.08	52.08	52.08
	H4 6FL TAP	36863	36864	36865	135.66	108.05	90.41	67.31	61.74	57.33	57.33
1.376-18	HSS RASD 2 1/2 OD		39786		124.64	104.58	83.79	64.89	59.01	59.01	59.01
	CBN HEX #7 LCKNT DIE		40014		72.24	58.38	44.73	32.66	32.66	32.66	32.66
	HSS HEX #7 LCKNT DIE		40015		105.32	88.62	67.73	51.35	51.35	51.35	51.35
1 7/16-16	H4 6FL S/S TAP	36248	36249	36250	116.55	85.89	85.89	66.36	58.91	53.45	53.45
	H4 6FL TAP	31294	31295	31296	54.50	54.50	54.50	54.50	54.50	54.50	54.50
1 1/2-4	LH 2G ACME FINISHER 4FL		37136		123.48	123.48	123.48	110.25	110.25	110.25	110.25
	LH 2G ACME ROUGHER 4FL		37135		123.48	123.48	123.48	110.25	110.25	110.25	110.25
	LH 2G ACME TANDEM 4FL		37084		209.48	209.48	209.48	184.70	184.70	184.70	184.70
	LH ACME RH SPIRAL TANDEM 4FL		37318		273.00	273.00	273.00	273.00	273.00	273.00	273.00
	RH 2G ACME FINISHER 4FL		37008		123.48	123.48	123.48	110.25	110.25	110.25	110.25
	RH 2G ACME ROUGHER 4FL		37110		123.48	123.48	123.48	110.25	110.25	110.25	110.25
	RH 2G ACME TANDEM 4FL		37085		209.48	209.48	209.48	184.70	184.70	184.70	184.70
	RH ACME LH SPIRAL TANDEM 4FL		37308		273.00	273.00	273.00	273.00	273.00	273.00	273.00
	CBN HEX DIE		39307		28.98	28.98	28.98	28.98	28.98	28.98	28.98
	CBN HEX DIE LH		39404		37.07	37.07	37.07	37.07	37.07	37.07	37.07
	H4 4FL 10 OAL TAP	36866	36867	36868	220.50	220.50	220.50	187.43	163.17	163.17	163.17
1 1/2-6	H4 4FL 12 OAL TAP	36869	36870	36871	253.58	253.58	253.58	220.50	187.43	187.43	187.43
	H4 4FL LH TAP	31427	31428	31429	88.62	88.62	88.62	88.62	88.62	88.62	88.62
	H6 6FL STI TAP		31179	31180	127.16	127.16	127.16	127.16	113.09	113.09	113.09
	H7 6FL STI TAP		31181	31182	127.16	127.16	127.16	127.16	113.09	113.09	113.09
	HSS RASD 3 OD		39457		104.27	104.27	104.27	104.27	104.27	104.27	104.27
	HSS RASD 3 OD LH		39196		114.66	114.66	114.66	114.66	114.66	114.66	114.66
	CBN HEX DIE		34006		74.55	60.48	45.57	34.86	31.92	31.92	31.92
	H5 4FL 10 OAL TAP	36872	36873	36874	220.50	220.50	220.50	187.43	163.17	163.17	163.17
	H5 4FL 12 OAL	36875	36876	36877	253.58	253.58	253.58	220.50	187.43	187.43	187.43
	H5 4FL L/S TAP	32012	32013	32014	71.61	71.61	71.61	71.61	71.61	71.61	71.61
	HSS HEX DIE		34007		108.47	89.36	71.09	54.60	47.99	47.99	47.99
HSS RASD 3 OD		39787		161.91	142.49	118.55	102.48	93.24	93.24	93.24	
1 1/2-10	H5 6FL TAP	36878	36879	36880	167.58	142.28	121.28	100.38	93.77	83.79	83.79
	55 DEGREE MOD BSPP RH		31544		130.10	130.10	130.10	128.84	111.62	97.86	86.42
	55 DEGREE MOD BSPT RH		31535		130.10	130.10	130.10	128.84	111.62	97.86	86.42
1 1/2-12	1/2 NPT 7FL TAP		62129		99.75	99.75	99.75	99.75	94.50	94.50	94.50
	1/2 NPT LH TAP		31314		162.75	147.32	122.43	114.03	92.93	92.93	92.93
	CBN HEX DIE		39308		28.98	28.98	28.98	28.98	28.98	28.98	28.98
	CBN HEX DIE LH		39405		37.07	37.07	37.07	37.07	37.07	37.07	37.07
	H4 6FL LH TAP	31430	31431	31432	88.62	88.62	88.62	88.62	88.62	88.62	88.62
	H4 6FL STI TAP		31183	31184	127.16	127.16	127.16	127.16	113.09	113.09	113.09
	H6 6FL STI TAP		31185	31186	127.16	127.16	127.16	127.16	113.09	113.09	113.09
	HSS RASD 3 OD		39458		104.27	104.27	104.27	104.27	104.27	104.27	104.27
	HSS RASD 3 OD LH		39197		114.66	114.66	114.66	114.66	114.66	114.66	114.66
	H4 6FL S/S TAP	36252	36253	36254	122.64	88.41	88.41	69.41	61.43	54.92	54.92
	HSS RASD RH 2 1/2 OD		86557		83.79	83.79	83.79	83.79	83.79	83.79	83.79

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Popular Special Taps & Dies (Inches) *Continued*

Size	Description	Part Number		Price/Quantity Levels							
		Taper	Plug	Bottom	1	2	3	6	12	24	48
1 1/2-18	H4 6FL TAP	31297	31298	31299	66.15	66.15	66.15	66.15	66.15	66.15	66.15
	HSS RASD 3 OD		39788		161.91	142.49	118.55	102.48	93.24	93.24	93.24
1 1/2-20	H4 6FL S/S TAP	36256	36257	36258	122.64	88.41	88.41	69.41	61.43	55.13	55.13
	HSS RASD RH 2 1/2 OD		86558		83.79	83.79	83.79	83.79	83.79	83.79	83.79
1 1/2-24	H4 6FL TAP	36882	36883	36884	143.33	108.05	95.97	70.56	68.36	68.36	68.36
1 9/16-16	H5 6FL TAP	36890	36891	36892	177.56	146.69	123.48	104.79	95.97	92.61	92.61
1 9/16-18	H5 6FL TAP	31300	31301	31302	74.13	74.13	74.13	74.13	74.13	74.13	74.13
	HSS RASD 3 OD		39789		184.17	174.20	150.68	131.67	119.91	119.91	119.91
1.563-18	CBN HEX #8 LCKNT DIE		40016		115.71	105.74	100.17	87.26	87.26	87.26	87.26
	HSS HEX #8 LCKNT DIE		40017		154.35	140.28	127.47	107.84	107.84	107.84	107.84
1 5/8-5 1/2	H7 6FL L/S TAP	36260	36261	36262	117.18	117.18	117.18	117.18	101.64	91.14	91.14
1 5/8-8	CBN HEX DIE		34008		115.71	105.74	100.17	87.26	79.28	79.28	79.28
	H6 6FL L/S TAP	32016	32017	32018	84.63	84.63	84.63	84.63	84.63	84.63	84.63
1 5/8-12	HSS HEX DIE		34009		154.35	140.28	127.47	107.84	97.97	97.97	97.97
	CBN HEX DIE		35006		115.71	105.74	100.17	87.26	79.28	79.28	79.28
	H6 6FL S/S TAP	33016	33017	33018	76.13	76.13	76.13	76.13	76.13	76.13	76.13
	HSS HEX DIE		35007		154.35	140.28	127.47	107.84	97.97	97.97	97.97
1 5/8-16	HSS RASD 3 OD		39790		184.17	174.20	150.68	131.67	119.91	119.91	119.91
	H5 6FL S/S TAP	36264	36265	36266	134.93	98.18	98.18	79.80	78.12	70.04	70.04
1 5/8-18	HSS RASD 3 OD		39791		184.17	174.20	150.68	131.67	119.91	119.91	119.91
	H5 6FL TAP	31303	31304	31305	75.71	75.71	75.71	75.71	75.71	75.71	75.71
1 3/4-5	HSS RASD 3 OD		39792		184.17	174.20	150.68	131.67	119.91	119.91	119.91
	H7 6FL L/S TAP	36268	36269	36270	148.26	126.00	126.00	108.26	99.44	99.44	99.44
1 3/4-8	HSS RASD 3 OD		39793		18						

Popular Special Taps & Dies (Inches) *Continued*

Size	Description	Part Number			Price/Quantity Levels									
		Taper	Plug	Bottom	1	2	3	6	12	24	48			
2-12 (continued)	HSS HEX DIE		35013		200.87	178.29	157.40	138.60	126.00	126.00	126.00			
	HSS RASD 4 OD		39803		269.33	246.96	225.96	206.75	188.27	188.27	188.27			
2-16	H5 6FL S/S TAP	36292	36293	36294	109.20	100.38	100.38	86.21	79.07	79.07	79.07			
	HSS RASD 4 OD		39804		269.33	246.96	225.96	206.75	188.27	188.27	188.27			
2-18	H5 6FL S/S TAP	36296	36297	36298	124.01	105.42	105.42	90.41	83.06	83.06	83.06			
2-20	H5 6FL TAP	36897	36898	36899	198.45	175.35	164.33	132.30	122.43	118.76	118.76			
	HSS RASD 4 OD		39805		269.33	246.96	225.96	206.75	188.27	188.27	188.27			
2 1/8-8	CARBON HEX DIE		34016		182.07	160.65	147.11	122.64	111.41	111.41	111.41			
	H6 6FL L/S TAP	32032	32033	32034	160.02	160.02	160.02	160.02	160.02	160.02	160.02			
2 1/8-12	HSS HEX DIE		34017		204.96	182.81	159.60	143.12	130.10	130.10	130.10			
	CARBON HEX DIE		35014		182.07	160.65	147.11	122.64	111.41	111.41	111.41			
	H6 6FL S/S TAP	33036	33037	33038	133.46	133.46	133.46	133.46	133.46	133.46	133.46			
2 1/8-16	HSS HEX DIE		35015		204.96	182.81	159.60	143.12	130.10	130.10	130.10			
	H5 6FL S/S TAP	36300	36301	36302	168.00	142.80	142.80	122.64	112.67	112.67	112.67			
2.157-18	CBN HEX #11 LCKNT DIE		40022		186.59	165.06	145.11	127.05	127.05	127.05	127.05			
	HSS HEX #11 LCKNT DIE		40023		210.00	187.64	166.53	147.63	147.63	147.63	147.63			
2 1/4-4	1/2 H7 6FL L/S TAP	36304	36305	36306	244.65	244.65	244.65	244.65	199.08	199.08	199.08			
2 1/4-8	CARBON HEX DIE		34018		186.48	165.06	158.03	127.05	115.50	115.50	115.50			
	H6 6FL L/S TAP	32036	32037	32038	199.08	199.08	199.08	199.08	199.08	199.08	199.08			
2 1/4-12	HSS HEX DIE		34019		210.00	187.64	166.53	147.63	134.30	134.30	134.30			
	CARBON HEX DIE		35016		186.48	165.06	158.03	127.05	115.50	115.50	115.50			
	H6 6FL S/S TAP	33032	33033	33034	149.00	149.00	149.00	149.00	149.00	149.00	149.00			
2 1/4-16	HSS HEX DIE		35017		210.00	187.64	166.53	147.63	134.30	134.30	134.30			
	H5 6FL S/S TAP	36308	36309	36310	185.22	157.50	157.50	135.24	124.22	124.22	124.22			
2.360-18	CBN HEX #12 LCKNT DIE		40024		208.32	186.59	166.95	148.79	148.79	148.79	148.79			
	HSS HEX #12 LCKNT DIE		40025		234.47	212.21	191.21	172.31	172.31	172.31	172.31			
2 3/8-8	CARBON HEX DIE		34020		208.32	186.59	166.95	148.79	135.24	135.24	135.24			
	H6 6FL L/S TAP	32040	32041	32042	212.21	212.21	212.21	212.21	212.21	212.21	212.21			
2 3/8-12	HSS HEX DIE		34021		234.47	212.21	191.21	172.31	156.77	156.77	156.77			
	CARBON HEX DIE		35018		208.32	186.59	166.95	148.79	135.24	135.24	135.24			
	H6 6FL S/S TAP	33044	33045	33046	167.16	167.16	167.16	167.16	167.16	167.16	167.16			
2 3/8-16	HSS HEX DIE		35019		234.47	212.21	191.21	172.31	156.77	156.77	156.77			
	H5 6FL S/S TAP	36312	36313	36314	226.80	190.26	190.26	177.87	167.27	158.45	158.45			
2 1/2-4	H7 6FL L/S TAP	36316	36317	36318	260.09	260.09	260.09	260.09	234.15	234.15	234.15			
2 1/2-8	CARBON HEX DIE		34022		212.63	191.21	171.26	152.36	139.23	139.23	139.23			
	H6 6FL L/S TAP	32044	32045	32046	234.15	234.15	234.15	234.15	234.15	234.15	234.15			
2 1/2-12	HSS HEX DIE		34023		238.98	216.72	195.83	177.14	160.86	160.86	160.86			
	CARBON HEX DIE		35020		212.63	191.21	171.26	152.36	139.23	139.23	139.23			
	H6 6FL S/S TAP	33028	33029	33030	184.17	184.17	184.17	184.17	184.17	184.17	184.17			
2 1/2-16	HSS HEX DIE		35021		238.98	216.72	195.83	177.14	160.86	160.86	160.86			
	H5 6FL S/S TAP	36320	36321	36322	265.02	221.97	221.97	183.96	181.86	178.40	178.40			
2.548-18	CBN HEX #13 LCKNT DIE		40026		217.04	198.77	176.19	157.61	157.61	157.61	157.61			
	HSS HEX #13 LCKNT DIE		40027		244.76	222.29	201.08	181.97	181.97	181.97	181.97			
2 5/8-8	CARBON HEX DIE		34024		217.04	198.77	176.19	157.61	143.22	143.22	143.22			
	H6 6FL L/S TAP	32048	32049	32050	247.28	247.28	247.28	247.28	247.28	247.28	247.28			
2 5/8-12	HSS HEX DIE		34025		244.76	222.29	201.08	181.97	165.27	165.27	165.27			
	CARBON HEX DIE		35022		217.04	198.77	176.19	157.61	143.22	143.22	143.22			
	H6 6FL S/S TAP	33048	33049	33050	202.23	202.23	202.23	202.23	202.23	202.23	202.23			
2 3/4-8	HSS HEX DIE		35023		244.76	222.29	201.08	181.97	165.27	165.27	165.27			
	CARBON HEX DIE		34026		222.50	200.24	182.39	161.91	147.21	147.21	147.21			
	H8 6FL L/S TAP	32052	32053	32054	292.64	292.64	292.64	292.64	292.64	292.64	292.64			
2 3/4-12	HSS HEX DIE		34027		248.96	227.33	204.96	188.48	171.47	171.47	171.47			
	CARBON HEX DIE		35024		222.50	200.24	182.39	161.91	147.21	147.21	147.21			
	H7 6FL S/S TAP	33040	33041	33042	220.50	220.50	220.50	220.50	220.50	220.50	220.50			
2.751-18	HSS HEX DIE		35025		248.96	227.33	204.96	188.48	171.47	171.47	171.47			
	CBN HEX #14 LCKNT DIE		40028		222.50	200.24	182.39	161.91	161.91	161.91	161.91			
2 7/8-8	HSS HEX #14 LCKNT DIE		40029		248.96	227.33	204.96	188.48	188.48	188.48	188.48			
	CARBON HEX DIE		34028		313.74	306.39	280.56	262.61	238.88	238.88	238.88			
	H8 6FL L/S TAP	32056	32057	32058	305.66	305.66	305.66	305.66	305.66	305.66	305.66			
2 7/8-12	HSS HEX DIE		34029		343.77	330.75	313.01	294.53	267.75	267.75	267.75			
	CARBON HEX DIE		35026		313.74	306.39	280.56	262.61	238.88	238.88	238.88			
	H7 6FL S/S TAP	33052	33053	33054	240.03	240.03	240.03	240.03	240.03	240.03	240.03			
2.933-12	HSS HEX DIE		35027		343.77	330.75	313.01	294.53	267.75	267.75	267.75			
	CBN HEX #15 LCKNT DIE		40030		317.73	296.94	271.43	254.31	254.31	254.31	254.31			
3-4	HSS HEX #15 LCKNT DIE		40031		351.12	323.09	309.12	286.65	286.65	286.65	286.65			
	H9 6FL L/S TAP	36324	36325	36326	399.42	399.42	399.42	399.42	344.82	344.82	344.82			

Please Note: Due to circumstances beyond our control, there are wide fluctuations in the price of HSS in the world market. If there is a surcharge, it will be added to the price and quoted at the time of purchase.

Popular Special Taps & Dies (Inches) *Continued*

Size	Description	Part Number			Price/Quantity Levels									
		Taper	Plug	Bottom	1	2	3	6	12	24	48			
3-8	CARBON HEX DIE		34030		333.59	311.85	284.97	267.02	242.76	242.76	242.76			
	H8 8FL L/S TAP	32060	32061	32062	334.22	334.22	334.22	334.22	334.22	334.22	334.22			
3-12	HSS HEX DIE		34031		368.66	339.26	324.56	301.04	273.74	273.74	273.74			
	CARBON HEX DIE		35028		333.59	311.85	284.97	267.02	242.76	242.76	242.76			
	H7 8FL S/S TAP	33056	33057	33058	259.56	259.56	259.56	259.56	259.56	259.56	259.56			
3-16	HSS HEX DIE		35029		368.66	339.26	324.56	301.04	273.74	273.74	273.74			
	H6 6FL S/S TAP	36328	36329	36330	334.85	296.31	296.31	257.57	244.65	244.65	244.65			
3 1/8-8	CARBON HEX DIE		34032		337.89	314.48	291.90	269.33	244.76	244.76	244.76			
	H8 8FL L/S TAP	32064	32065	32066	344.19	344.19	344.19	344.19	344.19	344.19	344.19			
	HSS HEX DIE		34033		371.39	348.92	330.23	310.59	280.88	280.88	280.88			
3.137-12	CBN HEX #16 LCKNT DIE		40032		321.72	299.46	278.04	256.52	256.52	256.52	256.52			
	HSS HEX #16 LCKNT DIE		40033											



Popular Special Taps & Dies (Metrics)

These are non-standard sizes and pitches of the most commonly used taps and dies. We have the largest stocking inventory of Popular Special Taps and Dies available for immediate delivery. If you don't see what you need, please contact us and we will make anything you need to your blueprint or sample specifications.



Size	Description	Part Number			Price/Quantity Levels							
		Taper	Plug	Bottom	1	2	3	6	12	24	48	
M2.5X0.45	6H D3 2FL SPPT		83144		7.46	7.46	7.46	7.46	7.46	7.46	7.46	
	6H D3 3FL TAP	83000		83002	6.62	6.62	6.62	6.62	6.62	6.62	6.62	
M3X.5	6H D3 2FL SPPT		83145		5.88	5.88	5.88	5.88	5.88	5.88	5.88	
	6H D3 3FL TAP	83004	83005	83006	5.36	5.36	5.36	5.36	5.36	5.36	5.36	
	HSS RASD 1 OD LH		39002		36.75	25.52	16.38	16.38	16.38	16.38	16.38	
	HSS RASD 1 OD RH		39001		25.31	20.48	15.96	15.96	15.96	15.96	15.96	
M3X.6	HSS RASD 1 OD RH		39000		25.83	20.69	16.17	16.17	16.17	16.17	16.17	
M3.5X.6	6H D4 2FL SPPT		83146		4.41	4.41	4.41	4.41	4.41	4.41	4.41	
	6H D4 3FL LH TAP	84008	84009	84010	3.89	3.89	3.89	3.89	3.89	3.89	3.89	
	6H D4 3FL TAP	83008	83009	83010	3.99	3.99	3.99	3.99	3.99	3.99	3.99	
	HSS RASD 1 OD LH		39004		36.75	25.83	16.38	16.38	16.38	16.38	16.38	
	HSS RASD 1 OD RH		39003		25.31	20.48	15.96	15.96	15.96	15.96	15.96	
M4X.7	6H D4 2FL SPPT		83147		4.41	4.41	4.41	4.41	4.41	4.41	4.41	
	6H D4 4FL LH TAP	84012	84013	84014	4.31	4.31	4.31	4.31	4.31	4.31	4.31	
	6H D4 4FL TAP	83012	83013	83014	3.99	3.99	3.99	3.99	3.99	3.99	3.99	
	HSS RASD 1 OD LH		39007		36.75	25.52	16.38	16.38	16.38	16.38	16.38	
	HSS RASD 1 OD RH		39006		25.31	20.48	15.96	15.96	15.96	15.96	15.96	
M4X.75	HSS RASD 1 OD RH		39005		25.83	22.05	16.17	16.17	16.17	16.17	16.17	
M4.5X.75	6H D4 2FL SPPT		83148		4.41	4.41	4.41	4.41	4.41	4.41	4.41	
	6H D4 4FL LH TAP	84016	84017	84018	4.31	4.31	4.31	4.31	4.31	4.31	4.31	
	6H D4 4FL TAP	83016	83017	83018	3.99	3.99	3.99	3.99	3.99	3.99	3.99	
	HSS RASD 1 OD LH		39009		36.75	25.52	16.38	16.38	16.38	16.38	16.38	
	HSS RASD 1 OD RH		39008		25.31	20.48	15.96	15.96	15.96	15.96	15.96	
M5X.8	6H D4 2FL SPPT		83149		4.41	4.41	4.41	4.41	4.41	4.41	4.41	
	6H D4 4FL LH TAP	84020	84021	84022	4.31	4.31	4.31	4.31	4.31	4.31	4.31	
	6H D4 4FL TAP	83020	83021	83022	3.99	3.99	3.99	3.99	3.99	3.99	3.99	
	HSS RASD 1 OD LH		39013		36.75	25.83	16.38	16.38	16.38	16.38	16.38	
	HSS RASD 1 OD RH		39012		25.31	20.48	15.96	15.96	15.96	15.96	15.96	
M5X.9	HSS RASD 1 OD RH		39011		25.83	20.69	16.17	16.17	16.17	16.17	16.17	
M5X1	HSS RASD 1 OD RH		39010		25.83	20.69	16.17	16.17	16.17	16.17	16.17	
M5.5X.9	HSS RASD 1 OD LH		39015		34.23	25.52	16.38	16.38	16.38	16.38	16.38	
	HSS RASD 1 OD RH		39014		25.31	20.48	15.96	15.96	15.96	15.96	15.96	
M6X.5	D3 4FL TAP	36916	36917	36918	62.90	42.53	32.55	18.80	14.91	12.18	10.50	
M6X.75	4H D5 4FL TAP	83310	83311	83312	5.99	5.99	5.99	5.99	5.99	5.99	5.99	
	HSS RASD 1 OD RH		39018		25.83	20.69	16.17	16.17	16.17	16.17	16.17	
	D3 2FL SPPT TAP		36915		25.41	14.91	10.50	8.09	7.25	7.25	6.62	
M6X1	D5 2FL SLOW SPIRAL			36900	11.66	11.66	11.66	11.66	10.50	10.50	9.98	
	6H D5 2FL SPPT		83150		4.73	4.73	4.73	4.73	4.73	4.73	4.73	
	6H D5 4FL LH TAP	84024	84025	84026	5.15	5.15	5.15	5.15	5.15	5.15	5.15	
	6H D5 4FL TAP	83024	83025	83026	4.31	4.31	4.31	4.31	4.31	4.31	4.31	
	HSS RASD 1 OD LH		39017		36.75	25.83	16.38	16.38	16.38	16.38	16.38	
	HSS RASD 1 OD RH		39016		25.31	20.48	15.96	15.96	15.96	15.96	15.96	
	D5 2FL 6 OAL SPPT		36905		22.05	22.05	22.05	22.05	22.05	22.05	22.05	
	D5 2FL CARBIDE SPPT		38287		102.59	97.65	94.29	88.20	84.42	76.65	73.92	
	D5 3FL FAST SPIRAL			36901	12.71	12.71	12.71	12.71	11.03	11.03	10.50	
	D5 4FL 6 OAL TAP	36902	36903	36904	21.00	21.00	21.00	21.00	21.00	21.00	21.00	
	D5 4FL CARBIDE TAP	38284	38285	38286	95.97	90.41	87.68	83.27	83.27	71.72	69.51	
	+0.05 2FL SPPT TAP		36910		7.25	7.25	7.25	7.25	7.25	7.25	7.25	
	+0.05 4FL TAP	36906	36907	36908	6.09	6.09	6.09	6.09	5.57	5.57	5.04	
M6.3X1	HSS RASD 1 OD RH		39019		25.83	20.69	16.17	16.17	16.17	16.17	16.17	
M7X.75	HSS RASD 1 OD RH		39022		25.83	20.69	16.17	16.17	16.17	16.17	16.17	
M7X1	6H D5 2FL SPPT		83151		5.88	5.88	5.88	5.88	5.88	5.88	5.88	
	6H D5 4FL LH TAP	84028	84029	84030	5.78	5.78	5.78	5.78	5.78	5.78	5.78	
	6H D5 4FL TAP	83028	83029	83030	5.36	5.36	5.36	5.36	5.36	5.36	5.36	
	HSS RASD 1 OD LH		39021		36.75	25.83	16.38	16.38	16.38	16.38	16.38	
	HSS RASD 1 OD RH		39020		25.31	20.69	15.96	15.96	15.96	15.96	15.96	
	D5 2FL CARBIDE SPPT		38291		137.87	125.69	119.07	105.32	101.43	93.77	93.77	
	D5 4FL CARBIDE TAP	38288	38289	38290	132.30	121.28	113.61	100.38	96.50	88.20	88.20	
	+0.05 2FL SPPT TAP		36922		8.30	8.30	8.30	8.30	8.30	8.30	6.62	
	+0.05 4FL TAP	36919	36920	36921	7.77	7.77	7.77	7.77	6.93	6.93	6.09	

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Popular Special Taps & Dies (Metrics) Continued

Size	Description	Part Number			Price/Quantity Levels							
		Taper	Plug	Bottom	1	2	3	6	12	24	48	
M8X.5	6H D5 4FL TAP	83325	83326	83327	11.55	11.55	11.55	11.55	11.55	11.55	11.55	
M8X.75	6H D5 4FL TAP	83320	83321	83322	11.55	11.55	11.55	11.55	11.55	11.55	11.55	
M8X1	6H D5 2FL SPPT		83152		5.88	5.88	5.88	5.88	5.88	5.88	5.88	
	6H D5 4FL LH TAP	84036	84037	84038	5.78	5.78	5.78	5.78	5.78	5.78	5.78	
	6H D5 4FL TAP	83032	83033	83034	5.15	5.15	5.15	5.15	5.15	5.15	5.15	
	HSS RASD 1 OD RH		39025		25.83	20.69	16.17	16.17	16.17	16.17	16.17	
	D5 2FL CARBIDE SPPT		38299		137.87	125.69	119.07	105.32	101.43	93.77	93.77	
	D5 4FL CARBIDE TAP	38296	38297	38298	132.30	121.28	113.61	100.38	96.50	88.20	88.20	
	D5 3FL FAST SPIRAL		36946		15.44	15.44	15.44	13.86	13.86	13.86	13.23	
	D5 3FL SLOW SPIRAL		36945		14.91	14.91	14.91	13.23	13.23	13.23	12.71	
	+0.05 2FL SPPT TAP		36944		8.09	8.09	8.09	7.25	7.25	7.25	6.62	
	+0.05 4FL TAP	36941	36942	36943	7.46	7.46	7.46	6.62	6.62	6.62	6.09	
M8X1.25	6H D5 2FL SPPT		83153		5.57	5.57	5.57	5.57	5.57	5.57	5.57	
	6H D5 4FL LH TAP	84032	84033	84034	5.78	5.78	5.78	5.78	5.78	5.78	5.78	
	6H D5 4FL TAP	83036	83037	83038	5.36	5.36	5.36	5.36	5.36	5.36	5.36	
	HSS RASD 1 OD LH		39024		36.75	25.52	16.38	16.38	16.38	16.38	16.38	
	HSS RASD 1 OD RH		39023		25.31	20.48	15.96	15.96	15.96	15.96	15.96	
	D5 2FL 6 OAL SPPT		36932		25.41	25.41	25.41	25.41	25.41	25.41	25.41	
	D5 2FL CARBIDE SPPT		38295		137.87	125.69	119.07	105.32	101.43	93.77	93.77	
	D5 3FL FAST SPIRAL		36928		15.44	15.44	15.44	13.86	13.86	13.86	13.23	
	D5 3FL SLOW SPIRAL		36927		14.91	14.91	14.91	13.23	13.23	13.23	12.71	
	D5 4FL 6 OAL TAP	36929	36930	36931	24.26	24.26	24.26	24.26	24.26	24.26	24.26	
	D5 4FL CARBIDE TAP	38292	38293	38294	132.30	121.28	113.61	100.38	96.50	88.20	88.20	
	+0.05 2FL SPPT		36936		8.09	8.09	8.09	7.25	7.25	7.25	6.62	
	+0.05 4FL TAP	36933	36934	36935	7.46	7.46	7.46	6.62	6.62	6.62	6.09	
M9X1	6H D5 4FL TAP	83335	83336	83337	13.86	13.86	13.86	13.86	13.86	13.86	13.86	
	HSS RASD 1 OD RH		39028		25.83	20.69						

Popular Special Taps & Dies (Metrics) *Continued*

Size	Description	Part Number			Price/Quantity Levels											
		Taper	Plug	Bottom	1	2	3	6	12	24	48					
M12X1.25 (continued)	+.005 4FL TAP	36990	36991	36992	14.91	14.91	14.91	13.23	13.23	13.23	13.23					
M12X1.5	6H D6 3FL SPPT TAP		83354		14.91	14.91	14.91	14.91	14.91	14.91	14.91					
	6H D6 4FL TAP	83350	83351	83352	13.65	13.65	13.65	13.65	13.65	13.65	13.65					
	HSS RASD 1 1/2 OD RH		39037		34.23	27.30	22.37	22.37	22.37	22.37	22.37					
M12X1.75	D6 3FL 6 OAL SPPT		36980		30.35	30.35	30.35	30.35	30.35	30.35	30.35					
	D6 3FL SLOW SPIR			36974	25.94	25.94	25.94	22.68	22.68	22.68	18.80					
	D6 4FL 6 OAL TAP	36976	36977	36978	28.67	28.67	28.67	28.67	28.67	28.67	28.67					
	D6 4FL CARBIDE TAP	38304	38305	38306	166.53	162.12	159.92	152.15	149.94	144.48	141.12					
	D6 4FL FAST SPIR			36975	27.62	27.62	27.62	23.73	23.73	23.73	20.48					
	6H D6 3FL SPPT		83157		12.92	12.92	12.92	12.92	12.92	12.92	12.92					
	6H D6 4FL LH TAP	84048	84049	84050	12.81	12.81	12.81	12.81	12.81	12.81	12.81					
	6H D6 4FL TAP	83052	83053	83054	10.82	10.82	10.82	10.82	10.82	10.82	10.82					
	HSS RASD 1 1/2 OD LH		39036		48.51	34.34	22.37	22.37	22.37	22.37	22.37					
	HSS RASD 1 1/2 OD RH		39035		32.66	26.99	21.74	21.74	21.74	21.74	21.74					
	+.005 3FL SPPT		36984		16.07	16.07	16.07	14.39	14.39	14.39	14.39					
	+.005 4FL TAP	36981	36982	36983	14.91	14.91	14.91	13.23	13.23	13.23	13.23					
M12.5X1.27 PG 7	4FL TAP	83500	83501	83502	129.05	94.82	67.31	46.31	46.31	46.31	46.31					
M14X1	6H D5 4FL TAP	83365	83366	83367	18.27	18.27	18.27	18.27	18.27	18.27	18.27					
M14X1.25	HSS RASD 1 1/2 OD LH		39043		48.51	34.34	22.37	22.37	22.37	22.37	22.37					
	HSS RASD 1 1/2 OD RH		39042		32.66	26.99	21.74	21.74	21.74	21.74	21.74					
	SPARK PLUG D4 4FL TAP	83360	83361	83362	18.27	18.27	18.27	18.27	18.27	18.27	18.27					
M14X1.5	6H D6 3FL SPPT		83158		19.85	19.85	19.85	19.85	19.85	19.85	19.85					
	6H D6 4FL LH TAP	84060	84061	84062	19.01	19.01	19.01	19.01	19.01	19.01	19.01					
	6H D6 4FL TAP	83056	83057	83058	17.33	17.33	17.33	17.33	17.33	17.33	17.33					
	HSS RASD 1 1/2 OD RH		39041		34.23	27.30	22.37	22.37	22.37	22.37	22.37					
M14X2	6H D7 3FL SPPT		83159		19.11	19.11	19.11	19.11	19.11	19.11	19.11					
	6H D7 4FL LH TAP	84056	84057	84058	19.01	19.01	19.01	19.01	19.01	19.01	19.01					
	6H D7 4FL TAP	83060	83061	83062	18.06	18.06	18.06	18.06	18.06	18.06	18.06					
	HSS RASD 1 1/2 OD LH		39040		48.51	34.34	22.37	22.37	22.37	22.37	22.37					
	HSS RASD 1 1/2 OD RH		39039		32.66	26.99	21.74	21.74	21.74	21.74	21.74					
M15X1	6H D5 4FL TAP	83370	83371	83372	22.68	22.68	22.68	22.68	22.68	22.68	22.68					
M15X1.5	HSS RASD 1 1/2 OD RH		39044		34.23	27.30	22.37	22.37	22.37	22.37	22.37					
M15.2X1.41 PG 9	4FL TAP	83503	83504	83505	137.87	102.59	74.97	56.28	56.28	56.28	56.28					
M16X1	6H D5 4FL TAP	83380	83381	83382	22.68	22.68	22.68	22.68	22.68	22.68	22.68					
M16X1.5	6H D6 3FL SPPT		83160		23.73	23.73	23.73	23.73	23.73	23.73	23.73					
	6H D6 4FL LH TAP	84068	84069	84070	18.48	18.48	18.48	18.48	18.48	18.48	18.48					
	6H D6 4FL TAP	83064	83065	83066	20.90	20.90	20.90	20.90	20.90	20.90	20.90					
	HSS RASD 1 1/2 OD RH		39047		34.23	27.30	22.37	22.37	22.37	22.37	22.37					
M16X2	6H D7 3FL SPPT		83161		22.89	22.89	22.89	22.89	22.89	22.89	22.89					
	6H D7 4FL LH TAP	84064	84065	84066	21.53	21.53	21.53	21.53	21.53	21.53	21.53					
	6H D7 4FL TAP	83068	83069	83070	21.53	21.53	21.53	21.53	21.53	21.53	21.53					
	HSS RASD 1 1/2 OD LH		39046		48.51	34.34	22.37	22.37	22.37	22.37	22.37					
	HSS RASD 1 1/2 OD RH		39045		32.66	26.99	21.74	21.74	21.74	21.74	21.74					
	D7 3FL 6 OAL SPPT		36996		65.10	50.72	44.10	37.49	34.23	34.23	34.23					
	D7 4FL 6 OAL TAP	36993	36994	36995	62.90	49.67	42.53	35.28	32.03	32.03	32.03					
	+.005 3FL SPPT		36885		29.48	29.48	26.62	26.62	25.41	25.41	24.31					
	+.005 4FL TAP	36997	36998	36985	26.46	26.46	23.21	23.21	22.05	22.05	21.53					
M17X1.5	HSS RASD 1 1/2 OD RH		39048		34.23	27.30	22.37	22.37	22.37	22.37	22.37					
M18X1	6H D5 4FL TAP	83390	83391	83392	26.46	26.46	26.46	26.46	26.46	26.46	26.46					
M18X1.5	6H D6 3FL SPPT		83162		28.88	28.88	28.88	28.88	28.88	28.88	28.88					
	6H D6 4FL LH TAP	84076	84077	84078	26.15	26.15	26.15	26.15	26.15	26.15	26.15					
	6H D6 4FL TAP	83072	83073	83074	26.15	26.15	26.15	26.15	26.15	26.15	26.15					
	HSS RASD 1 1/2 OD LH		39053		48.51	34.34	22.37	22.37	22.37	22.37	22.37					
	HSS RASD 1 1/2 OD RH		39052		32.66	26.99	21.74	21.74	21.74	21.74	21.74					
M18X2	HSS RASD 1 1/2 OD RH		39051		34.23	27.30	22.37	22.37	22.37	22.37	22.37					
M18X2.5	6H D7 3FL SPPT		83163		28.88	28.88	28.88	28.88	28.88	28.88	28.88					
	6H D7 4FL LH TAP	84072	84073	84074	26.15	26.15	26.15	26.15	26.15	26.15	26.15					
	6H D7 4FL TAP	83076	83077	83078	26.15	26.15	26.15	26.15	26.15	26.15	26.15					
	HSS RASD 1 1/2 OD LH		39050		48.51	34.34	22.37	22.37	22.37	22.37	22.37					
	HSS RASD 1 1/2 OD RH		39049		32.66	26.99	21.74	21.74	21.74	21.74	21.74					
M18.6X1.41 PG 11	4FL TAP	83506	83507	83508	146.69	113.61	86.00	67.31	67.31	67.31	67.31					
M19X2.5	HSS RASD 2 OD RH		39054		48.93	38.96	31.61	31.61	31.61	31.61	31.61					
M20X1	6H D6 4FL TAP	83400	83401	83402	33.08	33.08	33.08	33.08	33.08	33.08	33.08					
M20X1.5	6H D6 3FL SPPT		83164		33.50	33.50	33.50	33.50	33.50	33.50	33.50					
	6H D6 4FL LH TAP	84084	84085	84086	32.76	32.76	32.76	32.76	32.76	32.76	32.76					
	6H D6 4FL TAP	83080	83081	83082	29.82	29.82	29.82	29.82	29.82	29.82	29.82					

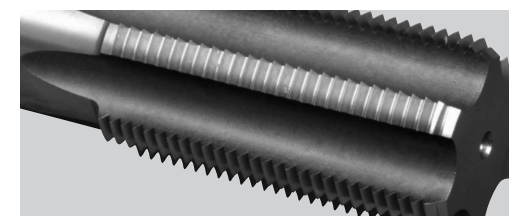
Please Note: Due to circumstances beyond our control, there are wide fluctuations in the price of HSS in the world market. If there is a surcharge, it will be added to the price and quoted at the time of purchase.

Popular Special Taps & Dies (Metrics) *Continued*

Size	Description	Part Number			Price/Quantity Levels											
		Taper	Plug	Bottom	1	2	3	6	12	24	48					
M20X1.5 (continued)	HSS RASD 2 OD RH		39058		48.93	38.96	31.61	31.61	31.61	31.61	31.61					
	+.005 4FL TAP	36857	36858	36859	38.64	38.64	35.28	35.28	35.28	35.28	30.87					
M20X2	HSS RASD 2 OD RH		39057		48.93	38.96	31.61	31.61	31.61	31.61	31.61					
M20X2.5	6H D6 3FL SPPT		83165		33.50	33.50	33.50	33.50	33.50	33.50	33.50					
	6H D7 4FL LH TAP	84080	84081	84082	32.76	32.76	32.76	32.76	32.76	32.76	32.76					
	6H D7 4FL TAP	83084	83085	83086	29.82	29.82	29.82	29.82	29.82	29.82	29.82					
	HSS RASD 2 OD LH		39056		63.32	49.14	31.61	31.61	31.61	31.61	31.61					
	HSS RASD 2 OD RH		3905													

Popular Special Taps & Dies (Metrics) *Continued*

Size	Description	Part Number		Price/Quantity Levels							
		Taper	Plug	Bottom	1	2	3	6	12	24	48
M32X3.5	HSS RASD 2 1/2 OD RH		39078		75.29	60.59	48.51	48.51	48.51	48.51	48.51
M33X2	6H D7 4FL SPPT		83269		116.55	116.55	116.55	116.55	116.55	116.55	116.55
	6H D7 4FL TAP	83120	83121	83122	81.59	81.59	81.59	81.59	81.59	81.59	81.59
	HSS RASD 2 1/2 OD RH		39082		75.29	60.59	48.51	48.51	48.51	48.51	48.51
M33X3	HSS RASD 2 1/2 OD RH		39081		75.29	60.59	48.51	48.51	48.51	48.51	48.51
M33X3.5	6H D9 4FL SPPT		83170		116.87	116.87	116.87	116.87	116.87	116.87	116.87
	6H D9 4FL TAP	83124	83125	83126	81.59	81.59	81.59	81.59	81.59	81.59	81.59
	HSS RASD 2 1/2 OD RH		39080		75.29	60.59	48.51	48.51	48.51	48.51	48.51
M34X3.5	HSS RASD 2 1/2 OD RH		39083		75.29	60.59	48.51	48.51	48.51	48.51	48.51
M35X1.5	6H D6 6FL TAP	83460	83461	83462	68.99	68.99	68.99	68.99	68.99	68.99	68.99
M36X1.5	6H D6 6FL TAP	83475	83476	83477	78.33	78.33	78.33	78.33	78.33	78.33	78.33
M36X2	6H D7 6FL TAP	83470	83471	83472	94.82	94.82	94.82	94.82	94.82	94.82	94.82
	HSS RASD 2 1/2 OD RH		39086		75.29	60.59	48.51	48.51	48.51	48.51	48.51
M36X3	6H D8 4FL SPPT		83270		163.07	163.07	163.07	163.07	163.07	163.07	163.07
	HSS RASD 2 1/2 OD RH		39085		75.29	60.59	48.51	48.51	48.51	48.51	48.51
	6H D8 4FL TAP	83128	83129	83130	137.87	137.87	137.87	137.87	137.87	137.87	137.87
M36X4	6H D9 4FL SPPT		83171		163.07	163.07	163.07	163.07	163.07	163.07	163.07
	6H D9 4FL TAP	83132	83133	83134	137.87	137.87	137.87	137.87	137.87	137.87	137.87
	HSS RASD 2 1/2 OD RH		39084		75.29	60.59	48.51	48.51	48.51	48.51	48.51
M37X1.588 PG 29	6FL TAP	83520	83521	83522	234.89	189.63	163.17	142.28	142.28	142.28	142.28
M38X4	HSS RASD 2 1/2 OD RH		39087		75.29	60.59	48.51	48.51	48.51	48.51	48.51
M39X2	HSS RASD 3 OD RH		39090		112.25	95.03	76.02	76.02	76.02	76.02	76.02
M39X3	6H D8 6FL TAP	83136	83137	83138	162.12	162.12	162.12	162.12	162.12	162.12	162.12
	6H D9 6FL SPPT		83172		187.64	187.64	187.64	187.64	187.64	187.64	187.64
	HSS RASD 3 OD RH		39089		114.98	95.03	76.02	76.02	76.02	76.02	76.02
M39X4	6H D9 6FL SPPT		83173		170.63	170.63	170.63	170.63	170.63	170.63	170.63
	6H D9 6FL TAP	83140	83141	83142	162.12	162.12	162.12	162.12	162.12	162.12	162.12
	HSS RASD 3 OD RH		39088		112.25	95.03	76.02	76.02	76.02	76.02	76.02
M40X1.5	6H D6 6FL TAP	83480	83481	83482	99.23	99.23	99.23	99.23	99.23	99.23	99.23
M42X1.5	6H D6 6FL TAP	83495	83496	83497	107.00	107.00	107.00	107.00	107.00	107.00	107.00
M42X4.5	6H D6 6FL TAP	83490	83491	83492	141.12	141.12	141.12	141.12	141.12	141.12	141.12
M47X1.588 PG 36	6FL TAP	83523	83524	83525	305.45	275.63	239.30	211.68	211.68	211.68	211.68
M54X1.588 PG 42	6FL TAP	83526	83527	83528	384.83	358.37	308.70	283.40	283.40	283.40	283.40
M59.3X1.588 PG 48	6FL TAP	83530	83531	83532	433.34	414.54	368.24	341.78	341.78	341.78	341.78



Long Series - Special Taps (Left or Right Hand)

Long Series – Special Taps are used for general machine cutting applications and are made to ANSI specifications. For special customer requirements, please send your blueprints to us for a prompt quotation.



Size	Max TPI	No. of Flutes	Part Number	Price/Quantity Levels					SP.PT Add	
				1	2	3-5	6-11	12-23		24 up
Inches	Metric									
#4		2	44008	80.54	58.28	39.48	24.57	13.86	11.03	0.84
#4		3	44009	80.54	58.28	39.48	24.57	13.86	11.03	0.84
#5	M3	2	44010	79.38	52.92	36.02	22.37	12.50	9.98	0.84
#5	M3	3	44011	79.38	52.92	36.02	22.37	12.50	9.98	0.84
#6	M3.5	2	44012	78.33	51.56	34.44	20.79	11.87	9.66	0.74
#6	M3.5	3	44013	78.33	51.56	34.44	20.79	11.87	9.66	0.74
#8	M4	2	44014	78.33	52.40	34.97	21.53	12.39	9.87	0.74
#8	M4	3	44015	78.33	52.40	34.97	21.53	12.39	9.87	0.74
#8	M4	4	44016	78.33	52.40	34.97	21.53	12.39	9.87	0.74
#10	M4.5,5	2	44017	78.33	52.50	35.07	21.74	12.50	9.98	0.74
#10	M4.5,5	3	44018	78.33	52.50	35.07	21.74	12.50	9.98	0.74
#10	M4.5,5	4	44019	78.33	52.50	35.07	21.74	12.50	9.98	0.74
#12	M5.5	2	44020	80.33	53.66	36.23	23.00	12.92	10.08	0.74
#12	M5.5	3	44021	80.33	53.66	36.23	23.00	12.92	10.08	0.74
#12	M5.5	4	44022	80.33	53.66	36.23	23.00	12.92	10.08	0.74
1/4	M6	64	44023	81.27	54.50	37.07	23.63	13.55	10.61	0.84
1/4	M6	64	44024	81.27	54.50	37.07	23.63	13.55	10.61	0.84
1/4	M6	64	44025	81.27	54.50	37.07	23.63	13.55	10.61	0.84
5/16	M7,8	64	44026	81.90	54.92	37.49	24.05	13.86	11.24	0.84
5/16	M7,8	64	44027	81.90	54.92	37.49	24.05	13.86	11.24	0.84
5/16	M7,8	64	44028	81.90	54.92	37.49	24.05	13.86	11.24	0.84
3/8	M9	64	44029	83.69	57.23	40.74	26.67	15.02	12.08	0.84
3/8	M9	64	44030	83.69	57.23	40.74	26.67	15.02	12.08	0.84
3/8	M9	64	44031	83.69	57.23	40.74	26.67	15.02	12.08	0.84
7/16	M10,11	64	44032	85.58	59.43	41.48	28.25	17.12	13.97	0.95
7/16	M10,11	64	44033	85.58	59.43	41.48	28.25	17.12	13.97	0.95
1/2	M12,13	64	44034	87.36	62.27	45.15	30.77	19.22	15.44	1.37
1/2	M12,13	64	44035	87.36	62.27	45.15	30.77	19.22	15.44	1.37
1/2	M12,13	64	44036	87.36	62.27	45.15	30.77	19.22	15.44	1.37
9/16	M14	64	44037	89.15	63.00	45.78	32.87	21.11	17.12	1.68
9/16	M14	64	44038	89.15	63.00	45.78	32.87	21.11	17.12	1.68
9/16	M14	64	44039	89.15	63.00	45.78	32.87	21.11	17.12	1.68
5/8	M15,16	64	44040	93.03	66.68	49.35	37.17	24.47	20.48	1.89
5/8	M15,16	64	44041	93.03	66.68	49.35	37.17	24.47	20.48	1.89
5/8	M15,16	64	44042	93.03	66.68	49.35	37.17	24.47	20.48	1.89
11/16	M17,18	64	44043	95.87	68.88	51.56	39.38	27.30	23.00	2.42
11/16	M17,18	64	44044	95.87	68.88	51.56	39.38	27.30	23.00	2.42
11/16	M17,18	64	44045	95.87	68.88	51.56	39.38	27.30	23.00	2.42
3/4	M19	64	44046	99.02	73.19	55.86	43.37	30.14	26.15	2.94
3/4	M19	64	44047	99.02	73.19	55.86	43.37	30.14	26.15	2.94
3/4	M19	64	44048	99.02	73.19	55.86	43.37	30.14	26.15	2.94
13/16	M20,21	64	44049	106.05	77.39	60.90	47.25	34.13	30.14	3.78
13/16	M20,21	64	44050	106.05	77.39	60.90	47.25	34.13	30.14	3.78
13/16	M20,21	64	44051	106.05	77.39	60.90	47.25	34.13	30.14	3.78
7/8	M22	64	44052	110.67	80.96	64.58	51.56	38.01	34.13	3.99
7/8	M22	64	44053	110.67	80.96	64.58	51.56	38.01	34.13	3.99
7/8	M22	64	44054	110.67	80.96	64.58	51.56	38.01	34.13	3.99
15/16	M23,24	64	44055	113.09	85.89	66.15	54.81	39.38	38.01	4.31
15/16	M23,24	64	44056	113.09	85.89	66.15	54.81	39.38	38.01	4.31
15/16	M23,24	64	44057	113.09	85.89	66.15	54.81	39.38	38.01	4.31
1	M25,26	64	44058	121.70	91.67	73.19	63.00	47.25	42.63	5.36
1	M25,26	64	44059	121.70	91.67	73.19	63.00	47.25	42.63	5.36
1	M25,26	64	44060	121.70	91.67	73.19	63.00	47.25	42.63	5.36
1 1/16	M27	13	44061	128.84	98.07	80.54	68.88	50.93	47.25	
1 1/16	M27	13	44062	128.84	98.07	80.54	68.88	50.93	47.25	
1 1/8										

Long Series - Special Taps (Left or Right Hand) *Continued*

Inches	Size Metric	Max TPI	No. of Flutes	Part Number	Price/Quantity Levels						SP.PT Add
					1	2	3-5	6-11	12-23	24 up	
1 1/4	M31,32	13	4	44067	147.42	120.23	102.69	90.83	70.35	65.73	
1 1/4	M31,32	13	6	44068	147.42	120.23	102.69	90.83	70.35	65.73	
1 5/16	M33,34	13	4	44069	164.54	129.47	111.62	97.76	75.92	68.88	
1 5/16	M33,34	13	6	44070	164.54	129.47	111.62	97.76	75.92	68.88	
1 3/8	M35	13	4	44071	167.37	139.55	120.23	104.48	78.65	70.98	
1 3/8	M35	13	6	44072	167.37	139.55	120.23	104.48	78.65	70.98	
1 7/16	M36,37	13	4	44073	180.29	154.67	133.14	111.30	85.89	77.39	
1 7/16	M36,37	13	6	44074	180.29	154.67	133.14	111.30	85.89	77.39	
1 1/2	M38	13	4	44075	187.43	170.42	138.81	130.31	93.03	83.06	
1 1/2	M38	13	6	44076	187.43	170.42	138.81	130.31	93.03	83.06	
1 5/8	M40,41	9	6	44078	209.48	190.37	142.49	133.46	113.09	97.44	
1 3/4	M44	9	6	44080	220.50	200.34	164.54	157.50	138.81	121.70	
1 7/8	M47,48	9	6	44082	253.58	234.68	203.28	184.59	157.50	148.89	
2	M49-51	9	6	44083	264.60	246.12	213.15	196.04	175.98	157.50	
2 1/8	M52-54	9	6	44084	286.65	266.18	233.31	216.09	194.67	178.92	
2 1/4	M55-58	9	6	44085	352.80	331.91	292.01	263.34	238.98	221.76	
2 3/8	M59-61	9	6	44086	373.80	343.35	309.23	280.46	250.43	236.15	
2 1/2	M62-64	9	6	44087	395.85	372.12	329.18	303.35	276.15	261.87	
2 5/8	M65-67	9	6	44088	418.95	402.15	357.84	329.18	296.31	279.09	
2 3/4	M68-70	9	6	44089	518.18	429.24	407.72	372.12	350.49	329.18	
2 7/8	M71-74	9	6	44090	540.23	500.85	429.24	393.54	364.88	343.35	
3	M75-77	9	6	44091	593.67	534.35	486.78	427.46	391.76	368.03	
3	M75-77	9	8	44092	593.67	534.35	486.78	427.46	391.76	368.03	
3 1/8	M78-80	9	8	44093	611.73	550.52	501.59	440.48	403.83	379.26	
3 1/4	M81-83	9	8	44094	629.58	566.58	516.29	453.29	415.59	390.29	
3 3/8	M84-86	9	8	44095	683.24	614.88	560.39	492.03	450.98	423.68	
3 1/2	M87-89	9	8	44096	736.89	663.18	604.17	530.57	486.36	456.96	
3 5/8	M90-92	9	8	44097	812.07	730.91	665.81	584.75	536.03	503.48	
3 3/4	M93-96	9	8	44098	887.15	798.42	727.44	638.72	585.48	550.10	
3 7/8	M97-99	9	8	44099	922.95	830.66	756.84	664.55	609.21	572.25	
4	M100	9	8	44100	958.65	862.79	786.14	690.17	632.73	594.41	

We stock the largest tap blanks in the world, up to 8" diameter.

UNM Taps & Dies Available.

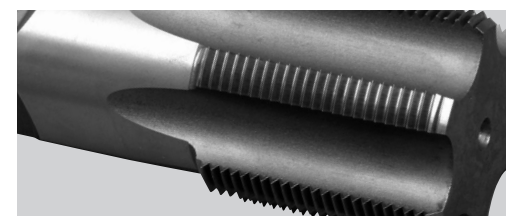
Surface Treatments Available.

- A - Steam Oxide
- B - Chrome
- C - Titanium Nitride

Consult Factory for Larger Sizes, Prices and Delivery.

See page 48-49 (Table 302 - Ground Thread Length Tap Dimensions)

Please Note: Due to circumstances beyond our control, there are wide fluctuations in the price of HSS in the world market. If there is a surcharge, it will be added to the price and quoted at the time of purchase.



Short Series - Special Taps (Left or Right Hand)

Short Series – Special Taps are used for finer thread machine tool applications and are made to ANSI specifications. For special customer requirements, please send your blueprints to us for a prompt quotation.



Inches	Size Metric	Max TPI	No. of Flutes	Part Number	Price/Quantity Levels						
					1	2	3-5	6-11	12-23	24 up	
1 1/16	M27	55	4	45000	120.23	94.50	76.97	64.58	46.94	43.37	
1 1/16	M27	55	6	45001	120.23	94.50	76.97	64.58	46.94	43.37	
1 1/8	M28,29	55	4	45002	120.23	94.50	76.97	64.58	46.94	43.37	
1 1/8	M28,29	55	6	45003	120.23	94.50	76.97	64.58	46.94	43.37	
1 3/16	M30	55	4	45004	133.14	101.75	83.69	70.04	50.09	45.78	
1 3/16	M30	55	6	45005	133.14	101.75	83.69	70.04	50.09	45.78	
1 1/4	M31,32	55	4	45006	135.98	107.42	88.73	75.92	57.23	54.50	
1 1/4	M31,32	55	6	45007	135.98	107.42	88.73	75.92	57.23	54.50	
1 5/16	M33,34	55	4	45008	143.12	110.25	93.03	80.22	61.53	57.23	
1 5/16	M33,34	55	6	45009	143.12	110.25	93.03	80.22	61.53	57.23	
1 3/8	M35	55	4	45010	143.33	114.56	97.44	83.06	64.58	60.90	
1 3/8	M35	55	6	45011	143.33	114.56	97.44	83.06	64.58	60.90	
1 7/16	M36,37	55	4	45012	153.30	118.76	103.11	85.89	71.61	65.73	
1 7/16	M36,37	55	6	45013	153.30	118.76	103.11	85.89	71.61	65.73	
1 1/2	M38	55	4	45014	158.97	124.53	107.42	93.03	77.39	71.61	
1 1/2	M38	55	6	45015	158.97	124.53	107.42	93.03	77.39	71.61	
1 9/16	M39,40	55	6	45016	173.25	156.66	133.67	117.18	98.18	80.43	
1 5/8	M41	55	6	45017	181.97	164.54	140.39	123.06	103.11	84.53	
1 11/16	M42,43	55	6	45018	178.50	167.58	138.92	126.74	107.63	94.08	
1 3/4	M44	55	6	45019	187.43	175.98	145.95	133.14	113.09	98.81	
1 13/16	M45,46	55	6	45020	189.00	177.14	149.94	136.29	117.18	102.27	
1 7/8	M47,48	55	6	45021	198.45	186.06	157.50	143.12	123.06	107.42	
2	M49-51	47	6	45022	209.48	193.10	171.68	150.26	133.14	118.76	
2 1/8	M52-54	47	6	45023	253.58	236.15	200.34	186.06	164.54	150.26	
2 1/4	M55-58	47	6	45024	275.63	257.57	221.76	207.59	186.06	171.68	
2 3/8	M59-61	47	6	45025	293.27	271.85	236.15	221.76	207.59	186.06	
2 1/2	M62-64	47	6	45026	330.75	314.79	279.09	250.43	221.76	201.08	
2 5/8	M65-67	47	6	45027	352.80	336.21	293.27	264.60	243.29	229.01	
2 3/4	M68-70	47	6	45028	374.85	350.49	307.65	279.09	257.57	243.29	
2 7/8	M71-74	47	6	45029	385.88	372.12	329.18	300.62	279.09	257.57	
3	M75-77	35	6	45030	407.93	393.54	350.49				
3	M75-77	35	8	45031	407.93	393.54	350.49				
3 1/8	M78-80	35	8	45032	500.85	450.77	379.16				
3 1/4	M81-83	35	8	45033	518.18	472.29	400.68				
3 3/8	M84-86	35	8	45034	540.23	493.61	422.10				
3 1/2	M87-89	35	8	45035	572.36	522.27	450.77				
3 5/8	M90-92	35	8	45036	584.33	550.83	479.33				
3 3/4	M93-96	35	8	45037	617.40	586.74	515.24				
3 7/8	M97-99	35	8	45038	650.48	615.41	536.66				
4	M100	35	8	45039	672.53	643.86	572.36				

Prices Available Upon Request

We stock the largest tap blanks in the world, up to 8" diameter.

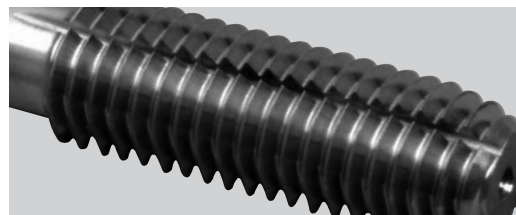
Cobalt Taps Available.

Surface Treatments Available.

- A - Steam Oxide
- B - Chrome
- C - Titanium Nitride

Consult Factory for Larger Sizes, Prices and Delivery.

Please Note: Due to circumstances beyond our control, there are wide fluctuations in the price of HSS in the world market. If there is a surcharge, it will be added to the price and quoted at the time of purchase.



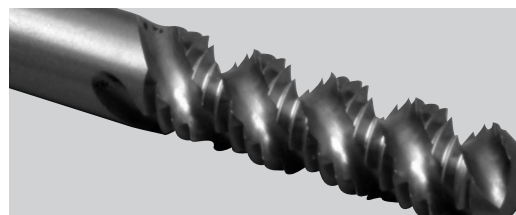
Forming Taps (Left or Right Hand)

These taps are fluteless except as optionally designed with one or more lubrication grooves. This tap does not cut so it is "chipless". The thread form is lobed so there is a finite number of points contacting the work. This design provides faster tapping speeds, higher production and high quality threads. Since it generates no chips, it simplifies tapping of blind bottoming holes.



Special Forming Taps HSS Left or Right Hand-Table 302

Size		Part Number	Price/Quantity Levels					
Inches	Metric		1	2	3-5	6-11	12-23	24 up
#5	M3	30000	84.21	55.55	37.49	23.63	13.23	10.71
#6	M3.5	30001	82.64	54.08	36.23	21.95	12.39	10.08
#8	M4	30002	83.06	54.92	36.86	22.68	13.13	10.50
#10	M4.5, 5	30003	83.37	55.13	37.07	23.00	13.23	10.61
#12	M5.5	30004	84.21	56.39	38.01	24.05	13.65	10.71
1/4	M6	30005	85.58	57.23	39.06	24.89	14.07	11.03
5/16	M7, M8	30006	86.00	57.65	39.38	25.31	14.60	11.76
3/8	M9	30007	87.99	60.17	42.53	27.93	15.86	12.71
7/16	M10, 11	30008	89.88	62.37	43.68	29.82	18.27	14.60
1/2	M12, 13	30009	91.77	65.42	47.46	32.45	20.48	16.28
9/16	M14	30010	93.45	66.15	48.20	34.65	22.37	18.17
5/8	M15, 16	30011	97.76	69.93	51.87	39.06	25.52	21.53
3/4	M19	30012	104.16	76.76	58.70	45.47	31.71	27.51
7/8	M22, 23	30013	116.13	84.53	60.27	54.08	40.01	32.97
1	M25, 26	30014	120.54	85.16	67.62	56.28	42.21	36.02



Spiral Flute Taps - Special (Right Hand Only)

Spiral Flute Taps are designed for easy removal of chips from blind holes and for tapping holes in which a keyway or opening must be bridged by the tap lands. Commonly available in slow spiral (25-30° helix angle or fast spiral, 45-60°).



Size	Max TPI	Metric Size	No. of Flutes		Part Number	Price/Quantity Levels							
			Slow	Fast		Slow	Fast	1	2	3-5	6-11	12-23	24-27
#4	80		2	3	61003	60008	83.69	60.90	42.32	27.93	16.49	13.86	12.18
#5	80	M3	2	3	61001	60009	83.69	60.90	42.32	27.93	16.49	13.86	12.18
#6	80	M3.5	2	3	61000	60001	80.96	58.38	39.69	25.83	15.44	12.50	11.03
#8	80	M4	2	3	61002	60003	80.96	58.38	39.69	25.83	15.44	12.50	11.03
#10	80	M4.5, 5	2	3	61004	60005	82.53	58.59	41.16	26.04	15.86	12.81	11.45
#12	80	M5.5	2	3	61006	60007	83.06	60.17	41.79	27.51	16.17	13.76	11.76
#14	80		2	3	61008		79.70	57.96	40.22	26.57	15.65	13.13	11.55
1/4	80	M6	2	3	61010	60011	83.69	60.90	42.32	27.93	16.49	13.86	12.18
5/16	80	M7, 8	3	3	61012	60013	84.84	61.95	43.05	28.56	17.12	14.39	12.71
3/8	80	M9	3	3	61014	60015	87.68	65.21	45.78	31.61	19.01	16.17	13.76
7/16	80	M10, 11	3	4	61016	60017	90.20	67.94	48.72	34.44	21.95	18.90	16.49
1/2	80	M12, 13	3	4	61018	60019	92.61	70.04	51.24	37.49	24.78	21.11	18.69
9/16	64	M14	3	4	61020	60021	98.49	74.76	59.43	40.53	26.99	23.31	21.00
5/8	64	M15, 16	4	4	61022	60023	103.11	79.07	59.85	45.15	31.61	27.93	25.83
11/16	64		4	4	61023	60022	106.58	84.11	70.14	52.19	37.49	34.23	32.03
3/4	64	M19	4	4	61024	60025	111.93	88.41	73.71	54.81	39.38	36.02	33.71
13/16	64	M20, 21	4	4	61025	60026	132.30	106.05	87.15	69.30	49.35	46.20	42.00
7/8	64	M22	4	4	61026	60028	139.65	111.30	90.30	74.55	54.60	50.40	44.10
15/16	64	M23, 24	4	4	61028	60031	150.15	120.75	99.75	84.00	63.00	58.80	54.60
1	64	M25, 26	4	4	61030	60032	157.50	126.00	105.00	94.50	70.35	66.15	58.80

Plug chamfer on Fast Spiral Flute add 20%.
Consult Factory for Larger Sizes, Prices and Delivery.

We stock the largest spiral flute taps in the world, up to 3" diameter.

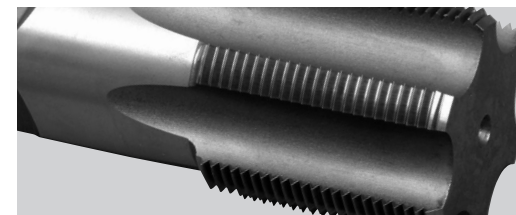
Slow (30° Helix) - Slow Spiral will provide a lifting action for chip removal in deep or blind holes.

PLUG OR BOTTOMING

FAST (52° Helix) - Fast Spiral will provide an even greater lift action when tapping very deep holes or blind holes in soft steels.

BOTTOMING ONLY

Please Note: Due to circumstances beyond our control, there are wide fluctuations in the price of HSS in the world market. If there is a surcharge, it will be added to the price and quoted at the time of purchase.



Pipe Taps - Special (Left or Right Hand)

These taps are for internal threading of pipe, pipe fittings, or holes in which threaded pipe is to be assembled. Pipe taps are also available with an interrupted thread that allows for better lubrication and lessens friction therefore making them ideal for tapping tough materials. Also available with a spiral flute that makes them effective when tapping in a material that produces a long stringy chip and lifts the chip up, out of the hole being tapped.

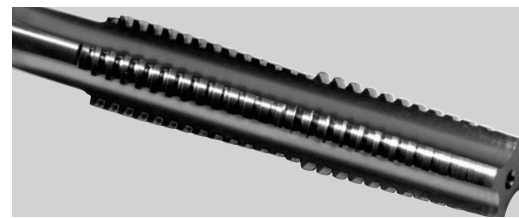


Size	No. of Flutes	Part Number		Price/Quantity Levels						
		NPS	NPT	1	2	3-5	6-11	12-23	24-47	48-Up
1/16	4	62000	62001	77.39	51.77	36.75	23.84	14.18	10.50	9.14
1/16 W/SM SHANK	4	62002	62003	77.39	51.77	36.75	23.84	14.18	10.50	9.14
1/8	4	62004	62005	80.01	54.50	38.75	26.36	16.28	13.23	11.45
1/8 W/SM SHANK	4	62006	62007	80.01	54.50	38.75	26.36	16.28	13.23	11.45
1/4	4	62008	62009	85.16	58.17	42.95	31.40	20.69	16.38	14.07
3/8	4	62010	62011	90.09	62.90	47.04	36.44	25.20	21.53	19.11
1/2	4	62012	62013	103.11	73.82	59.33	48.41	34.76	30.87	29.09
3/4	5	62014	62015	113.09	81.48	66.78	56.07	41.79	37.70	36.02
1	5	62016	62017	135.24	99.86	85.16	74.03	60.06	53.97	46.20
1 1/4	5	62018	62019	167.37	141.65	122.43	108.26	90.20	76.76	67.62
1 1/2	7	62020	62021	199.71	167.37	148.16	135.24	117.29	102.69	90.72
2	7	62022	62023	257.57	219.03	193.10	173.88	154.67	135.24	119.49
2 1/2	7	62024	62025	386.40	321.93	309.23	289.80	257.57	231.53	206.75
3	8	62026	62027	515.24	450.77	425.04	373.49	321.93	257.57	226.38
3 1/2	8	62028	62029	676.10	579.39	518.39	463.68	412.02	344.82	325.29
4	10	62030	62031	837.06	708.33	611.73	547.37	482.90	416.33	369.50
5	10	62034	62035				Consult Factory			
6	10	62036	62037				Consult Factory			

Also Available:
Cobalt Pipe Tap
Interrupted Thread
Spiral Flute Pipe Taps
Special Projections
Metric Pipe

Consult Factory for Larger Sizes, Prices and Delivery.

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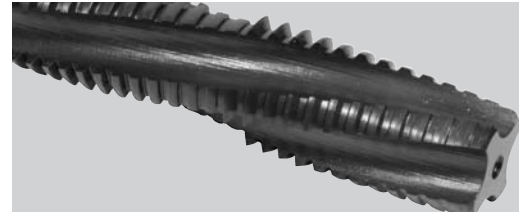


Straight Flute Tandem Taps - Special

These taps combine the initial roughing cut with the finishing cut, all in one pass to achieve an ACME screw thread. These taps are economical and increase production levels by saving on the operation of two tools. ACME thread pitches are generally coarse relative to diameters and are subjected to heavy chip loads.



Size	Part Number	Price/Quantity Levels			
		1	2	3-5	6
1/4	37159	126.00	118.65	96.60	86.10
5/16	37200	128.10	102.90	89.25	80.85
3/8	37157	136.50	118.65	96.60	86.10
7/16	37158	140.70	118.65	96.60	86.10
1/2	37141	140.70	118.65	96.60	86.10
9/16	37142	148.05	128.10	109.20	98.70
5/8	37143	148.05	128.10	109.20	98.70
11/16	37144	171.15	152.25	132.30	124.95
3/4	37145	171.15	152.25	132.30	124.95
13/16	37146	174.30	155.40	135.45	127.05
7/8	37147	174.30	155.40	135.45	127.05
15/16	37148	234.15	211.05	186.90	163.80
1	37149	234.15	211.05	186.90	163.80
1 1/8	37150	262.50	231.00	199.50	178.50
1 1/4	37151	267.75	236.25	204.75	194.25
1 3/8	37152	299.25	262.50	231.00	210.00
1 1/2	37153	330.75	294.00	252.00	220.50
1 5/8	37154	388.50	325.50	278.25	252.00
1 3/4	37155	393.75	343.35	288.75	262.50
2	37156	451.50	393.75	325.50	304.50
2 1/4	37160	541.80	472.50	390.60	365.40
2 1/2	37161	651.00	567.00	469.35	441.00
3	37162	911.40	793.80	657.30	619.50



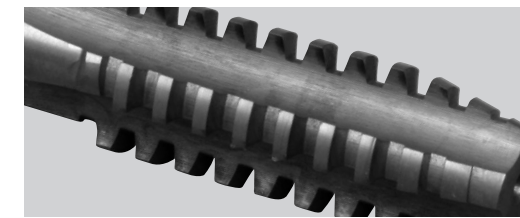
Spiral Flute Tandems - Special

These taps combine the initial roughing cut with the finishing cut, all in one pass to achieve an ACME screw thread. These taps are economical and increase production levels by saving on the operation of two tools. ACME thread pitches are generally coarse relative to diameters and are subjected to heavy chip loads.



Size	Part Number		Price/Quantity Levels			
	RH CUT LH Spiral	LH CUT RH Spiral	1	2	3-5	6
1/2	37166	37206	182.70	154.35	126.00	112.35
9/16	37167	37207	192.15	166.95	141.75	128.10
5/8	37168	37208	192.15	166.95	141.75	128.10
11/16	37169	37209	222.60	198.45	172.20	162.75
3/4	37170	37210	222.60	198.45	172.20	162.75
13/16	37171	37211	226.80	202.65	176.40	165.90
7/8	37172	37212	226.80	202.65	176.40	165.90
15/16	37173	37213	304.50	275.10	243.60	213.15
1	37174	37214	304.50	275.10	243.60	213.15
1 1/8	37175	37215	341.25	300.30	259.35	232.05
1 1/4	37176	37216	348.60	307.65	266.70	253.05
1 3/8	37177	37217	388.50	341.25	300.30	273.00
1 1/2	37178	37218	430.50	382.20	327.60	286.65
1 5/8	37179	37219	505.05	423.15	362.25	327.60
1 3/4	37180	37220	512.40	446.25	375.90	341.25
1 7/8	37182		420.00	367.50	309.75	288.75
2	37181	37221	588.00	512.40	423.15	395.85

Please Note: Due to circumstances beyond our control, there are wide fluctuations in the price of HSS in the world market. If there is a surcharge, it will be added to the price and quoted at the time of purchase.



ACME Taps - Special (Left or Right Hand)

ACME screw threads are made to allow rotary and transversing motion on machines. They are also used in jacks, valves, presses and any other mechanism where heavy loads are encountered. The ACME thread is characterized by a 29° included angle. ACME taps typically require specialized engineering and design due to the nature and severity of cut required in producing ACME threads.



Size	No. of Flutes	Part Number	Price/Quantity Levels					
			1	2	3-5	6-11	12-23	24-Up
1/4	4	37225	105.84	70.56	51.87	33.08	18.90	14.91
5/16	4	37228	105.84	71.72	52.50	33.71	19.32	15.65
3/8	4	37231	107.00	71.72	56.28	37.28	21.00	16.91
7/16	4	37233	108.05	72.77	57.33	39.59	23.94	19.53
1/2	4	37235	109.20	73.92	58.49	43.16	26.88	21.63
9/16	4	37238	110.25	76.13	59.54	46.10	29.51	23.94
5/8	4	37241	113.61	79.38	63.95	52.08	34.13	28.56
11/16	4	37244	114.66	80.54	65.10	55.13	38.22	32.13
3/4	4	37247	116.87	82.74	67.31	60.69	40.85	36.65
13/16	4	37250	119.07	84.95	69.51	66.15	43.05	40.85
7/8	4	37253	125.69	92.61	73.92	72.14	47.46	45.26
15/16	4	37256	127.89	103.64	81.59	76.76	51.87	49.67
1	4	37259	140.07	112.46	90.41	88.20	57.33	54.08
1 1/8	4	37263	157.71	133.46	116.87	105.32	81.06	74.13
1 1/4	4	37267	167.58	141.12	127.05	122.43	98.49	92.09
1 3/8	4	37271	185.22	155.51	146.27	130.10	110.15	99.33
1 1/2	4	37275	205.07	184.17	182.39	154.35	130.20	116.24
	6	37276	205.07	184.17	182.39	154.35	130.20	116.24

GENERAL DIMENSIONS FOR ACME TANDEM TAPS

Size & Pitch	Overall Length	Thread Length	Round Shank		Square Length	Across Flats	Max Depth of Nut	
			Length	Diameter			Bronze & Steel	Brass & Cast Iron
1/2-10	5	2 9/16	2	0.367	7/16	0.275	1	1-1/2
5/8-8	6-1/4	3-3/16	2 1/2	0.480	9/16	0.360	1-1/4	1-7/8
3/4-6	7-15/16	4-5/16	3	0.573	5/8	0.430	1-1/2	2-1/4
7/8-6	8-5/8	4-3/8	3 1/2	0.697	3/4	0.523	1-3/4	2-5/8
1-5	10-1/8	5-1/4	4	0.730	7/8	0.547	2	3
1-1/8-5	10-3/4	5-1/4	4 1/2	0.862	1	0.646	2-1/4	3-3/8
1-1/4-5	11-1/8	5-1/4	4 3/4	0.959	1 1/8	0.719	2-1/2	3-3/4
1-3/8-4	12-1/4	5-7/8	5 1/8	1.108	1 1/4	0.831	2-3/4	4-1/8
1-1/2-4	12-5/8	5-7/8	5 1/2	1.233	1 1/4	0.925	3	4-1/2

ACME/Trapezoidal Special Tandem Taps Available.
Standard ACME Tandem Available.
See Popular Special Selection.

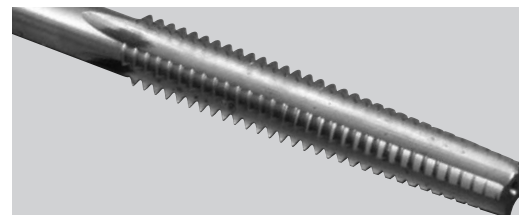
Consult Factory for Larger Sizes, Prices and Delivery.

ORDERING INFORMATION NEEDED FOR ACME TAPS

To accurately determine our customers specific needs in ACME taps, it is essential that we obtain the following information:

1. Major diameter and threads per inch.
2. Minor diameter.
3. Right or Left Handed.
4. Material being tapped.
5. Is tap to go through, or bottom, or to be backed out.
6. Pitch diameter of GO and NO GO plug gages. (Unless GO plug gage pitch diameter is given, tap pitch diameter will be established from basic pitch diameter.)
7. Finishing taps furnished separately require customer to provide largest roughing tap in set.
8. A diagram as illustrated below is desirable:

Please Note: Due to circumstances beyond our control, there are wide fluctuations in the price of HSS in the world market. If there is a surcharge, it will be added to the price and quoted at the time of purchase.



Nut Taps - Special (Left or Right Hand)

Nut taps feature a long chamfer which assists in entering the drilled hole and distributes the cutting action over several teeth. These taps were initially designed for tapping nuts and have a long thread length. The shank is smaller than the taps minor diameter to allow the accumulation of several nuts after tapping. Nut taps also feature an extended square length.



Size	Overall Length	No. of Flutes	Part Number	Price/Quantity Levels			
				1	2	6-11	12-23
1/4	5	4	52000	90.20	61.01	39.06	28.04
5/16	5 1/2	4	52001	90.62	62.27	40.32	30.66
3/8	6	4	52002	94.50	66.99	43.79	31.61
7/16	6 1/2	4	52003	98.39	68.57	46.94	34.65
1/2	7	4	52004	98.39	71.40	48.93	36.23
9/16	7 1/2	4	52005	99.96	72.24	52.40	40.01
5/8	8	4	52006	105.53	78.33	59.01	44.84
11/16	8 1/2	4	52007	108.89	81.80	62.58	49.25
3/4	9	4	52008	115.50	88.41	68.57	55.65
7/8	10	4	52009	122.43	97.55	78.02	65.52
1	11	4	52010	138.81	110.78	94.19	81.38

Surface Treatments Available.

A - Steam Oxide

B - Chrome

C - Titanium Nitride

Consult Factory for Larger Sizes, Prices and Delivery.

TABLE 306 NUT TAPS

Tap Diameter	Threads Per Inch			Overall Length A	Dimensions - Inches			
	NC UNC	NF UNF	NS or UN		Thread Length B	Square Length C	Shank Diameter D	Square Size E
1/16			24	4 1/2	1 3/8	1/2	0.133	0.100
1/16			32	4 1/2	1	1/2	0.133	0.100
1/4	20			5	1 5/8	9/16	0.185	0.139
1/4		28		5	1 1/4	9/16	0.185	0.139
5/16	18			5 1/2	1 13/16	5/8	0.240	0.180
5/16		24		5 1/2	1 3/8	5/8	0.240	0.180
3/8	16			6	2	11/16	0.294	0.220
3/8		24		6	1 1/2	11/16	0.294	0.220
7/16	14			6 1/2	2 3/8	3/4	0.345	0.259
7/16		20		6 1/2	1 3/4	3/4	0.345	0.259
1/2	13			7	2 1/2	7/8	0.400	0.300
1/2		20		7	1 7/8	7/8	0.400	0.300
9/16	12			7 1/2	2 3/4	7/8	0.450	0.337
9/16		18		7 1/2	2	7/8	0.450	0.337
5/8	11			8	3	15/16	0.503	0.377
5/8		18		8	2 1/4	15/16	0.503	0.377
11/16			11	8 1/2	3	1	0.565	0.424
11/16			16	8 1/2	2 1/4	1	0.565	0.424
3/4	10			9	3 1/4	1	0.616	0.462
3/4		16		9	2 1/2	1	0.616	0.462
7/8	9			10	3 5/8	1 1/16	0.727	0.545
7/8		14		10	3 5/8	1 1/16	0.727	0.545
7/8			18	10	3 5/8	1 1/16	0.727	0.545
1	8			11	4	1 1/8	0.834	0.625
1		12		11	3 1/2	1 1/8	0.834	0.625
1			14	11	3	1 1/8	0.834	0.625
1 1/8	7			11 1/2	4 3/4	1 1/4	0.933	0.700
1 1/8		12		11 1/2	3 1/2	1 1/4	0.933	0.700
1 1/4	7			12	4 3/4	1 5/16	1.058	0.793
1 1/4		12		12	3 1/2	1 5/16	1.058	0.793
1 5/8	6			12 1/2	5 3/8	1 3/8	1.153	0.865
1 5/8		12		12 1/2	4	1 3/8	1.153	0.865
1 1/2	6			13	5 3/8	1 1/2	1.278	0.958
1 1/2		12		13	4	1 1/2	1.278	0.958

Please Note: Due to circumstances beyond our control, there are wide fluctuations in the price of HSS in the world market. If there is a surcharge, it will be added to the price and quoted at the time of purchase.



Extension Pipe Taps - Special (Left or Right Hand)

Extension Pipe Taps are excellent to use for hard to reach holes. Available with small or large shanks, right or left hand.

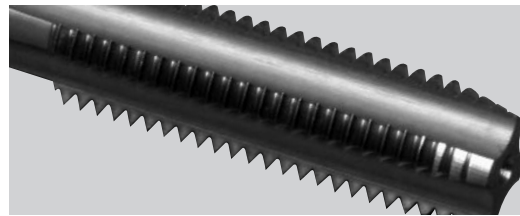


Size	Overall Length	No. of Flutes	Part Number		Price/Quantity Levels			
			NPT	NPS	1	2-5	6-11	12-Up
1/16	6	4	57000	57001	86.31	59.22	38.43	29.30
1/16	8	4	57002	57003	89.99	61.53	39.38	30.77
1/16	10	4	57004	57005	93.66	63.74	40.95	32.34
1/16	12	4	57006	57007	97.55	65.94	42.53	33.50
1/8	6	4	57008	57009	93.66	65.21	44.73	32.97
1/8	8	4	57010	57011	97.55	68.25	46.62	34.55
1/8	10	4	57012	57013	101.22	70.88	48.41	35.70
1/8	12	4	57014	57015	105.00	73.61	50.19	37.17
1/8	6	4	57072	57073	93.66	65.21	44.73	32.97
1/8	8	4	57074	57075	97.55	68.25	46.62	34.55
1/8	10	4	57076	57077	101.22	70.88	48.41	35.70
1/8	12	4	57078	57079	105.00	73.61	50.19	37.17
1/4	6	4	57016	57017	95.24	68.88	49.88	38.12
1/4	8	4	57018	57019	99.02	72.24	52.08	39.38
1/4	10	4	57020	57021	103.11	74.87	53.97	41.16
1/4	12	4	57022	57023	107.21	77.91	55.97	42.84
3/8	6	4	57024	57025	103.64	77.91	59.54	46.94
3/8	8	4	57026	57027	107.84	81.17	61.95	49.04
3/8	10	4	57028	57029	112.46	84.42	64.47	51.03
3/8	12	4	57030	57031	117.08	87.57	67.31	52.82
1/2	6	4	57032	57033	116.55	92.93	74.24	62.48
1/2	8	4	57034	57035	121.91	97.02	77.91	65.21
1/2	10	4	57036	57037	127.16	101.22	81.17	68.04
1/2	12	4	57038	57039	132.62	105.42	84.42	76.13
3/4	6	5	57040	57041	150.89	127.47	107.84	92.40
3/4	8	5	57042	57043	157.50	133.04	113.09	96.60
3/4	10	5	57044	57045	164.01	138.60	118.13	100.80
3/4	12	5	57046	57047	171.15	144.38	122.75	105.00
1	6	5	57048	57049	191.21	165.80	142.49	129.68
1	8	5	57050	57051	200.55	173.46	149.94	135.98
1	10	5	57052	57053	210.00	181.13	157.50	142.28
1	12	5	57054	57055	218.61	189.32	164.01	148.68
1 1/4	6	5	57056	57057	275.42	226.38	216.51	203.49
1 1/4	8	5	57058	57059	288.54	237.09	226.70	212.73
1 1/4	10	5	57060	57061	301.67	247.91	237.09	222.08
1 1/4	12	5	57062	57063	314.79	258.62	247.49	230.58
1 1/2	6	7	57064	57065	343.56	305.55	268.07	201.81
1 1/2	8	7	57066	57067	357.11	313.01	281.09	273.42
1 1/2	10	7	57068	57069	370.44	320.57	294.32	277.31
1 1/2	12	7	57070	57071	384.20	327.92	307.44	281.09

Cobalt Extensions Available.

Consult Factory for Larger Sizes, Prices and Delivery.

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Extension Taps - Special (Left or Right Hand)

These taps are made to conventional tap dimensions except that they have an extended shank to get to hard to reach holes. Thread length, shank diameter and shank square are made to specifications listed in Table 302. Extension taps are available in hand, spiral point with a small or large shank.



Size	Overall Length	No. of Flutes	Part Number			Price/Quantity Levels			
			Pulley	Extension	S/Shank	1	2-6	6-11	12-Up
1/4	6	2	59030	56120	56123	90.20	61.01	39.06	28.04
1/4	6	3	59031	56121	56124	90.20	61.01	39.06	28.04
1/4	6	4	59032	56122	56125	90.20	61.01	39.06	28.04
1/4	8	2	59033	56126	56129	93.77	64.26	40.74	29.19
1/4	8	3	59034	56127	56130	93.77	64.26	40.74	29.19
1/4	8	4	59035	56128	56131	93.77	64.26	40.74	29.19
1/4	10	2		56132	56135	97.34	66.99	42.63	30.35
1/4	10	3		56133	56136	97.34	66.99	42.63	30.35
1/4	10	4		56134	56137	97.34	66.99	42.63	30.35
1/4	12	2		56138	56141	100.38	69.09	44.10	31.61
1/4	12	3		56139	56142	100.38	69.09	44.10	31.61
1/4	12	4		56140	56143	100.38	69.09	44.10	31.61
5/16	6	2	59036	56144	56147	90.62	62.27	40.32	30.66
5/16	6	3	59037	56145	56148	90.62	62.27	40.32	30.66
5/16	6	4	59038	56146	56149	90.62	62.27	40.32	30.66
5/16	8	2	59039	56150	56153	94.50	64.68	41.37	32.34
5/16	8	3	59040	56151	56154	94.50	64.68	41.37	32.34
5/16	8	4	59041	56152	56155	94.50	64.68	41.37	32.34
5/16	10	2		56156	56159	98.39	66.99	43.05	34.02
5/16	10	3		56157	56160	98.39	66.99	43.05	34.02
5/16	10	4		56158	56161	98.39	66.99	43.05	34.02
5/16	12	2		56162	56165	102.38	69.30	44.63	35.07
5/16	12	3		56163	56166	102.38	69.30	44.63	35.07
5/16	12	4		56164	56167	102.38	69.30	44.63	35.07
3/8	6	2	59042	56345	56346	94.50	66.99	43.79	31.61
3/8	6	3	59043	56168	56170	94.50	66.99	43.79	31.61
3/8	6	4	59044	56169	56171	94.50	66.99	43.79	31.61
3/8	8	2	59045	56347	56348	98.39	69.30	46.10	32.66
3/8	8	3	59046	56172	56174	98.39	69.30	46.10	32.66
3/8	8	4	59047	56173	56175	98.39	69.30	46.10	32.66
3/8	10	3		56176	56178	102.38	72.03	47.99	34.02
3/8	10	4		56177	56179	102.38	72.03	47.99	34.02
3/8	12	3		56180	56182	106.37	74.87	49.88	35.07
3/8	12	4		56181	56183	106.37	74.87	49.88	35.07
7/16	6	3	59048	56184	56185	98.39	68.57	46.94	34.65
7/16	6	4	59049	56185	56186	98.39	68.57	46.94	34.65
7/16	8	3	59050	56188	56189	102.38	71.72	48.93	36.33
7/16	8	4	59051	56189	56190	102.38	71.72	48.93	36.33
7/16	10	3		56190	56191	106.37	74.34	50.93	37.38
7/16	10	4		56191	56192	106.37	74.34	50.93	37.38
7/16	12	3		56192	56193	110.25	77.18	52.71	39.06
7/16	12	4		56193	56194	110.25	77.18	52.71	39.06
1/2	6	3	59052	56194	56195	98.39	71.40	48.93	36.23
1/2	6	4	59053	56195	56196	98.39	71.40	48.93	36.23
1/2	6	6	59054	56196	56197	98.39	71.40	48.93	36.23
1/2	8	3	59055	56200	56201	102.80	74.24	50.93	37.38
1/2	8	4	59056	56201	56202	102.80	74.24	50.93	37.38
1/2	8	6	59057	56202	56203	102.80	74.24	50.93	37.38
1/2	10	3		56203	56204	107.42	77.91	53.13	38.96
1/2	10	4		56204	56205	107.42	77.91	53.13	38.96
1/2	10	6		56205	56206	107.42	77.91	53.13	38.96
1/2	12	3		56206	56207	111.83	81.38	55.13	40.64
1/2	12	4		56207	56208	111.83	81.38	55.13	40.64
1/2	12	6		56208	56209	111.83	81.38	55.13	40.64
9/16	6	3	59058	56209	56210	99.96	72.24	52.40	40.01
9/16	6	4	59059	56210	56211	99.96	72.24	52.40	40.01
9/16	6	6	59060	56211	56212	99.96	72.24	52.40	40.01
9/16	8	3	59061	56212		104.06	75.92	54.71	41.37
9/16	8	4	59062	56213		104.06	75.92	54.71	41.37

Please Note: Due to circumstances beyond our control, there are wide fluctuations in the price of HSS in the world market. If there is a surcharge, it will be added to the price and quoted at the time of purchase.

Extension Taps - Special (Left or Right Hand) Continued

Size	Overall Length	No. of Flutes	Part Number			Price/Quantity Levels			
			Pulley	Extension	S/Shank	1	2-6	6-11	12-Up
9/16	8	6	59063		56214	104.06	75.92	54.71	41.37
9/16	10	3			56215	108.36	78.65	56.70	43.26
9/16	10	4			56216	108.36	78.65	56.70	43.26
9/16	10	6			56217	108.36	78.65	56.70	43.26
9/16	12	3			56218	112.67	81.80	58.70	44.94
9/16	12	4			56219	112.67	81.80	58.70	44.94
9/16	12	6			56220	112.67	81.80	58.70	44.94
5/8	6	3	59064		56221	105.53	78.33	59.01	44.84
5/8	6	4	59065		56222	105.53	78.33	59.01	44.84
5/8	6	6	59066		56223	105.53	78.33	59.01	44.84
5/8	8	3			56227	109.94	81.80	61.64	46.83
5/8	8	4			56228	109.94	81.80	61.64	46.83
5/8	8	6	59069		56229	109.94	81.80	61.64	46.83
5/8	10	3			56230	114.66	85.26	64.16	48.72
5/8	10	4			56231	114.66	85.26	64.16	48.72
5/8	10	6			56232	114.66	85.26	64.16	48.72
5/8	12	3			56233	119.39	88.62	66.68	50.61
5/8	12	4			56234	119.39	88.62	66.68	50.61
5/8	12	6			56235	119.39	88.62	66.68	50.61
11/16	6	3	59070		56236	108.89	81.80	62.58	49.25
11/16	6	4	59071		56237	108.89	81.80	62.58	49.25
11/16	6	6	59072		56238	108.89	81.80	62.58	49.25
11/16	8	3	59073		56239	113.30	85.26	65.00	51.45
11/16	8	4	59074		56240	113.30	85.26	65.00	51.45
11/16	8	6	59075		56241	113.30	85.26	65.00	51.45
11/16	10	3			56242	118.13	88.62	67.62	53.55
11/16	10	4			56243	118.13	88.62	67.62	53.55
11/16	10	6			56244	118.13	88.62	67.62	53.55
11/16	12	3			56245	122.85	91.98	70.77	55.55
11/16	12	4			56246	122.85	91.98	70.77	55.55
11/16	12	6			56247	122.85	91.98	70.77	55.55
3/4	6	3	59076		56248	115.50	88.41	68.57	55.65
3/4	6	4	59077		56249	115.50	88.41	68.57	55.65
3/4	6	6	59078		56250	115.50	88.41	68.57	55.65
3/4	8	3	59079		56251	120.65	91.98	71.51	57.96
3/4	8	4	59080		56252	120.65	91.98	71.51	57.96
3/4	8	6	59081		56253	120.65	91.98	71.51	57.96
3/4	10	3			56254	125.48	96.08	74.45	60.48
3/4	10	4			56255	125.48	96.08	74.45	60.48
3/4	10	6			56256	125.48	96.08	74.45	60.48
3/4	12	3			56257	130.52	99.96	77.70	62.90
3/4	12	4			56258	130.52	99.96	77.70	62.90
3/4	12	6			56259	130.52	99.96	77.70	62.90
13/16	6	3	59082		56260	122.43	97.55	78.02	65.52
13/16	6	4	59083		56261	122.43	97.55	78.02	65.52
13/16	6	6	59084		56262	122.43	97.55	78.02	65.52
13/16	8	3	59085		56263	127.89	101.96	81.80	68.57
13/16	8	4	59086		56264	127.89	101.96	81.80	68.57
13/16	8	6	59087		56265	127.89	101.96	81.80	68.57
13/16	10	3			56266	133.56	106.37	85.26	71.51
13/16	10	4			56267	133.56	106.37	85.26	71.51
13/16	10	6			56268	133.56	106.37	85.26	71.51
13/16	12	3			56269	139.23	110.78	88.62	80.01
13/16	12	4			56270	139.23	110.78	88.62	80.01
13/16	12	6			56271	139.23	110.78	88.62	80.01
7/8	6	3	59088		56272	122.43	97.55	78.02	65.52
7/8	6	4	59089		56273	122.43	97.55	78.02	65.52
7/8	6	6	59090		56274	122.43	97.55	78.02	65.52
7/8	8	3	59091		56275	127.89	101.96	81.80	68.57
7/8	8	4	59092		56276	127.89	101.96	81.80	68.57
7/8	8	6	59093		56277	127.89	101.96	81.80	68.57
7/8	10	3			56278	133.56	106.37	85.26	71.51
7/8	10	4			56279	133.56	106.37	85.26	71.51
7/8	10	6			56280	133.56	106.37	85.26	71.51
7/8	12	3			56281	139.23	110.78	88.62	80.01

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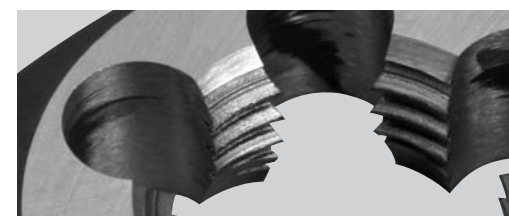
Extension Taps - Special (Left or Right Hand) *Continued*

Size	Overall Length	No. of Flutes	Part Number			Price/Quantity Levels			
			Pulley	Extension	S/Shank	1	2-6	6-11	12-Up
7/8	12	4			56282	139.23	110.78	88.62	80.01
7/8	12	6			56283	139.23	110.78	88.62	80.01
15/16	6	3	59094		56284	138.81	110.78	95.55	81.38
15/16	6	4	59095		56285	138.81	110.78	95.55	81.38
15/16	6	6	59096		56286	138.81	110.78	95.55	81.38
15/16	8	3	59097		56287	144.80	115.71	99.75	85.05
15/16	8	4	59098		56288	144.80	115.71	99.75	85.05
15/16	8	6	59099		56289	144.80	115.71	99.75	85.05
15/16	10	3			56290	151.41	120.65	104.06	88.62
15/16	10	4			56291	151.41	120.65	104.06	88.62
15/16	10	6			56292	151.41	120.65	104.06	88.62
15/16	12	3			56293	157.50	125.48	108.36	92.40
15/16	12	4			56294	157.50	125.48	108.36	92.40
15/16	12	6			56295	157.50	125.48	108.36	92.40
1	6	3	59100		56296	138.81	110.78	95.55	81.38
1	6	4	59101		56297	138.81	110.78	95.55	81.38
1	6	6	59102		56298	138.81	110.78	95.55	81.38
1	8	3	59103		56299	144.80	115.71	99.75	85.05
1	8	4	59104		56300	144.80	115.71	99.75	85.05
1	8	6	59105		56301	144.80	115.71	99.75	85.05
1	10	3			56302	151.41	120.65	104.06	88.62
1	10	4			56303	151.41	120.65	104.06	88.62
1	10	6			56304	151.41	120.65	104.06	88.62
1	12	3			56305	157.50	125.48	108.36	92.40
1	12	4			56306	157.50	125.48	108.36	92.40
1	12	6			56307	157.50	125.48	108.36	92.40
1 1/8	8	4			56308	165.27	139.65	118.65	101.43
1 1/8	8	6			56309	165.27	139.65	118.65	101.43
1 1/8	10	4			56310	172.20	145.53	124.11	105.84
1 1/8	10	6			56311	172.20	145.53	124.11	105.84
1 1/8	12	4			56312	179.76	151.62	128.94	110.25
1 1/8	12	6			56313	179.76	151.62	128.94	110.25
1 1/4	8	4			56314	190.05	162.44	143.64	129.47
1 1/4	8	6			56315	190.05	162.44	143.64	129.47
1 1/4	10	4			56316	198.45	169.26	150.15	135.24
1 1/4	10	6			56317	198.45	169.26	150.15	135.24
1 1/4	12	4			56318	206.54	176.61	156.03	140.81
1 1/4	12	6			56319	206.54	176.61	156.03	140.81
1 3/8	8	4			56320	210.63	182.18	157.50	142.80
1 3/8	8	6			56321	210.63	182.18	157.50	142.80
1 3/8	10	4			56322	220.40	190.16	165.27	149.52
1 3/8	10	6			56323	220.40	190.16	165.27	149.52
1 3/8	12	4			56324	230.37	198.87	172.20	156.03
1 3/8	12	6			56325	230.37	198.87	172.20	156.03
1 1/2	8	4			56326	257.78	208.53	196.88	174.09
1 1/2	8	6			56327	257.78	208.53	196.88	174.09
1 1/2	10	4			56328	268.59	219.45	205.80	182.18
1 1/2	10	6			56329	268.59	219.45	205.80	182.18
1 1/2	12	4			56330	280.46	228.38	214.62	190.05
1 1/2	12	6			56331	280.46	228.38	214.62	190.05
1 5/8	8	6			56332	287.49	214.62	200.87	191.00
1 5/8	10	6			56333	301.04	225.44	211.05	200.87
1 5/8	12	6			56334	313.95	234.15	220.40	210.32
1 3/4	8	6			56335	303.03	249.06	238.04	223.44
1 3/4	10	6			56336	316.79	260.19	249.06	233.31
1 3/4	12	6			56337	330.54	271.53	259.77	242.13
1 7/8	10	6			56338	370.02	320.88	291.27	271.53
1 7/8	12	6			56339	385.77	334.53	303.03	283.40
2	10	6			56340	389.24	336.53	309.12	291.27
2	12	6			56341	403.31	344.40	322.77	295.16

Cobalt Extensions Available.

Consult Factory for Larger Sizes, Prices and Delivery.

Please Note: Due to circumstances beyond our control, there are wide fluctuations in the price of HSS in the world market. If there is a surcharge, it will be added to the price and quoted at the time of purchase.



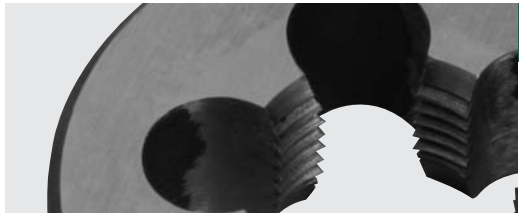
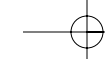
Hexagon Rethreading Dies - Special

These Dies are used only for repair work and for dressing damaged or rusty threads. They are adaptable for use in bit brace sockets, ratchets or adjustable wrenches.



(Left or Right Hand)

Size	Distance Across		Price/Quality Levels											
	MAX Decimal	Flats	Part Number		1		2		3-5		6-11		12-Up	
			CBN	HSS	CBN	HSS	CBN	HSS	CBN	HSS	CBN	HSS		
#0	0.060	11/16	58143	58144	53.03	77.49	39.06	58.07	27.51	42.53	18.17	29.72	16.49	26.88
#1	0.073	11/16	58145	58146	53.03	77.49	39.06	58.07	27.51	42.53	18.17	29.72	16.49	26.88
#2	0.086	11/16	58147	58148	53.03	77.49	39.06	58.07	27.51	42.53	18.17	29.72	16.49	26.88
#3	0.099	11/16	58149	58150	53.03	77.49	39.06	58.07	27.51	42.53	18.17	29.72	16.49	26.88
#4	0.112	11/16	58151	58152	53.03	77.49	39.06	58.07	27.51	42.53	18.17	29.72	16.49	26.88
#5	0.125	11/16	58153	58154	53.03	77.49	39.06	58.07	27.51	42.53	18.17	29.72	16.49	26.88
#6	0.138	11/16	58155	58156	53.03	77.49	39.06	58.07	27.51	42.53	18.17	29.72	16.49	26.88
#8	0.164	11/16	58157	58158	53.03	77.49	39.06	58.07	27.51	42.53	18.17	29.72	16.49	26.88
#10	0.190	11/16	58159	58160	53.03	77.49	39.06	58.07	27.51	42.53	18.17	29.72	16.49	26.88
#12	0.216	11/16	58161	58162	53.03	77.49	39.06	58.07	27.51	42.53	18.17	29.72	16.49	26.88
1/4	0.250	11/16	58005	58006	53.03	77.49	39.06	58.07	27.51	42.53	18.17	29.72	16.49	26.88
5/16	0.3225	11/16	58007	58008	53.76	78.02	39.59	58.70	27.93	42.95	18.48	30.14	16.80	27.41
3/8	0.385	25/32	58009	58010	54.08	78.44	39.90	59.33	28.46	43.58	18.90	30.87	17.12	28.04
7/16	0.4475	7/8	58011	58012	54.39	79.07	40.22	59.75	28.77	44.21	19.43	31.40	17.54	28.56
1/2	0.510	1 1/16	58013	58014	54.92	80.22	40.74	61.01	29.19	45.36	19.74	32.45	18.06	29.51
9/16	0.5725	1 1/16	58015	58016	55.34	80.75	41.16	61.53	29.72	45.78	20.27	33.08	18.48	30.03
5/8	0.635	1 1/4	58017	58018	56.49	82.22	42.32	63.00	30.77	47.57	21.32	34.44	19.32	31.29
11/16	0.6975	1 7/16	58019	58020	57.23	83.58	42.95	64.26	31.50	48.41	22.16	35.70	20.16	32.45
3/4	0.769	1 7/16	58021	58022	58.59	85.05	44.31	65.84	32.87	50.19	23.31	37.38	21.32	33.92
7/8	0.885	1 5/8	58023	58024	59.75	86.84	45.68	67.62	34.02	50.61	24.47	37.91	22.26	34.44
1	1.010	1 13/16	58025	58026	61.32	88.52	47.15	69.62	35.28	53.24	25.31	39.80	23.00	36.23
1 1/8	1.135	2	58027	58028	63.53	93.35	49.56	74.13	36.96	57.54	26.46	43.79	23.94	39.80
1 1/4	1.260	2 3/16	58029	58030	72.14	105.32	57.65	85.58	43.79	66.78	31.40	49.88	28.56	45.36
1 3/8	1.385	2 3/8	58031	58032	74.24	108.26	59.96	91.04	45.89	69.62	33.60	52.71	30.35	47.99
1 1/2	1.510	2 9/16	58033	58034	76.65	111.51	62.16	91.88	46.83	73.08	35.81	56.18	32.76	49.35
1 5/8	1.635	3 1/8	58035	58036	118.97	158.76	108.78	144.27	103.01	131.04	89.67	110.88	81.59	100.70
1 3/4	1.760	3 1/8	58037	58038	155.93	177.98	133.88	154.88	113.40	133.46	94.82	113.93	86.10	103.64
1 7/8	1.885	3 1/8	58039	58040	160.34	182.70	138.39	159.60	117.81	138.08	99.23	118.65	90.20	107.84
2	2.010	3 1/2	58041	58042	182.81	206.54	160.76	183.33	140.28	161.81	121.59	142.59	110.67	129.47
2 1/8	2.135	3 1/2	58043	58044	187.22	210.84	165.27	188.06	151.31	164.12	126.11	147.21	114.56	133.77
2 1/4	2.260	3 1/2	58045	58046	191.73	215.88	169.79	192.89	162.54	171.26	130.62	151.83	118.76	138.08
2 3/8	2.385	4 1/2	58047	58048	214.20	241.08	191.84	218.19	171.68	196.67	152.99	177.14	139.02	161.18
2 1/2	2.510	4 1/2	58049	58050	218.61	245.70	196.67	222.81	176.09	201.39	156.56	182.07	143.12	165.48
2 5/8	2.635	4 1/2	58051	58052	223.13	251.79	204.33	228.59	181.23	206.75	162.02	187.11	147.32	170.00
2 3/4	2.760	4 1/2	58053	58054	228.80	256.10	205.91	233.73	187.53	210.84	166.43	193.83	151.41	176.30
2 7/8	2.885	5	58055	58056	322.67	353.54	315.11	340.20	288.54	321.93	269.96	302.93	245.60	275.31
3	3.010	5	58057	58058	343.04	379.05	320.67	348.92	293.06	333.69	274.58	309.54	249.59	281.51
3 1/8	3.135	5	58059	58060	347.45	381.89	323.40	358.79	300.20	339.68	276.89	319.41	251.79	288.86
3 1/4	3.260	5	5											



Round Adjustable Split Dies - Special

Round Adjustable Dies are designed for cutting external screw threads, either by hand, using a die stock or by machine, using a floating die holder. They also can be used to cut smaller or larger, than factory setting, by turning the adjusting screw in or out.



(Left or Right Hand)

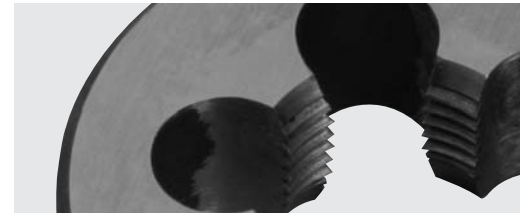
Size	O.D.	Part Number		Price/Quality Levels											
		CBN	HSS	1	2	3-5		6-11		12-Up					
				CBN	HSS	CBN	HSS	CBN	HSS	CBN	HSS	CBN	HSS		
#0 - #1	13/16	58075	58076	56.60	68.88	42.53	48.72	30.98	36.54	21.42	26.78	19.43	24.05		
#2		58077	58078	55.02	64.26	41.06	47.04	29.30	35.18	19.85	25.20	18.06	22.68		
#3		58079	58080	54.08	61.74	39.90	45.99	28.46	33.18	18.90	24.05	17.01	21.74		
#4 - 3/8		58081	58082	53.24	59.96	39.27	45.15	27.51	32.34	18.27	23.21	16.38	21.00		
#0 - #1	1	58083	58084	61.85	71.09	47.78	56.39	36.23	44.21	26.78	34.23	24.36	31.19		
#2		58085	58086	59.22	68.15	45.05	53.55	33.60	41.37	24.05	31.50	19.85	28.67		
#3		58087	58088	57.02	65.84	42.84	51.14	31.29	39.27	21.84	29.30	18.48	26.67		
#4 - 1/2		58089	58090	54.29	62.27	40.11	47.57	28.56	35.39	19.01	25.52	17.33	24.47		
#5 - 5/8	1 1/2	58091	58092	57.23	75.39	43.37	60.06	31.61	45.68	22.26	32.76	20.27	29.72		
11/16 - 3/4		58093	58094	59.43	79.70	45.47	64.37	33.81	49.98	24.36	37.07	22.26	33.60		
1/4 - 3/4	2	58095	58096	69.93	88.20	55.44	72.87	41.69	58.59	29.30	44.10	26.67	41.37		
13/16 - 1		58097	58098	72.03	92.51	57.54	77.49	43.68	62.79	31.19	49.88	28.46	45.36		
1/4 - 1	2 1/2	58099	58100	76.23	126.21	61.53	103.22	47.88	81.80	35.39	62.37	32.13	56.70		
1 1/16 - 1 1/4		58101	58102	78.33	130.52	63.74	107.52	49.98	86.21	37.49	66.68	34.02	60.69		
1/2 - 1	3	58103	58104	118.02	166.43	96.08	146.48	78.23	121.91	59.54	105.32	54.18	95.87		
1 1/16 - 1 1/2		58105	58106	138.71	196.67	116.55	179.13	96.08	154.88	72.87	135.45	63.74	123.27		
1 1/2 - 1 7/8	4	58107	58108	182.60	255.26	160.44	232.37	140.07	210.95	121.49	191.42	110.25	174.09		
1 15/16 - 2		58109	58110	203.07	276.89	181.13	254.00	160.44	232.37	142.07	212.63	128.94	193.62		
2 1/16 - 2 1/2		58111	58112	223.65	298.31	201.71	275.42	181.13	253.89	162.54	234.47	147.74	213.15		
1 1/2 - 2	5	58113	58114	257.36	371.39	237.83	350.28	218.72	332.22	197.82	305.97	178.29	278.15		
2 1/16 - 3		58115	58116	280.46	391.23	256.10	373.80	238.56	355.74	220.29	336.42	200.24	305.97		
3 1/16 - 3 1/2		58117	58118	299.25	413.91	276.26	388.71	253.68	374.43	239.82	351.75	218.09	319.73		
3 - 3 1/2	6	58119	58120	346.82	525.53	335.90	512.30	312.38	503.16	299.57	489.83	288.75	471.66		
3 9/16 - 4	58121	58122	375.06	563.54	361.52	552.51	344.40	525.42	331.59	514.08	310.07	492.03			

Sizes Over 4" Diameter Available.

Square Bolt Dies Available.
 Solid Dies Add 10%.
 Over 48 TPI Add 30%.
 ACME Available.
 Cone Dies Available.
 Die Stocks Available.

Consult Factory for Larger Sizes, Prices and Delivery.

Please Note: Due to circumstances beyond our control, there are wide fluctuations in the price of HSS in the world market. If there is a surcharge, it will be added to the price and quoted at the time of purchase.



Round Adjustable Split Dies - Special Pipe

Round Adjustable Dies are designed for cutting external screw threads, either by hand, using a die stock or by machine, using a floating die holder. They also can be used to cut smaller or larger, than factory setting, by turning the adjusting screw in or out.



(Left or Right Hand)

Size	O.D.	Part Number		Price/Quality Levels											
		CBN	HSS	1	2	3-5		6-11		12-Up					
				CBN	HSS	CBN	HSS	CBN	HSS	CBN	HSS	CBN	HSS		
1/16-27	1	39309	39310	54.29	62.27	40.11	47.57	28.56	35.39	19.01	25.52	17.33	23.21		
1/8-27		39311	39312	54.29	62.27	40.11	47.57	28.56	35.39	19.01	25.52	17.33	23.21		
1/4-18		39313	39314	54.29	62.27	40.11	47.57	28.56	35.39	19.01	25.52	17.33	23.21		
1/16-27	1 1/2	39315	39316	57.23	75.39	43.37	60.06	31.61	45.68	22.26	32.76	20.27	29.72		
1/8-27		39317	39318	57.23	75.39	43.37	60.06	31.61	45.68	22.26	32.76	20.27	29.72		
1/4-18		39319	39320	57.23	75.39	43.37	60.06	31.61	45.68	22.26	32.76	20.27	29.72		
3/8-18		39321	39322	57.23	75.39	43.37	60.06	31.61	45.68	22.26	32.76	20.27	29.72		
1/2-14		39323	39324	59.43	79.70	45.47	64.37	33.81	49.98	24.36	37.07	22.26	33.60		
1/4-18	2	39325	39326	69.93	88.20	55.44	72.87	41.69	58.59	29.30	44.10	26.67	41.37		
3/8-18		39327	39328	69.93	88.20	55.44	72.87	41.69	58.59	29.30	44.10	26.67	41.37		
1/2-14		39329	39330	72.03	92.51	57.54	77.49	43.68	62.79	31.19	49.88	28.46	45.36		
3/4-14		39331	39332	72.03	92.51	57.54	77.49	43.68	62.79	31.19	49.88	28.46	45.36		
3/8-18	2 1/2	39333	39334	76.23	126.21	61.53	103.22	47.88	81.80	35.39	62.37	32.13	56.70		
1/2-14		39335	39336	76.23	126.21	61.53	103.22	47.88	81.80	35.39	62.37	32.13	56.70		
3/4-14		39337	39338	76.23	126.21	61.53	103.22	47.88	81.80	35.39	62.37	32.13	56.70		
1-11 1/2		39339	39340	78.33	130.52	63.74	107.52	49.98	86.21	37.49	66.68	34.02	60.69		
1/2-14	3	39341	39342	118.02	166.43	96.08	146.48	78.23	121.91	59.54	105.32	54.18	95.87		
3/4-14		39343	39344	118.02	166.43	96.08	146.48	78.23	121.91	59.54	105.32	54.18	95.87		
1-11 1/2		39345	39346	138.71	196.67	116.55	179.13	96.08	154.88	72.87	135.45	63.74	123.27		
1 1/4-11 1/2		39347	39348	138.71	196.67	116.55	179.13	96.08	154.88	72.87	135.45	63.74	123.27		
1-11 1/2	4	39349	39350	182.60	255.26	160.44	232.37	140.07	210.95	121.49	191.42	110.25	174.09		
1 1/4-11 1/2		39351	39352	182.60	255.26	160.44	232.37	140.07	210.95	121.49	191.42	110.25	174.09		
1 1/2-11 1/2		39353	39354	182.60	255.26	160.44	232.37	140.07	210.95	121.49	191.42	110.25	174.09		
2-11 1/2		39355	39356	223.65	298.31	201.71	275.42	181.13	253.89	162.54	234.47	147.74	213.15		
1 1/4-11 1/2	5	39357	39358	257.36	371.39	237.83	350.28	218.72	332.22	197.82	305.97	178.29	278.15		
1 1/2-11 1/2		39359	39360	257.36	371.39	237.83	350.28	218.72	332.22	197.82	305.97	178.29	278.15		
2-11 1/2		39361	39362	280.46	391.23	256.10	373.80	238.56	355.74	220.29	336.42	200.24	305.97		
2 1/2-8		39363	39364	280.46	391.23	256.10	373.80	238.56	355.74	220.29	336.42	200.24	305.97		
3-8		39365	39366	299.25	413.91	276.26	388.71	253.68	374.43	239.82	351.75	218.09	319.73		
2 1/2-8	6	39367	39368	346.82	525.53	335.90	512.30	312.38	503.16	299.57	489.83	288.75	471.66		
3-8		39369	39370	346.82	525.53	335.90	512.30	312.38	503.16	299.57	489.83	288.75	471.66		
3 1/2-8		39371	39372	375.06	563.54	361.52	552.51	344.40	525.42	331.59	514.08	310.07	492.03		
4-8		39373	39374	375.06	563.54	361.52	552.51	344.40	525.42	331.59	514.08	310.07	492.03		

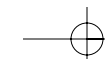
Cobalt Dies Available.
 Note: 2 1/2" NPT or Larger, Add 20% to Price for Extra Thickness.

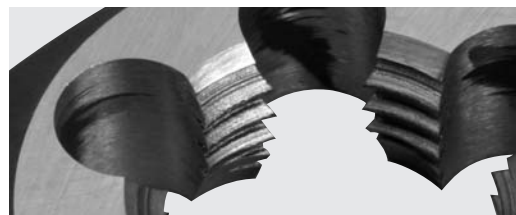
Square Bolt Dies Available.

Surface Treatments Available.
 A - Steam Oxide
 B - Chrome
 C - Titanium Nitride

Consult Factory for Larger Sizes, Prices and Delivery.

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Hexagon Pipe Dies (Left or Right Hand)

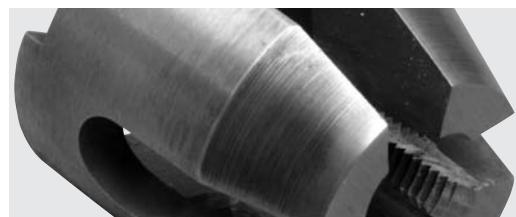
Hexagon Pipe Dies are used for the repair or cleaning of existing threads. In areas with limited space, these dies can be used with a wrench or socket. Available in Carbon or High Speed Steel.



Size	Distance Across Flats	Part Number		Price/Quality Levels											
		CBN	HSS	1		2		3-5		6-11		12-Up			
				CBN	HSS	CBN	HSS	CBN	HSS	CBN	HSS	CBN	HSS	CBN	HSS
1/16-27	11/16	43000	43001	53.76	78.02	39.59	58.70	27.93	42.95	18.48	30.14	16.80	27.41		
1/8-27	7/8	43002	43003	54.39	79.07	40.22	59.75	28.77	44.21	19.43	31.40	17.54	28.56		
1/4-18	1 1/16	43004	43005	55.34	80.75	41.16	61.53	29.72	45.78	20.27	33.08	18.48	30.03		
3/8-18	1 7/16	43006	43007	56.49	82.22	42.32	63.00	30.77	47.57	21.32	34.44	19.32	31.29		
1/2-14	1 5/8	43008	43009	59.75	86.84	45.68	67.62	34.02	50.61	24.47	37.91	22.26	34.44		
3/4-14	2	43010	43011	63.53	93.35	49.56	74.13	36.96	57.54	26.46	43.79	23.94	39.80		
1-11 1/2	2 3/8	43012	43013	74.24	108.26	59.96	91.04	45.89	69.62	33.60	52.71	30.35	47.99		
1 1/4-11 1/2	3 1/8	43014	43015	155.93	177.98	133.88	154.88	113.40	133.46	94.82	113.93	86.10	103.64		
1 1/2-11 1/2	3 1/2	43016	43017	182.81	206.54	160.76	183.33	140.28	161.81	121.59	142.59	110.67	129.47		
2-11 1/2	4 1/2	43018	43019	214.20	241.08	191.84	218.19	171.68	196.67	152.99	177.14	139.02	161.18		
2 1/2-8	5	43020	43021	343.04	379.05	320.67	348.92	293.06	334.11	274.58	309.54	249.59	281.51		
3-8	5	43022	43023	358.79	413.70	332.54	388.29	314.16	368.03	292.01	347.34	265.44	315.84		
3 1/2-8	6	43024	43025	464.52	565.85	443.31	542.85	419.90	521.33	403.73	502.01	383.57	454.76		
4-8	7	43026	43027	564.80	686.18	564.48	672.11	550.31	643.02	533.40	631.05	512.09	625.49		

Note: 2 1/2" NPT or Larger, Add 20% to Price for Extra Thickness.

Consult Factory for Larger Sizes, Prices and Delivery.



Cone Dies

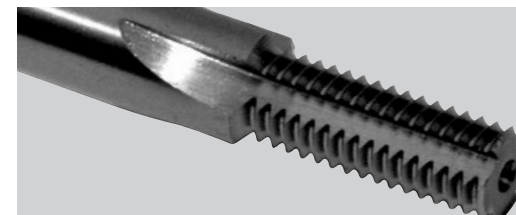
Cone Dies are used to cut new threads for high production, short thread length applications that require fast turnaround time. They are excellent to use for hard to reach areas.



Size	Description	Part Number	Price/Quantity Levels		
			1	6	12
#1	BLANK STD NC/NF RIGHT HAND	46000	56.81	53.76	51.03
#2	BLANK STD NC/NF RIGHT HAND	46001	80.85	76.86	72.66
#3	BLANK STD NC/NF RIGHT HAND	46002	99.75	94.92	89.88
#4	BLANK STD NC/NF RIGHT HAND	46003	175.35	166.64	157.82
#5	BLANK STD NC/NF RIGHT HAND	46004	260.93	248.12	234.99
#6	BLANK STD NC/NF RIGHT HAND	46005	346.92	329.70	312.27
#1	BLANK STD NC/NF LEFT HAND	46010	68.04	64.68	61.22
#2	BLANK STD NC/NF LEFT HAND	46011	92.02	87.19	83.36
#3	BLANK STD NC/NF LEFT HAND	46012	119.70	113.82	107.94
#4	BLANK STD NC/NF LEFT HAND	46013	210.21	199.82	189.32
#5	BLANK STD NC/NF LEFT HAND	46014	311.54	297.68	282.03
#6	BLANK STD NC/NF LEFT HAND	46015	412.86	395.43	374.64
#1	BLANK SPEC TPI SIZES	46020	79.38	75.29	71.40
#2	BLANK SPEC TPI SIZES	46021	113.19	107.63	101.96
#3	BLANK SPEC TPI SIZES	46022	140.07	132.93	125.90
#4	BLANK SPEC TPI SIZES	46023	245.28	233.00	220.82
#5	BLANK SPEC TPI SIZES	46024	365.51	347.24	328.97
#6	BLANK SPEC TPI SIZES	46025	485.63	462.42	437.22

Sizes Under #5 Major Diameter - Add 30%.

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Thread Mills, Helical Metric/NPT and NPTF

Thread mills generally are used for creating threads in large diameter holes where it is not feasible to use taps. Helical flute design reduces thread chatter and improves product thread finish and quality. Standard inch and metric sizes are available in UNC, UNF, UNEF, UNS, NPT, and NPTF threads. Thread mills are suited for difficult to machine materials such as Inconel, Titanium and high nickel content alloys in aerospace, medical, and military applications.



CARBIDE HELICAL UN THREAD MILLS							
Thread Size and Pitch	Part Number	Flutes	Cutter Diameter	Shank Diameter	Cut Length	Overall Length	Price
#8-32	07505	3	0.115	0.125	0.250	2.00	\$81.02
#10-32	07507	3	0.120	0.125	0.312	2.00	\$81.76
#10-28	07509	3	0.120	0.125	0.312	2.00	\$81.76
1/4-28	07511	3	0.180	0.187	0.500	2.50	\$90.44
#10-24	07513	3	0.120	0.125	0.312	2.00	\$81.76
5/16-24	07515	3	0.235	0.250	0.625	2.50	\$105.09
3/8-24	07517	4	0.285	0.312	0.750	3.00	\$125.18
1/4-20	07520	3	0.180	0.187	0.500	2.50	\$90.69
7/16-20	07522	4	0.335	0.375	0.875	3.50	\$138.06
5/16-18	07524	3	0.235	0.250	0.625	2.50	\$105.09
9/16-18	07526	4	0.370	0.375	0.875	3.50	\$136.06
3/8-16	07528	4	0.285	0.312	0.750	3.00	\$125.18
3/4-16	07530	4	0.490	0.500	1.250	3.50	\$175.96
7/16-14	07532	4	0.305	0.312	0.750	3.00	\$138.06
7/8-14	07534	4	0.490	0.500	1.250	3.50	\$171.21
1/2-13	07536	4	0.350	0.375	0.875	3.50	\$139.34
9/16-12	07538	4	0.370	0.375	0.875	3.50	\$142.26
3/4-12	07540	4	0.495	0.500	1.250	3.50	\$175.96
5/8-11	07542	4	0.470	0.500	1.250	3.50	\$173.02
3/4-10	07544	4	0.495	0.500	1.250	3.50	\$175.96
7/8-9	07546	4	0.620	0.625	1.375	4.00	\$237.96
1-8	07548	4	0.620	0.625	1.375	4.00	\$237.96

CARBIDE HELICAL METRIC THREADMILLS							
Thread Size and Pitch	Part Number	Flutes	Cutter Diameter	Shank Diameter	Cut Length	Overall Length	Price
M4.5X0.75	07605	3	0.120	0.125	0.250	2.00	\$82.65
M8X0.75	07607	3	0.235	0.250	0.625	2.50	\$113.82
M6X1	07609	3	0.170	0.187	0.500	2.50	\$95.59
M12X1	07613	4	0.360	0.375	0.875	3.50	\$142.16
M8X1.25	07605	3	0.235	0.250	0.625	2.50	\$110.30
M10X1.5	07618	4	0.300	0.312	0.750	3.00	\$131.78
M14X1.5	07620	4	0.370	0.375	0.875	3.50	\$139.16
M18X1.5	07622	4	0.490	0.500	1.250	3.50	\$177.67
M12X1.75	07624	4	0.360	0.375	0.875	3.50	\$155.25
M16X2	07626	4	0.470	0.500	1.250	3.50	\$176.79
M20X2.5	07628	4	0.495	0.500	1.250	3.50	\$181.23
M24X3	07632	4	0.620	0.625	1.375	4.00	\$246.45

CARBIDE HELICAL NPT AND NPTF TREAMMILLS							
Thread Size and Pitch	Part Number	Flutes	Cutter Diameter	Shank Diameter	Cut Length	Overall Length	Price
1/16-27 & 1/8-27 NPT	07702	3	0.245	0.250	0.437	2.50	\$114.90
1/16-27 & 1/8-27 NPTF	07752	3	0.245	0.250	0.437	2.50	\$114.90
1/4-18 & 3/8-18 NPT	07704	4	0.305	0.312	0.625	3.00	\$130.89
1/4-18 & 3/8-18 NPTF	07754	4	0.305	0.312	0.625	3.00	\$130.89
1/2-14 & 3/4-14 NPT	07706	4	0.495	0.500	0.875	3.50	\$176.85
1/2-14 & 3/4-14 NPTF	07756	4	0.495	0.500	0.875	3.50	\$176.85
1-11 1/2 & 2-11 1/2 NPT	07709	4	0.620	0.625	1.125	4.00	\$259.11
1-11 1/2 & 2-11 1/2 NPTF	07758	4	0.620	0.625	1.125	4.00	\$259.11

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Tap Drill Sizes ¹ for Unified Inch Screw Threads

Tap Size	Tap Drill Size (Inches)	Decimal Equiv. Of Tap Drill (Inches)	Theoretical Percent of Thread	Probable Mean Oversize (Inches)	Probable Hole Size (Inches)	Probable Percent of Thread*	Tap Size	Tap Drill Size (Inches)	Decimal Equiv. Of Tap Drill (Inches)	Theoretical Percent of Thread	Probable Mean Oversize (Inches)	Probable Hole Size (Inches)	Probable Percent of Thread*
0-80	56	.0465	83	.0015	.0480	74	8-32	3.40mm	.1339	74	.0029	.1368	67
	3/64	.0469	81	.0015	.0484	71		29	.1360	69	.0029	.1389	62
	1.20mm	.0472	79	.0015	.0487	69	8-36	29	.1360	78	.0029	.1389	70
1-64	1.25mm	.0492	67	.0015	.0507	57		3.5mm	.1378	72	.0029	.1407	65
	54	.0550	89	.0015	.0565	81	10-24	27	.1440	85	.0032	.1472	79
1-72	1.45mm	.0571	78	.0015	.0586	71		3.70mm	.1457	82	.0032	.1489	76
	53	.0595	67	.0015	.0610	59		26	.1470	79	.0032	.1502	74
2-56	1.5mm	.0591	77	.0015	.0606	68		25	.1495	75	.0032	.1527	69
	53	.0595	75	.0015	.0610	67		24	.1520	70	.0032	.1552	64
2-64	1.55mm	.0610	67	.0015	.0606	68	10-32	5/32	.1563	83	.0032	.1595	75
	51	.0670	82	.0017	.0687	74		22	.1570	81	.0032	.1602	73
3-48	1.75mm	.0689	73	.0017	.0706	66		21	.1590	76	.0032	.1622	68
	50	.0700	69	.0017	.0717	62	12-24	11/64	.1719	82	.0035	.1754	75
3-56	1.80mm	.0709	65	.0017	.0726	58		17	.1730	79	.0035	.1765	73
	50	.0700	79	.0017	.0717	70		16	.1770	72	.0035	.1805	66
4-40	1.80mm	.0709	74	.0017	.0726	66	12-28	16	.1770	84	.0035	.1805	77
	49	.0730	64	.0017	.0747	56		15	.1800	78	.0035	.1835	70
4-48	48	.0760	85	.0019	.0779	78		4.60mm	.1811	75	.0035	.1846	67
	5/64	.0781	77	.0019	.0800	70		14	.1820	73	.0035	.1855	66
5-40	47	.0785	76	.0019	.0804	69	1/4-20	9	.1960	83	.0038	.1998	77
	2.00mm	.0787	75	.0019	.0806	68		8	.1990	79	.0038	.2028	73
5-48	46	.0810	67	.0019	.0829	60		7	.2010	75	.0038	.2048	70
	45	.0820	63	.0019	.0839	56		13/64	.2031	72	.0038	.2069	66
5-56	46	.0810	78	.0019	.0829	69	1/4-28	5.40mm	.2126	81	.0038	.2164	72
	45	.0820	73	.0019	.0839	65		3	.2130	80	.0038	.2168	72
6-40	2.10mm	.0827	70	.0019	.0846	62	5/16-18	F	.2570	77	.0038	.2608	72
	2.15mm	.0846	62	.0019	.0865	54		6.60mm	.2598	73	.0038	.2636	68
6-48	44	.0860	80	.0020	.0880	74		G	.2610	71	.0041	.2651	66
	2.20mm	.0866	78	.0020	.0886	72	5/16-24	H	.2660	86	.0041	.2701	78
6-56	43	.0890	71	.0020	.0910	65		6.80mm	.2677	83	.0041	.2718	75
	2.30mm	.0906	66	.0020	.0926	60		I	.2720	75	.0041	.2761	67
7-40	2.35mm	.0925	72	.0020	.0926	72	3/8-16	7.80mm	.3071	84	.0044	.3115	78
	42	.0935	68	.0020	.0955	61		7.90mm	.3110	79	.0044	.3154	73
7-48	3/32	.0938	68	.0020	.0958	60		5/16	.3125	77	.0044	.3169	72
	2.40mm	.0945	65	.0020	.0965	57		O	.3160	73	.0044	.3204	68
7-56	40	.0980	83	.0023	.1003	76	3/8-24	21/64	.3281	87	.0044	.3325	79
	39	.0995	79	.0023	.1018	71		8.40mm	.3307	82	.0044	.3351	74
8-40	38	.1015	72	.0023	.1038	65		Q	.3320	79	.0044	.3364	71
	2.60mm	.1024	70	.0023	.1047	63		8.50mm	.3346	75	.0044	.3390	67
8-48	38	.1015	79	.0023	.1038	72	7/16-14	T	.3580	86	.0046	.3626	81
	2.60mm	.1024	77	.0023	.1047	69		23/64	.3594	84	.0046	.3640	79
8-56	37	.1040	71	.0023	.1063	63		9.20mm	.3622	81	.0046	.3668	76
	6-32	.1040	84	.0023	.1063	78		9.30mm	.3661	77	.0046	.3707	72
9-40	36	.1065	78	.0023	.1088	72		U	.3680	75	.0046	.3726	70
	7/64	.1094	70	.0026	.1120	64		9.40mm	.3701	73	.0046	.3747	68
9-48	35	.1100	69	.0026	.1126	63	7/16-20	W	.3860	79	.0046	.3906	72
	34	.1100	67	.0026	.1136	60		25/64	.3906	72	.0046	.3952	65
9-56	34	.1110	83	.0026	.1136	75	1/2-13	10.50mm	.4134	87	.0047	.4181	82
	33	.1130	77	.0026	.1156	69		27/64	.4219	78	.0047	.4266	73
10-40	2.90mm	.1142	73	.0026	.1168	65	1/2-20	29/64	.4531	72	.0047	.4578	65
	32	.1160	68	.0026	.1186	60							
10-48	15/32	.4688	87	.0048	.4736	82	1 1/4-7	1 3/32	1.0938	84			
	31/64	.4844	72	.0048	.4892	68		1 7/64	1.1094	76			

*Probable percent of full thread produced in tapped hole using standard drill sizes.
¹ Recommended sizes for cutting taps. Hole sizes shown may not suite UNJ and MJ hole requirements.

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Tap Drill Sizes ¹ for Unified Inch Screw Threads *Continued*

Tap Size	Tap Drill Size (Inches)	Decimal Equiv. Of Tap Drill (Inches)	Theoretical Percent of Thread	Probable Mean Oversize (Inches)	Probable Hole Size (Inches)	Probable Percent of Thread*	Tap Size	Tap Drill Size (Inches)	Decimal Equiv. Of Tap Drill (Inches)	Theoretical Percent of Thread	Probable Mean Oversize (Inches)	Probable Hole Size (Inches)	Probable Percent of Thread*
9/16-18	1/2	.500	87	.0048	.5048	80	1 1/4-12	1 11/64	1.1719	72			
5/8-11	17/32	.5313	79	.0049	.5362	75	1 3/8-6	1 13/64	1.2031	79			
5/8-18	9/16	.5625	87	.0049	.5674	80		1 7/32	1.2188	72			
3/4-10	41/64	.6406	84	.0050	.6456	80	1 3/8-12	1 19/64	1.2989	72			
	21/32	.6563	72	.0050	.6613	68	1 1/2-6	1 21/64	1.3281	79			
3/4-16	11/16	.6875	77	.0050	.6925	71		1 11/32	1.3438	72			
	17.50mm	.6890	75	.0050	.6940	69	1 1/2-12	1 27/64	1.4219	72			
7/8-9	49/64	.7656	76	.0052	.7708	72							
7/8-14	51/64	.7969	84	.0052	.8021	79							
1-8	55/64	.8594	87	.0059	.8653	83							
	7/8	.875	77	.0059	.8809	73							
1-12	29/32	.9063	87	.0059	.9122	81							
	59/64	.9219	72	.0060	.9279	67							
1-14	59/64	.9219	84	.0060	.9279	78							
1 1/8-7	31/32	.9688	84	.0062	.9750	81							
	63/64	.9844	76	.0067	.9911	72							
1 1/8-12	1 1/32	1.0313	87	.0071	1.0384	80							

*Probable percent of full thread produced in tapped hole using standard drill sizes.

Tap Drill Sizes ¹ for Metric M-Profile Screw Threads

Metric Tap Size	Tap Drill Size (Inches)	Decimal Equiv. Of Tap Drill (Inches)	Theoretical Percent of Thread	Probable Mean Oversize (Inches)	Probable Hole Size (Inches)	Probable Percent of Thread*	Metric Tap Size	Tap Drill Size (Inches)	Decimal Equiv. Of Tap Drill (Inches)	Theoretical Percent of Thread	Probable Mean Oversize (Inches)	Probable Hole Size (Inches)	Probable Percent of Thread*
M1.6x0.35	1.20mm	.0472	88	.0014	.0486	80	M7x1	A	.2340	81	.0038	.2378	74
	1.25mm	.0492	77	.0014	.0506	69		6mm	.2362	77	.0038	.2400	70
M2x0.4	1/16	.0625	79	.0015	.0640	72		B	.2380	74	.0038	.2418	66
	1.60mm	.0630	77	.0017	.0647	69	M8x1.25	6.7mm	.2638	80	.0041	.2679	74
M2.5x0.45	52	.0635	74	.0017	.0652	66		17/64	.2656	77	.0041	.2697	71
	2.05mm	.0807	77	.0019	.0826	69		H	.2660	77	.0041	.2701	70
M3x0.5	46	.0810	76	.0019	.0829	67		6.8mm	.2677	74	.0041	.2718	68
	45	.0820	71	.0019	.0839	63	M10x1.5	8.4mm	.3307	82	.0044	.3351	76
M3.5x0.5	40	.0980	79	.0023	.1003	70		Q	.3320	80	.0044	.3364	75
	2.5mm	.0984	77	.0023	.1007	68		8.5mm	.3346	77	.0044	.3390	71
M3.5x0.6	39	.0995	73	.0023	.1018	64	M12x1.75	10.20mm	.4016	79	.0047	.4063	75
	33	.1130	81	.0026	.1156	72		Y	.4040	76	.0047	.4087	71
M4x0.7	2.9mm	.1142	77	.0026	.1168	68		13/32	.4062	74	.0047	.4109	69
	32	.1160	71	.0026	.1186	63	M14x2	15/32	.4688	81	.0048	.4736	76
M4.5x0.75	3.2mm	.1											

USCTI Table 301B - Standard System of Marking

General

As a minimum, taps will be marked with the threads per inch or pitch, the proper product thread designation identifying their thread form and the letters designating the type of material they are made from (example, HS indicating high speed steel).

The country of origin if other than U.S.A., will be marked in accordance with customs regulation CFR 19, part 134.

Standard Tap Marking	Product Thread Designation	Thread Series	Governing Standards
STI	STI	Helical Coil wire screw thread insert	ASME B18.29.1
ACME-C	ACME-C	ACME thread - centralizing	ASME B1.5
ACME-G	ACME-G	ACME thread - general purpose	ASME B1.5
STUB ACME	STUB ACME	Stub ACME thread	ASME B1.8
NH	NH	American National Hose	ASME B1.20.7
ANPT	ANPT	Aeronautical National form taper pipe	MIL-P-7105
NGO	NGO	National Gas outlet thread	ANSI/CSA/CGA STD V-1
NGS	NGS	National Gas straight thread	ANSI/CSA/CGA STD V-1
NGT	NGT	National Gas taper thread	ANSI/CSA/CGA STD V-1
PTF-SAE	PTF-SAE-SHORT	Dryseal SAE short taper pipe thread	ASME B1.20.3
AMO	AMO	American National Standard Microscope Objective Thread	ASME B1.11
UNM	UNM	Unified Miniature thread series	ASME B1.10
BUTT	BUTT	American Buttress thread	ASME B1.9
SGT	SGT	Special Gas Taper thread	ANSI/CSA/CGA STD V-1
SPL-PTF	PTF	Special Dryseal taper pipe thread	ASME B1.20.3
BSW	BSW	British Standard Whitworth coarse thread	BSI BS84
BSF	BSF	British Standard Whitworth fine thread	BSI BS84
Rc	Rc	British Standard Taper Pipe for pressure tight joints	BSI BS21
Rp	Rp	British Standard Straight Pipe for pressure tight joints	BSI BS21
G	G	British Standard Straight Pipe for non-pressure tight joints such as mechanical assemblies	BSI BS2779
G - trunc	G - trunc	British Standard Straight Pipe for non-pressure tight joints such as mechanical assemblies with truncated crests	BSI BS2779
M	M	Metric Screw Threads - M Profile, with basic ISO 68 profile	ASME B1.13M, B1.18M
M	MJ	Metric Screw Threads - MJ Profile, with a rounded root radius equal to 0.15011P to 0.18042P (ext. thd. only)	ASME B1.21M
NC	NC5IF	Class 5 interference fit internal thread - Entire ferrous material range	ASME B1.12
NC	NC5INF	Class 5 interference fit internal thread - Entire nonferrous material range	ASME B1.12
NPS	NPSC	American Standard Straight Pipe threads in pipe couplings	ASME B1.20.1
NPSF	NPSF	Dryseal American Standard fuel internal straight pipe threads	ASME B1.20.3
NPSH	NPSH	American Standard Straight Hose coupling threads for joining to American Standard taper pipe threads	ASME B1.20.7
NPSI	NPSI	Dryseal American Standard Intermediate internal straight pipe threads	ASME B1.20.3
NPSL	NPSL	American Standard Straight Pipe threads for loose fitting mechanical joints with locknuts	ASME B1.20.1
NPS	NPSM	American Standard Straight Pipe threads for free fitting mechanical joints for fixtures	ASME B1.20.1
NPT	NPT	American Standard Taper Pipe threads for general use	ASME B1.20.1
NPTF	NPTF	Dryseal American Standard Taper Pipe threads	ASME B1.20.3
NPTR	NPTR	American Standard Taper Pipe threads for railing joints	ASME B1.20.1
N	UN	Unified Inch Screw Thread, constant pitch series	ASME B1.1
NC	UNC	Unified Inch Screw Thread, coarse pitch series	ASME B1.1
NF	UNF	Unified Inch Screw Thread, fine pitch series	ASME B1.1
NEF	UNEF	Unified Inch Screw Thread, extra fine pitch series	ASME B1.1
N	UNJ	Unified Inch Screw Thread, constant pitch series, with rounded root radius 0.15011P to 0.18042P (ext. thd. only)	ASME B1.15
NC	UNJC	Unified Inch Screw Thread, coarse pitch series, with rounded root radius 0.15011P to 0.18042P (ext. thd. only)	ASME B1.15
NF	UNJF	Unified Inch Screw Thread, fine pitch series, with rounded root radius 0.15011P to 0.18042P (ext. thd. only)	ASME B1.15
NEF	UNJEF	Unified Inch Screw Thread, extra fine pitch series, with rounded root radius 0.15011P to 0.18042P (ext. thd. only)	ASME B1.15

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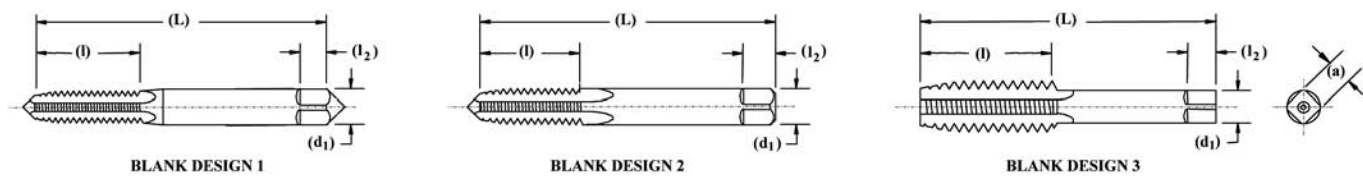
USCTI Table 301B - Standard System of Marking *Continued*

Standard Tap Marking	Product Thread Designation	Thread Series	Governing Standards
NS	UNJS	Unified Inch Screw Thread, special pitch series, with rounded root radius 0.15011P to 0.18042P (ext. thd. only)	ASME B1.15
N	UNR	Unified Inch Screw Thread, constant pitch series, with rounded root radius not less than 0.108P (ext. thd. only)	ASME B1.1
NC	UNRC	Unified Inch Screw Thread, coarse pitch series, with rounded root radius not less than 0.108P (ext. thd. only)	ASME B1.1
NF	UNRF	Unified Inch Screw Thread, fine pitch series, with rounded root radius not less than 0.108P (ext. thd. only)	ASME B1.1
NEF	UNREF	Unified Inch Screw Thread, extra fine pitch series, with rounded root radius not less than 0.108P (ext. thd. only)	ASME B1.1
NS	UNS	Unified Inch Screw Thread, special diameter, pitch, or length of engagement	ASME B1.1

ANSI, The American National Standards Institute, Three Park Avenue, New York, NY 10016-5990

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USCTI Table 302 - Standard Tap Dimensions - Ground Thread



Nominal Diameter Range - Inches	Machine Screw Size	Nominal Fractional Diameter Inches	Nominal Metric Diameter Millimeters (Inches)	Blank Design No.	Tap Dimensions - Inches				
					Overall Length L	Thread Length l	Square Length l ₂	Shank Diameter d ₁	Square Size a
.052	.065	0 (.0600)	M 1.6 (.0630)	1	1.63	.31	.19	.1410	.110
.065	.078	1 (.0730)	M1.8 (.0709)	1	1.69	.38	.19	.1410	.110
.078	.091	2 (.0860)	M2 (.0787), M2.2 (.0866)	1	1.75	.44	.19	.1410	.110
.091	.104	3 (.0990)	M2.5 (.0984)	1	1.81	.50	.19	.1410	.110
.104	.117	4 (.1120)		1	1.88	.56	.19	.1410	.110
.117	.130	5 (.1250)	M3 (.1181)	1	1.94	.63	.19	.1410	.110
.130	.145	6 (.1380)	M3.5 (.1378)	1	2.00	.69	.19	.1410	.110
.145	.171	8 (.1640)	M4 (.1575)	1	2.13	.75	.25	.1680	.131
.171	.197	10 (.1900)	M4.5 (.1772), M5 (.1969)	1	2.38	.88	.25	.1940	.152
.197	.223	12 (.2160)		1	2.38	.94	.28	.2200	.165
.223	.260	1/4 (.2500)	M6 (.2362)	2	2.50	1.00	.31	.2550	.191
.260	.323	5/16 (.3125)	M7 (.2756), M8 (.3150)	2	2.72	1.13	.38	.3180	.238
.323	.395	3/8 (.3750)	M10 (.3937)	2	2.94	1.25	.44	.3810	.286
.395	.448	7/16 (.4375)		3	3.16	1.44	.41	.3230	.242
.448	.510	1/2 (.5000)	M12 (.4724)	3	3.38	1.66	.44	.3670	.275
.510	.573	9/16 (.5625)	M14 (.5512)	3	3.59	1.66	.50	.4290	.322
.573	.635	5/8 (.6250)	M16 (.6299)	3	3.81	1.81	.56	.4800	.360
.635	.709	11/16 (.6875)	M18 (.7087)	3	4.03	1.81	.63	.5420	.406
.709	.760	3/4 (.7500)		3	4.25	2.00	.69	.5900	.442
.760	.823	13/16 (.8125)	M20 (.7874)	3	4.47	2.00	.69	.6520	.489
.823	.885	7/8 (.8750)	M22 (.8661)	3	4.69	2.22	.75	.6970	.523
.885	.948	15/16 (.9375)	M24 (.9449)	3	4.91	2.22	.75	.7600	.570
.948	1.010	1 (1.0000)	M25 (.9843)	3	5.13	2.50	.81	.8000	.600
1.010	1.073	1-1/16 (1.0625)	M27 (1.0630)	3	5.13	2.50	.88	.8960	.672
1.073	1.135	1-1/8 (1.1250)		3	5.44	2.56	.88	.8960	.672
1.135	1.198	1-3/16 (1.1875)	M30 (1.1811)	3	5.44	2.56	1.00	1.0210	.766
1.198	1.260	1-1/4 (1.2500)		3	5.75	2.56	1.00	1.0210	.766
1.260	1.323	1-5/16 (1.3125)	M33 (1.2992)	3	5.75	2.56	1.06	1.1080	.831
1.323	1.385	1-3/8 (1.3750)		3	6.06	3.00	1.06	1.1080	.831
1.385	1.448	1-7/16 (1.4375)	M36 (1.4173)	3	6.06	3.00	1.13	1.2330	.925
1.448	1.510	1-1/2 (1.5000)		3	6.38	3.00	1.13	1.2330	.925
1.510	1.635	1-5/8 (1.6250)	M39 (1.5354)	3	6.69	3.19	1.13	1.3050	.979
1.635	1.760	1-3/4 (1.7500)	M42 (1.6535)	3	7.00	3.19	1.25	1.4300	1.072
1.760	1.885	1-7/8 (1.8750)		3	7.31	3.56	1.25	1.5190	1.139
1.885	2.010	2 (2.0000)	M48 (1.8898)	3	7.63	3.56	1.38	1.6440	1.233
2.010	2.135	2 1/8 (2.1250)		3	8.00	3.56	1.38	1.7690	1.327
2.135	2.260	2 1/4 (2.2500)	M56 (2.2047)	3	8.25	3.56	1.44	1.8940	1.420
2.260	2.385	2 3/8 (2.3750)		3	8.50	4.00	1.44	2.0190	1.514
2.385	2.510	2 1/2 (2.5000)		3	8.75	4.00	1.50	2.1000	1.575
2.510	2.635	2 5/8 (2.6250)	M64 (2.5197)	3	8.75	4.00	1.50	2.2250	1.669
2.635	2.760	2 3/4 (2.7500)		3	9.25	4.00	1.56	2.3500	1.762
2.760	2.885	2 7/8 (2.8750)	M72 (2.8346)	3	9.25	4.00	1.56	2.4750	1.856
2.885	3.010	3 (3.0000)		3	9.75	4.56	1.63	2.5430	1.907
3.010	3.135	3 1/8 (3.1250)		3	9.75	4.56	1.63	2.6680	2.001
3.135	3.260	3 1/4 (3.2500)	M80 (3.1496)	3	10.00	4.56	1.75	2.7930	2.095
3.260	3.385	3 3/8 (3.3750)		3	10.00	4.56	1.75	2.8830	2.162
3.385	3.510	3 1/2 (3.5000)		3	10.25	4.94	2.00	3.0080	2.256
3.510	3.635	3 5/8 (3.6250)	M90 (3.5433)	3	10.25	4.94	2.00	3.1330	2.350
3.635	3.760	3 3/4 (3.7500)		3	10.50	5.31	2.13	3.2170	2.413
3.760	3.885	3 7/8 (3.8750)		3	10.50	5.31	2.13	3.3420	2.506
3.885	4.010	4 (4.0000)	M100 (3.9370)	3	10.75	5.31	2.25	3.4670	2.600

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USCTI Table 302 - Standard Tap Dimensions - Ground Thread *Continued*

Element	Tolerances			Tolerance (Inches)
	Nominal Diameter Range in Inches	Direction		
Length Overall - L	Over	Plus or Minus		.031
	To (Inc.)	Plus or Minus		
Length of Thread - l	Over	Plus or Minus		.063
	To (Inc.)	Plus or Minus		
	Over	Plus or Minus		
	To (Inc.)	Plus or Minus		
Length of square - l ₂	Over	Plus or Minus		.031
	To (Inc.)	Plus or Minus		
	Over	Plus or Minus		
	To (Inc.)	Plus or Minus		
Diameter of shank - d ₁	Over	Minus		.0015
	To (Inc.)	Minus		
	Over	Minus		
	To (Inc.)	Minus		
Size of square - a	Over	Minus		.0030
	To (Inc.)	Minus		
	Over	Minus		
	To (Inc.)	Minus		

SPECIAL TAPS

Unless otherwise specified: Special taps over 1.010" to 1.510" diameter inclusive, having 14 or more threads per inch or 1.75 millimeter pitch and finer, and sizes over 1.510" diameter with 10 or more threads per inch or 2.5 millimeter pitch and finer, are made to general dimensions shown in Table 303.

Special tap thread limits are determined by using the formulas shown in Table 331 for Unified Inch Screw Threads and Table 341 for Metric M-Profile Screw Threads.

NOTES

Tap sizes .395" and smaller have an external center on the thread end (may be removed on bottoming taps). Sizes .223" and smaller have an external center on the shank end. Sizes .224" thru .395 have truncated partial cone centers on the shank end (length of cone approximately 1/4 of diameter of shank). Sizes over .395" have internal centers on both the thread and shank ends.

For standard thread limits and tolerances for Unified Inch Screw Threads see table 327 and for Metric Threads see Table 337.

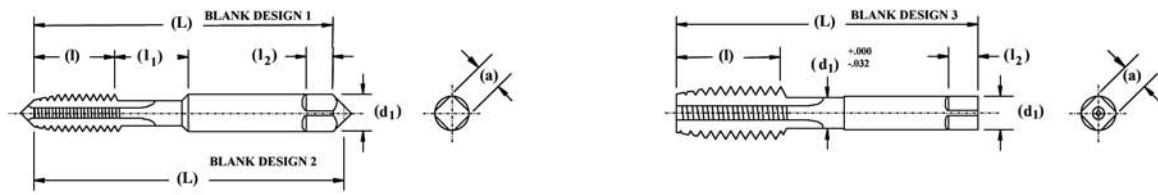
For eccentricity tolerances of tap elements see Table 317.

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USCTI Table 302A - Optional Neck & Shortened Thread Length Tap Dimensions

Ground Thread



Nominal Diameter Range - Inches		Machine Screw Size	Nominal Fractional Diameter	Nominal Metric Diameter	Blank Design No.	Tap Dimensions - Inches					
Over	To (Inc.)		Inches	Millimeters (Inches)		L	l	l ₁	l ₂	d ₁	a
.104	.117	4 (.1120)			1	1.88	.31	.25	.19	.1410	.110
.117	.130	5 (.1250)		M3 (.1181)	1	1.94	.31	.31	.19	.1410	.110
.130	.145	6 (.1380)		M3.5 (.1378)	1	2.00	.38	.31	.19	.1410	.110
.145	.171	8 (.1640)		M4 (.1575)	1	2.13	.38	.38	.25	.1680	.131
.171	.197	10 (.1900)		M4.5 (.1772), M5 (.1969)	1	2.38	.50	.38	.25	.1940	.152
.197	.223	12 (.2160)			1	2.38	.50	.44	.28	.2200	.165
.223	.260		1/4 (.2500)	M6 (.2362)	2	2.50	.63	.38	.31	.2550	.191
.260	.323		5/16 (.3125)	M7 (.2756), M8 (.3150)	2	2.72	.69	.44	.38	.3180	.238
.323	.395		3/8 (.3750)	M10 (.3937)	2	2.94	.75	.50	.44	.3810	.286
.395	.448		7/16 (.4375)		3	3.16	.88	-	.41	.3230	.242
.448	.510		1/2 (.5000)	M12 (.4724)	3	3.38	.94	-	.44	.3670	.275
.510	.573		9/16 (.5625)	M14 (.5512)	3	3.59	1.00	-	.50	.4290	.322
.573	.635		5/8 (.6250)	M16 (.6299)	3	3.81	1.09	-	.56	.4800	.360
.635	.709		11/16 (.6875)	M18 (.7087)	3	4.03	1.09	-	.63	.5420	.406
.709	.760		3/4 (.7500)		3	4.25	1.22	-	.69	.5900	.442
.760	.823		13/16 (.8125)	M20 (.7874)	3	4.47	1.22	-	.69	.6520	.489
.823	.885		7/8 (.8750)	M22 (.8661)	3	4.69	1.34	-	.75	.6970	.523
.885	.948		15/16 (.9375)	M24 (.9449)	3	4.91	1.34	-	.75	.7600	.570
.948	1.010		1 (1.0000)	M25 (.9843)	3	5.13	1.50	-	.81	.8000	.600

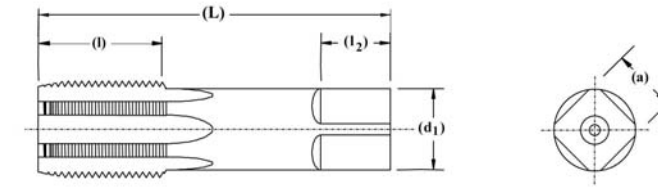
NOTES

- 1.) Thread Length "l" is based on a length of 12 pitches of the UNC thread series.
- 2.) Thread Length "l" is a minimum value and has no tolerance.
- 3.) When Thread Length "l" is added to Neck Length "l₁" the total shall be no less than the minimum Table 302 Thread Length "l".
- 4.) Unless otherwise specified, all tolerances are in accordance with Table 302.
- 5.) For eccentricity tolerances, see Table 317.

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USCTI Table 303 - Special Fine Pitch Taps, Short Series - Ground Thread



Unless otherwise specified, special taps 1.010" to 1.510" diameter inclusive, having 14 or more threads per inch or 1.75 millimeter pitch and finer, and sizes over 1.510" diameter with 10 or more threads per inch, or 2.5 millimeter pitch and finer, will be made to the general dimensions shown below:

Nominal Diameter Range - Inches		Nominal Fractional Diameter	Nominal Metric Diameter	Overall Length	Tap Dimensions - Inches			Shank Diameter	Square Size
Over	To (Inc.)	Inches	Millimeters	L	l	l ₂	d ₁	a	
1.010	1.073	1 1/16	M27	4.00	1.50	.88	.8960	.672	
1.073	1.135	1 1/8		4.00	1.50	.88	.8960	.672	
1.135	1.198	1 3/16	M30	4.00	1.50	1.00	1.0210	.766	
1.198	1.260	1 1/4		4.00	1.50	1.00	1.0210	.766	
1.260	1.323	1 5/16	M33	4.00	1.50	1.00	1.1080	.831	
1.323	1.385	1 3/8		4.00	1.50	1.00	1.1080	.831	
1.385	1.448	1 7/16	M36	4.00	1.50	1.00	1.2330	.925	
1.448	1.510	1 1/2		4.00	1.50	1.00	1.2330	.925	
1.510	1.635	1 5/8	M39	5.00	2.00	1.13	1.3050	.979	
1.635	1.760	1 3/4	M42	5.00	2.00	1.25	1.4300	1.072	
1.760	1.885	1 7/8		5.00	2.00	1.25	1.5190	1.139	
1.885	2.010	2	M48	5.00	2.00	1.38	1.6440	1.233	
2.010	2.135	2 1/8		5.25	2.00	1.38	1.7690	1.327	
2.135	2.260	2 1/4	M56	5.25	2.00	1.44	1.8940	1.420	
2.260	2.385	2 3/8		5.25	2.00	1.44	2.0190	1.514	
2.385	2.510	2 1/2		5.25	2.00	1.50	2.1000	1.575	
2.510	2.635	2 5/8	M64	5.50	2.00	1.50	2.1000	1.575	
2.635	2.760	2 3/4		5.50	2.00	1.50	2.1000	1.575	
2.760	2.885	2 7/8	M72	5.50	2.00	1.50	2.1000	1.575	
2.885	3.010	3		5.50	2.00	1.50	2.1000	1.575	
3.010	3.135	3 1/8		5.75	2.00	1.50	2.1000	1.575	
3.135	3.260	3 1/4	M80	5.75	2.00	1.50	2.1000	1.575	
3.260	3.385	3 3/8		5.75	2.00	1.50	2.1000	1.575	
3.385	3.510	3 1/2		5.75	2.00	1.50	2.1000	1.575	
3.510	3.635	3 5/8	M90	6.00	2.00	1.75	2.1000	1.575	
3.635	3.760	3 3/8		6.00	2.00	1.75	2.1000	1.575	
3.760	3.885	3 7/8		6.00	2.00	1.75	2.1000	1.575	
3.885	4.010	4	M100	6.00	2.00	1.75	2.1000	1.575	

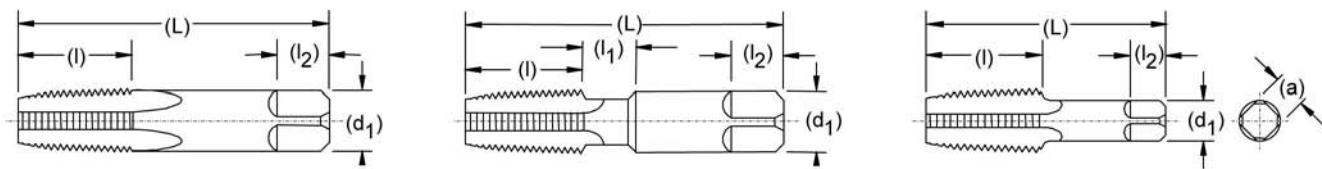
NOTES

- For tolerances see Table 302.
 For standard thread limits and tolerances for Unified Inch Screw Threads see Tables 327A.
 For standard thread limits and tolerances for Metric Threads see Tables 337 and 341.
 For eccentricity tolerances of tap elements see Table 317.

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USCTI Table 311 - Standard Pipe Tap Dimensions, Straight & Taper - Ground Thread



GENERAL DIMENSIONS
Tap Dimensions - Inches

Nominal Size Inches	Overall Length L	Thread Length l	Square Length l ₂	Shank Diameter d ₁	Square Size a	Neck Length (Optional) l ₁
1/16	2.13	.69	.38	.3125	.234	.375
1/8	2.13	.75	.38	.3125	.234	.375
1/8	2.13	.75	.38	.4375	.328	.375
1/4	2.44	1.06	.44	.5625	.421	.375
3/8	2.56	1.06	.50	.7000	.531	.375
1/2	3.13	1.38	.63	.6875	.515	.375
3/4	3.25	1.38	.69	.9063	.679	.375
1	3.75	1.75	.81	1.1250	.843	.375
1-1/4	4.00	1.75	.94	1.3125	.984	.375
1-1/2	4.25	1.75	1.00	1.5000	1.125	.375
2	4.25	1.75	1.13	1.8750	1.406	.375
2-1/2	5.50	2.56	1.25	2.2500	1.687	.375
3	6.00	2.63	1.38	2.6250	1.968	.375
3-1/2	6.50	2.69	1.50	2.8125	2.108	.375
4	6.75	2.75	1.56	3.0000	2.250	.375

Tolerances

Element	Range	Direction	Tolerance
Length Overall - L	1/16 to 3/4 inc.	Plus or Minus	.031
	1 to 4 inc.	Plus or Minus	.063
Length of Thread - l	1/16 to 3/4 inc.	Plus or Minus	.063
	1 to 1-1/4 inc.	Plus or Minus	.094
Length of Square - l ₂	1-1/2 to 4	Plus or Minus	.125
	1/16 to 3/4 inc.	Plus or Minus	.031
Diameter of Shank - d ₁	1 to 4 inc.	Plus or Minus	.063
	1/16 to 1/8	Minus	.0015
Size of Square - a	1/4 to 1 inc.	Minus	.0020
	1-1/4 to 4 inc.	Minus	.0030
	1/16 to 1/8	Minus	.004
	1/4 to 3/4 inc.	Minus	.006
	1 to 4 inc.	Minus	.008

NOTES

For thread limits and tolerances see Tables 335, 335A and 338.
For eccentricity tolerances of taps see Table 317.

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