



PRODUCT CATALOGUE



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QUALITY CUTTING TOOLS SINCE 1918

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Overview

Sales Terms & Conditions

Terms:	Net 30 Days
F.O.B.:	Point of Shipping
Minimum Billing:	\$30.00 Net Invoice Value
Taxes:	All Sales Taxes extra
Shipping Charges:	Normal shipping charges (our choice) will be prepaid on orders over \$750.00 Net Value. All other shipments will be sent COLLECT. Claims for lost or damaged shipments are to be made by the customer with the delivering carrier when the carrier is specified by the customer.

Please indicate clearly on your purchase orders if your shipments are to be insured.

Drop Shipments:	A \$7.50 Net Service Charge will apply to all drop shipments
Discrepancies:	Any discrepancy in the shipment or pricing must be reported within 10 days of receipt of shipment or invoice.
Past Due Accounts:	Accounts 45 days or over, without exception or prior notice will be placed on credit hold until the account is brought within terms.
Returned Goods:	Written authorization is required for all returns. Specially designed or manufactured tools will not be accepted for return for credit. All goods returned for credit or inspection must be prepaid or freight charges will be refused or charged back against the account. The original Invoice or Packing Slip number should accompany all returns. All returns may be subject to Restocking Charges.
Unlisted Specials:	** Important Note - Standard industry manufacturing practice for Full Special Tools is to over or under ship by 10% on quantities of 6 (six) pieces. We must be notified at time of quotation of "exact quantity" requirements, as pricing is based on this industry standard. The quotation reference must be clearly indicated on the purchase order of any variance of our policy. Trial Tools - Our experience clearly shows that test or trial orders without a purchase order is very rarely followed to final test conclusion. We both can follow the results if you place an order at current prices for test tools and we will issue a price adjustment at the time of large quantities placed on order.

Sales Terms & Conditions

Changes:

We reserve the right without prior notice to make changes (whether in design, materials, improvements or otherwise) in any product and may discontinue the manufacture or import of any catalogue item without obligations of any kind.

Technical Advice:

Any recommendations or technical advice given are believed to be reliable, but we make no warranty, express or implied for the results obtained.

Blanket Orders:

We will accept purchase orders for time released shipments over an agreed upon period to satisfy your customers "just in time" requirements. These are considered firm orders and subject to shipment of the order balance at the end of the release period.

Warranty:

All tools manufactured by us, or for us by other manufacturers, carry a full warranty, and any tools proving faulty in workmanship or material will be repaired or replaced at our discretion "No Charge." This warranty does not cover any items altered or modified, or which have been damaged by misuse, or failure of appropriate preventive maintenance. It is the end user's responsibility to inspect a special threaded product prior to using to produce the end product.

Thread Identification Charge:

We offer our customers a 72 hour thread identification service. This Identification fee will be credited to our customers in the event an order for the identified part is placed.

Jet Delivery Service

Manufactured Specials in 24 - 48 hours

Jet Taps:

We offer 24-48 hour manufacturing service for any unlisted special from #4 Machine Screw (3mm) to 4.1/2" (110mm) diameters manufactured from standard stocked tap blanks as listed in Tables 302/303/311. We also offer extra length sizes from 1/4" to 1.1/2" where blanks are stocked.

Service applies to both Right and Left Hand unlisted special taps in straight flute, spiral point and spiral flute with standard thread lengths.

Maximum Tap Quantities as follows:

#4 to 15/16"	12 Taps
1" to 1.7/8"	10 Taps
2" to 2.7/8"	6 Taps
3" to 4.1/2"	3 Taps

Jet Reamers:

We offer 3 - 5 day delivery service for any unlisted special Straight Shank Straight Flute Chucking Reamers in a range from **5/16" to 1"** diameters manufactured from standard stocked reamer blanks.

Contact our office for availability of blanks and pricing for JET Taps and Reamers

Taps

NEF & NS Special Taps

Right Hand High Speed Steel



Size	GH Limit	Overall Length	Thread Length	# of Flutes	Taper EDP#	Plug EDP #	Bott. EDP #	Set EDP #	Spiral Point # of Flutes	Spiral Point EDP#
#4-32 NS	2	1.7/8"	9/16"	3	30061	30062	30063	30064		--
#4-64 NS	2	1.7/8"	9/16"	3	30081	30082	30083	30084		--
#4-80 NS	2	1.7/8"	9/16"	3	30091	30092	30093	30094		--
.120"-80 NS	2	1.15/16"	5/8"	3	30101	30102	30103	30104	2	30105
#5-32 NS	2	1.15/16"	5/8"	3	30121	30122	30123	30124		--
#5-36 NS	2	1.15/16"	5/8"	3	30131	30132	30133	30134		--
#5-48 NS	2	1.15/16"	5/8"	3	30141	30142	30143	30144		--
#5-56 NS	2	1.15/16"	5/8"	3	30151	30152	30153	30154		--
#5-64 NS	2	1.15/16"	5/8"	3	30161	30162	30163	30164		--
#5-80 NS	2	1.15/16"	5/8"	3	30171	30172	30173	30174		--
#6-24 NS	3	2"	11/16"	3	30181	30182	30183	30184		--
#6-30 NS	3	2"	11/16"	3	30191	30192	30193	30194		--
#6-36 NS	2	2"	11/16"	3	30201	30202	30203	30204		--
#6-48 NS	2	2"	11/16"	3	30211	30212	30213	30214	2	30215
#6-56 NS	2	2"	11/16"	3	30221	30222	30223	30224		--
#6-64 NS	2	2"	11/16"	3	30231	30232	30233	30234		--
#6-80 NS	2	2"	11/16"	3	30241	30242	30243	30244		--
5/32"-32 NS	3	2.1/8"	3/4"	4	30251	30252	30253	30254		--
5/32"-36 NS	2	2.1/8"	3/4"	4	30261	30262	30263	30264		--
5/32"-40 NS	2	2.1/8"	3/4"	4	30271	30272	30273	30274		--
#8-24 NS	3	2.1/8"	3/4"	4	30291	30292	30293	30294		--
#8-40 NS	2	2.1/8"	3/4"	4	30301	30302	30303	30304	2	30305
#8-48 NS	2	2.1/8"	3/4"	4	30311	30312	30313	30314		--
#8-56 NS	2	2.1/8"	3/4"	4	30321	30322	30323	30324		--
3/16"-24 NS	3	2.3/8"	7/8"	4	30341	30342	30343	30344		--
3/16"-32 NS	3	2.3/8"	7/8"	4	30351	30352	30353	30354		--
3/16"-40 NS	2	2.3/8"	7/8"	4	30361	30362	30363	30364		--
#10-28 NS	3	2.3/8"	7/8"	4	30381	30382	30383	30384		--
#10-30 NS	3	2.3/8"	7/8"	4	30391	30392	30393	30394		--
#10-36 NS	2	2.3/8"	7/8"	4	30401	30402	30403	30404		--

NEF & NS Special Taps

Right Hand High Speed Steel

Size	GH Limit	Overall Length	Thread Length	# of Flutes	Taper EDP#	Plug EDP #	Bott. EDP #	Set EDP #	Spiral Point # of Flutes	Spiral Point EDP#
#10-40 NS	2	2.3/8"	7/8"	4	30411	30412	30413	30414	2	30415
#10-48 NS	2	2.3/8"	7/8"	4	30421	30422	30423	30424	2	30425
#10-56 NS	2	2.3/8"	7/8"	4	30431	30432	30433	30434	2	30435
#10-64 NS	2	2.3/8"	7/8"	4	30441	30442	30443	30444		--
.210"-36 NS	3	2.3/8"	15/16"	4	30461	30462	30463	30464		--
#12-32 NEF	3	2.3/8"	15/16"	4	30481	30482	30483	30484	2	30485
#12-36 NS	2	2.3/8"	15/16"	4	30501	30502	30503	30504		--
#12-40 NS	2	2.3/8"	15/16"	4	30511	30512	30513	30514		--
7/32"-24 NS	3	2.3/8"	15/16"	4	30531	30532	30533	30534		--
7/32"-32 NS	3	2.3/8"	15/16"	4	30541	30542	30543	30544		--
7/32"-40 NS	2	2.3/8"	15/16"	4	30551	30552	30553	30554		--
#14-20 NS	3	2.1/2"	1"	4	30571	30572	30573	30574		--
#14-24 NS	3	2.1/2"	1"	4	30581	30582	30583	30584		--
#14-32 NS	3	2.1/2"	1"	4	30591	30592	30593	30594		--
1/4"-24 NS	3	2.1/2"	1"	4	30611	30612	30613	30614	2	30615
1/4"-26 NS	3	2.1/2"	1"	4	30621	30622	30623	30624		--
1/4"-27 NS	3	2.1/2"	1"	4	30631	30632	30633	30634		--
1/4"-32 NEF	3	2.1/2"	1"	4	30641	30642	30643	30644	2	30645
1/4"-36 NS	2	2.1/2"	1"	4	30661	30662	30663	30664	2	30665
1/4"-40 NS	2	2.1/2"	1"	4	30671	30672	30673	30674	2	30675
1/4"-48 NS	2	2.1/2"	1"	4	30681	30682	30683	30684		--
1/4"-56 NS	2	2.1/2"	1"	4	30691	30692	30693	30694		--
1/4"-72 NS	2	2.1/2"	1"	4	30711	30712	30713	30714		--
1/4"-80 NS	2	2.1/2"	1"	4	30721	30722	30723	30724		--
9/32"-24 NS	3	2.23/32"	1.1/8"	4	30741	30742	30743	30744		--
9/32"-28 NS	3	2.23/32"	1.1/8"	4	30751	30752	30753	30754		--
9/32"-32 NS	3	2.23/32"	1.1/8"	4	30761	30762	30763	30764		--
5/16"-20 NS	3	2.23/32"	1.1/8"	4	30781	30782	30783	30784		--
5/16"-27 NS	3	2.23/32"	1.1/8"	4	30791	30792	30793	30794		--
5/16"-28 NS	3	2.23/32"	1.1/8"	4	30801	30802	30803	30804		--
5/16"-32 NEF	3	2.23/32"	1.1/8"	4	30811	30812	30813	30814	2	30815
5/16"-36 NS	2	2.23/32"	1.1/8"	4	30831	30832	30833	30834		--
5/16"-40 NS	2	2.23/32"	1.1/8"	4	30841	30842	30843	30844		--
5/16"-48 NS	2	2.23/32"	1.1/8"	4	30851	30852	30853	30854		--

NEF & NS Special Taps

Right Hand High Speed Steel

Size	GH Limit	Overall Length	Thread Length	# of Flutes	Taper EDP#	Plug EDP #	Bott. EDP #	Set EDP #	Spiral Point # of Flutes	Spiral Point EDP#
11/32"-32 NS	3	2.15/16"	1.1/4"	4	30871	30872	30873	30874		--
3/8"-18 NS	3	2.15/16"	1.1/4"	4	30891	30892	30893	30894		--
3/8"-20 NS	3	2.15/16"	1.1/4"	4	30901	30902	30903	30904		--
3/8"-26 NS	3	2.15/16"	1.1/4"	4	30911	30912	30913	30914		--
3/8"-27 NS	3	2.15/16"	1.1/4"	4	30921	30922	30923	30924	2	30925
3/8"-28 NS	3	2.15/16"	1.1/4"	4	30931	30932	30933	30934		--
3/8"-30 NS	3	2.15/16"	1.1/4"	4	30941	30942	30943	30944		--
3/8"-32 NEF	3	2.15/16"	1.1/4"	4	30951	30952	30953	30954	2	30955
3/8"-36 NS	3	2.15/16"	1.1/4"	4	30971	30972	30973	30974		--
3/8"-40 NS	2	2.15/16"	1.1/4"	4	30981	30982	30983	30984		--
3/8"-64 NS	2	2.15/16"	1.1/4"	4	30991	30992	30993	30994		--
N-00 .391"-32 NS	3	2.15/16"	1.1/4"	4	31011	31012	31013	31014		--
13/32"-32 NS	3	3.5/32"	1.7/16"	4	31031	31032	31033	31034		--
7/16"-16 NS	3	3.5/32"	1.7/16"	4	31051	31052	31053	31054		--
7/16"-18 NS	3	3.5/32"	1.7/16"	4	31061	31062	31063	31064		--
7/16"-24 NS	3	3.5/32"	1.7/16"	4	31071	31072	31073	31074		--
7/16"-27 NS	3	3.5/32"	1.7/16"	4	31081	31082	31083	31084		--
7/16"-28 NEF	3	3.5/32"	1.7/16"	4	31091	31092	31093	31094		--
7/16"-32 NS	3	3.5/32"	1.7/16"	4	31101	31102	31103	31104		--
7/16"-40 NS	2	3.5/32"	1.7/16"	4	31111	31112	31113	31114		--
15/32"-32 NS	3	3.3/8"	1.21/32"	4	31131	31132	31133	31134		--
N-01 .469"-32 NS	3	3.3/8"	1.21/32"	4	31151	31152	31153	31154		--
1/2"-12 NS	3	3.3/8"	1.21/32"	4	31171	31172	31173	31174		--
1/2"-14 NS	3	3.3/8"	1.21/32"	4	31181	31182	31183	31184		--
1/2"-16 NS	3	3.3/8"	1.21/32"	4	31191	31192	31193	31194		--
1/2"-18 NS	3	3.3/8"	1.21/32"	4	31201	31202	31203	31204		--
1/2"-24 NS	3	3.3/8"	1.21/32"	4	31211	31212	31213	31214		--
1/2"-25 NS	3	3.3/8"	1.21/32"	4	31221	31222	31223	31224		--
1/2"-26 NS	3	3.3/8"	1.21/32"	4	31231	31232	31233	31234		--
1/2"-27 NS	3	3.3/8"	1.21/32"	4	31241	31242	31243	31244		--
1/2"-28 NEF	3	3.3/8"	1.21/32"	4	31251	31252	31253	31254	2	31255
1/2"-32 NS	3	3.3/8"	1.21/32"	6	31261	31262	31263	31264		--
1/2"-40 NS	3	3.3/8"	1.21/32"	6	31271	31272	31273	31274		--
17/32"-40 NS	3	3.19/32"	1.21/32"	4	31301	31302	31303	31304		--

NEF & NS Special Taps

Right Hand High Speed Steel

Size	GH Limit	Overall Length	Thread Length	# of Flutes	Taper EDP#	Plug EDP #	Bott. EDP #	Set EDP #
9/16"-16 NS	3	3.19/32"	1.21/32"	4	31321	31322	31323	31324
9/16"-20 NS	3	3.19/32"	1.21/32"	4	31331	31332	31333	31334
9/16"-24 NEF	3	3.19/32"	1.21/32"	4	31341	31342	31343	31344
9/16"-25 NS	3	3.19/32"	1.21/32"	4	31351	31352	31353	31354
9/16"-27 NS	3	3.19/32"	1.21/32"	6	31361	31362	31363	31364
9/16"-28 NS	3	3.19/32"	1.21/32"	6	31371	31372	31373	31374
9/16"-32 NS	3	3.19/32"	1.21/32"	6	31381	31382	31383	31384
9/16"-40 NS	3	3.19/32"	1.21/32"	6	31391	31392	31393	31394
N-02 .586"-32 NS	3	3.13/16"	1.13/16"	4	31411	31412	31413	31414
5/8"-12 NS	3	3.13/16"	1.13/16"	4	31431	31432	31433	31434
5/8"-14 NS	3	3.13/16"	1.13/16"	4	31441	31442	31443	31444
5/8"-16 NS	3	3.13/16"	1.13/16"	4	31451	31452	31453	31454
5/8"-20 NS	3	3.13/16"	1.13/16"	4	31461	31462	31463	31464
5/8"-24 NEF	3	3.13/16"	1.13/16"	6	31471	31472	31473	31474
5/8"-27 NS	3	3.13/16"	1.13/16"	6	31481	31482	31483	31484
5/8"-28 NS	3	3.13/16"	1.13/16"	6	31491	31492	31493	31494
5/8"-32 NS	3	3.13/16"	1.13/16"	6	31501	31502	31503	31504
N-03 .664"-32 NS	3	4.1/32"	1.13/16"	4	31521	31522	31523	31524
.669"-20 NS	3	4.1/32"	1.13/16"	4	31541	31542	31543	31544
11/16"-12 NS	3	4.1/32"	1.13/16"	4	31551	31552	31553	31554
11/16"-18 NS	3	4.1/32"	1.13/16"	4	31561	31562	31563	31564
11/16"-20 NS	3	4.1/32"	1.13/16"	6	31591	31592	31593	31594
11/16"-24 NEF	3	4.1/32"	1.13/16"	6	31601	31602	31603	31604
11/16"-27 NS	3	4.1/32"	1.13/16"	6	31611	31612	31613	31614
11/16"-28 NS	3	4.1/32"	1.13/16"	6	31621	31622	31623	31624
11/16"-32 NS	3	4.1/32"	1.13/16"	6	31631	31632	31633	31634
3/4"-12 NS	4	4.1/4"	2"	4	31651	31652	31653	31654
3/4"-14 NS	4	4.1/4"	2"	4	31661	31662	31663	31664
3/4"-18 NS	3	4.1/4"	2"	4	31671	31672	31673	31674
3/4"-20 NEF	3	4.1/4"	2"	6	31681	31682	31683	31684
3/4"-24 NS	3	4.1/4"	2"	6	31701	31702	31703	31704
3/4"-27 NS	3	4.1/4"	2"	6	31711	31712	31713	31714
3/4"-28 NS	3	4.1/4"	2"	6	31721	31722	31723	31724
3/4"-32 NS	3	4.1/4"	2"	6	31731	31732	31733	31734

NEF & NS Special Taps

Right Hand High Speed Steel

Size	GH Limit	Overall Length	Thread Length	# of Flutes	Taper EDP#	Plug EDP #	Bott. EDP #	Set EDP #
3/4"-40 NS	3	4.1/4"	2"	6	31741	31742	31743	31744
N-04 .781"-32 NS	3	4.15/32"	2"	6	31761	31762	31763	31764
.800"-36 AMO	3	4.15/32"	2"	6	31781	31782	31783	31784
13/16"-10 NS	4	4.15/32"	2"	4	31801	31802	31803	31804
13/16"-12 NS	4	4.15/32"	2"	4	31811	31812	31813	31814
13/16"-16 NS	3	4.15/32"	2"	4	31821	31822	31823	31824
13/16"-18 NS	3	4.15/32"	2"	4	31831	31832	31833	31834
13/16"-20 NEF	3	4.15/32"	2"	6	31841	31842	31843	31844
13/16"-24 NS	3	4.15/32"	2"	6	31851	31852	31853	31854
13/16"-27 NS	3	4.15/32"	2"	6	31861	31862	31863	31864
13/16"-32 NS	3	4.15/32"	2"	6	31871	31872	31873	31874
7/8"-10 NS	4	4.11/16"	2.7/32"	4	31891	31892	31893	31894
7/8"-12 NS	4	4.11/16"	2.7/32"	4	31901	31902	31903	31904
7/8"-16 NS	3	4.11/16"	2.7/32"	4	31911	31912	31913	31914
7/8"-18 NS	3	4.11/16"	2.7/32"	4	31921	31922	31923	31924
7/8"-20 NEF	3	4.11/16"	2.7/32"	6	31941	31942	31943	31944
7/8"-24 NS	3	4.11/16"	2.7/32"	6	31961	31962	31963	31964
7/8"-27 NS	3	4.11/16"	2.7/32"	6	31971	31972	31973	31974
7/8"-28 NS	3	4.11/16"	2.7/32"	6	31981	31982	31983	31984
7/8"-32 NS	3	4.11/16"	2.7/32"	6	31991	31992	31993	31994
15/16"-10 NS	4	4.29/32"	2.7/32"	4	32011	32012	32013	32014
15/16"-12 NS	4	4.29/32"	2.7/32"	4	32021	32022	32023	32024
15/16"-14 NS	4	4.29/32"	2.7/32"	4	32031	32032	32033	32034
15/16"-16 NS	3	4.29/32"	2.7/32"	6	32041	32042	32043	32044
15/16"-18 NS	3	4.29/32"	2.7/32"	6	32051	32052	32053	32054
15/16"-20 NEF	3	4.29/32"	2.7/32"	6	32061	32062	32063	32064
15/16"-24 NS	3	4.29/32"	2.7/32"	6	32071	32072	32073	32074
15/16"-27 NS	3	4.29/32"	2.7/32"	6	32081	32082	32083	32084
15/16"-32 NS	3	4.29/32"	2.7/32"	6	32091	32092	32093	32094
N-05 .969"-32 NS	3	5.1/8"	2.1/2"	6	32111	32112	32113	32114
1"-10 NS	4	5.1/8"	2.1/2"	4	32131	32132	32133	32134
1"-16 NS	3	5.1/8"	2.1/2"	6	32141	32142	32143	32144
1"-18 NS	3	5.1/8"	2.1/2"	6	32161	32162	32163	32164
1"-20 NEF	3	5.1/8"	2.1/2"	6	32171	32172	32173	32174

NEF & NS Special Taps

Right Hand High Speed Steel

Size	GH Limit	Overall Length	Thread Length	# of Flutes	Taper EDP#	Plug EDP #	Bott. EDP #	Set EDP #
1"-24 NS	3	5.1/8"	2.1/2"	6	32191	32192	32193	32194
1"-27 NS	3	5.1/8"	2.1/2"	6	32201	32202	32203	32204
1"-28 NS	3	5.1/8"	2.1/2"	6	32211	32212	32213	32214
1"-32 NS	3	5.1/8"	2.1/2"	6	32221	32222	32223	32224
1"-40 NS	3	5.1/8"	2.1/2"	6	32231	32232	32233	32234
1.1/16"-10 NS	5	5.1/8"	2.1/2"	4	32251	32252	32253	32254
1.1/16"-12 NS	5	5.1/8"	2.1/2"	4	32261	32262	32263	32264
1.1/16"-14 NS	5	4"	1.1/2"	6	32271	32272	32273	32274
1.1/16"-16 NS	4	4"	1.1/2"	6	32281	32282	32283	32284
1.1/16"-18 NEF	4	4"	1.1/2"	6	32291	32292	32293	32294
1.1/16"-20 NS	4	4"	1.1/2"	6	32301	32302	32303	32304
1.1/16"-24 NS	4	4"	1.1/2"	6	32311	32312	32313	32314
1.1/8"-8 NS	5	5.7/16"	2.9/16"	4	32331	32332	32333	32334
1.1/8"-10 NS	5	5.7/16"	2.9/16"	4	32341	32342	32343	32344
1.1/8"-14 NS	5	4"	1.1/2"	6	32351	32352	32353	32354
1.1/8"-16 NS	4	4"	1.1/2"	6	32361	32362	32363	32364
1.1/8"-18 NEF	4	4"	1.1/2"	6	32371	32372	32373	32374
1.1/8"-20 NS	4	4"	1.1/2"	6	32381	32382	32383	32384
1.1/8"-24 NS	4	4"	1.1/2"	6	32391	32392	32393	32394
1.1/8"-28 NS	4	4"	1.1/2"	6	32401	32402	32403	32404
1.1/8"-32 NS	4	4"	1.1/2"	6	32411	32412	32413	32414
N-06 1.173"-18 NS	4	4"	1.1/2"	6	32431	32432	32433	32434
1.3/16"-10 NS	5	5.7/16"	2.9/16"	4	32451	32452	32453	32454
1.3/16"-12 NS	5	5.7/16"	2.9/16"	4	32461	32462	32463	32464
1.3/16"-14 NS	5	4"	1.1/2"	6	32471	32472	32473	32474
1.3/16"-16 NS	4	4"	1.1/2"	6	32481	32482	32483	32484
1.3/16"-18 NEF	4	4"	1.1/2"	6	32491	32492	32493	32494
1.3/16"-20 NS	4	4"	1.1/2"	6	32501	32502	32503	32504
1.1/4"-8 NS	5	5.3/4"	2.9/16"	4	32521	32522	32523	32524
1.1/4"-10 NS	5	5.3/4"	2.9/16"	4	32531	32532	32533	32534
1.1/4"-14 NS	5	4"	1.1/2"	6	32541	32542	32543	32544
1.1/4"-16 NS	4	4"	1.1/2"	6	32551	32552	32553	32554
1.1/4"-18 NEF	4	4"	1.1/2"	6	32561	32562	32563	32564
1.1/4"-20 NS	4	4"	1.1/2"	6	32571	32572	32573	32574

NEF & NS Special Taps

Right Hand High Speed Steel

Size	GH Limit	Overall Length	Thread Length	# of Flutes	Taper EDP#	Plug EDP #	Bott. EDP #	Set EDP #
1.1/4"-24 NS	4	4"	1.1/2"	6	32581	32582	32583	32584
1.5/16"-12 NS	5	5.3/4"	2.9/16"	6	32601	32602	32603	32604
1.5/16"-14 NS	5	4"	1.1/2"	6	32611	32612	32613	32614
1.5/16"-16 NS	4	4"	1.1/2"	6	32621	32622	32623	32624
1.5/16"-18 NEF	4	4"	1.1/2"	6	32631	32632	32633	32634
1.5/16"-20 NS	4	4"	1.1/2"	6	32641	32642	32643	32644
1.3/8"-8 NS	5	6.1/16"	3"	4	32661	32662	32663	32664
1.3/8"-10 NS	5	6.1/16"	3"	4	32671	32672	32673	32674
1.3/8"-16 NS	4	4"	1.1/2"	6	32681	32682	32683	32684
1.3/8"-18 NEF	4	4"	1.1/2"	6	32691	32692	32693	32694
1.3/8"-20 NS	4	4"	1.1/2"	6	32701	32702	32703	32704
1.3/8"-24 NS	4	4"	1.1/2"	6	32711	32712	32713	32714
N-07 1.376"-18 NS	4	4"	1.1/2"	6	32731	32732	32733	32734
1.7/16"-12 NS	5	6.1/16"	3"	6	32751	32752	32753	32754
1.7/16"-16 NS	4	4"	1.1/2"	6	32761	32762	32763	32764
1.7/16"-18 NEF	4	4"	1.1/2"	6	32771	32772	32773	32774
1.1/2"-8 NS	5	6.3/8"	3"	4	32791	32792	32793	32794
1.1/2"-10 NS	5	6.3/8"	3"	4	32801	32802	32803	32804
1.1/2"-14 NS	4	4"	1.1/2"	6	32811	32812	32813	32814
1.1/2"-16 NS	4	4"	1.1/2"	6	32821	32822	32823	32824
1.1/2"-18 NEF	4	4"	1.1/2"	6	32831	32832	32833	32834
1.1/2"-20 NS	4	4"	1.1/2"	6	32841	32842	32843	32844
1.1/2"-24 NS	4	4"	1.1/2"	6	32851	32852	32853	32854
1.9/16"-10 NS	6	5"	2"	6	32871	32872	32873	32874
1.9/16"-12 NS	6	5"	2"	6	32881	32882	32883	32884
1.9/16"-16 NS	5	5"	2"	6	32891	32892	32893	32894
1.9/16"-18 NEF	5	5"	2"	6	32901	32902	32903	32904
N-08 1.563"-18 NS	5	5"	2"	6	32921	32922	32923	32924
1.5/8"-5½ NC	7	6.11/16"	3"	6	32941	32942	32943	32944
1.5/8"-8 NS	6	6.11/16"	3"	6	32951	32952	32953	32954
1.5/8"-12 NS	6	5"	2"	6	32961	32962	32963	32964
1.5/8"-16 NS	5	5"	2"	6	32971	32972	32973	32974
1.5/8"-18 NEF	5	5"	2"	6	32981	32982	32983	32984
1.3/4"-5 NC	7	7"	3.3/16"	6	32971	32972	32973	32974

NEF & NS Special Taps

Right Hand High Speed Steel

Size	GH Limit	Overall Length	Thread Length	# of Flutes	Taper EDP#	Plug EDP #	Bott. EDP #	Set EDP #
1.3/4"-8 NS	6	7"	3.3/16"	6	32981	32982	32983	32984
1.3/4"-10 NS	6	5"	2"	6	33011	33012	33013	33014
1.3/4"-12 NS	6	5"	2"	6	33021	33022	33023	33024
1.3/4"-16 NS	5	5"	2"	6	33031	33032	33033	33034
1.3/4"-18 NS	5	5"	2"	6	33041	33042	33043	33044
1.3/4"-20 NS	5	5"	2"	6	33051	33052	33053	33054
N-09 1.767"-18 NS	5	5"	2"	6	33061	33062	33063	33064
1.7/8"-5 NC	7	7.5/16"	3.9/16"	6	33081	33082	33083	33084
1.7/8"-8 NS	6				33091	33092	33093	33094
1.7/8"-12 NS	6	5"	2"	6	33101	33102	33103	33104
1.7/8"-16 NS	5	5"	2"	6	33111	33112	33113	33114
1.7/8"-18 NS	5	5"	2"	6	33121	33122	33123	33124
N-10 1.967"-18 NS	5	5"	2"	6	33141	33142	33143	33144
2"-4½ NC	7	7.5/8"	3.9/16"	6	33161	33162	33163	33164
2"-6 NS	7	7.5/8"	3.9/16"	6	33171	33172	33173	33174
2"-8 NS	6	7.5/8"	3.9/16"	6	33181	33182	33183	33184
2"-10 NS	6	5"	2"	6	33191	33192	33193	33194
2"-12 NS	6	5"	2"	6	33201	33202	33203	33204
2"-16 NS	5	5"	2"	6	33211	33212	33213	33214
2"-18 NS	5	5"	2"	6	33221	33222	33223	33224
2"-20 NS	5	5"	2"	6	33231	33232	33233	33234
2.1/8"-8 NS	6	8"	3.9/16"	6	33261	33262	33263	33264
2.1/8"-12 NS	6	5.1/4"	2"	6	33271	33272	33273	33274
2.1/8"-16 NS	5	5.1/4"	2"	6	33281	33282	33283	33284
N-11 2.157"-18 NS	5	5.1/4"	2"	6	33301	33302	33303	33304
2.1/4"-4½ NC	7	8.1/4"	3.9/16"	6	33321	33322	33323	33324
2.1/4"-8 NS	6	8.1/4"	3.9/16"	6	33331	33332	33333	33334
2.1/4"-12 NS	6	5.1/4"	2"	6	33341	33342	33343	33344
2.1/4"-16 NS	5	5.1/4"	2"	6	33351	33352	33353	33354
N-12 2.360"-18 NS	5	5.1/4"	2"	6	33371	33372	33373	33374
2.3/8"-8 NS	6	8.1/2"	4"	6	33391	33392	33393	33394
2.3/8"-12 NS	6	5.1/4"	2"	6	33401	33402	33403	33404
2.3/8"-16 NS	5	5.1/4"	2"	6	33411	33412	33413	33414

NEF & NS Special Taps

Right Hand High Speed Steel

Size	GH Limit	Overall Length	Thread Length	# of Flutes	Taper EDP#	Plug EDP #	Bott. EDP #	Set EDP #
2.1/2"-4 NC	7	8.3/4"	4"	6	33431	33432	33433	33434
2.1/2"-8 NS	6	8.3/4"	4"	6	33441	33442	33443	33444
2.1/2"-12 NS	6	5.1/4"	2"	6	33451	33452	33453	33454
2.1/2"-16 NS	5	5.1/4"	2"	6	33461	33462	33463	33464
N-13 2.548"-18 NS	6	5.1/4"	2"	6	33481	33482	33483	33484
2.5/8"-8 NS	8	8.3/4"	4"	6	33501	33502	33503	33504
2.5/8"-12 NS	8	5.1/2"	2"	6	33511	33512	33513	33514
2.3/4"-4 NC	9	9.1/4"	4"	6	33531	33532	33533	33534
2.3/4"- 8 NS	8	9.1/4"	4"	6	33541	33542	33543	33544
2.3/4"-12 NS	8	5.1/2"	2"	6	33551	33552	33553	33554
2.3/4"-16 NS	7	5.1/2"	2"	6	33561	33562	33563	33564
N-14 2.751"-18 NS	6	5.1/2"	2"	6	33581	33582	33583	33584
2.7/8"-8 NS	8	9.1/4"	4"	6	33601	33602	33603	33604
2.7/8"-12 NS	8	5.1/2"	2"	6	33611	33612	33613	33614
AN-15 2.933"-12 NS	8	5.1/2"	2"	6	33631	33632	33633	33634
3"-4 NC	9	9.3/4"	4.9/16"	6	33651	33652	33653	33654
3"-8 NS	8	9.3/4"	4.9/16"	6	33661	33662	33663	33664
3"-12 NS	7	5.1/2"	2"	8	33671	33672	33673	33674
3"-16 NS	7	5.1/2"	2"	8	33681	33682	33683	33684
3.1/8"-8 NS	8	9.3/4"	4.9/16"	8	33701	33702	33703	33704
3.1/8"-12 NS	8	5.3/4"	2"	8	33711	33712	33713	33714
AN-16 3.137"-12 NS	8	5.3/4"	2"	8	33731	33732	33733	33734
3.1/4"-4 NC	9	10"	4.9/16"	8	33751	33752	33753	33754
3.1/4"-8 NS	8	10"	4.9/16"	8	33761	33762	33763	33764
3.1/4"-12 NS	8	5.3/4"	2"	8	33771	33772	33773	33774
AN-17 3.340"-12 NS	8	5.3/4"	2"	8	33791	33792	33793	33794
3.1/2"-4 NC	9	10.1/4"	4.15/16"	8	33811	33812	33813	33814
3.1/2"-8 NS	8	10.1/4"	4.15/16"	8	33821	33822	33823	33824
3.1/2"-12 NS	8	5.3/4"	2"	8	33831	33832	33833	33834
AN-18 3.527"-12 NS	8	6"	2"	8	33851	33852	33853	33854
AN-19 3.730"-12 NS	8	6"	2"	8	33871	33872	33873	33874
3.3/4"-4 NC	9	10.1/2"	5.5/16"	8	33891	33892	33893	33894
3.3/4"-8 NS	8	10.1/2"	5.5/16"	8	33901	33902	33903	33904
3.3/4"-12 NS	8	6"	2"	8	33911	33912	33913	33914

Additional sizes and pitches available on request

NEF & NS Special Taps

Left Hand High Speed Steel



Size	GH Limit	Overall Length	Thread Length	# of Flutes	Taper EDP #	Plug EDP #	Bott. EDP #	Set EDP #
#12-32 NEF	3	2.3/8"	15/16"	4	30491	30492	30493	30494
1/4"-32 NEF	3	2.1/2"	1"	4	30651	30652	30653	30654
5/16"-32 NEF	3	2.23/32"	1.1/8"	4	30821	30822	30823	30824
3/8"-32 NEF	3	2.15/16"	1.1/4"	4	30961	30962	30963	30964
11/16"-18 NS	3	4.1/32"	1.13/16"	4	31581	31582	31583	31584
3/4"-20 NEF	3	4.1/4"	2"	6	31591	31592	31593	31594
7/8"-18 NS	3	4.11/16"	2.7/32"	4	31931	31932	31933	31934
7/8"-20 NEF	3	4.11/16"	2.7/32"	6	31951	31952	31953	31954
1"-16 NS	3	5.1/8"	2.1/2"	6	32151	32152	32153	32154
1"-20 NEF	3	5.1/8"	2.1/2"	6	32181	32182	32183	32184

Additional sizes and pitches available on request

Metric Special Taps

Right Hand High Speed Steel



Size	D Limit	Overall Length	Thread Length	# of Flutes	Taper EDP #	Plug EDP #	Bott EDP #.	Set EDP #	Spiral Point EDP #
M1.4 x 0.3	3	1.5/8"	5/16"	0	--	--	--	--	70025
M1.5 x 0.35	3	1.5/8"	5/16"	0	70071	70072	70073	70074	--
M1.7 x 0.35	3	1.11/16"	3/8"	2	70131	70132	70133	70134	--
M3 x 0.35	3	1.15/16"	5/8"	3	70381	70382	70383	70384	--
M3 x 0.75	4	1.15/16"	5/8"	3	70401	70402	70403	70404	--
M3.5 x 0.35	3	2"	11/16"	3	70461	70462	70463	70464	--
M3.5 x 0.5	3	2"	11/16"	3	70471	70472	70473	70474	--
M4 x 0.35	3	2.1/8"	3/4"	4	70521	70522	70523	70524	--
M4 x 0.8	4	2.1/8"	3/4"	4	70531	70532	70533	70534	--
M4 x 1.0	5	2.1/8"	3/4"	4	70541	70542	70543	70544	--
M4.5 x 0.45	3	2.3/8"	7/8"	4	70611	70612	70613	70614	--
M4.5 x 0.5	3	2.3/8"	7/8"	4	70621	70622	70623	70624	--
M5 x 0.35	3	2.3/8"	7/8"	4	70681	70682	70683	70684	--
M5 x 0.4	3	2.3/8"	7/8"	4	70691	70692	70693	70694	--
M5 x 0.7	4	2.3/8"	7/8"	4	70701	70702	70703	70704	--
M5 x 1.0	5	2.3/8"	7/8"	4	70711	70712	70713	70714	--
M5 x 1.25	5	2.3/8"	7/8"	4	70721	70722	70723	70724	--
M5.5 x 0.5	3	2.3/8"	15/16"	4	70761	70762	70763	70764	--
M5.5 x 0.75	4	2.3/8"	15/16"	4	70771	70772	70773	70774	--
M5.5 x 0.8	4	2.3/8"	15/16"	4	70781	70782	70783	70784	--
M5.5 x 1.0	5	2.3/8"	15/16"	4	70791	70792	70793	70794	--
M6 x 0.8	4	2.1/2"	1"	4	70851	70852	70853	70854	--
M6 x 1.25	5	2.1/2"	1"	4	70861	70862	70863	70864	--
M6 x 1.5	5	2.1/2"	1"	4	70871	70872	70873	70874	--
M6.3 x 1.0	5	2.1/2"	1"	4	70921	70922	70923	70924	--
M7 x 0.5	3	2.23/32"	1.1/8"	4	70971	70972	70973	70974	--
M7 x 1.25	5	2.23/32"	1.1/8"	4	70981	70982	70983	70984	--
M7 x 1.5	6	2.23/32"	1.1/8"	4	70991	70992	70993	70994	--
M8 x 1.5	6	2.23/32"	1.1/8"	4	71041	71042	71043	71044	--
M9 x 0.5	4	2.15/16"	1.1/4"	4	71091	71092	71093	71094	--

Metric Special Taps

Right Hand High Speed Steel

Size	D Limit	Overall Length	Thread Length	# of Flutes	Taper EDP #	Plug EDP #	Bott EDP #	Set EDP #	Spiral Point EDP #
M9 x 0.75	5	2.15/16"	1.1/4"	4	71101	71102	71103	71104	--
M9 x 1.5	6	2.15/16"	1.1/4"	4	71111	71112	71113	71114	--
M10 x 0.5	4	2.15/16"	1.1/4"	4	71161	71162	71163	71164	--
M10 x 0.9	5	2.15/16"	1.1/4"	4	71171	71172	71173	71174	--
M10 x 1.75	6	2.15/16"	1.1/4"	4	71181	71182	71183	71184	--
M11 x 1.25	5	3.5/32"	1.7/16"	4	71231	71232	71233	71234	--
M12 x 0.5	4	3.3/8"	1.21/32"	4	71281	71282	71283	71284	--
M12 x 0.75	5	3.3/8"	1.21/32"	4	71291	71292	71293	71294	--
M12 x 0.8	5	3.3/8"	1.21/32"	4	71301	71302	71303	71304	--
M12 x 2.0	7	3.3/8"	1.21/32"	4	71311	71312	71313	71314	--
M13 x 0.75	5	3.19/32"	1.21/32"	4	71361	71362	71363	71364	--
M13 x 1.0	5	3.19/32"	1.21/32"	4	71371	71372	71373	71374	--
M13 x 1.25	5	3.19/32"	1.21/32"	4	71381	71382	71383	71384	--
M13 x 1.5	6	3.19/32"	1.21/32"	4	71391	71392	71393	71394	--
M13 x 1.75	6	3.19/32"	1.21/32"	4	71401	71402	71403	71404	--
M13 x 2.0	7	3.19/32"	1.21/32"	4	71411	71412	71413	71414	--
M14 x 0.75	5	3.19/32"	1.21/32"	6	71461	71462	71463	71464	--
M14 x 1.75	6	3.19/32"	1.21/32"	4	71471	71472	71473	71474	--
M15 x 0.75	5	3.13/16"	1.13/16"	6	71521	71522	71523	71524	--
M15 x 1.0	5	3.13/16"	1.13/16"	6	71531	71532	71533	71534	--
M15 x 1.25	5	3.13/16"	1.13/16"	4	71541	71542	71543	71544	--
M15 x 1.5	6	3.13/16"	1.13/16"	4	71551	71552	71553	71554	--
M15 x 1.75	6	3.13/16"	1.13/16"	4	71561	71562	71563	71564	--
M15 x 2.0	7	3.13/16"	1.13/16"	4	71571	71572	71573	71574	--
M16 x 0.75	5	3.13/16"	1.13/16"	6	71621	71622	71623	71624	--
M16 x 1.25	5	3.13/16"	1.13/16"	4	71631	71632	71633	71634	--
M17 x 0.75	5	4.1/32"	1.13/16"	6	71681	71682	71683	71684	--
M17 x 1.0	5	4.1/32"	1.13/16"	6	71691	71692	71693	71694	--
M17 x 1.25	5	4.1/32"	1.13/16"	4	71701	71702	71703	71704	--
M17 x 1.5	6	4.1/32"	1.13/16"	4	71711	71712	71713	71714	--
M17 x 2.0	7	4.1/32"	1.13/16"	4	71721	71722	71723	71724	--
M18 x 1.25	5	4.1/32"	1.13/16"	4	71771	71772	71773	71774	--
M19 x 1.0	5	4.1/4"	2"	6	71821	71822	71823	71824	--
M19 x 1.5	6	4.1/4"	2"	4	71831	71832	71833	71834	--

Metric Special Taps

Right Hand High Speed Steel

Size	D Limit	Overall Length	Thread Length	# of Flutes	Taper EDP #	Plug EDP #	Bott EDP #.	Set EDP #
M19 x 2.0	7	4.1/4"	2"	4	71851	71852	71853	71854
M19 x 2.5	7	4.1/4"	2"	4	71861	71862	71863	71864
M20 x 0.75	5	4.15/32"	2"	6	71911	71912	71913	71914
M20 x 1.25	5	4.15/32"	2"	4	71921	71922	71923	71924
M20 x 1.75	6	4.15/32"	2"	4	71931	71932	71933	71934
M21 x 1.0	5	4.11/16"	2.7/32"	6	71981	71982	71983	71984
M21 x 1.5	6	4.11/16"	2.7/32"	4	72001	72002	72003	72004
M21 x 1.75	6	4.11/16"	2.7/32"	4	72011	72012	72013	72014
M21 x 2.0	7	4.11/16"	2.7/32"	4	72021	72022	72023	72024
M22 x 1.0	5	4.11/16"	2.7/32"	6	72071	72072	72073	72074
M22 x 1.25	5	4.11/16"	2.7/32"	6	72081	72082	72083	72084
M22 x 1.75	6	4.11/16"	2.7/32"	4	72091	72092	72093	72094
M23 x 1.0	5	4.29/32"	2.7/32"	6	72141	72142	72143	72144
M23 x 1.5	6	4.29/32"	2.7/32"	4	72151	72152	72153	72154
M24 x 1.0	5	4.29/32"	2.7/32"	6	72201	72202	72203	72204
M24 x 2.5	7	4.29/32"	2.7/32"	4	72221	72222	72223	72224
M25 x 1.0	5	5.1/8"	2.1/2"	6	72271	72272	72273	72274
M25 x 2.0	7	5.1/8"	2.1/2"	4	72291	72292	72293	72294
M25 x 2.5	7	5.1/8"	2.1/2"	4	72301	72302	72303	72304
M26 x 1.0	6	5.1/8"	2.1/2"	6	72351	72352	72353	72354
M26 x 1.5	6	5.1/8"	2.1/2"	6	72371	72372	72373	72374
M26 x 2.0	7	5.1/8"	2.1/2"	4	72391	72392	72393	72394
M26 x 3.0	8	5.1/8"	2.1/2"	4	72401	72402	72403	72404
M27 x 1.0	6	4"	1.1/2"	6	72451	72452	72453	72454
M27 x 1.5	6	4"	1.1/2"	6	72461	72462	72463	72464
M28 x 1.0	6	4"	1.1/2"	6	72511	72512	72513	72514
M28 x 1.5	6	4"	1.1/2"	6	72521	72522	72523	72524
M28 x 2.0	7	5.7/16"	2.9/16"	4	72531	72532	72533	72534
M30 x 1.0	6	4"	1.1/2"	6	72581	72582	72583	72584
M30 x 1.5	6	4"	1.1/2"	6	72591	72592	72593	72594
M30 x 3.0	8	5.7/16"	2.9/16"	4	72601	72602	72603	72604
M32 x 1.0	6	4"	1.1/2"	6	72651	72652	72653	72654
M32 x 1.5	6	4"	1.1/2"	6	72661	72662	72663	72664
M32 x 2.0	7	5.3/4"	2.9/16"	4	72671	72672	72673	72674

Metric Special Taps

Right Hand High Speed Steel

Size	D Limit	Overall Length	Thread Length	# of Flutes	Taper EDP #	Plug EDP #	Bott EDP #.	Set EDP #
M33 x 1.0	6	4"	1.1/2"	6	72721	72722	72723	72724
M33 x 1.5	6	4"	1.1/2"	6	72731	72732	72733	72734
M33 x 3.0	8	5.3/4"	2.9/16"	4	72741	72742	72743	72744
M34 x 1.0	6	4"	1.1/2"	6	72791	72792	72793	72794
M34 x 1.5	6	4"	1.1/2"	6	72801	72802	72803	72804
M35 x 1.0	6	4"	1.1/2"	6	72851	72852	72853	72854
M35 x 1.5	6	4"	1.1/2"	6	72861	72862	72863	72864
M35 x 2.0	7	6.1/16"	3"	6	72871	72872	72873	72874
M36 x 1.0	6	4"	1.1/2"	6	72921	72922	72923	72924
M36 x 1.5	6	4"	1.1/2"	6	72931	72932	72933	72934
M36 x 2.0	7	6.1/16"	3"	6	72941	72942	72943	72944
M38 x 1.0	6	4"	1.1/2"	6	72991	72992	72993	72994
M38 x 1.5	6	4"	1.1/2"	6	73001	73002	73003	73004
M39 x 1.5	6			6	73051	73052	73053	73054
M39 x 2.0	7			6	73061	73062	73063	73064
M40 x 1.5	6	5"	2"	6	73111	73112	73113	73114
M40 x 2.0	7	5"	2"	6	73121	73122	73123	73124
M40 x 3.0	8	6.11/16"	3.3/16"	6	73131	73132	73133	73134
M42 x 1.0	6	5"	2"	6	73181	73182	73183	73184
M42 x 1.5	6	5"	2"	6	73191	73192	73193	73194
M42 x 2.0	7	5"	2"	6	73201	73202	73203	73204
M42 x 3.0	8	7"	3.3/16"	6	73211	73212	73213	73214
M42 x 4.5	10	7"	3.3/16"	6	73221	73222	73223	73224
M45 x 1.0	6	5"	2"	6	73271	73272	73273	73274
M45 x 1.5	6	5"	2"	6	73281	73282	73283	73284
M45 x 2.0	7	5"	2"	6	73291	73292	73293	73294
M45 x 3.0	8	7.5/16"	3.9/16"	4	73301	73302	73303	73304
M45 x 4.5	10	7.5/16"	3.9/16"	4	73311	73312	73313	73314
M48 x 1.5	6	5"	2"	6	73361	73362	73363	73364
M48 x 2.0	7	5"	2"	6	73371	73372	73373	73374
M48 x 3.0	8	7.5/16"	3.9/16"	6	73381	73382	73383	73384
M48 x 5.0	10	7.5/16"	3.9/16"	6	73401	73402	73403	73404
M50 x 1.5	6	5"	2"	6	73451	73452	73453	73454
M50 x 2.0	7	5"	2"	6	73461	73462	73463	73464

Metric Special Taps

Right Hand High Speed Steel

Size	D Limit	Overall Length	Thread Length	# of Flutes	Taper EDP #	Plug EDP #	Bott EDP #.	Set EDP #
M52 x 1.5	6	5.1/4"	2"	6	73511	73512	73513	73514
M52 x 2.0	7	5.1/4"	2"	6	73521	73522	73523	73524
M52 x 3.0	8	8"	3.9/16"	6	73531	73532	73533	73534
M52 x 5.0	10	8"	3.9/16"	6	73541	73542	73543	73544
M55 x 2.0	7	5.1/4"	2"	6	73591	73592	73593	73594
M55 x 3.0	8	8.1/4"	3.9/16"	6	73601	73602	73603	73604
M56 x 1.5	6	5.1/4"	2"	6	73651	73652	73653	73654
M56 x 2.0	7	5.1/4"	2"	6	73661	73662	73663	73664
M56 x 3.0	8	8.1/4"	3.9/16"	6	73671	73672	73673	73674
M56 x 4.0	9	8.1/4"	3.9/16"	6	73681	73682	73683	73684
M56 x 5.5	11	8.1/4"	3.9/16"	6	73691	73692	73693	73694
M58 x 1.0	6	5.1/4"	2"	6	73741	73742	73743	73744
M58 x 1.5	6	5.1/4"	2"	6	73751	73752	73753	73754
M60 x 2.0	7	5.1/4"	2"	6	73801	73802	73803	73804
M60 x 4.0	9	8.1/2"	4"	6	73811	73812	73813	73814
M60 x 5.5	11	8.1/2"	4"	6	73821	73822	73823	73824
M64 x 2.0	7	5.1/2"	2"	6	73871	73872	73873	73874
M64 x 3.0	8	8.3/4"	4"	6	73881	73882	73883	73884
M64 x 4.0	9	8.3/4"	4"	6	73891	73892	73893	73894
M64 x 6.0	11	8.3/4"	4"	6	73901	73902	73903	73904
M68 x 4.0	9	9.1/4"	4"	6	73951	73952	73953	73954
M68 x 6.0	11	9.1/4"	4"	6	73961	73962	73963	73964
M72 x 1.5	6	5.1/2"	2"	6	74011	74012	74013	74014
M72 x 6.0	11	9.1/4"	4"	6	74021	74022	74023	74024

PG Steel Conduit Taps – Per DIN 40430

Right Hand High Speed Steel

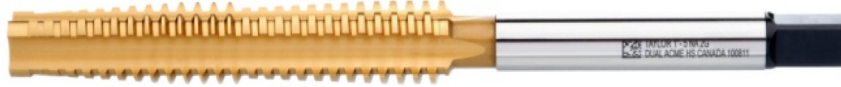
80° Metric Electrical Thread Form Straight Flute Taps



Size	# of Flutes	Diameter in mm	Threads per Inch	Drill Size Inches	Drill Size mm	Taper EDP #	Plug EDP #	Bott. EDP #	Set EDP #
PG7	4	12.5	20	29/64"	11.40	75001	75002	75003	75004
PG9	4	15.2	18	9/16"	14.00	75011	75012	75013	75014
PG11	4	18.6	18	11/16"	17.25	75021	75022	75023	75024
PG13.5	4	20.4	18	49/64"	19.00	75031	75032	75033	75034
PG16	4	22.5	18	27/32"	21.25	75041	75042	75043	75044
PG21	6	28.3	16	1.5/64"	26.75	75051	75052	75053	75054
PG29	6	37	16	1.27/64"	35.50	75061	75062	75063	75064
PG36	6	47	16		45.50	75071	75072	75073	75074
PG42	6	54	16		52.50	75081	75082	75083	75084
PG48	6	59.3	16		57.75	72091	75092	75093	75094

Tandem Acme Taps

Right and Left Hand High Speed Steel



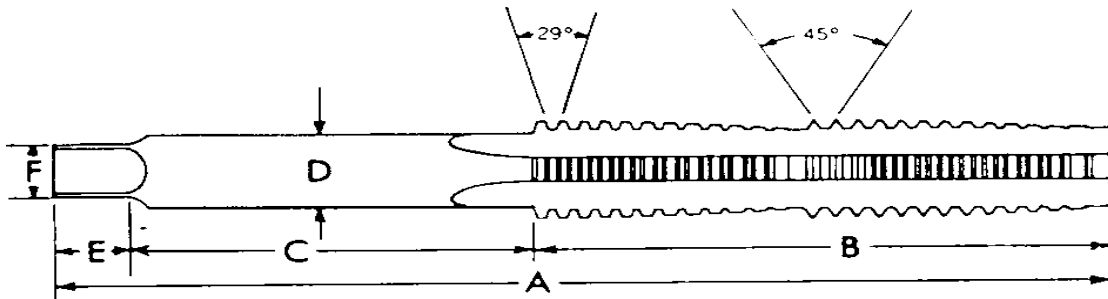
Tandem or Dual Style Acme Taps are designed to produce Acme threads in a single pass without a leadscrew. It is made in 2 sections separated by a neck. The roughing section has a 45° included angle thread permitting easier relief and eliminating a wide, flat Acme crest - giving freer cutting action and greater stock removal. The last few threads of the roughing section are a guide for the finishing section, which corrects the angles and finishes the thread formation to proper size. These taps are designed for through hole applications only, they should never be reversed from the hole.

Size	Overall Length	Thread Length	RH EDP #	LH EDP #
3/8"-12 NA	4.1/16"	2.1/8"	34032	-
1/2"-10 NA	5"	2.9/16"	34062	34063
5/8"-8 NA	6.1/4"	3.3/16"	34092	34093
3/4"-5 NA	7.15/16"	4.5/16"	34112	34113
3/4"-6 NA	7.15/16"	4.5/16"	34122	34123
3/4"-8 NA	7.15/16"	4.5/16"	34132	34133
7/8"-5 NA	8.5/8"	4.3/8"	34162	34163
7/8"-6 NA	8.5/8"	4.3/8"	34172	34173
1"-4 NA	10.1/8"	5.1/4"	34192	34193
1"-5 NA	10.1/8"	5.1/4"	34202	34203
1.1/8"-5 NA	10.3/4"	5.1/4"	34242	34243
1.1/4"-4 NA	11.1/8"	5.1/4"	34252	34253
1.1/4"-5 NA	11.1/8"	5.1/4"	34262	34263
1.3/8"-4 NA	12.1/4"	5.7/8"	34272	34273
1.1/2"-4 NA	12.5/8"	5.7/8"	34282	34283
1.3/4"-4 NA	13.3/8"	5.7/8"	34292	34293
2"-4 NA	14.7/8"	6.1/2"	34302	34303

** Refer to Tables for use of above taps

Tandem Acme Taps

Measurements



Size & T.P.I.	A Overall Length	B Thread Length	C Shank Length	D Shank Diameter	E Length of Square	F Size of Square	Maximum Thickness in Bronze or Steel	Maximum Thickness in Brass or Cast Iron
1/4"-16	3"	1.3/4"	1"	0.185	1/4"	0.138	1/2"	3/4"
5/16"-14	3.13/32"	1.7/8"	1.1/4"	0.220	9/32"	0.165	5/8"	7/8"
3/8"-12	4.1/16"	2.1/8"	1.5/8"	0.255	5/16"	0.191	5/8"	1"
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	0.542	5/8"	0.406	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	0.697	7/8"	0.523	2"	3"
1.1/8"-5	10.3/4"	5.1/4"	4.1/2"	0.800	1	0.600	2.1/4"	3.3/8"
1.1/4"-5	11.1/8"	5.1/4"	4.3/4"	0.896	1.1/8"	0.672	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"
1.3/4"-4	13.3/8"	5.7/8"	6.1/4"	1.430	1.1/4"	1.072	3.1/2"	5"
2"-4	14.7/8"	6.1/2"	7	1.644	1.3/8"	1.233	4"	5.1/2"

Acme Hand Taps

Right and Left Hand High Speed Steel

Acme Hand Taps are recommended for either blind (if sufficient depth is available) or thru holes in brass, cast iron, free machining bronze, zinc and aluminum die-casting, some aluminum alloys and free machining steel where the length of the thread to be tapped does not exceed 1 to 1.1/2 times the diameter and the threads per inch are not coarser than standard 60° N.C. Threads for the diameter. Many sizes are available from stock, manufactured to general purpose 2G specifications and Table 302 Dimensions.

Size	Overall Length	Thread Length	Shank Diameter	Square Size	Square Length	RH EDP #	LH EDP #
1/4"-16 NA	2.1/2"	1"	.255"	.191"	5/16"	34000	-
5/16"-14 NA	2.23/32"	1.1/8"	.318"	.238"	3/8"	34010	-
3/8"-10 NA	2.15/16"	1.1/4"	.381"	.286"	7/16"	34020	-
3/8"-12 NA	2.15/16"	1.1/4"	.381"	.286"	7/16"	34030	-
7/16"-12 NA	3.5/32"	1.7/16"	.323"	.242"	13/32"	34040	-
1/2"-8 NA	3.3/8"	1.21/32"	.367"	.275"	7/16"	34050	-
1/2"-10 NA	3.3/8"	1.21/32"	.367"	.275"	7/16"	34060	34061
5/8"-5 NA	3.13/16"	1.13/16"	.480"	.360"	9/16"	34070	34071
5/8"-8 NA	3.13/16"	1.13/16"	.480"	.360"	9/16"	34090	34091
5/8"-10 NA	3.13/16"	1.13/16"	.480"	.360"	9/16"	34100	34101
3/4"-5 NA	4.1/4"	2"	.590"	.442"	11/16"	34110	34111
3/4"-6 NA	4.1/4"	2"	.590"	.442"	11/16"	34120	34121
3/4"-8 NA	4.1/4"	2"	.590"	.442"	11/16"	34130	34131
3/4"-10 NA	4.1/4"	2"	.590"	.442"	11/16"	34140	34141
3/4"-12 NA	4.1/4"	2"	.590"	.442"	11/16"	34150	-
7/8"-5 NA	4.11/16"	2.7/32"	.697"	.523"	3/4"	34160	34161
7/8"-6 NA	4.11/16"	2.7/32"	.697"	.523"	3/4"	34170	34171
7/8"-8 NA	4.11/16"	2.7/32"	.697"	.523"	3/4"	34180	34181
1"-4 NA	5.1/8"	2.1/2"	.800"	.600"	13/16"	34190	34191
1"-5 NA	5.1/8"	2.1/2"	.800"	.600"	13/16"	34200	34201
1"-6 NA	5.1/8"	2.1/2"	.800"	.600"	13/16"	34210	34211
1"-8 NA	5.1/8"	2.1/2"	.800"	.600"	13/16"	34220	34221
1"-10 NA	5.1/8"	2.1/2"	.800"	.600"	13/16"	34230	-
1.1/8"-5 NA	5.7/16"	2.9/16"	.896"	.672"	7/8"	34240	34241
1.1/4"-4 NA	5.3/4"	2.9/16"	1.021"	.766"	1"	34250	34251
1.1/4"-5 NA	5.3/4"	2.9/16"	1.021"	.766"	1"	34260	34261
1.3/8"-4 NA	6.1/16"	3"	1.108"	.831"	1.1/16"	34270	34271
1.1/2"-4 NA	6.3/8"	3"	1.233"	.925"	1.1/8"	34280	34281

Trapezoidal Hand Taps

Right Hand High Speed Steel

Size	Overall Length	Thread Length	Shank Diameter	Square Size	Square Length	RH EDP #
TR10 x 2.0	3.5/32"	1.7/16"	.323"	.242"	13/32"	34400
TR12 x 3.0	3.3/8"	1.21/32"	.367"	.275"	7/16"	34410
TR14 x 3.0	3.19/32"	1.21/32"	.429"	.322"	1/2"	34420
TR16 x 4.0	3.13/16"	1.13/16"	.480"	.360"	9/16"	34430
TR18 x 4.0	4.1/32"	1.13/16"	.542"	.406"	5/8"	34440
TR20 x 4.0	4.15/32"	2"	.652"	.489"	11/16"	34450
TR22 x 5.0	4.11/16"	2.7/32"	.697"	.523"	3/4"	34460
TR24 x 5.0	4.29/32"	2.7/32"	.760"	.570"	3/4"	34470
TR25 x 5.0	5.1/8"	2.1/2"	.800"	.600"	13/16"	34480

Special Acme Taps

Information Form for Special Orders

Due to the thread form, acme thread engagements are usually longer than standard 60° thread lengths, therefore they require a much longer chamfer length on the tap or sets of taps. The length of the part to be threaded, the diameter, the T.P.I. and material are prime determining factors in arriving at the proper chamfer length and whether it will take one tap or several to do the job. In many cases a single tap, properly designed will suffice.

In an effort to provide the correct tap for your application, please forward the information requested below, or when replacement taps are required, it is necessary to supply the used tap(s) or blueprint to ensure the new tap(s) are manufactured exactly the same.

Size _____

Threads per Inch _____

Right or Left Hand _____

Single or Multiple Lead: _____

Pitch Diameter & Class of Fit (if not to standard 2G) _____

Thread Form:

- ☐ 29° Acme
- ☐ 30° Trapezoidal (Metric)
- ☐ 10° Modified Square
- ☐ Stub Acme
- ☐ Other - Full details of any other modifications must be supplied for thread forms other than the standard thread forms listed above

Material to be threaded: (please indicate the hardness & machinability) _____

Thru or Blind Hole: (if blind indicated clearance beyond thread depth) _____

Depth of hole to be threaded: (indicate any reach prior to tap engagement) _____

Approximate number of parts to be threaded: _____

Are the taps to be used for existing or roughed threads? _____

Will fixture used affect the length of the tap(s)? _____

Other pertinent information which will aid us in determining the type of tap(s) required for your application: _____

+ .005" O/S NC & NF Taps

Right Hand High Speed Steel



Size	GH#	# OF FLUTES	Taper EDP #	Plug EDP #	Bott. EDP #	Set EDP #	Spiral Point # of Flutes	Spiral Point Plug
#4-40 NC	11	--	--	--	--	--	2	35085
#6-32 NC	11	3	35121	35122	35123	35124	2	35125
#6-40 NF	11	3	35131	35132	35133	35134	2	35135
#8-32 NC	11	4	35141	35142	35143	35144	2	35145
#10-24 NC	11	4	35161	35162	35163	35164	2	35155
#10-32 NF	11	4	35171	35172	35173	35174	2	35165
#12-24 NC	11	4	35181	35182	35183	35184	2	35175
1/4"-20 NC	11	4	35201	35202	35203	35204	2	35185
1/4"-28 NF	11	4	35211	35212	35213	35214	2	35205
5/16"-18 NC	11	4	35221	35222	35223	35224	2	35215
5/16"-24 NF	11	4	35231	35232	35233	35234	2	35225
3/8"-16 NC	11	4	35241	35242	35243	35244	2	35235
3/8"-24 NF	11	4	35251	35252	35253	35254	3	35245
7/16"-14 NC	11	4	35261	35262	35263	35264	3	35255
7/16"-20 NF	11	4	35271	35272	35273	35274	3	35265
1/2"-13 NC	11	4	35281	35282	35283	35284	3	35275
1/2"-20 NF	11	4	35291	35292	35293	35294	3	35285
9/16"-12 NC	11	4	35301	35302	35303	35304	3	35295
9/16"-18 NF	11	4	35311	35312	35313	35314	3	35315
5/8"-11 NC	11	4	35321	35322	35323	35324	3	35325
5/8"-18 NF	11	4	35331	35332	35333	35334	3	35335
3/4"-10 NC	11	4	35361	35362	35363	35364	3	35365
3/4"-16 NF	11	4	35371	35372	35373	35374	3	35375
7/8"-9 NC	11	4	35381	35382	35383	35384	--	--
7/8"-14 NF	11	4	35391	35392	35393	35394	--	--
1"-8 NC	11	4	35401	35402	35403	35404	3	35405
1"-12 NF	11	4	35411	35412	35413	35414	--	--
1"-14 NS	11	4	35421	35422	35423	35424	--	--

+ .015" O/S NC Taps

Right Hand High Speed Steel



Size	# OF FLUTES	Taper EDP #	Plug EDP #	Bott. EDP #	Spiral Point # of Flutes	Spiral Point Plug
1/4"-20 NC	37201	37202	37203	37204	--	--
5/16"-18 NC	37221	37222	37223	37224	2	37225
3/8"-16 NC	37241	37242	37243	37244	3	37245
7/16"-14 NC	37261	37262	37263	37264	--	--
1/2"-13 NC	37281	37282	37283	37284	3	37285
5/8"-11 NC	37321	37322	37323	37324	3	37325
3/4"-10 NC	37361	37362	37363	37364	3	37365
7/8"-9 NC	37381	37382	37383	37384	--	--
1"-8 NC	37401	37402	37403	37404	--	--
1.1/8"-7 NC	37431	37432	37433	37434	--	--
1.1/4"-7 NC	37451	37452	37453	37454	--	--

+ .010" O/S NC Taps

Right Hand High Speed Steel

Size	Taper EDP #	Plug EDP #	Bott. EDP #	Set EDP #
1/4"-20 NC	36201	36202	36203	36204
5/16"-18 NC	36221	36222	36223	36224
3/8"-16 NC	36241	36242	36243	36244
1/2"-13 NC	36281	36282	36283	36284
5/8"-11 NC	36321	36322	36323	36324
3/4"-10 NC	36361	36362	36363	36364
7/8"-9 NC	36381	36382	36383	36384
1"-8 NC	36401	36402	36403	36404

+ .020" O/S NC Taps
Right Hand High Speed Steel



Size	Taper EDP #	Plug EDP #	Bott. EDP #	Set EDP #
1/2"-13 NC	38281	38282	38283	38284
5/8"-11 NC	38321	38322	38323	38324
3/4"-10 NC	38361	38362	38363	38364
1"-8 NC	38401	38402	38403	38404

+ 1/32" O/S NC Taps
Right Hand High Speed Steel

Size	Taper EDP #	Plug EDP #	Bott. EDP #	Set EDP #
3/8"-16 NC	39241	39242	39243	39244
1/2"-13 NC	39281	39282	39283	39284
5/8"-11 NC	39321	39322	39323	39324
3/4"-10 NC	39361	39362	39363	39364
7/8"-9 NC	39381	39382	39383	39384
1"-8 NC	39401	39402	39403	39404
1.1/8"-7 NC	39431	39432	39433	39434
1.1/4"-7 NC	39451	39452	39453	39454
1.1/2"-6 NC	39491	39492	39493	39494

**** NF and other sizes, pitches and oversize tolerances available on request**

+ .005" O/S Metric Taps

Right Hand High Speed Steel



Size	D #	# of Flutes	Taper	Plug	Bott.	Set of 3 Taps	Spiral Point # of Flutes	Spiral Point Plug
M3 x 0.5	11	3	56081	56082	56083	56084	2	56085
M4 x 0.7	11	4	56131	56132	56133	56134	2	56135
M5 x 0.8	11	4	56191	56192	56193	56194	2	56195
M6 x 1.0	11	4	56261	56262	56263	56264	2	56265
M7 x 1.0	11	4	56291	56292	56293	56294	2	56295
M8 x 1.0	11	4	56331	56332	56333	56334	2	56335
M8 x 1.25	11	4	56351	56352	56353	56354	2	56355
M10 x 1.0	11	4	56411	56412	56413	56414	3	56415
M10 x 1.25	11	4	56431	56432	56433	56434	3	56435
M10 x 1.5	11	4	56451	56452	56453	56454	3	56455
M12 x 1.25	11	4	56531	56532	56533	56534	3	56535
M12 x 1.5	11	4	56551	56552	56553	56554	3	56555
M12 x 1.75	11	4	56571	56572	56573	56574	3	56575
M14 x 2.0	11	4	56641	56642	56643	56644	3	--
M16 x 1.5	11	4	56671	56672	56673	56674	3	56675
M16 x 2.0	11	4	56691	56692	56693	56694	3	56695
M18 x 2.5	11	4	56751	56751	56753	56754	3	56755
M20 x 2.5	11	4	56811	56812	56813	56814	3	56815
M22 x 2.5	11	4	56861	56862	56863	56864	3	--
M24 x 3.0	11	4	56911	56912	56913	56914	3	--

+ .015" O/S Metric Taps

Right Hand High Speed Steel

Size	# of Flutes	Taper	Plug	Bott.	Set of 3 Taps	Spiral Point # of Flutes	Spiral Point Plug
M12 x 1.75	4	58571	58572	58573	58574	3	58575
M16 x 2.0	4	58691	58692	58693	58694	--	--

Metric Extension Taps

Right Hand High Speed Steel



Size	Overall Length	D#	# Of Flutes	Shank Diameter	Plug EDP #	Bott. EDP #
M4 x 0.7	6"	4	4	.168"	61132	61133
M5 x 0.8	6"	4	4	.194"	61192	61193
M5 x 0.8 *	6"	4	4	.136"	66192	--
M6 x 1.0	6"	5	4	.255"	61262	61263
M6 x 1.0 *	6"	5	4	.185"	66262	66263
M8 x 1.25	6"	5	4	.318"	61352	61353
M8 x 1.25 *	6"	5	4	.180"	66352	66353
M10 x 1.5	6"	6	4	.381"	61452	61453
M10 x 1.5 *	6"	6	4	.323"	66452	66453
M12 x 1.25	6"	5	4	.367"	66532	66533
M12 x 1.75	6"	6	4	.367"	66572	66573
M14 x 2.0	6"	7	4	.429"	66642	66643
M16 x 2.0	6"	7	4	.480"	66692	66693
M18 x 2.5	6"	7	4	.542"	66752	66753
M20 x 2.5	6"	7	4	.652"	66812	66813
M20 x 2.5	8"	7	4	.652"	67812	67813
M24 x 3.0	8"	8	4	.760"	67912	67913

* Reduced Shank

Other sizes and lengths available on request

Metric Spiral Point Extension Taps

Right Hand High Speed Steel



Size	Overall Length	D#	# Of Flutes	Shank Diameter	Standard Shank Plug EDP #	Small Shank Plug EDP #
M4 x 0.7	6"	4	2	.168"	61135	--
				.123"	--	66135
M5 x 0.8	6"	4	2	.194"	61195	--
				.136"	--	66195
M6 x 1.0	6"	5	2	.255"	61265	--
				.185"	--	66265
M8 x 1.25	6"	5	2	.318"	61355	--
				.180"	--	66355
M10 x 1.5	6"	6	3	.381"	61455	--
				.323"	--	66455
M12 x 1.25	6"	5	3	.367"	--	66535
M12 x 1.75	6"	6	3	.367"	--	66575
M16 x 2.0	6"	7	3	.480"	--	66695

Other sizes and lengths available on request

NC & NF Spiral Point Extension Taps

Right Hand High Speed Steel



Size	Overall Length	GH#	# Of Flutes	Shank Diameter	Standard Shank Plug* EDP #	Shank Diameter	Small Shank Plug EDP #
#2-56 NC	4"	2	2	0.141"	20035	--	--
#4-40 NC	4"	2	2	0.141"	20085	0.080"	25085
#6-32 NC	4"	3	2	0.141"	20125	--	--
	6"	3	2	0.141"	21125	--	--
#8-32 NC	4"	3	2	0.168"	20145	--	--
	6"	3	2	0.168"	21145	--	--
#10-24 NC	4"	3	2	0.194"	20165	0.136"	25165
	6"	3	2	0.194"	21165	0.136"	26165
#10-32 NF	4"	3	2	0.194"	20175	0.136"	25175
	6"	3	2	0.194"	21175	0.136"	26175
1/4"-20 NC	4"	3	2	0.255"	20205	0.185"	25205
	6"	3	2	0.255"	21205	0.185"	26205
1/4"-28 NF	4"	3	2	0.255"	20215	0.185"	25215
	6"	3	2	0.255"	21215	0.185"	26215
5/16"-18 NC	4"	3	2	0.318"	20225	0.240"	25225
	6"	3	2	0.318"	21225	0.240"	26225
5/16"-24 NF	4"	3	2	0.318"	20235	0.240"	25235
	6"	3	2	0.318"	21235	0.240"	26235
3/8"-16 NC	4"	3	3	0.381"	20245	0.275"	25245
	6"	3	3	0.381"	21245	0.275"	26245
3/8"-24 NF	4"	3	3	0.381"	20255	0.275"	25255
	6"	3	3	0.381"	21255	0.275"	26255
7/16"-14 NC	6"	3	3	--	--	0.323"	26265
7/16"-20 NF	6"	3	3	--	--	0.323"	26275
1/2"-13 NC	6"	3	3	--	--	0.367"	26285
1/2"-20 NC	6"	3	3	--	--	0.367"	26295
5/8"-11 NC	6"	3	3	--	--	0.480"	26325

*Also referred to as "Pulley" Taps

NC & NF Spiral Point Extension Taps

Right Hand High Speed Steel

Size	Overall Length	GH#	# Of Flutes	Shank Diameter	Standard Shank Plug* EDP #	Shank Diameter	Small Shank Plug EDP #
5/8"-18 NF	6"	3	3	--	--	0.480"	26335
3/4"-10 NC	6"	3	3	--	--	0.590"	26365
3/4"-16 NF	6"	3	3	--	--	0.590"	26375
1"-8 NC	6"	4	3	--	--	0.800"	26405
	8"	4	3	--	--	0.800"	27405

*Also referred to as "Pulley" Taps

NC & NF Extension Taps

Right Hand High Speed Steel



Size	Overall Length	GH#	# Of Flutes	Shank Diameter	Plug EDP #	Bott. EDP #
#6-32 NC	6"	3	3	0.141"	21122	21123
#8-32 NC	6"	3	4	0.168"	21142	21143
#10-24 NC	6"	3	4	0.194"	21162	21163
#10-32 NF	6"	3	4	0.194"	21172	21173
1/4"-20 NC	6"	3	4	0.255"	21202	21203
	8"	3	4	0.255"	22202	22203
1/4"-28 NF	6"	3	4	0.255"	21212	21213
5/16"-18 NC	6"	3	4	0.318"	21222	21223
	8"	3	4	0.318"	22222	22223
5/16"-24 NF	6"	3	4	0.318"	21232	21233
3/8"-16 NC	6"	3	4	0.381"	21242	21243
	8"	3	4	0.381"	22242	22243
	10"	3	4	0.381"	23242	23243
3/8"-24 NF	6"	3	4	0.381"	21252	21253

Also referred to as "Pulley" Taps

NC & NF Small Shank Extension Taps

Right Hand High Speed Steel



Size	Overall Length	GH#	# Of Flutes	Shank Diameter	Plug EDP #	Bott. EDP #
1/4"-20 NC	6"	3	4	0.185"	26203	26203
5/16"-18 NC	6"	3	4	0.240"	26222	26223
5/16"-24 NF	6"	3	4	0.240"	26232	26233
3/8"-16 NC	6"	3	4	0.275"	26242	26243
3/8"-24 NF	6"	3	4	0.275"	26252	26253
7/16"-14 NC	6"	3	4	0.323"	26262	26263
	8"	3	4	0.323"	27262	27263
7/16"-20 NF	6"	3	4	0.323"	26272	26273
	8"	3	4	0.323"	27272	27273
1/2"-13 NC	6"	3	4	0.367"	26282	26283
	8"	3	4	0.367"	27282	27283
1/2"-20 NC	6"	3	4	0.367"	26292	26293
9/16"-12 NC	6"	3	4	0.429"	26302	26303
9/16"-18 NF	6"	3	4	0.429"	26312	26313
5/8"-11 NC	6"	3	4	0.480"	26322	26323
	8"	3	4	0.480"	27322	27323
5/8"-18 NF	6"	3	4	0.480"	26332	26333
3/4"-10 NC	6"	3	4	0.590"	26362	26363
	8"	3	4	0.590"	27362	27363
	10"	3	4	0.590"	28362	28363
3/4"-16 NF	6"	3	4	0.590"	26372	26373
7/8"-9 NC	8"	4	4	0.697"	27382	27383
1"-8 NC	8"	4	4	0.800"	27402	27403
	10"	4	4	0.800"	28402	28403
1.1/4"-7 NC	10"	4	4	1.021"	28452	28453
	12"	4	4	1.021"	29453	29453
1.1/2"-6 NC	10"	4	4	1.233"	28492	28493
	12"	4	4	1.233"	29492	29493

NC & NF Right Hand Machine Screw Taps

High Speed Ground Thread



Size	GH#	# of Flutes	Taper EDP #	Plug EDP #	Bott. EDP #	Set EDP #	Spiral Point # of Flutes	Spiral Point Plug EDP #
#0-80 NF	1	2	10011	10012	10013	10014	2	10015
	2	2	10021	10022	10023	10024	2	10025
	3	2	10031	10032	10033	10034	2	10035
#1-64 NC	1	2	10111	10112	10113	10114	2	10115
	2	2	10121	10122	10123	10124	2	10125
#1-72 NF	1	2	10211	10212	10213	10214	2	10215
	2	2	10221	10222	10223	10224	2	10225
#2-56 NC	1	2	10311	10312	10313	10314	2	10315
	2	2	10321	10322	10323	10324	2	10325
#2-64 NC	2	2	10421	10422	10423	10424	2	10425
#3-48 NC	2	3	10521	10522	10523	10524	2	10525
#3-56 NF	2	3	10621	10622	10623	10624	2	10625
#4-36 NS	2	3	10721	10722	10723	10724	2	10725
#4-40 NC	1	3	10811	10812	10813	10814	2	10815
	2	3	10821	10822	10823	10824	2	10825
	3	3	10831	10832	10833	10834	2	10835
	4	3	10841	10842	10843	10844	2	10845
	5	3	10851	10852	10853	10854	2	10855
	7		--	--	--	--	2	10875
#4-48 NF	1	3	10911	10912	10913	10914	2	10915
	2	3	10921	10922	10923	10924	2	10925
#5-40 NC	1	3	11011	11012	11013	11014	2	11015
	2	3	11021	11022	11023	11024	2	11025
#5-44 NF	2	3	11121	11122	11123	11124	2	11125

Bold Face Indicates Standard GH Limit

NC & NF Right Hand Machine Screw Taps

High Speed Ground Thread

Size	GH#	# of Flutes	Taper EDP #	Plug EDP #	Bott. EDP #	Set EDP #	Spiral Point # of Flutes	Spiral Point Plug EDP #
#6-32 NC	1	3	11211	11212	11213	11214	2	11215
	2	3	11221	11222	11223	11224	2	11225
	3	3	11231	11232	11233	11234	2	11235
	4	3	11241	11242	11243	11244	2	11245
	5	3	11251	11252	11253	11254	2	11255
	7	3	11271	11272	11273	11274	2	11275
#6-40 NF	1	3	11311	11312	11313	11314	2	11315
	2	3	11321	11322	11323	11324	2	11325
#8-32 NC	1	4	11411	11412	11413	11414	2	11415
	2	4	11421	11422	11423	11424	2	11425
	3	4	11431	11432	11433	11434	2	11435
	4	4	11441	11442	11443	11444	2	11445
	5	4	11451	11452	11453	11454	2	11455
	7	4	11471	11472	11473	11474	2	11475
#8-36 NF	1	4	11511	11512	11513	11514	2	11515
	2	4	11521	11522	11523	11524	2	11525
#10-24 NC	1	4	11611	11612	11613	11614	2	11615
	2	4	11621	11622	11623	11624	2	11625
	3	4	11631	11632	11633	11634	2	11635
	5	4	11651	11652	11653	11654	2	11655
	7	4	11671	11672	11673	11674	2	11675
#10-32 NF	1	4	11711	11712	11713	11714	2	11715
	2	4	11721	11722	11723	11724	2	11725
	3	4	11731	11732	11733	11734	2	11735
	5	4	11751	11752	11753	11754	2	11755
	7	4	11771	11772	11773	11774	2	11775
#12-24 NC	3	4	11831	11832	11833	11774	2	11835
#12-28 NF	3	4	11931	11932	11933	11774	2	11935

Bold Face Indicates Standard GH Limit

NC & NF Right Hand Fractional Taps

High Speed Ground Thread



Size	GH#	# of Flutes	Taper EDP #	Plug EDP #	Bott. EDP #	Set EDP #	Spiral Point # of Flutes	Spiral Point Plug EDP #
1/4"-20 NC	1	4	12011	12012	12013	12014	2	12005
	2	4	12021	12022	12023	12024	2	12015
	3	4	12031	12032	12033	12034	2	12035
	5	4	12051	12052	12053	12054	2	12055
	7	4	12071	12072	12073	12074	2	12075
1/4"-28 NF	1	4	12111	12112	12113	12114	2	12115
	2	4	12121	12122	12123	12124	2	12125
	3	4	12131	12132	12133	12134	2	12135
	4	4	12141	12142	12143	12144	2	12145
	7	4	12171	12172	12173	12174	2	12175
5/16"-18 NC	1	4	12211	12212	12213	12214	2	12215
	2	4	12221	12222	12223	12224	2	12225
	3	4	12231	12232	12233	12234	2	12235
	5	4	12251	12252	12253	12254	2	12255
	7	4	12271	12272	12273	12274	2	12275
5/16"-24 NF	1	4	12311	12312	12313	12314	2	12315
	2	4	12321	12322	12323	12324	2	12325
	3	4	12331	12332	12333	12334	2	12335
	4	4	12341	12342	12343	12344	2	12345
3/8"-16 NC	1	4	12411	12412	12413	12414	3	12415
	2	4	12421	12422	12423	12424	3	12425
	3	4	12431	12432	12433	12434	3	12435
	5	4	12451	12452	12453	12454	3	12455
	7	4	12471	12472	12473	12474	3	12475

Bold Face Indicates Standard GH Limit

NC & NF Right Hand Fractional Taps

High Speed Ground Thread

Size	GH#	# of Flutes	Taper EDP #	Plug EDP #	Bott. EDP #	Set EDP #	Spiral Point # of Flutes	Spiral Point Plug EDP #
3/8"-24 NF	1	4	12511	12512	12513	12514	3	12515
	2	4	12521	12522	12523	12524	3	12525
	3	4	12531	12532	12533	12534	3	12535
	4	4	12541	12542	12543	12544	3	12545
	7	4	12571	12572	12573	12574	3	12575
7/16"-14 NC	1	4	12611	12612	12613	12614	3	12615
	2	4	12621	12622	12623	12624	3	12625
	3	4	12631	12632	12633	12634	3	12635
	5	4	12651	12652	12653	12654	3	12655
7/16"-20 NF	1	4	12711	12712	12713	12714	3	12715
	2	4	12721	12722	12723	12724	3	12725
	3	4	12731	12732	12733	12734	3	12735
	5	4	12751	12752	12753	12754	3	12755
1/2"-13 NC	1	4	12811	12812	12813	12814	3	12815
	2	4	12821	12822	12823	12824	3	12825
	3	4	12831	12832	12833	12834	3	12835
	5	4	12851	12852	12853	12854	3	12855
1/2"-20 NF	1	4	12911	12912	12913	12914	3	12915
	2	4	12921	12922	12923	12924	3	12925
	3	4	12931	12932	12933	12934	3	12935
	5	4	12951	12952	12953	12954	3	12955
	7	4	12971	12972	12973	12974	3	12975
9/16"-12 NC	3	4	13031	13032	13033	13034	3	13035
	5	4	13051	13052	13053	13054	3	13055
9/16"-18 NF	2	4	13121	13122	13123	13124	3	13125
	3	4	13131	13132	13133	13134	3	13135
	5	4	13151	13152	13153	13154	3	13155
5/8"-11 NC	3	4	13231	13232	13233	13234	3	13235
	5	4	13251	13252	13253	13254	3	13255

Bold Face Indicates Standard GH Limit

NC & NF Right Hand Fractional Taps

High Speed Ground Thread

Size	GH#	# of Flutes	Taper EDP #	Plug EDP #	Bott. EDP #	Set EDP #	Spiral Point # of Flutes	Spiral Point Plug EDP #
5/8"-18 NF	3	4	13331	13332	13333	13334	3	13335
	5	4	13351	13352	13353	13354	3	13355
11/16"-11 NS	3	4	13431	13432	13433	13434	3	13435
11/16"-16 NS	3	4	13531	13532	13533	13534	3	13535
3/4"-10 NC	2	4	13621	13622	13623	13624	3	13625
	3	4	13631	13632	13633	13634	3	13635
	5	4	13651	13652	13653	13654	3	13655
3/4"-16 NF	1	4	13711	13712	13713	13714	3	13715
	2	4	13721	13722	13723	13724	3	13725
	3	4	13731	13732	13733	13734	3	13735
	5	4	13751	13752	13753	13754	3	13755
7/8"-9 NC	2	4	13821	13822	13823	13824	3	13825
	4	4	13841	13842	13843	13844	3	13845
	6	4	13861	13862	13863	13864	3	13865
7/8"-14 NF	2	4	13921	13922	13923	13924	3	13925
	4	4	13941	13942	13943	13944	3	13945
	6	4	13961	13962	13963	13964	3	13965
1"-8 NC	4	4	14041	14042	14043	14044	3	14045
	6	4	14061	14062	14063	14064	3	14065
1"-12 NF	4	4	14141	14142	14143	14144	3	14145
1"-14 NS	4	4	14241	14242	14243	14244	3	14245
1.1/8"-7 NC	4	4	14341	14342	14343	14344	3	14345
1.1/8"-12 NF	4	4	14441	14442	14443	14444	3	14445
1.1/4"-7 NC	4	4	14541	14542	14543	14544	3	14545
1.1/4"-12 NF	4	6	14641	14642	14643	14644	3	14645
1.3/8"-6 NC	4	4	14741	14742	14743	14744	--	--
1.3/8"-12 NF	4	6	14841	14842	14843	14844	--	--
1.1/2"-6 NC	4	4	14941	14942	14943	14944	3	14945
1.1/2"-12 NF	4	6	15041	15042	15043	15044	3	15045

Bold Face Indicates Standard GH Limit
Other Pitch Diameters available on request

NC & NF Left Hand Taps

High Speed Ground Thread



Size	GH#	# of Flutes	Taper EDP #	Plug EDP #	Bott. EDP #	Set EDP #	Spiral Point # of Flutes	Spiral Point Plug EDP #
#4-40 NC	2	3	15531	15532	15533	15534	2	15535
#4-48 NF	2	3	15541	15542	15543	15544	--	--
#5-40 NC	2	3	15551	15552	15553	15554	--	--
#5-44 NF	2	3	15561	15562	15563	15564	--	--
#6-32 NC	3	3	15571	15572	15573	15574	2	15575
#6-40 NF	2	3	15581	15582	15583	15584	2	15585
#8-32 NC	3	4	15591	15592	15593	15594	2	15595
#8-36 NF	2	4	15601	15602	15603	15604	2	15605
#10-24 NC	3	4	15611	15612	15613	15614	2	15615
#10-32 NF	3	4	15621	15622	15623	15624	2	15625
#12-24 NC	3	4	15631	15632	15633	15634	2	15635
#12-28 NF	3	4	15641	15642	15643	15644	2	15645
1/4"-20 NC	3	4	15651	15652	15653	15654	2	15655
1/4"-28 NF	3	4	15661	15662	15663	15664	2	15665
5/16"-18 NC	3	4	15671	15672	15673	15674	2	15675
5/16"-24 NF	3	4	15681	15682	15683	15684	2	15685
3/8"-16 NC	3	4	15691	15692	15693	15694	3	15695
3/8"-24 NF	3	4	15701	15702	15703	15704	3	15705
7/16"-14 NC	3	4	15711	15712	15713	15714	3	15715
7/16"-20 NF	3	4	15731	15732	15733	15734	3	15735
1/2"-13 NC	3	4	15741	15742	15743	15744	3	15745
1/2"-20 NF	3	4	15751	15752	15753	15754	3	15755
9/16"-12 NC	3	4	15761	15762	15763	15764	3	15765
9/16"-18 NF	3	4	15771	15772	15773	15774	3	15775

NC & NF Left Hand Taps

High Speed Ground Thread

Size	GH#	# of Flutes	Taper EDP #	Plug EDP #	Bott. EDP #	Set EDP #	Spiral Point # of Flutes	Spiral Point Plug EDP #
5/8"-11 NC	3	4	15781	15782	15783	15784	3	15785
5/8"-18 NF	3	4	15791	15792	15793	15794	3	15795
11/16"-11 NS	3	4	15801	15802	15803	15804	--	--
11/16"-16 NS	3	4	15811	15812	15813	15814	--	--
3/4"-10 NC	3	4	15821	15822	15823	15824	3	15825
3/4"-16 NF	3	4	15831	15832	15833	15834	3	15835
7/8"-9 NC	4	4	15841	15842	15843	15844	--	--
7/8"-14 NF	4	4	15851	15852	15853	15854	--	--
1"-8 NC	4	4	15861	15862	15863	15864	3	15865
1"-12 NF	4	4	15871	15872	15873	15874	--	--
1"-14 NS	4	4	15881	15882	15883	15884	--	--
1.1/8"-7 NC	4	4	15891	15892	15893	15894	--	--
1.1/8"-12 NF	4	4	15901	15902	15903	15904	--	--
1.1/4"-7 NC	4	4	15911	15912	15913	15914	--	--
1.1/4"-12 NF	4	4	15921	15922	15923	15924	--	--
1.3/8"-6 NC	4	4	15931	15932	15933	15934	--	--
1.3/8"-12 NF	4	4	15941	15942	15943	15944	--	--
1.1/2"-6 NC	4	4	15951	15952	15953	15954	--	--
1.1/2"-12 NF	4	4	15961	15962	15963	15964	--	--

Metric Right Hand Straight Flute & Spiral Point Taps

High Speed Steel



Size	D #	Basic Major Dia.	Blank Size	# Flutes	Taper	Plug	Bott.	Set of 3 Taps	Spiral Point # of Flutes	Spiral Point Plug EDP #
M1.6 x 0.35	3	0.0630"	No. 0	2	50001	50002	50003	50004	2	50005
M1.8 x 0.35	3	0.0709"	No. 1	2	50011	50012	50013	50014	2	50015
M2 x 0.4	3	0.0787"	No. 2	3	50021	50022	50023	50024	2	50025
M2.2 x 0.45	3	0.0866"	No. 2	3	50041	50042	50043	50044	2	50045
M2.3 x 0.4	3	0.0906"	No. 3	3	50051	50052	50053	50054	2	50055
M2.5 x 0.45	3	0.0984"	No. 3	3	50061	50062	50063	50064	2	50065
M2.6 x 0.45	3	0.1024"	No. 3	3	50071	50072	50073	50074	2	50075
M3 x 0.5	3	0.1181"	No. 5	3	50081	50082	50083	50084	2	50085
M3 x 0.6	4	0.1181"	No. 5	3	50101	50102	50103	50104	--	--
M3.5 x 0.6	4	0.1378"	No. 6	3	50111	50112	50113	50114	2	50115
M4 x 0.5	3	0.1575"	No. 8	4	50121	50122	50123	50124	--	--
M4 x 0.7	4	0.1575"	No. 8	4	50131	50132	50133	50134	2	50135
M4 x 0.75	4	0.1575"	No. 8	4	50151	50152	50153	50154	--	--
M4.5 x 0.75	4	0.1772"	No. 10	4	50161	50162	50163	50164	2	50165
M5 x 0.5	3	0.1968"	No. 10	4	50171	50172	50173	50174	2	50175
M5 x 0.75	4	0.1968"	No. 10	4	50181	50182	50183	50184	--	--
M5 x 0.8	4	0.1968"	No. 10	4	50191	50192	50193	50194	2	50195
M5 x 0.9	4	0.1968"	No. 10	4	50211	50212	50213	50214	2	50215
M5.5 x 0.9	4	0.2165"	No. 12	4	50221	50222	50223	50224	2	50225
M6 x 0.5	3	0.2362"	1/4"	4	50231	50232	50233	50234	--	--
M6 x 0.75	4	0.2362"	1/4"	4	50241	50242	50243	50244	2	50245
M6 x 1.0	5	0.2362"	1/4"	4	50261	50262	50263	50264	2	50265
M7 x 0.75	5	0.2756"	5/16"	4	50281	50282	50283	50284	2	50285
M7 x 1.0	5	0.2756"	5/16"	4	50291	50292	50293	50294	2	50295
M8 x 0.5	5	0.3150"	5/16"	4	50311	50312	50313	50314	--	--
M8 x 0.75	5	0.3150"	5/16"	4	50321	50322	50323	50324	2	50325
M8 x 1.0	5	0.3150"	5/16"	4	50331	50332	50333	50334	2	50335

Metric Right Hand Straight Flute & Spiral Point Taps

High Speed Steel

Size	D #	Basic Major Dia.	Blank Size	# Flutes	Taper	Plug	Bott.	Set of 3 Taps	Spiral Point # of Flutes	Spiral Point Plug EDP #
M8 x 1.25	5	0.3150"	5/16"	4	50351	50352	50353	50354	2	50355
M9 x 1.0	5	0.3543"	3/8"	4	50371	50372	50373	50374	--	--
M9 x 1.25	5	0.3543"	3/8"	4	50381	50382	50383	50384	3	50385
M10 x 0.75	5	0.3937"	3/8"	4	50401	50402	50403	50404	--	--
M10 x 1.0	5	0.3937"	3/8"	4	50411	50412	50413	50414	3	50415
M10 x 1.25	5	0.3937"	3/8"	4	50431	50432	50433	50434	3	50435
M10 x 1.5	5	0.3937"	3/8"	4	50451	50452	50453	50454	3	50455
M11 x 0.75	5	0.4331"	7/16"	4	50471	50472	50473	50474	--	--
M11 x 1.0	5	0.4331"	7/16"	4	50481	50482	50483	50484	--	--
M11 x 1.5	5	0.4331"	7/16"	4	50491	50492	50493	50494	3	50495
M12 x 1.0	5	0.4724"	1/2"	4	50511	50512	50513	50514	3	50515
M12 x 1.25	5	0.4724"	1/2"	4	50531	50532	50533	50534	3	50535
M12 x 1.5	5	0.4724"	1/2"	4	50551	50552	50553	50554	3	50555
M12 x 1.75	5	0.4724"	1/2"	4	50571	50572	50573	50574	3	50575
M14 x 1.0	5	0.5512"	9/16"	4	50591	50592	50593	50594	3	50595
M14 x 1.25	5	0.5512"	9/16"	4	50601	50602	50603	50604	3	50605
M14 x 1.5	5	0.5512"	9/16"	4	50621	50622	50623	50624	3	50625
M14 x 2.0	5	0.5512"	9/16"	4	50641	50642	50643	50644	3	50645
M16 x 1.0	5	0.6299"	5/8"	6	50661	50662	50663	50664	3	50665
M16 x 1.5	5	0.6299"	5/8"	4	50671	50672	50673	50674	3	50675
M16 x 2.0	5	0.6299"	5/8"	4	50691	50692	50693	50694	3	50695
M18 x 1.0	5	0.7087"	11/16"	6	50711	50712	50713	50714	3	50715
M18 x 1.5	5	0.7087"	11/16"	4	50721	50722	50723	50724	3	50725
M18 x 2.0	5	0.7087"	11/16"	4	50741	50742	50743	50744	--	--
M18 x 2.5	5	0.7087"	11/16"	4	50751	50752	50753	50754	3	50755
M20 x 1.0	5	0.7874"	13/16"	6	50771	50772	50773	50774	--	--
M20 x 1.5	5	0.7874"	13/16"	4	50781	50782	50783	50784	3	50785
M20 x 2.0	5	0.7874"	13/16"	4	50801	50802	50803	50804	--	--
M20 x 2.5	5	0.7874"	13/16"	4	50811	50812	50813	50814	3	50815
M22 x 1.5	5	0.8661"	7/8"	4	50831	50832	50833	50834	3	50835
M22 x 2.0	5	0.8661"	7/8"	4	50851	50852	50853	50854	--	--

Metric Right Hand Straight Flute & Spiral Point Taps

High Speed Steel

Size	D #	Basic Major Dia.	Blank Size	# Flutes	Taper	Plug	Bott.	Set of 3 Taps	Spiral Point # of Flutes	Spiral Point Plug EDP #
M22 x 2.5	5	0.8661"	7/8"	4	50861	50862	50863	50864	3	50865
M24 x 1.5	5	0.9449"	15/16"	6	50881	50882	50883	50884	3	50885
M24 x 2.0	5	0.9449"	15/16"	4	50891	50892	50893	50894	3	50895
M24 x 3.0	5	0.9449"	15/16"	4	50911	50912	50913	50914	3	50915
M25 x 1.5	5	0.9843"	1"	6	50921	50922	50923	50924	--	--
M27 x 2.0	5	1.0630"	1.1/16"	4	50931	50932	50933	50934	--	--
M27 x 3.0	5	1.0630"	1.1/16"	4	50941	50942	50943	50944	--	--
M30 x 2.0	5	1.1811"	1.3/16"	4	50951	50952	50953	50954	--	--
M30 x 3.5	5	1.1811"	1.3/16"	4	50961	50962	50963	50964	3	50965
M33 x 2.0	5	1.2992"	1.5/16"	6	50971	50972	50973	50974	--	--
M33 x 3.5	5	1.2992"	1.5/16"	4	50981	50982	50983	50984	--	--
M36 x 3.0	5	1.4173"	1.7/16"	4	50991	50992	50993	50994	--	--
M36 x 4.0	5	1.4173"	1.7/16"	4	51001	51002	51003	51004	3	51005
M39 x 3.0	5	1.5354"	1.1/2"	4	51011	51012	51013	51014	--	--
M39 x 4.0	5	1.5354"	1.1/2"	4	51021	51022	51023	51024	--	--

Metric Left Hand Straight Flute & Spiral Point Taps

High Speed Steel

Size	D #	Basic Major Dia.	Blank Size	# Flutes	Taper	Plug	Bott.	Set of 3 Taps	Spiral Point # of Flutes	Spiral Point Plug
M3 x 0.5	3	0.1181"	No. 5	3	54081	54082	54083	54084	--	--
M3.5 x 0.6	4	0.1378"	No. 6	3	54111	54112	54113	54114	--	--
M4 x 0.7	4	0.1575"	No. 8	4	54131	54132	54133	54134	2	54135
M4.5 x 0.75	4	0.1772"	No. 10	4	54161	54162	54163	54164	--	--
M5 x 0.5	3	0.1968"	No. 10	4	54171	54172	54173	54174	--	--
M5 x 0.8	4	0.1968"	No. 10	4	54191	54192	54193	54194	2	54195
M6 x 0.75	4	0.2362"	1/4"	4	54241	54242	54243	54244	--	--
M6 x 1.0	5	0.2362"	1/4"	4	54261	54262	54263	54264	2	54265
M7 x 1.0	5	0.2756"	5/16"	4	54291	54292	54293	54294	--	--
M8 x 1.0	5	0.3150"	5/16"	4	54331	54332	54333	54334	--	--
M8 x 1.25	5	0.3150"	5/16"	4	54351	54352	54353	54354	2	54355
M9 x 1.25	5	0.3543"	3/8"	4	54381	54382	54383	54384	--	--
M10 x 1.0	5	0.3937"	3/8"	4	54411	54412	54413	54414	--	--
M10 x 1.25	5	0.3937"	3/8"	4	54431	54432	54433	54434	--	--
M10 x 1.5	6	0.3937"	3/8"	4	54451	54452	54453	54454	3	54455
M11 x 1.5	6	0.4331"	7/16"	4	54491	54492	54493	54494	--	--
M12 x 1.0	5	0.4724"	1/2"	4	54511	54512	54513	54514	--	--
M12 x 1.25	5	0.4724"	1/2"	4	54531	54532	54533	54534	--	--
M12 x 1.5	6	0.4724"	1/2"	4	54551	54552	54553	54554	--	--
M12 x 1.75	6	0.4724"	1/2"	4	54571	54572	54573	54574	3	54575
M14 x 1.25	5	0.5512"	9/16"	4	54601	54602	54603	54604	--	--
M14 x 1.5	6	0.5512"	9/16"	4	54621	54622	54623	54624	--	--
M14 x 2.0	7	0.5512"	9/16"	4	54641	54642	54643	54644	--	--
M16 x 1.5	6	0.6299"	5/8"	4	54671	54672	54673	54674	--	--
M16 x 2.0	7	0.6299"	5/8"	4	54691	54692	54693	54694	--	--
M18 x 1.5	6	0.7087"	11/16"	4	54721	54722	54723	54724	--	--
M18 x 2.5	7	0.7087"	11/16"	4	54751	54752	54753	54754	--	--
M20 x 1.5	6	0.7874"	13/16"	4	54781	54782	54783	54784	--	--
M20 x 2.5	7	0.7874"	13/16"	4	54811	54812	54813	54814	--	--
M22 x 1.5	6	0.8661"	7/8"	4	54831	54832	54833	54834	--	--

Metric Left Hand Straight Flute & Spiral Point Taps

High Speed Steel

Size	D #	Basic Major Dia.	Blank Size	# Flutes	Taper	Plug	Bott.	Set of 3 Taps	Spiral Point # of Flutes	Spiral Point Plug
M22 x 2.5	7	0.8661"	7/8"	4	54861	54862	54863	54864	--	--
M24 x 1.5	6	0.9449"	15/16"	6	54881	54882	54883	54884	--	--
M24 x 2.0	7	0.9449"	15/16"	4	54891	54892	54893	54894	--	--
M24 x 3.0	8	0.9449"	15/16"	4	54911	54912	54913	54914	--	--
M25 x 1.5	6	0.9843"	1"	6	54921	54922	54923	54924	--	--
M27 x 3.0	8	1.0630"	1.1/16"	4	54941	54942	54943	54944	--	--
M30 x 3.5	9	1.1811"	1.3/16"	4	54961	54962	54963	54964	--	--

Other sizes, pitches and spiral point available

52° HY Spiral Flute Taps

Right Hand High Speed Steel



52° Spiral Flute taps have right hand helical flutes that provides greater lifting action for removal of long chips from deeper blind holes, and are also used to span interruptions such as keyways, slots or gaps in the surface to be threaded. Hy Spiral flute taps are used for tapping of ductile materials such as aluminum, brass, copper, die cast materials, magnesium and some soft steels.

Size	GH#	# OF FLUTES	Plug EDP #	Bott. EDP #
#3-48 NC	2	2	10528	10529
#3-56 NF	2	2	10628	10629
#4-40 NC	2	2	10828	10829
#4-48 NF	2	2	10928	10929
#5-40 NC	2	2	11028	11029
#5-44 NF	2	2	11128	11129
#6-32 NC	3	2	11238	11239
#6-40 NF	2	2	11328	11329
#8-32 NC	3	3	11438	11439
#8-36 NF	2	3	11528	11529
#10-24 NC	3	3	11638	11639
#10-32 NF	3	3	11738	11739
#12-24 NC	3	3	11838	11839
#12-28 NF	3	3	16192	16193
1/4"-20 NC	3	3	12038	12039
1/4"-28 NF	3	3	12138	12139
5/16"-18 NC	3	3	12238	12239
5/16"-24 NF	3	3	12338	12339
3/8"-16 NC	3	3	12438	12439
3/8"-24 NF	3	3	12538	12539
7/16"-14 NC	3	3	12638	12639
7/16"-20 NF	3	3	12738	12739
1/2"-13 NC	3	3	12838	12839
1/2"-20 NF	3	3	12938	12939
9/16"-12 NC	3	4	13038	13039
9/16"-18 NF	3	4	13538	13539
5/8"-11 NC	3	4	13238	13239

Size	GH#	# OF FLUTES	Plug EDP #	Bott. EDP #
5/8"-18 NF	3	4	13338	13339
3/4"-10 NC	3	4	13638	13639
3/4"-16 NF	3	4	13738	13739
7/8"-9 NC	4	4	13848	13849
7/8"-14 NF	4	4	13948	13949
1"-8 NC	4	4	14048	14049
1"-12 NF	4	4	14148	14149
1"-14 NS	4	4	14248	14249
M3 x 0.5	3	2	50086	50087
M3.5 x 0.5	4	2	50116	50117
M4 x 0.7	4	2	50136	50137
M4.5 x 0.75	4	2	50166	50167
M5 x 0.8	4	2	50196	50197
M6 x 1.0	5	3	50266	50267
M7 x 1.0	5	3	50296	50297
M8 x 1.0	5	3	50336	50337
M8 x 1.25	5	3	50356	50357
M10 x 1.25	5	3	50436	50437
M10 x 1.5	6	3	50456	50457
M12 x 1.25	5	4	50536	50537
M12 x 1.75	6	4	50576	50577
M14 x 2.0	7	4	50646	50647
M16 x 2.0	7	4	50696	50697
M18 x 2.5	7	4	50756	50757
M20 x 2.5	7	4	50816	50817
M22 x 2.5	7	4	50866	50867
M24 x 3.0	8	4	50916	50917

Left Hand and other sizes available on request

30° Slow Spiral Flute Taps

Right Hand High Speed Steel



30° Spiral Flute taps have right hand helical flutes that provide for easy removal of chips from blind holes and are also used to span interruptions such as keyways, slots or gaps in the surface to be threaded. These taps are used for threading ductile materials.

Size	GH#	# OF FLUTES	Plug EDP #	Bott. EDP #
#3-48 NC	2	2	--	--
#3-56 NF	2	2	--	--
#4-40 NC	2	2	10826	10827
#4-48 NF	2	2	10926	10927
#5-40 NC	2	2	11026	11027
#5-44 NF	2	2	11126	11127
#6-32 NC	3	2	11236	11237
#6-40 NF	2	2	11326	11327
#8-32 NC	3	2	11436	11437
#8-36 NF	2	2	11526	11527
#10-24 NC	3	2	11636	11637
#10-32 NF	3	2	11736	11737
#12-24 NC	3	2	--	--
#12-28 NF	3	2	--	--
1/4"-20 NC	3	3	12036	12037
1/4"-28 NF	3	3	12136	12137
5/16"-18 NC	3	3	12236	12237
5/16"-24 NF	3	3	12336	12337
3/8"-16 NC	3	3	12436	12437
3/8"-24 NF	3	3	12536	12537
7/16"-14 NC	3	3	12636	12637
7/16"-20 NF	3	3	12736	12737
1/2"-13 NC	3	4	12836	12837
1/2"-20 NF	3	4	12936	12937
9/16"-12 NC	3	4	13036	13037
9/16"-18 NF	3	4	13536	13537
5/8"-11 NC	3	4	13236	13237

Size	GH#	# OF FLUTES	Plug EDP #	Bott. EDP #
5/8"-18 NF	3	4	13336	13337
3/4"-10 NC	3	4	13636	13637
3/4"-16 NF	3	4	13736	13737
7/8"-9 NC	4	4	13846	13847
7/8"-14 NF	4	4	13946	13947
1"-8 NC	4	4	14046	14047
1"-12 NF	4	4	14146	14147
1"-14 NS	4	4	14246	14247
M3 x 0.5	3	2	50088	50089
M3.5 x 0.5	4	2	50118	50119
M4 x 0.7	4	3	50138	50139
M4.5 x 0.75	4	3	50168	50169
M5 x 0.8	4	3	50198	50199
M6 x 1.0	5	3	50268	50269
M7 x 1.0	5	3	50298	50299
M8 x 1.0	5	3	50338	50339
M8 x 1.25	5	3	50358	50359
M10 x 1.25	5	3	50438	50439
M10 x 1.5	6	3	50458	50459
M12 x 1.25	5	3	50538	50539
M12 x 1.75	6	3	50578	50579
M14 x 2.0	7	4	50648	50649
M16 x 2.0	7	4	50698	50699
M18 x 2.5	7	4	50758	50759
M20 x 2.5	7	4	50818	50819
M22 x 2.5	7	4	50868	50869
M24 x 3.0	8	4	50918	50919

Left Hand and other sizes available on request

NC & NF Roll Form Taps

Right Hand High Speed Steel



Designed for Materials such as Aluminum, Brass, Copper, Lead, Magnesium, Zinc, 302 & 303 Stainless and any Soft or Ductile Material, NC & NF roll form taps eliminate chip problems and are perfect for blind hole applications. These taps are manufactured to Table 302 Dimensions.

Size	GH#	Plug EDP #	Bott. EDP #
#0-80 NF	3	16002	16003
#1-64 NC	4	16012	16013
#1-72 NF	4	16022	16023
#2-56 NC	4	16032	16033
#2-64 NF	4	16042	16043
#3-48 NC	4	16052	16053
#3-56 NF	4	16062	16063
#4-40 NC	4	16082	16083
#4-48 NF	4	16092	16093
#5-40 NC	4	16102	16103
#5-44 NF	4	16112	16113
#6-32 NC	5	16122	16123
#6-40 NF	5	16132	16133
#8-32 NC	5	16142	16143
#8-36 NF	5	16152	16153
#10-24 NC	5	16162	16163
#10-32 NF	5	16172	16173
#12-28 NF	5	16192	16193

Size	GH#	Plug EDP #	Bott. EDP #
#12-24 NC	5	16182	16183
1/4"-20 NC	6	16202	16203
1/4"-28 NF	5	16212	16213
5/16"-18 NC	8	16222	16223
5/16"-24 NF	7	16232	16233
3/8"-16 NC	8	16242	16243
3/8"-24 NF	7	16252	16253
7/16"-14 NC	9	16262	16263
7/16"-20 NF	6	16272	16273
1/2"-13 NC	10	16282	16283
1/2"-20 NF	8	16292	16293
9/16"-12 NC	10	16302	16303
9/16"-18 NF	8	16312	16313
5/8"-11 NC	11	16322	16323
5/8"-18 NF	9	16332	16333
3/4"-10 NC	12	16362	16363
3/4"-16 NF	10	16372	16373

Note: Roll Form Taps are also available in Special Diameters, Left Hand and Larger Sizes

Metric Roll Form Taps

Right Hand High Speed Steel



Designed for Materials such as Aluminum, Brass, Copper, Lead, Magnesium, Zinc, 302 & 303 Stainless and any Soft or Ductile Material, NC & NF roll form taps eliminate chip problems and are perfect for blind hole applications. These taps are manufactured to Table 302 Dimensions.

Size	Basic Major Dia.	D #	Plug EDP #	Bott. EDP #
M1.6 x 0.35	0.0630"	5	52002	52003
M2 x 0.4	0.0787"	5	52022	52023
M2.2 x 0.45	0.0866"	6	52042	52043
M2.5 x 0.45	0.0984"	6	52062	52063
M3 x 0.5	0.1181"	6	52082	52083
M3.5 x 0.6	0.1378"	7	52112	52113
M4 x 0.7	0.1575"	7	52132	52133
M4.5 x 0.75	0.1772"	7	52162	52163
M5 x 0.8	0.1968"	8	52192	52193
M6 x 1.0	0.2362"	9	52262	52263
M7 x 1.0	0.2756"	9	52292	52293
M8 x 1.0	0.3150"	9	52332	52333
M8 x 1.25	0.3150"	10	52352	52353
M10 x 1.25	0.3937"	10	52432	52433
M10 x 1.5	0.3937"	11	52452	52453
M12 x 1.25	0.4724"	11	52532	52533
M12 x 1.5	0.4724"	12	52572	52573
M14 x 1.5	0.5512"	12	52622	52623
M14 x 2.0	0.5512"	14	52642	52643
M16 x 2.0	0.6299"	14	52692	52693
M18 x 1.5	0.7087"	12	52722	52723

Note: Roll Form Taps are also available in Special Diameters, Left Hand and Larger Sizes

NC & NF S.T.I. Taps

Right Hand High Speed Steel



Screw Thread Insert Taps are for machine or hand tapping holes which will accept "Helicoil" or screw thread inserts of the same nominal size and pitch.

Size	GH#	# Of Flutes	Blank Size	Plug EDP #	Bott. EDP #	Spiral Point # of Flutes	Spiral Point Plug
#2-56 NC	2	3	#4	16532	16533	2	16535
#4-40 NC	2	3	#5	16582	16583	2	16585
#6-32 NC	2	4	#10	16622	16623	2	16625
#8-32 NC	2	4	#12	16642	16643	2	16645
#10-24 NC	2	4	1/4"	16662	16663	2	16665
#10-32 NF	2	4	1/4"	16672	16673	2	16675
1/4"-20 NC	3	4	5/16"	16702	16703	2	16705
1/4"-28 NF	2	4	5/16"	16712	16713	2	16715
5/16"-18 NC	3	4	3/8"	16722	16723	3	16725
5/16"-24 NF	2	4	3/8"	16732	16733	3	16735
3/8"-16 NC	3	4	1/2"	16742	16743	3	16745
3/8"-24 NF	3	4	1/2"	16752	16753	3	16755
7/16"-14 NC	3	4	9/16"	16762	16763	3	16765
7/16"-20 NF	3	4	1/2"	16772	16773	3	16775
1/2"-13 NC	3	4	5/8"	16782	16783	3	16785
1/2"-20 NF	3	4	9/16"	16792	16793	3	16795
5/8"-11 NC	3	4	3/4"	16822	16823	--	--
5/8"-18 NF	3	4	3/4"	16832	16833	--	--
3/4"-10 NC	3	4	7/8"	16862	16863	--	--
3/4"-16 NF	3	4	7/8"	16872	16873	--	--

Other tap styles, sizes and pitches available on request

Metric S.T.I. Taps

Right Hand High Speed Steel



Screw Thread Insert Taps are for machine or hand tapping holes which will accept "Helicoil" or screw thread inserts of the same nominal size and pitch.

Size	D#	# Of Flutes	Blank Size	Plug EDP #	Bott. EDP #	Spiral Point # of Flutes	Spiral Point Plug
M3 x 0.5	1	4	#8	53082	53083	2	53085
M3.5 x 0.5	1	4	#10	53112	53113	2	53115
M4 x 0.7	1	4	#10	53132	53133	2	53135
M5 x 0.8	1	4	1/4"	53192	53193	2	53195
M6 x 1.0	2	4	5/16"	53262	53263	2	53265
M8 x 1.25	2	4	3/8"	53352	53353	3	53355
M10 x 1.5	3	4	1/2"	53452	53453	3	53455
M12 x 1.25	3	4	9/16"	53532	53533	3	53535
M12 x 1.5	3	4	9/16"	53552	53553	3	53555
M12 x 1.75	3	4	9/16"	53572	53573	3	53575

Other tap styles, sizes and pitches available on request

NPT TAPER PIPE TAPS

Right & Left Hand High Speed Steel
Regular Cut - Standard Length



Size	Threads per Inch	# Flutes	Overall Length	Thread Length	Tap Drill Size†	NPT Right Hand EDP #	NPTF Right Hand EDP #	NPT Left Hand EDP #
1/16"	27	4	2.1/8"	11/16"	D	40000	40001	40015
1/8" *	27	4	2.1/8"	3/4"	R	40030	40044	--
1/8"	27	4	2.1/8"	3/4"	R	40020	40021	40043
1/4"	18	4	2.7/16"	1.1/16"	7/16"	40050	40051	40072
3/8"	18	4	2.9/16"	1.1/16"	37/64"	40080	40081	40100
1/2"	14	4	3.1/8"	1.3/8"	45/64"	40110	40111	40130
3/4"	14	5	3.1/4"	1.3/8"	59/64"	40140	40141	40160
1"	11½	5	3.3/4"	1.3/4"	1.5/32"	40180	40181	40198
1.1/4"	11½	5	4"	1.3/4"	1.1/2"	40210	40211	40220
1.1/2"	11½	7	4.1/4"	1.3/4"	1.47/64"	40230	40231	40240
2"	11½	7	4.1/2"	1.3/4"	2.7/32"	40250	40251	40260
2.1/2"	8	7	5.1/2"	2.9/16"	2.5/8"	40270	--	--
3"	8	7	6"	2.5/8"	3.1/4"	40280	--	--
3.1/2"	8	9	6.1/2"	2.11/16"	3.3/4"	40290	--	--
4"	8	9	6.3/4"	2.3/4"	4.1/4"	40300	--	--

* Small Shank

† Sizes given permit direct tapping without reaming the hole, but only give a full thread for the first two or three threads

NPT INTERRUPTED THREAD TAPER PIPE TAPS

Right Hand High Speed Steel



Interrupted Thread NPT Taper Pipe Taps have an odd number of lands, with every other tooth along the thread helix removed. The chamfer section is left with full threads to facilitate starting the tap.

Interrupted Pipe taps allow better lubrication, free clearance of chips and requires less torque to drive. These taps are useful when used in tough metals or materials which load the cutting threads of the tap.

Standard chamfer length is 2 - 3.1/2 threads.

Size	Threads per Inch	# Flutes	Overall Length	Thread Length	NPT Interrupted Cut EDP #	6" O/L NPT Interrupted EDP #
1/16"	27	5	2.1/8"	11/16"	40003	--
1/16"	27	5	6"	11/16"	--	40014
1/8" *	27	5	2.1/8"	3/4"	40046	--
1/8"	27	5	2.1/8"	3/4"	40023	--
1/8"	27	5	6"	3/4"	--	40036
1/4"	18	5	2.7/16"	1.1/16"	40053	--
1/4"	18	5	6"	1.1/16"	--	40065
3/8"	18	5	2.9/16"	1.1/16"	40083	--
3/8"	18	5	6"	1.1/16"	--	40093
1/2"	14	5	3.1/8"	1.3/8"	40113	--
1/2"	14	5	6"	1.3/8"	--	40123
3/4"	14	5	3.1/4"	1.3/8"	40143	--
3/4"	14	5	6"	1.3/8"	--	40153
1"	11½	5	3.3/4"	1.3/4"	40183	--
1.1/4"	11½	5	4"	1.3/4"	40213	--
1.1/2"	11½	7	4.1/4"	1.3/4"	40233	--
2"	11½	7	4.1/2"	1.3/4"	40253	--
2.1/2"	8	7	5.1/2"	2.9/16"	40273	--
3"	8	7	6"	2.5/8"	40283	--

* Small Shank

NPT Extension Taper Pipe Taps

Right Hand High Speed Steel

Size	Threads per Inch	# Flutes	Thread Length	NPT Regular				
				4" O/L	6" O/L	8" O/L	10" O/L	12" O/L
1/16"	27	4	11/16"	40011	40013	--	--	--
1/8"	27	4	3/4"	40033	40035	40037	40039	40041
1/4"	18	4	1.1/16"	40062	40064	40066	40068	40070
3/8"	18	4	1.1/16"	--	40092	40094	40096	--
1/2"	14	4	1.3/8"	--	40122	40124	40126	--
3/4"	14	5	1.3/8"	--	40152	40154	40156	--
1"	11½	5	1.3/4"	--	40191	40193	40195	--

Other Lengths available on request

ROLL FORM NPT TAPER PIPE TAPS

Right Hand High Speed Steel

Roll Form Pipe taps offer many advantages compared to cutting taps when correctly applied. Benefits include smooth, burnished threads with no burrs or stop marks, absences of chips during tapping and better tap life.

Size	Threads per Inch	Overall Length	Thread Length	NPT EDP #
1/8"	27	2.1/8"	3/4"	40032
1/4"	18	2.7/16"	1.1/16"	40061

Other sizes available on request.

SPIRAL FLUTE NPT TAPER PIPE TAPS

Right Hand High Speed Steel

Size	Threads per Inch	# Flutes	Overall Length	Thread Length	NPT EDP #
1/8"	27	4	2.1/8"	3/4"	40032
1/4"	18	4	2.7/16"	1.1/16"	40060
3/8"	18	4	2.9/16"	1.1/16"	40090
1/2"	14	4	3.1/8"	1.3/8"	40120
3/4"	14	5	3.1/4"	1.3/8"	40150

PTF SAE Short Projection Pipe Taps

Right Hand High Speed Steel

Where space restrictions or other factors make it necessary to use a shorter thread engagement than provided by the Standard Dryseal Thread, the PTF-SAE Short thread is used. The form, taper and general specifications are the same as NPTF except that one thread has been eliminated from the small end of the external thread while the internal thread is shortened by one thread at the large end.

Size	Projection		EDP #	Overall Length	Thread Length	Length of Square	Shank Diameter	Size of Square
	Min	Max						
1/16"	.222"	.253"	40002	2.1/8"	11/16"	3/8"	0.3125	0.234
1/8"	.222"	.253"	40022	2.1/8"	3/4"	3/8"	0.4375	0.328
1/4"	.333"	.364"	40052	2.7/16"	1.1/16"	7/16"	0.5625	0.421
3/8"	.333"	.364"	40082	2.9/16"	1.1/16"	1/2"	0.7000	0.531
1/2"	.425"	.456"	40112	3.1/8"	1.3/8"	5/8"	0.6875	0.515
3/4"	.425"	.456"	40142	3.1/4"	1.3/8"	11/16"	0.9093	0.679

NPS STRAIGHT PIPE TAPS

Right Hand High Speed Steel



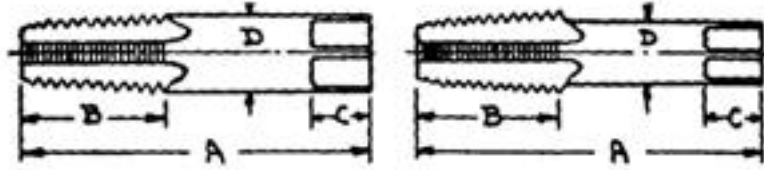
Size	Threads per Inch	# Flutes	Overall Length	Thread Length	NPS EDP #	NPSF EDP #	NPSM EDP #	NPSI * EDP #	NH Garden Hose Pipe
1/16"	27	4	2.1/8"	11/16"	40004	40005	40007	--	
1/8" **	27	4	2.1/8"	3/4"	40047			--	
1/8"	27	4	2.1/8"	3/4"	40024	40025	40027	40026	
1/4"	18	4	2.7/16"	1.1/16"	40054	40055	40057	40056	
3/8"	18	4	2.9/16"	1.1/16"	40084	40085	40087	--	
1/2"	14	4	3.1/8"	1.3/8"	40114	40115	40117	--	
3/4"	14	5	3.1/4"	1.3/8"	40144	40145	40147	--	
3/4"	11½	4	3.1/4"	1.3/8"	--	--	--	--	40674
1"	11½	5	3.3/4"	1.3/4"	40184	--	--	--	
1.1/4"	11½	5	4"	1.3/4"	40214	--	--	--	
1.1/2"	11½	7	4.1/4"	1.3/4"	40234	--	--	--	
2"	11½	7	4.1/2"	1.3/4"	40254	--	--	--	

** Small Shank

* NPSI: American Standard Dryseal Intermediate Straight pipe threads are identical to NPSF threads except that the major and pitch diameters are larger by the amount of taper in one thread for the external part. They are intended primarily for assembly with PTF (SAE short) external threads. NPTF fittings are sometimes used in NPSI threads when the holes are in hard or brittle materials of heavy sections so that there is little give for wrench make-up. In such cases the larger NPSI internal thread provides a more satisfactory length of engagement for a wrench tight position.

Pipe Tap Dimensions (Straight and Taper)

Table 311



Nominal	Standard Projection*	Standard Overall Length A	Extension Overall Length †	Length of Thread B	Length of Square C	Shank Diameter D	Size of Square E
1/16"	0.312	2.1/8"	4" & 6"	11/16"	3/8"	0.3125	0.234
1/8" **	0.312	2.1/8"	--	3/4"	3/8"	0.3125	0.234
1/8"	0.312	2.1/8"	4", 6", 8", 10", 12"	3/4"	3/8"	0.4375	0.328
1/4"	0.459	2.7/16"	4", 6", 8", 10", 12"	1.1/16"	7/16"	0.5625	0.421
3/8"	0.454	2.9/16"	6", 8", 12"	1.1/16"	1/2"	0.7000	0.531
1/2"	0.579	3.1/8"	6", 8", 12"	1.3/8"	5/8"	0.6875	0.515
3/4"	0.565	3.1/4"	6", 8", 12"	1.3/8"	11/16"	0.9093	0.679
1"	0.678	3.3/4"	6" & 10"	1.3/4"	13/16"	0.9093	0.843
1.1/4"	0.686	4"	--	1.3/4"	15/16"	1.3125	0.984
1.1/2"	0.699	4.1/4"	--	1.3/4"	1"	1.5000	1.125
2"	0.667	4.1/2"	--	1.3/4"	1.1/8"	1.8750	1.406
2.1/2"	0.925	5.1/2"	--	2.9/16"	1.1/4"	2.2500	1.687
3"	0.925	6"	--	2.5/8"	1.3/8"	2.6250	1.968
3.1/2"	0.938	6.1/2"	--	2.11/16"	1.1/2"	2.8125	2.108
4"	0.950	6.3/4"	--	2.3/4"	1.5/8"	3.0000	2.250

† Refer to Table 303-A for shank "T" dimensions and tolerances

* Distance small end of tap projects through L1 Taper Thread Ring Gauge

BSPP Parallel (Straight) Pipe Taps

Right Hand High Speed Steel Bottoming Only

Full Form Whitworth



Size	Threads per Inch	EDP #	Basic Major Diameter Inches	Metric Equivalent	Overall Length	Length of Thread	Shank Diameter	Size of Square	Length of Square
1/16"	28	42000	0.304	7.7 x 0.91	2.1/8"	11/16"	0.3125	0.234	3/8"
1/8"	28	42005	0.383	9.7 x 0.91	2.1/8"	3/4"	0.4375	0.328	3/8"
1/4"	19	42010	0.518	13.2 x 1.34	2.7/16"	1.1/16"	0.5625	0.421	7/16"
3/8"	19	42015	0.656	16.7 x 1.34	2.9/16"	1.1/16"	0.7000	0.531	1/2"
1/2"	14	42020	0.825	21.0 x 1.81	3.1/8"	1.3/8"	0.6875	0.515	5/8"
5/8"	14	42025	0.902	22.9 x 1.81	3.3/16"	1.3/8"	0.8000	0.600	11/16"
3/4"	14	42030	1.041	26.4 x 1.81	3.1/4"	1.3/8"	0.9093	0.679	11/16"
7/8"	14	42035	1.189	30.2 x 1.81	3.1/2"	1.9/16"	1.0930	0.812	3/4"
1"	11	42040	1.309	33.2 x 2.31	3.3/4"	1.3/4"	0.9093	0.843	13/16"
1.1/4"	11	42045	1.650	41.9 x 2.31	4"	1.3/4"	1.3125	0.984	15/16"
1.1/2"	11	42050	1.882	47.8 x 2.31	4.1/4"	1.3/4"	1.5000	1.125	1"
1.3/4"	11	42070	2.116	53.7 x 2.31	4.3/8"	1.3/4"	1.6250	1.218	1.1/16"
2"	11	42055	2.347	59.6 x 2.31	4.1/2"	1.3/4"	1.8750	1.406	1.1/8"
2.1/4"	11	42075	2.587	65.7 x 2.31	5"	2.1/8"	2.0000	1.500	1.3/16"
2.1/2"	11	42060	2.960	75.2 x 2.31	5.1/2"	2.9/16"	2.2500	1.687	1.1/4"
3"	11	42065	3.460	87.8 x 2.31	6"	2.5/8"	2.6250	1.968	1.3/8"

Combined Tap & Drill

Suggestions for Use:	These tools require no special equipment or adapters. They fit standard tool holders and may be used in multiple spindle, tapping operations equipped with reversing mechanisms to withdraw the tap. In other cases (including CNC machine centers), the combining of two operations greatly improve productivity subsequently reducing costs.
Set - up:	As with any machining job, fixturing is extremely important and both the fixture and work piece must be checked to ensure rigidity. These tools are designed to drill and tap through holes up to two times the nominal diameter. The drill must protrude through the material before tapping commences.
Speeds:	These tools are designed to operate at speeds somewhere between the normal drilling and tapping speeds for the given material. Start with the suggested tapping speed, and then adjust the spindle R.P.M. upward or downward to find the optimum speed for that particular application. On NC or CNC machines both a fast drilling speed then a slower tapping speed can be programmed to maximize the capabilities of these tools
Materials:	These tools will work to advantage in any material where High Speed Steel tools will perform. Successful applications have included aluminum, brass, bronze, cast iron and zinc.
Lubricants:	Any good cutting fluid or tapping lubricant is generally satisfactory. Proper lubrication can greatly affect the tool life, cutting action, accuracy and thread quality.
Surface Treatments:	Special surface coatings may be added for improved performance, price upon request

NC & NF Combined Tap & Drill

Right Hand High Speed Steel 2 Flute

Machine Screw & Fractional Sizes



Size	EDP #	Pitch Dia. Limits	Overall Length	Drill Length	Drill Size	Thread Length	Square Length	Shank Diameter	Size of Square
#4-40 NC	79200	GH2	1.7/8"	1/4"	0.0910"	3/8"	3/16"	0.141"	0.110"
#4-48 NF	79201	GH2	1.7/8"	1/4"	0.0945"	3/8"	3/16"	0.141"	0.110"
#5-40 NC	79202	GH2	1.15/16"	9/32"	0.1040"	13/32"	3/16"	0.141"	0.110"
#5-44 NF	79203	GH2	1.15/16"	9/32"	0.1060"	13/32"	3/16"	0.141"	0.110"
#6-32 NC	79204	GH3	2"	5/16"	0.1115"	7/16"	3/16"	0.141"	0.110"
#6-40 NF	79205	GH2	2"	5/16"	0.1170"	7/16"	3/16"	0.141"	0.110"
#8-32 NC	79206	GH3	2.1/8"	3/8"	0.1375"	1/2"	1/4"	0.168"	0.131"
#8-36 NF	79207	GH2	2.1/8"	3/8"	0.1405"	1/2"	1/4"	0.168"	0.131"
#10-24 NC	79208	GH3	2.3/8"	13/32"	0.1545"	5/8"	1/4"	0.194"	0.152"
#10-32 NF	79209	GH3	2.3/8"	13/32"	0.1635"	5/8"	1/4"	0.194"	0.152"
#12-24 NC	79210	GH3	2.3/8"	15/32"	0.1805"	21/32"	9/32"	0.220"	0.165"
#12-28 NF	79211	GH3	2.3/8"	15/32"	0.1860"	21/32"	9/32"	0.220"	0.165"
1/4"-20 NC	79212	GH3	2.1/2"	17/32"	0.2080"	25/32"	5/16"	0.255"	0.191"
1/4"-28 NF	79213	GH3	2.1/2"	17/32"	0.2200"	25/32"	5/16"	0.255"	0.191"
5/16"-18 NC	79214	GH3	2.27/32"	11/16"	0.2660"	15/16"	3/8"	0.318"	0.238"
5/16"-24 NF	79215	GH3	2.27/32"	11/16"	0.2770"	15/16"	3/8"	0.318"	0.238"
3/8"-16 NC	79216	GH3	3.3/8"	13/16"	0.3225"	1.1/16"	7/16"	0.381"	0.286"
3/8"-24 NF	79217	GH3	3.3/8"	13/16"	0.3395"	1.1/16"	7/16"	0.381"	0.286"
7/16"-14 NC	79218	GH3	3.3/4"	1"	0.3770"	1.1/14"	13/32"	0.323"	0.242"
7/16"-20 NF	79219	GH3	3.3/4"	1"	0.3955"	1.1/14"	13/32"	0.323"	0.242"
1/2"-13 NC	79220	GH3	4.1/16"	1.1/8"	0.4350"	1.3/8"	7/16"	0.367"	0.275"
1/2"-20 NF	79221	GH3	4.1/16"	1.1/8"	0.4580"	1.3/8"	7/16"	0.367"	0.275"
5/8"-11 NC	79222	GH3	5.1/16"	1.1/2"	0.5480"	1.3/4"	9/16"	0.480"	0.360"

Metric Combined Tap & Drill

Right Hand High Speed Steel 2 Flute



Size	EDP #	Pitch Dia. Limits	Overall Length	Drill Length	Drill Size	Thread Length	Square Length	Shank Diameter	Size of Square
M3 X 0.5	79230	D3	1.15/16"	9/32"	0.1015"	13/32"	3/16"	0.141"	0.110"
M3.5 X 0.6	79231	D4	2"	5/16"	0.1180"	7/16"	3/16"	0.141"	0.110"
M4 X 0.7	79232	D4	2.1/8"	3/8"	0.1340"	1/2"	1/4"	0.168"	0.131"
M4.5 X 0.75	79233	D4	2.3/8"	13/32"	0.1520"	5/8"	1/4"	0.194"	0.152"
M5 X 0.8	79234	D4	2.3/8"	13/32"	0.1700"	5/8"	1/4"	0.194"	0.152"
M6 X 1.0	79235	D5	2.1/2"	17/32"	0.2030"	25/32"	5/16"	0.255"	0.191"
M7 X 1.0	79236	D5	2.27/32"	11/16"	0.2420"	15/16"	3/8"	0.318"	0.238"
M8 X 1.25	79237	D5	2.27/32"	11/16"	0.2735"	15/16"	3/8"	0.318"	0.238"
M10 X 1.5	79238	D6	3.3/8"	13/16"	0.3400"	1.1/16"	7/16"	0.381"	0.286"
M12 X 1.75	79239	D6	4.1/16"	1.1/8"	0.4140"	1.3/8"	7/16"	0.367"	0.275"

Combined Taper Pipe Tap & Drill

Right Hand High Speed Steel

Size	EDP #	Number of Flutes	Overall Length	Drill Length	Drill Size	Thread Length	Square Length	Shank Diameter	Size of Square
1/16"-27 NPT	79240	4	2.13/16"	11/16"	0.2420"	11/6"	3/8"	0.312"	0.234"
1/8"-27 NPT	79241	4	2.7/8"	3/4"	0.3320"	3/4"	3/8"	0.437"	0.328"
1/4"-18 NPT	79242	4	3.5/16"	7/8"	0.4370"	1.1/16"	7/16"	0.562"	0.421"
3/8"-18 NPT	79243	4	3.1/2"	15/16"	0.5620"	1.1/16"	1/2"	0.700"	0.531"
1/2"-14 NPT	79244	4	4.3/8"	1.1/4"	0.7030"	1.3/8"	5/8"	0.687"	0.515"
3/4"-14 NPT	79245	5	4.9/16"	1.5/16"	0.9060"	1.3/8"	11/16"	0.906"	0.679"
1"-11½ NPT	79246	5	5.3/8"	1.5/8"	1.1410"	1.3/4"	13/16"	1.125"	0.843"

Dies

NS & NEF Special Round Adjustable Dies

Right & Left Hand High Speed Steel



Size	Right Hand 13/16" O/D .250" Thick EDP #	Left Hand 13/16" O/D .250" Thick EDP #	Right Hand 1" O/D .375" Thick EDP #	Left Hand 1" O/D .375" Thick EDP #	Right Hand 1 1/2" O/D .500" Thick EDP #
#4-32 NS	30066	30076	--		
#4-64 NS	30086	--	--	--	--
#4-80 NS	30096	--	--	--	--
.120"-80 NS	30106	--	--	--	--
#5-32 NS	30126	--	--	--	--
#5-36 NS	30136	--	--	--	--
#5-48 NS	30146	--	--	--	--
#5-56 NS	30156	--	--	--	--
#5-64 NS	30166	--	--	--	--
#5-80 NS	30176	--	--	--	--
#6-24 NS	30186	--	--	--	--
#6-30 NS	30196	--	--	--	--
#6-36 NS	30206	--	--	--	--
#6-48 NS	30216	--	30218	--	--
#6-56 NS	30226	--	--	--	--
#6-64 NS	30236	--	--	--	--
#6-80 NS	30246	--	--	--	--
5/32"-32 NS	30256	--	--	--	--
5/32"-36 NS	30266	--	--	--	--
5/32"-40 NS	30276	--	--	--	--
#8-24 NS	30296	--	--	--	--
#8-40 NS	30306	--	--	--	--
#8-48 NS	30316	--	--	--	--
#8-56 NS	30326	--	--	--	--
3/16"-24 NS	30346	--	--	--	--
3/16"-32 NS	30356	--	--	--	--
3/16"-40 NS	30366	--	--	--	--

NS & NEF Special Round Adjustable Dies

Right & Left Hand High Speed Steel

Size	Right Hand 13/16" O/D .250" Thick EDP #	Left Hand 13/16" O/D .250" Thick EDP #	Right Hand 1" O/D .375" Thick EDP #	Left Hand 1" O/D .375" Thick EDP #	Right Hand 1 1/2" O/D .500" Thick EDP #
#10-28 NS	30386	--	--	--	--
#10-30 NS	30396	--	--	--	--
#10-36 NS	30406	--	--	--	--
#10-40 NS	30416	--	--	--	--
#10-48 NS	30426	--	--	--	--
#10-56 NS	30436	--	--	--	--
#10-64 NS	30446	--	--	--	--
.210"-36 NS	30466	--	--	--	--
#12-32 NEF	30486	30496	30488	--	--
#12-36 NS	30506	--	--	--	--
#12-40 NS	30516	--	--	--	--
7/32"-24 NS	30536	--	30538	--	--
7/32"-32 NS	30546	--	30548	--	--
7/32"-40 NS	30556	--	30558	--	--
#14-20 NS	30576	--	--	--	--
#14-24 NS	30586	--	--	--	--
#14-32 NS	30596	--	--	--	--
1/4"-24 NS	--	--	30616	--	--
1/4"-26 NS	--	--	30626	--	--
1/4"-27 NS	--	--	30636	--	--
1/4"-32 NEF	--	--	30646	30656	--
1/4"-36 NS	--	--	30666	--	--
1/4"-40 NS	--	--	30676	--	--
1/4"-48 NS	--	--	30686	--	--
1/4"-56 NS	--	--	30696	--	--
1/4"-64 NS	--	--	30706	--	--
1/4"-72 NS	--	--	30716	--	--
1/4"-80 NS	--	--	30726	--	--
9/32"-24 NS	--	--	30746	--	--
9/32"-28 NS	--	--	30756	--	--
9/32"-32 NS	--	--	30766	--	--
5/16"-20 NS	--	--	30786	--	--

NS & NEF Special Round Adjustable Dies

Right & Left Hand High Speed Steel

Size	Right Hand 1" O/D .375" Thick EDP #	Left Hand 1" O/D .375" Thick EDP #	Right Hand 1.1/2" O/D .500" Thick EDP #	Right Hand 2" O/D .625" Thick EDP #	Left Hand 2" O/D .625" Thick EDP #
5/16"-27 NS	30796	--	--	--	--
5/16"-28 NS	30806	--	--	--	--
5/16"-32 NEF	30816	30826	--	--	--
5/16"-36 NS	30836	--	--	--	--
5/16"-40 NS	30846	--	--	--	--
5/16"-48 NS	30856	--	--	--	--
11/32"-32 NS	30876	--	--	--	--
3/8"-18 NS	30896	--	--	--	--
3/8"-20 NS	30906	--	--	--	--
3/8"-26 NS	30916	--	--	--	--
3/8"-27 NS	30926	--	--	--	--
3/8"-28 NS	30936	--	--	--	--
3/8"-30 NS	30946	--	--	--	--
3/8"-32 NEF	30956	30966	30958	--	--
3/8"-36 NS	30976	--	--	--	--
3/8"-40 NS	30986	--	--	--	--
3/8"-64 NS	30996	--	--	--	--
N-00 .391"-32 NS	31016	--	--	--	--
13/32"-32 NS	31036	--	--	--	--
7/16"-16 NS	--	--	31056	--	--
7/16"-18 NS	--	--	31066	--	--
7/16"-24 NS	--	--	31076	--	--
7/16"-27 NS	--	--	31086	--	--
7/16"-28 NEF	--	--	31096	--	--
7/16"-32 NS	--	--	31106	--	--
7/16"-40 NS	--	--	31116	--	--
15/32"-32 NS	--	--	31136	--	--
N-01 .469"-32 NS	--	--	31156	--	--
1/2"-12 NS	--	--	31176	--	--
1/2"-14 NS	--	--	31186	--	--
1/2"-16 NS	--	--	31196	--	--
1/2"-18 NS	--	--	31206	--	--

NS & NEF Special Round Adjustable Dies

Right & Left Hand High Speed Steel

Size	Right Hand 1.1/2" O/D .500" Thick EDP #	Right Hand 2" O/D .625" Thick EDP #	Left Hand 2" O/D .625" Thick EDP #	Right Hand 2.1/2" O/D .750" Thick EDP #	Right Hand 3" O/D .875" Thick EDP #
1/2"-24 NS	31216	--	--	--	--
1/2"-25 NS	31226	--	--	--	--
1/2"-26 NS	31236	--	--	--	--
1/2"-27 NS	31246	--	--	--	--
1/2"-28 NEF	31256	--	--	--	--
1/2"-32 NS	31266	--	--	--	--
1/2"-40 NS	31276	--	--	--	--
17/32"-40 NS	31306	--	--	--	--
9/16"-16 NS	31326	--	--	--	--
9/16"-20 NS	31336	--	--	--	--
9/16"-24 NEF	31346	--	--	--	--
9/16"-25 NS	31356	--	--	--	--
9/16"-27 NS	31366	--	--	--	--
9/16"-28 NS	31376	--	--	--	--
9/16"-32 NS	31386	--	--	--	--
9/16"-40 NS	31396	--	--	--	--
N-02 .586"-32 NS	31416	--	--	--	--
5/8"-12 NS	31436	--	--	--	--
5/8"-14 NS	31446	--	--	--	--
5/8"-16 NS	31456	--	--	--	--
5/8"-20 NS	31466	--	--	--	--
5/8"-24 NEF	31476	--	--	--	--
5/8"-27 NS	31486	--	--	--	--
5/8"-28 NS	31496	--	--	--	--
5/8"-32 NS	31506	--	--	--	--
N-03 .664"-32 NS	31526	--	--	--	--
.669"-20 NS	31546	--	--	--	--
11/16"-12 NS	--	31566	--	--	--
11/16"-18 NS	--	31576	31586	--	--
11/16"-20 NS	--	31596	--	--	--
11/16"-24 NEF	--	31606	--	--	--
11/16"-27 NS	--	31616	--	--	--

NS & NEF Special Round Adjustable Dies

Right & Left Hand High Speed Steel

Size	Right Hand 1.1/2" O/D .500" Thick EDP #	Right Hand 2" O/D .625" Thick EDP #	Left Hand 2" O/D .625" Thick EDP #	Right Hand 2.1/2" O/D .750" Thick EDP #	Right Hand 3" O/D .875" Thick EDP #
11/16"-28 NS	--	31626	--	--	--
11/16"-32 NS	--	31636	--	--	--
3/4"-12 NS	--	31656	--	--	--
3/4"-14 NS	--	31666	--	--	--
3/4"-18 NS	--	31676	--	--	--
3/4"-20 NEF	--	31686	31696	--	--
3/4"-24 NS	--	31706	--	--	--
3/4"-27 NS	--	31716	--	--	--
3/4"-28 NS	--	31726	--	--	--
3/4"-32 NS	--	31736	--	--	--
3/4"-40 NS	--	31746	--	--	--
.800"-36 AMO	--	31786	--	--	--
13/16"-10 NS	--	31806	--	--	--
13/16"-12 NS	--	31816	--	--	--
13/16"-16 NS	--	31826	--	--	--
13/16"-18 NS	--	31836	--	--	--
13/16"-20 NEF	--	31846	--	--	--
13/16"-24 NS	--	31856	--	--	--
13/16"-27 NS	--	31866	--	--	--
13/16"-32 NS	--	31876	--	--	--
7/8"-10 NS	--	31896	--	--	--
7/8"-12 NS	--	31906	--	--	--
7/8"-16 NS	--	31916	--	--	--
7/8"-18 NS	--	31926	31936	--	--
7/8"-20 NEF	--	31946	31956	--	--
7/8"-24 NS	--	31966	--	--	--
7/8"-27 NS	--	31976	--	--	--
7/8"-28 NS	--	31986	--	--	--
7/8"-32 NS	--	31996	--	--	--
15/16"-10 NS	--	32016	--	--	--
15/16"-12 NS	--	32026	--	--	--
15/16"-14 NS	--	32036	--	--	--

NS & NEF Special Round Adjustable Dies

Right & Left Hand High Speed Steel

Size	Right Hand 1.1/2" O/D .500" Thick EDP #	Right Hand 2" O/D .625" Thick EDP #	Left Hand 2" O/D .625" Thick EDP #	Right Hand 2.1/2" O/D .750" Thick EDP #	Right Hand 3" O/D .875" Thick EDP #
15/16"-16 NS	--	32046	--	--	--
15/16"-18 NS	--	32056	--	--	--
15/16"-20 NEF	--	32066	--	--	--
15/16"-24 NS	--	32076	--	--	--
15/16"-27 NS	--	32086	--	--	--
15/16"-32 NS	--	32096	--	--	--
1"-10 NS	--	32136	--	--	--
1"-16 NS	--	32146	32156	--	--
1"-18 NS	--	32166	--	--	--
1"-20 NEF	--	32176	32186	--	--
1"-24 NS	--	32196	--	--	--
1"-27 NS	--	32206	--	--	--
1"-28 NS	--	32216	--	--	--
1"-32 NS	--	32226	--	--	--
1"-40 NS	--	32236	--	--	--
1.1/16"-10 NS	--	32256	--	--	--
1.1/16"-12 NS	--	32266	--	--	--
1.1/16"-14 NS	--	32276	--	--	--
1.1/16"-16 NS	--	32286	--	--	--
1.1/16"-18 NEF	--	32296	--	--	--
1.1/16"-20 NS	--	32306	--	--	--
1.1/16"-24 NS	--	32316	--	--	--
1.1/8"-8 NS	--	--	--	32336	--
1.1/8"-10 NS	--	--	--	32346	--
1.1/8"-14 NS	--	--	--	32356	--
1.1/8"-16 NS	--	--	--	32366	--
1.1/8"-18 NEF	--	--	--	32376	--
1.1/8"-20 NS	--	--	--	32386	--
1.1/8"-24 NS	--	--	--	32396	--
1.1/8"-28 NS	--	--	--	32406	--
1.1/8"-32 NS	--	--	--	32416	--
1.3/16"-10 NS	--	--	--	32456	--

NS & NEF Special Round Adjustable Dies

Right & Left Hand High Speed Steel

Size	Right Hand 1.1/2" O/D .500" Thick EDP #	Right Hand 2" O/D .625" Thick EDP #	Left Hand 2" O/D .625" Thick EDP #	Right Hand 2.1/2" O/D .750" Thick EDP #	Right Hand 3" O/D .875" Thick EDP #
1.3/16"-12 NS	--	--	--	32466	--
1.3/16"-14 NS	--	--	--	32476	--
1.3/16"-16 NS	--	--	--	32486	--
1.3/16"-18 NEF	--	--	--	32496	--
1.3/16"-20 NS	--	--	--	32506	--
1.1/4"-8 NS	--	--	--	32526	--
1.1/4"-10 NS	--	--	--	32536	--
1.1/4"-14 NS	--	--	--	32546	--
1.1/4"-16 NS	--	--	--	32556	--
1.1/4"-18 NEF	--	--	--	32566	--
1.1/4"-20 NS	--	--	--	32576	--
1.1/4"-24 NS	--	--	--	32586	--
1.5/16"-12 NS	--	--	--	32606	--
1.5/16"-14 NS	--	--	--	32616	--
1.5/16"-16 NS	--	--	--	32626	--
1.5/16"-18 NEF	--	--	--	32636	--
1.5/16"-20 NS	--	--	--	32646	--
1.3/8"-8 NS	--	--	--	32666	--
1.3/8"-10 NS	--	--	--	32676	--
1.3/8"-16 NS	--	--	--	32686	--
1.3/8"-18 NEF	--	--	--	32696	--
1.3/8"-20 NS	--	--	--	32706	--
1.3/8"-24 NS	--	--	--	32716	--
1.7/16"-12 NS	--	--	--	32756	--
1.7/16"-16 NS	--	--	--	32766	--
1.7/16"-18 NEF	--	--	--	32776	--
1.1/2"-8 NS	--	--	--	32796	--
1.1/2"-10 NS	--	--	--	32806	--
1.1/2"-14 NS	--	--	--	32816	--
1.1/2"-16 NS	--	--	--	32826	--
1.1/2"-18 NEF	--	--	--	32836	--
1.1/2"-20 NS	--	--	--	32846	--

NS & NEF Special Round Adjustable Dies

Right & Left Hand High Speed Steel

Size	Right Hand 1.1/2" O/D .500" Thick EDP #	Right Hand 2" O/D .625" Thick EDP #	Left Hand 2" O/D .625" Thick EDP #	Right Hand 2.1/2" O/D .750" Thick EDP #	Right Hand 3" O/D .875" Thick EDP #
1.1/2"-24 NS	--	--	--	32856	--
1.9/16"-10 NS	--	--	--	--	32876
1.9/16"-12 NS	--	--	--	--	32886
1.9/16"-16 NS	--	--	--	--	32896
1.9/16"-18 NEF	--	--	--	--	32906
1.5/8"-5½ NC	--	--	--	--	32946
1.5/8"-8 NS	--	--	--	--	32956
1.5/8"-12 NS	--	--	--	--	32966
1.5/8"-16 NS	--	--	--	--	32976
1.5/8"-18 NEF	--	--	--	--	32986
1.3/4"-5 NC	--	--	--	--	32996
1.3/4"-8 NS	--	--	--	--	33006
1.3/4"-10 NS	--	--	--	--	33016
1.3/4"-12 NS	--	--	--	--	33026
1.3/4"-16 NS	--	--	--	--	33036
1.3/4"-18 NS	--	--	--	--	33046
1.3/4"-20 NS	--	--	--	--	33056
1.7/8"-5 NC	--	--	--	--	33086
1.7/8"-8 NS	--	--	--	--	33096
1.7/8"-12 NS	--	--	--	--	33106
1.7/8"-16 NS	--	--	--	--	33116
1.7/8"-18 NS	--	--	--	--	33126
2"-4½ NC	--	--	--	--	33166
2"-6 NS	--	--	--	--	33176
2"-8 NS	--	--	--	--	33186
2"-10 NS	--	--	--	--	33196
2"-12 NS	--	--	--	--	33206
2"-16 NS	--	--	--	--	33216
2"-18 NS	--	--	--	--	33226
2"-20 NS	--	--	--	--	33236
2"-24 NS	--	--	--	--	33246

NS & NEF Hex Rethreading Dies

Right Hand High Speed Steel



Die nuts are designed for rethreading or chasing worn or rusty threads and are not intended for producing new threads on unthreaded bars, bolts or pipes

Size	Width Across Flats	Thickness	Right Hand EDP #
1/4"-32 NEF	.710"	.250"	30647
5/16"-32 NEF	.710"	.250"	30817
3/8"-32 NEF	.820"	.297"	30951
7/16"-28 NEF	.820"	.297"	31091
1/2"-28 NEF	.920"	.344"	31257
9/16"-24 NEF	.920"	.344"	31347
5/8"-24 NEF	1.0625"	.437"	31477
11/16"-24 NEF	1.2500"	.562"	31607
3/4"-20 NEF	1.2500"	.562"	31687
13/16"-20 NEF	1.4375"	.687"	31857
7/8"-18 NS	1.4375"	.687"	31927
7/8"-20 NEF	1.4375"	.687"	31947
15/16"-20 NEF	1.6250"	.812"	32067
1"-16 NS	1.6250"	.812"	32147
1"-18 NS	1.6250"	.812"	32167
1"-20 NEF	1.6250"	.812"	32177
1.1/16"-12 NS	1.8125"	.875"	32267
1.1/16"-18 NEF	1.8125"	.875"	32297
1.1/8"-8 NS	1.8125"	.875"	32337
1.1/8"-16 NS	1.8125"	.875"	32367
1.1/8"-18 NEF	1.8125"	.875"	32377
1.3/16"-12 NS	2.0000"	.937"	32467
1.3/16"-18 NEF	2.0000"	.937"	32497
1.1/4"-8 NS	2.0000"	.937"	32527
1.1/4"-14 NS	2.0000"	.937"	32547
1.1/4"-16 NS	2.0000"	.937"	32557

NS & NEF Hex Rethreading Dies

Right & Left Hand High Speed Steel

Size	Width Across Flats	Thickness	Right Hand EDP #
1.1/4"-20 NS	2.0000"	.937"	32577
1.5/16"-12 NS	2.1875"	.937"	32607
1.5/16"-16 NS	2.1875"	.937"	32627
1.5/16"-18 NEF	2.1875"	.937"	32637
1.3/8"-8 NS	2.1875"	.937"	32667
1.3/8"-18 NEF	2.1875"	.937"	32697
1.7/16"-12 NS	2.3750"	.937"	32757
1.7/16"-18 NEF	2.3750"	.937"	32777
1.1/2"-8 NS	2.3750"	.937"	32797
1.1/2"-16 NS	2.3750"	.937"	32827
1.1/2"-18 NEF	2.3750"	.937"	32637
1.5/8"-5½ NC	2.5625"	1.000"	32947
1.5/8"-8 NS	2.5625"	1.000"	32957
1.5/8"-12 NS	2.5625"	1.000"	32967
1.5/8"-16 NS	2.5625"	1.000"	32977
1.5/8"-18 NEF	2.5625"	1.000"	32987
1.3/4"-5 NC	2.5625"	1.000"	32997
1.3/4"-8 NS	2.5625"	1.000"	33007
1.3/4"-12 NS	2.5625"	1.000"	33027
1.3/4"-16 NS	2.5625"	1.000"	33037
1.3/4"-18 NS	2.5625"	1.000"	33047
1.7/8"-5 NC	2.5625"	1.000"	33087
1.7/8"-8 NS	2.5625"	1.000"	33097
1.7/8"-12 NS	2.5625"	1.000"	33107
1.7/8"-16 NS	2.5625"	1.000"	33117
2"-4½ NC	3.1250"	1.125"	33167
2"-6 NS	3.1250"	1.125"	33177
2"-8 NS	3.1250"	1.125"	33187
2"-12 NS	3.1250"	1.125"	33207
2"-16 NS	3.1250"	1.125"	33217
2"-18 NS	3.1250"	1.125"	33227
2.1/8"-8 NS	3.1250"	1.125"	33267
2.1/8"-16 NS	3.1250"	1.125"	33287
2.1/4"-4½ NC	3.1250"	1.125"	33327

NS & NEF Hex Rethreading Dies

Right & Left Hand High Speed Steel

Size	Width Across Flats	Thickness	Right Hand EDP #
2.1/4"-8 NS	3.1250"	1.125"	33337
2.1/4"-12 NS	3.1250"	1.125"	33347
2.1/4"-16 NS	3.1250"	1.125"	33357
2.3/8"-8 NS	3.500"	1.125"	33397
2.3/8"-12 NS	3.500"	1.125"	33407
2.3/8"-16 NS	3.500"	1.125"	33417
2.1/2"-4 NC	3.500"	1.125"	33437
2.1/2"-8 NS	3.500"	1.125"	33447
2.1/2"-12 NS	3.500"	1.125"	33457
2.1/2"-16 NS	3.500"	1.125"	33467
2.5/8"-8 NS	3.500"	1.125"	33507
2.5/8"-12 NS	3.500"	1.125"	33517
2.3/4"-4 NC	3.500"	1.125"	33537
2.3/4"- 8 NS	3.500"	1.125"	33547
2.3/4"-12 NS	3.500"	1.125"	33557
2.3/4"-16 NS	3.500"	1.125"	33567
2.7/8"-8 NS	4.500"	1.125"	33607
3"-4 NC	4.500"	1.125"	33657
3"-8 NS	4.500"	1.125"	33667
3"-12 NS	4.500"	1.125"	33677
3"-16 NS	4.500"	1.125"	33687
3.1/8"-8 NS	4.500"	1.125"	33707
3.1/8"-12 NS	4.500"	1.125"	33717
3.1/4"-4 NC	5.000"	1.125"	33757
3.1/4"-8 NS	5.000"	1.125"	33767
3.1/4"-12 NS	5.000"	1.125"	33777
3.1/2"-4 NC	5.000"	1.125"	33817
3.1/2"-8 NS	5.000"	1.125"	33827
3.1/2"-12 NS	5.000"	1.125"	33837
3.3/4"-8 NS	6.000"	1.125"	33907
3.3/4"-12 NS	6.000"	1.125"	33917
4"-8 NS	6.000"	1.125"	33967
4"-12 NS	6.000"	1.125"	33976

Metric Special Round Dies

Right Hand High Speed Steel



Size	Right Hand 13/16" O/D .250" Thick EDP #	Right Hand 1" O/D .375" Thick EDP #	Right Hand 1.1/2" O/D .500" Thick EDP #	Right Hand 2" O/D .625" Thick EDP #	Right Hand 2.1/2" O/D .750" Thick EDP #
M1.4 x 0.35	70026	--	--	--	--
M1.5 x 0.35	--	70076	--	--	--
M1.7 x 0.35	70136	--	--	--	--
M3 x 0.35	70386	--	--	--	--
M3 x 0.75	70406	--	--	--	--
M3.5 x 0.35	70466	--	--	--	--
M3.5 x 0.5	70476	--	--	--	--
M4 x 0.35	70526	--	--	--	--
M4 x 0.8	70536	--	--	--	--
M4 x 1.0	70546	--	--	--	--
M4.5 x 0.45	70616	--	--	--	--
M4.5 x 0.5	70626	--	--	--	--
M5 x 0.4	70696	--	--	--	--
M5 x 0.7	70706	--	--	--	--
M5 x 1.0	70716	--	--	--	--
M5 x 1.25	70726	--	--	--	--
M5.5 x 0.5	70766	--	--	--	--
M5.5 x 0.8	70786	--	--	--	--
M5.5 x 1.0	70796	--	--	--	--
M6 x 0.8	--	70856	--	--	--
M6 x 1.25	--	70866	--	--	--
M6 x 1.5	--	70876	--	--	--
M6.3 x 1.0	--	70926	--	--	--
M7 x 0.5	--	70976	--	--	--
M7 x 1.25	--	70986	--	--	--

Metric Special Round Dies

Right Hand High Speed Steel

Size	Right Hand 13/16" O/D .250" Thick EDP #	Right Hand 1" O/D .375" Thick EDP #	Right Hand 1.1/2" O/D .500" Thick EDP #	Right Hand 2" O/D .625" Thick EDP #	Right Hand 2.1/2" O/D .750" Thick EDP #
M7 x 1.5	--	70996	--	--	--
M8 x 1.5	--	71046	--	--	--
M9 x 0.5	--	71096	--	--	--
M9 x 0.75	--	71106	--	--	--
M9 x 1.5	--	71116	--	--	--
M10 x 0.5	--	71166	--	--	--
M10 x 0.9	--	71176	--	--	--
M10 x 1.75	--	71186	--	--	--
M11 x 1.25	--	--	71236	--	--
M12 x 0.5	--	--	71286	--	--
M12 x 0.75	--	--	71296	--	--
M12 x 0.8	--	--	71306	--	--
M12 x 2.0	--	--	71316	--	--
M13 x 0.75	--	--	71366	--	--
M13 x 1.0	--	--	71376	--	--
M13 x 1.25	--	--	71386	--	--
M13 x 1.5	--	--	71396	--	--
M13 x 1.75	--	--	71406	--	--
M13 x 2.0	--	--	71416	--	--
M14 x 0.75	--	--	71466	--	--
M14 x 1.75	--	--	71476	--	--
M15 x 0.75	--	--	71526	--	--
M15 x 1.0	--	--	71536	--	--
M15 x 1.25	--	--	71546	--	--
M15 x 1.5	--	--	71556	--	--
M15 x 1.75	--	--	71566	--	--
M15 x 2.0	--	--	71576	--	--
M16 x 0.75	--	--	71626	--	--
M16 x 1.25	--	--	71636	--	--
M17 x 0.75	--	--	71686	--	--
M17 x 1.0	--	--	71696	--	--
M17 x 1.25	--	--	71706	--	--

Metric Special Round Dies

Right Hand High Speed Steel

Size	Right Hand 1" O/D .375" Thick EDP #	Right Hand 1.1/2" O/D .500" Thick EDP #	Right Hand 2" O/D .625" Thick EDP #	Right Hand 2.1/2" O/D .750" Thick EDP #	Right Hand 3" O/D .875" Thick EDP #
M17 x 1.5	--	71716	--	--	--
M17 x 2.0	--	71726	--	--	--
M18 x 1.25	--	--	71776	--	--
M19 x 1.0	--	--	71826	--	--
M19 x 1.5	--	--	71836	--	--
M19 x 2.0	--	--	71856	--	--
M19 x 2.5	--	--	71866	--	--
M20 x 0.75	--	--	71916	--	--
M20 x 1.25	--	--	71926	--	--
M20 x 1.75	--	--	71936	--	--
M21 x 1.0	--	--	71986	--	--
M21 x 1.5	--	--	72006	--	--
M21 x 1.75	--	--	72016	--	--
M21 x 2.0	--	--	72026	--	--
M22 x 1.0	--	--	72076	--	--
M22 x 1.25	--	--	72086	--	--
M22 x 1.75	--	--	72096	--	--
M23 x 1.0	--	--	72146	--	--
M23 x 1.5	--	--	72156	--	--
M24 x 1.0	--	--	72206	--	--
M24 x 2.5	--	--	72226	--	--
M25 x 1.0	--	--	72276	--	--
M25 x 2.0	--	--	72296	--	--
M25 x 2.5	--	--	72306	--	--
M26 x 1.0	--	--	72356	--	--
M26 x 1.5	--	--	72376	--	--
M26 x 2.0	--	--	72396	--	--
M26 x 3.0	--	--	72406	--	--
M27 x 1.0	--	--	--	72456	--
M27 x 1.5	--	--	--	72466	--
M28 x 1.0	--	--	--	72516	--
M28 x 1.5	--	--	--	72526	--

Metric Special Round Dies

Right Hand High Speed Steel

Size	Right Hand 1" O/D .375" Thick EDP #	Right Hand 1.1/2" O/D .500" Thick EDP #	Right Hand 2" O/D .625" Thick EDP #	Right Hand 2.1/2" O/D .750" Thick EDP #	Right Hand 3" O/D .875" Thick EDP #
M28 x 2.0	--	--	--	72536	--
M30 x 1.0	--	--	--	72586	--
M30 x 1.5	--	--	--	72596	--
M30 x 3.0	--	--	--	72606	--
M32 x 1.0	--	--	--	72656	--
M32 x 1.5	--	--	--	72666	--
M32 x 2.0	--	--	--	72676	--
M33 x 1.0	--	--	--	72726	--
M33 x 1.5	--	--	--	72736	--
M33 x 3.0	--	--	--	72746	--
M34 x 1.0	--	--	--	72796	--
M34 x 1.5	--	--	--	72806	--
M35 x 1.0	--	--	--	72856	--
M35 x 1.5	--	--	--	72866	--
M35 x 2.0	--	--	--	72876	--
M36 x 1.0	--	--	--	72926	--
M36 x 1.5	--	--	--	72936	--
M36 x 2.0	--	--	--	72946	--
M38 x 1.0	--	--	--	72996	--
M38 x 1.5	--	--	--	73006	--
M39 x 1.5	--	--	--	73056	--
M39 x 2.0	--	--	--	73066	--
M40 x 1.5	--	--	--	--	73116
M40 x 2.0	--	--	--	--	73126
M40 x 3.0	--	--	--	--	73136
M42 x 1.0	--	--	--	--	73186
M42 x 1.5	--	--	--	--	73196
M42 x 2.0	--	--	--	--	73206
M42 x 3.0	--	--	--	--	73216
M42 x 4.5	--	--	--	--	73226
M45 x 1.0	--	--	--	--	73276
M45 x 1.5	--	--	--	--	73286

Metric Special Round Dies

Right Hand High Speed Steel

Size	Right Hand 1" O/D .375" Thick EDP #	Right Hand 1.1/2" O/D .500" Thick EDP #	Right Hand 2" O/D .625" Thick EDP #	Right Hand 2.1/2" O/D .750" Thick EDP #	Right Hand 3" O/D .875" Thick EDP #
M45 x 2.0	--	--	--	--	73296
M45 x 3.0	--	--	--	--	73306
M45 x 4.5	--	--	--	--	73316
M48 x 1.5	--	--	--	--	73366
M48 x 2.0	--	--	--	--	73376
M48 x 3.0	--	--	--	--	73386
M48 x 5.0	--	--	--	--	73406
M50 x 1.5	--	--	--	--	73456
M50 x 2.0	--	--	--	--	73466

Left Hand, other sizes and pitches available on request

Metric Special Hex Rethreading Dies

Right Hand High Speed Steel



Size	Width Across Flats	Thickness	Right Hand EDP #
M27 x 1.5	1.6250"	.812"	72467
M28 x 1.5	1.8125"	.875"	72527
M30 x 1.5	2.0000"	.937"	72597
M30 x 3.0	2.0000"	.937"	72607
M32 x 1.5	2.0000"	.937"	72667
M33 x 1.5	2.1875"	.937"	72737
M33 x 3.0	2.1875"	.937"	72747
M34 x 1.5	2.1875"	.937"	72807
M35 x 1.5	2.1875"	.937"	72867
M36 x 1.5	2.1875"	.937"	72937
M36 x 2.0	2.1875"	.937"	72947
M38 x 1.5	2.3750"	.937"	73007
M39 x 1.5	2.3750"	.937"	73057
M39 x 2.0	2.3750"	.937"	73067
M40 x 1.5	2.3750"	.937"	73117
M40 x 2.0	2.3750"	.937"	73127
M42 x 1.5	2.5625"	1.000"	73197
M42 x 2.0	2.5625"	1.000"	73207
M42 x 3.0	2.5625"	1.000"	73217
M42 x 4.5	2.5625"	1.000"	73227
M45 x 1.5	2.5625"	1.000"	73287
M45 x 4.5	2.5625"	1.000"	73317
M48 x 1.5	2.5625"	1.000"	73367
M48 x 2.0	2.5625"	1.000"	73377
M48 x 3.0	2.5625"	1.000"	73387
M48 x 5.0	2.5625"	1.000"	73407
M50 x 1.5	3.1250"	1.125"	73457

Metric Special Hex Rethreading Dies

Right Hand High Speed Steel

Size	Width Across Flats	Thickness	Right Hand EDP #
M52 x 1.5	3.1250"	1.125"	73517
M52 x 2.0	3.1250"	1.125"	73527
M52 x 3.0	3.1250"	1.125"	73537
M52 x 5.0	3.1250"	1.125"	73547
M55 x 2.0	3.1250"	1.125"	73597
M55 x 3.0	3.1250"	1.125"	73607
M56 x 1.5	3.1250"	1.125"	73657
M56 x 2.0	3.1250"	1.125"	73667
M56 x 3.0	3.1250"	1.125"	73677
M56 x 4.0	3.1250"	1.125"	73687
M56 x 5.5	3.1250"	1.125"	73697
M58 x 1.0	3.5000"	1.125"	73747
M58 x 1.5	3.5000"	1.125"	73757
M60 x 2.0	3.5000"	1.125"	73807
M60 x 4.0	3.5000"	1.125"	73817
M60 x 5.5	3.5000"	1.125"	73827
M64 x 2.0	3.5000"	1.125"	73877
M64 x 3.0	3.5000"	1.125"	73887
M64 x 4.0	3.5000"	1.125"	73897
M64 x 6.0	3.5000"	1.125"	73907
M68 x 4.0	3.5000"	1.125"	73957
M68 x 6.0	3.5000"	1.125"	73967
M72 x 1.5	4.5000"	1.125"	74017
M72 x 6.0	4.5000"	1.125"	74027
M76 x 1.5	4.5000"	1.125"	74077
M76 x 6.0	4.5000"	1.125"	74087

Left Hand, other sizes and pitches available on request

Hex Rethreading Dies for AFBMA Locknut Shafts & Round Threading Dies

Right Hand High Speed Steel



Die nuts are designed for rethreading or chasing worn or rusty threads and are not intended for producing new threads on unthreaded bars, bolts or pipes

Size	Hex Rethreading Dies		Hex Rethrd. Dies EDP #	Round Dies O/D	Round Dies EDP #
	Width Across Flats	Thickness			
N-00 .391"-32 NS	.820"	.297"	31017	1"	31016
N-01 .469"-32 NS	.920"	.344"	31157	1.1/2"	31156
N-02 .586"-32 NS	1.0625"	.437"	31417	1.1/2"	31416
N-03 .664"-32 NS	1.2500"	.562"	31527	1.1/2"	31526
N-04 .781"-32 NS	1.2500"	.562"	31767	--	--
N-05 .969"-32 NS	1.6250"	.812"	32117	--	--
N-06 1.173"-18 NS	2.0000"	.937"	32437	--	--
N-07 1.376"-18 NS	2.1875"	.937"	32737	--	--
N-08 1.563"-18 NS	2.3750"	.937"	32927	--	--
N-09 1.767"-18 NS	2.5625"	1.000"	33067	--	--
N-10 1.967"-18 NS	3.1250"	1.125"	33147	--	--
N-11 2.157"-18 NS	3.1250"	1.125"	33307	--	--
N-12 2.360"-18 NS	3.5000"	1.125"	33377	--	--
N-13 2.548"-18 NS	3.5000"	1.125"	33487	--	--
N-14 2.751"-18 NS	4.5000"	1.125"	33587	--	--
AN-15 2.933"-12 NS	4.5000"	1.125"	33637	--	--
AN-16 3.137"-12 NS	4.5000"	1.125"	33737	--	--
AN-17 3.340"-12 NS	5.0000"	1.125"	33797	--	--
AN-18 3.527"-12 NS	5.0000"	1.125"	33857	--	--
AN-19 3.730"-12 NS	5.0000"	1.125"	33877	--	--
AN-20 3.918"-12 NS	6.0000"	1.125"	33937	--	--

NOTE: Dimensions shown are in accordance with the AFBMA standard and are printed here with the permissions of the Anti-Friction Bearing Manufacturers' Association, Arlington, VA 22201.

Acme Round & Hex Dies

Right Hand High Speed Steel



Size	Hex Rethreading Dies		Hex Rethrd. Dies EDP #	Round Dies O/D	Round Dies EDP #
	Width Across Flats	Thickness			
1/2"-10 NA	.920"	.344"	34066	1"	34064
1/2"-10 NA	--	--	--	1.1/2"	34068
5/8"-8 NA	1.0625	.437"	34096	1.1/2"	34094
3/4"-6 NA	1.4375"	.687"	34126	2"	34124
7/8"-6 NA	1.6250"	.812"	34176	2"	34174
1"-5 NA	1.8125"	.875"	34206	2"	34204
1.1/8"-5 NA	1.8125"	.875"	34246	2.1/2"	34244
1.1/4"-5 NA	2.0000"	.937"	34266	2.1/2"	34264
1.3/8"-4 NA	2.1875"	.937"	34276	3"	34274
1.1/2"-4 NA	2.3750"	.937"	34286	3"	34286

NC & NF Round Split Adjustable Dies

Right Hand High Speed Steel



Size	13/16" O/D x 1/4" Thick EDP #	1" O/D x 3/8" Thick EDP #	1.5/16" O/D x 7/16" Thick EDP #	1.1/2" O/D x 1/2" Thick EDP #	2" O/D x 5/8" Thick EDP #	2.1/2" O/D x 3/4" Thick EDP #
#0 - 80 NF	17101	--	--	--	--	--
#1 - 64 NC	17102	--	--	--	--	--
#1 - 72 NF	17103	--	--	--	--	--
#2 - 56 NC	17104	--	--	--	--	--
#2 - 64 NF	17105	--	--	--	--	--
#3 - 48 NC	17106	--	--	--	--	--
#3 - 56 NF	17107	--	--	--	--	--
#4 - 36 NS	17108	--	--	--	--	--
#4 - 40 NC	17109	17209	--	--	--	--
#4 - 48 NF	17110	17210	--	--	--	--
#5 - 40 NC	17111	17211	--	--	--	--
#5 - 44 NF	17112	17212	--	--	--	--
#6 - 32 NC	17113	17213	--	--	--	--
#6 - 40 NF	17114	17214	--	--	--	--
#8 - 32 NC	17115	17215	--	--	--	--
#8 - 36 NF	17116	17216	--	--	--	--
#10 - 24 NC	17117	17217	--	--	--	--
#10 - 32 NF	17118	17218	--	--	--	--
#12 - 24 NC	17119	17219	--	--	--	--
#12 - 28 NF	17120	17220	--	--	--	--
1/4"-20 NC	17121	17221	17321	17421	--	--
1/4"-28 NF	17122	17222	17322	17422	--	--
5/16"-18 NC	17123	17223	17323	17423	--	--
5/16"-24 NF	17124	17224	17324	17424	--	--
3/8"-16 NC	--	17225	17325	17425	--	--

NC & NF Round Split Adjustable Dies

Right Hand High Speed Steel

Size	13/16" O/D x 1/4" Thick EDP #	1" O/D x 3/8" Thick EDP #	1.5/16" O/D x 7/16" Thick EDP #	1.1/2" O/D x 1/2" Thick EDP #	2" O/D x 5/8" Thick EDP #	2.1/2" O/D x 3/4" Thick EDP #
3/8"-24 NF	--	17226	17326	17426	--	--
7/16"-14 NC	--	17227	17327	17427	--	--
7/16"-20 NF	--	17228	17328	17428	--	--
1/2"-13 NC	--	17229	17329	17429	17529	--
1/2"-20 NF	--	17230	17330	17430	17530	--
9/16"-12 NC	--	--	17331	17431	--	--
9/16"-18 NF	--	--	17332	17432	--	--
5/8"-11 NC	--	--	--	17433	17533	--
5/8"-18 NF	--	--	--	17434	17534	--
11/16"-11 NS	--	--	--	--	17535	--
11/16"-16 NS	--	--	--	--	17536	--
3/4"-10 NC	--	--	--	17437	17537	--
3/4"-16 NF	--	--	--	17438	17538	--
7/8"-9 NC	--	--	--	--	17539	--
7/8"-14 NF	--	--	--	--	17540	--
1" - 8 NC	--	--	--	--	17541	--
1" - 12 NF	--	--	--	--	17542	--
1"-14 NS	--	--	--	--	17543	--
1.1/8"-7 NC	--	--	--	--	--	17644
1.1/8"-12 NF	--	--	--	--	--	17645
1.1/4"-7 NC	--	--	--	--	--	17646
1.1/4"-12 NF	--	--	--	--	--	17647
1.3/8"-6 NC	--	--	--	--	--	17648
1.3/8"-12 NF	--	--	--	--	--	17649
1.1/2"-6 NC	--	--	--	--	--	17650
1.1/2"-12 NF	--	--	--	--	--	17651

NC & NF Round Split Adjustable Dies

Left Hand High Speed Steel



Size	13/16" O/D x 1/4" Thick EDP #	1" O/D x 3/8" Thick EDP #	1.1/2" O/D x 1/2" Thick EDP #	2" O/D x 5/8" Thick EDP #	2.1/2" O/D x 3/4" Thick EDP #
#4 - 40 NC	18109	18209	--	--	--
#4 - 48 NF	18110	--	--	--	--
#5 - 40 NC	18111	--	--	--	--
#5 - 44 NF	18112	--	--	--	--
#6 - 32 NC	18113	18213	--	--	--
#6 - 40 NF	18114	18214	--	--	--
#8 - 32 NC	18115	18215	--	--	--
#8 - 36 NF	18116	18216	--	--	--
#10 - 24 NC	18117	18217	--	--	--
#10 - 32 NF	18118	18218	--	--	--
#12 - 24 NC	18119	18219	--	--	--
#12 - 28 NF	18120	18220	--	--	--
1/4"-20 NC	--	18221	18421	--	--
1/4"-28 NF	--	18222	18422	--	--
5/16"-18 NC	--	18223	18423	--	--
5/16"-24 NF	--	18224	18424	--	--
3/8"-16 NC	--	18225	18425	--	--
3/8"-24 NF	--	18226	18426	--	--
7/16"-14 NC	--	--	18427	--	--
7/16"-20 NF	--	--	18428	--	--
1/2"-13 NC	--	--	18429	--	--
1/2"-20 NF	--	--	18430	--	--
9/16"-12 NC	--	--	18431	--	--
9/16"-18 NF	--	--	18432	--	--
5/8"-11 NC	--	--	18433	--	--

NC & NF Round Split Adjustable Dies

Right Hand High Speed Steel

Size	13/16" O/D x 1/4" Thick EDP #	1" O/D x 3/8" Thick EDP #	1.1/2" O/D x 1/2" Thick EDP #	2" O/D x 5/8" Thick EDP #	2.1/2" O/D x 3/4" Thick EDP #
5/8"-18 NF	--	--	18434	--	--
11/16"-11 NS	--	--	--	18535	--
11/16"-16 NS	--	--	--	18536	--
3/4"-10 NC	--	--	18437	18537	--
3/4"-16 NF	--	--	18438	18538	--
7/8"-9 NC	--	--	--	18539	--
7/8"-14 NF	--	--	--	18540	--
1" - 8 NC	--	--	--	18541	--
1" - 12 NF	--	--	--	18542	--
1"-14 NS	--	--	--	18543	--
1.1/8"-7 NC	--	--	--	--	18644
1.1/8"-12 NF	--	--	--	--	18645
1.1/4"-7 NC	--	--	--	--	18646
1.1/4"-12 NF	--	--	--	--	18647
1.3/8"-6 NC	--	--	--	--	18648
1.3/8"-12 NF	--	--	--	--	18649
1.1/2"-6 NC	--	--	--	--	18650
1.1/2"-12 NF	--	--	--	--	18651

NC & NF Hex Rethreading Dies

Right & Left Hand High Speed Steel



Die nuts are designed for rethreading or chasing worn or rusty threads and are not intended for producing new threads on unthreaded bars, bolts or pipes.

Size	Width Across Flats	Thickness	Right Hand EDP #	Left Hand EDP #
#4 - 40 NC	0.7100"	.250"	17909	--
#4 - 48 NF	0.7100"	.250"	17910	--
#5 - 40 NC	0.7100"	.250"	17911	--
#5 - 44 NF	0.7100"	.250"	17912	--
#6 - 32 NC	0.7100"	.250"	17913	--
#6 - 40 NF	0.7100"	.250"	17914	--
#8 - 32 NC	0.7100"	.250"	17915	--
#8 - 36 NF	0.7100"	.250"	17916	--
#10 - 24 NC	0.7100"	.250"	17917	--
#10 - 32 NF	0.7100"	.250"	17918	--
#12 - 24 NC	0.7100"	.250"	17919	--
#12 - 28 NF	0.7100"	.250"	17920	--
1/4"-20 NC	0.7100"	.250"	17921	18921
1/4"-28 NF	0.7100"	.250"	17922	18922
5/16"-18 NC	0.7100"	.250"	17923	18923
5/16"-24 NF	0.7100"	.250"	17924	18924
3/8"-16 NC	0.8200"	.297"	17925	18925
3/8"-24 NF	0.8200"	.297"	17926	18926
7/16"-14 NC	0.8200"	.297"	17927	18927
7/16"-20 NF	0.8200"	.297"	17928	18928
1/2"-13 NC	0.9200"	.344"	17929	18929
1/2"-20 NF	0.9200"	.344"	17930	18930
9/16"-12 NC	0.9200"	.344"	17931	18931
9/16"-18 NF	0.9200"	.344"	17932	18932
5/8"-11 NC	1.0625"	.437"	17933	18933

NC & NF Round Split Adjustable Dies

Right Hand High Speed Steel

Size	Width Across Flats	Thickness	Right Hand EDP #	Left Hand EDP #
11/16"-11 NS	1.2500"	.562"	17935	18935
11/16"-16 NS	1.2500"	.562"	17936	18936
3/4"-10 NC	1.2500"	.562"	17937	18937
3/4"-16 NF	1.2500"	.562"	17938	18938
7/8"-9 NC	1.4375"	.687"	17939	18939
7/8"-14 NF	1.4375"	.687"	17940	18940
1" - 8 NC	1.6250"	.812"	17941	18941
1" - 12 NF	1.6250"	.812"	17942	18942
1"-14 NS	1.6250"	.812"	17943	18943
1.1/8"-7 NC	1.8125'	.875'	17944	18944
1.1/8"-12 NF	1.8125'	.875'	17945	18945
1.1/4"-7 NC	2.0000"	.937"	17946	18946
1.1/4"-12 NF	2.0000"	.937"	17947	18947
1.3/8"-6 NC	2.1875'	.937"	17948	18948
1.3/8"-12 NF	2.1875'	.937"	17949	18949
1.1/2"-6 NC	2.3750"	.937"	17950	18950
1.1/2"-12 NF	2.3750"	.937"	17951	18951

Metric Right Hand Round Dies

Right Hand High Speed Steel



Size	13/16" O/D x 1/4" Thick	1" O/D x 3/8" Thick	1.5/16" O/D x 7/16" Thick	1.1/2" O/D x 1/2" Thick	2" O/D x 5/8" Thick	2.1/2" O/D x 3/4" Thick
M1.6 x 0.35	51101	--	--	--	--	--
M1.8 x 0.35	51102	--	--	--	--	--
M2 x 0.4	51103	--	--	--	--	--
M2.2 x 0.45	51104	--	--	--	--	--
M2.3 x 0.4	51105	--	--	--	--	--
M2.5 x 0.45	51106	--	--	--	--	--
M2.6 x 0.45	51107	--	--	--	--	--
M3 x 0.5	51108	51208	--	--	--	--
M3 x 0.6	51110	--	--	--	--	--
M3.5 x 0.6	51111	51211	--	--	--	--
M4 x 0.5	51112	--	--	--	--	--
M4 x 0.7	51113	51213	--	--	--	--
M4 x 0.75	51114	51214	--	--	--	--
M4.5 x 0.75	51115	51215	--	--	--	--
M5 x 0.5	51116	51216	--	--	--	--
M5 x 0.75	51117	--	--	--	--	--
M5 x 0.8	51118	51218	--	--	--	--
M5 x 0.9	51119	51219	--	--	--	--
M5.5 x 0.9	51120	51220	--	--	--	--
M6 x 0.5	--	51221	--	--	--	--
M6 x 0.75	--	51222	--	--	--	--
M6 x 1.0	51123	51223	51323	--	--	--
M7 x 0.75	--	51224	--	--	--	--
M7 x 1.0	51125	51225	51325	--	--	--
M8 x 0.5	--	51226	--	--	--	--

Metric Right Hand Round Dies

Right Hand High Speed Steel

Size	13/16" O/D x 1/4" Thick	1" O/D x 3/8" Thick	1.5/16" O/D x 7/16" Thick	1.1/2" O/D x 1/2" Thick	2" O/D x 5/8" Thick	2.1/2" O/D x 3/4" Thick
M8 x 0.75	--	51227	--	--	--	--
M8 x 1.0	--	51228	--	51428	--	--
M8 x 1.25	--	51230	51330	51430	--	--
M9 x 1.0	--	51232	--	--	--	--
M9 x 1.25	--	51232	--	--	--	--
M10 x 0.75	--	51233	--	--	--	--
M10 x 1.0	--	51234	--	51434	--	--
M10 x 1.25	--	51235	--	51435	--	--
M10 x 1.5	--	51236	51336	51436	--	--
M11 x 0.75	--	--	--	51437	--	--
M11 x 1.0	--	--	--	51438	--	--
M11 x 1.5	--	--	--	51439	--	--
M12 x 1.0	--	--	--	51440	--	--
M12 x 1.25	--	--	--	51441	--	--
M12 x 1.5	--	--	--	51442	--	--
M12 x 1.75	--	51243	51343	51443	51543	--
M14 x 1.0	--	--	--	51444	--	--
M14 x 1.25	--	--	--	51445	--	--
M14 x 1.5	--	--	--	51446	--	--
M14 x 2.0	--	--	51347	51447	51547	--
M16 x 1.0	--	--	--	51448	--	--
M16 x 1.5	--	--	--	51449	--	--
M16 x 2.0	--	--	--	51450	51550	--
M18 x 1.0	--	--	--	51451	51551	--
M18 x 1.5	--	--	--	51452	51552	--
M18 x 2.0	--	--	--	--	51553	--
M18 x 2.5	--	--	--	--	51554	--
M20 x 1.0	--	--	--	--	51555	--
M20 x 1.5	--	--	--	--	51556	--
M20 x 2.0	--	--	--	--	51557	--
M20 x 2.5	--	--	--	--	51558	--
M22 x 1.5	--	--	--	--	51559	--

Metric Right Hand Round Dies

Right Hand High Speed Steel

Size	13/16" O/D x 1/4" Thick	1" O/D x 3/8" Thick	1.5/16" O/D x 7/16" Thick	1.1/2" O/D x 1/2" Thick	2" O/D x 5/8" Thick	2.1/2" O/D x 3/4" Thick
M22 x 2.0	--	--	--	--	51560	--
M22 x 2.5	--	--	--	--	51561	--
M24 x 1.5	--	--	--	--	51562	--
M24 x 2.0	--	--	--	--	51563	--
M24 x 3.0	--	--	--	--	51564	--
M25 x 1.5	--	--	--	--	51565	--
M27 x 2.0	--	--	--	--	--	51666
M27 x 3.0	--	--	--	--	--	51667
M30 x 2.0	--	--	--	--	--	51668
M30 x 3.5	--	--	--	--	--	51669
M33 x 2.0	--	--	--	--	--	51670
M33 x 3.5	--	--	--	--	--	51671
M36 x 3.0	--	--	--	--	--	51672
M36 x 4.0	--	--	--	--	--	51673
M39 x 3.0	--	--	--	--	--	51674
M39 x 4.0	--	--	--	--	--	51675

Metric Hex Dies

Right & Left Hand High Speed Steel



Size	Across the Flats	Thickness	Right Hand EDP #	Left Hand EDP #
M3 x 0.5	.710"	.250"	51908	--
M3.5 x 0.6	.710"	.250"	51911	--
M4 x 0.7	.710"	.250"	51913	--
M4.5 x 0.75	.710"	.250"	51915	--
M5 x 0.8	.710"	.250"	51918	--
M6 x 0.75	.710"	.250"	51922	--
M6 x 1.0	.710"	.250"	51923	55923
M7 x 1.0	.710"	.250"	51925	--
M8 x 1.0	.710"	.250"	51928	--
M8 x 1.25	.710"	.250"	51930	55930
M9 x 1.0	.820"	.297"	51931	--
M9 x 1.25	.820"	.297"	51932	--
M10 x 1.0	.820"	.297"	51934	--
M10 x 1.25	.820"	.297"	51935	--
M10 x 1.5	.820"	.297"	51936	55936
M11 x 1.5	.820"	.297"	51939	--
M12 x 1.0	.920"	.344"	51940	--
M12 x 1.25	.920"	.344"	51941	--
M12 x 1.5	.920"	.344"	51942	--
M12 x 1.75	.920"	.344"	51943	55943
M14 x 1.0	.920"	.344"	51944	--
M14 x 1.25	.920"	.344"	51945	--
M14 x 1.5	.920"	.344"	51946	--
M14 x 2.0	.920"	.344"	51947	55947
M16 x 1.0	1.0625"	.437"	51948	--
M16 x 1.5	1.0625"	.437"	51949	--
M16 x 2.0	1.0625"	.437"	51950	55950

Metric Hex Dies

Right & Left Hand High Speed Steel

Size	Across the Flats	Thickness	Right Hand EDP #	Left Hand EDP #
M18 x 1.0	1.250"	.562"	51951	--
M18 x 1.5	1.250"	.562"	51952	--
M18 x 2.5	1.250"	.562"	51954	55954
M20 x 1.0	1.250"	.562"	51955	--
M20 x 1.5	1.250"	.562"	51956	--
M20 x 2.0	1.250"	.562"	51957	--
M20 x 2.5	1.250"	.562"	51958	55958
M22 x 1.5	1.4375"	.687"	51959	--
M22 x 2.5	1.4375"	.687"	51961	55961
M24 x 1.5	1.625"	.812"	51962	--
M24 x 2.0	1.625"	.812"	51963	--
M24 x 3.0	1.625"	.812"	51964	55964
M25 x 1.5	1.625"	.812"	51965	--
M27 x 2.0	1.625"	.812"	51966	--
M27 x 3.0	1.625"	.812"	51967	--
M30 x 2.0	2.000"	.937"	51968	--
M30 x 3.5	2.000"	.937"	51969	55969
M33 x 2.0	2.1875"	.937"	51970	--
M33 x 3.5	2.1875"	.937"	51971	--
M36 x 3.0	2.1875"	.937"	51972	--
M36 x 4.0	2.1875"	.937"	51973	--
M39 x 3.0	2.375"	.937"	51974	--
M39 x 4.0	2.375"	.937"	51975	--

Metric Round Dies

Left Hand High Speed Steel



Size	13/16" O/D x 1/4" Thick	1" O/D x 3/8" Thick	1.1/2" O/D x 1/2" Thick	2" O/D x 5/8" Thick	2.1/2" O/D x 3/4" Thick
M3 x 0.5	55108	55208	--	--	--
M3.5 x 0.6	55111	55211	--	--	--
M4 x 0.7	55113	55213	--	--	--
M4.5 x 0.75	55115	55215	--	--	--
M5 x 0.5	55116	--	--	--	--
M5 x 0.8	55118	55218	--	--	--
M6 x 0.75	--	55222	--	--	--
M6 x 1.0	--	55223	--	--	--
M7 x 1.0	--	55225	--	--	--
M8 x 1.0	--	55228	--	--	--
M8 x 1.25	--	55230	--	--	--
M9 x 1.25	--	55232	--	--	--
M10 x 1.0	--	55234	--	--	--
M10 x 1.25	--	55235	--	--	--
M10 x 1.5	--	55236	--	--	--
M11 x 1.5	--	--	55439	--	--
M12 x 1.0	--	--	55440	--	--
M12 x 1.25	--	--	55441	--	--
M12 x 1.5	--	--	55442	--	--
M12 x 1.75	--	--	55443	--	--
M14 x 1.25	--	--	55445	--	--
M14 x 1.5	--	--	55446	--	--
M14 x 2.0	--	--	55447	--	--
M16 x 1.5	--	--	55449	--	--
M16 x 2.0	--	--	55450	--	--

Metric Round Dies

Left Hand High Speed Steel

Size	13/16" O/D x 1/4" Thick	1" O/D x 3/8" Thick	1.1/2" O/D x 1/2" Thick	2" O/D x 5/8" Thick	2.1/2" O/D x 3/4" Thick
M18 x 1.5	--	--	--	55552	--
M18 x 2.5	--	--	--	55554	--
M20 x 1.5	--	--	--	55556	--
M20 x 2.0	--	--	--	55557	--
M20 x 2.5	--	--	--	55558	--
M22 x 1.5	--	--	--	55559	--
M22 x 2.5	--	--	--	55561	--
M24 x 1.5	--	--	--	55562	--
M24 x 2.0	--	--	--	55563	--
M24 x 3.0	--	--	--	55564	--
M25 x 1.5	--	--	--	55565	--
M27 x 3.0	--	--	--	--	55667
M30 x 3.5	--	--	--	--	55669

NPT, NPS & NH Round Pipe Dies

Right Hand High Speed Steel



Size	Threads per Inch	O/D	NPT	NPS	NH
1/16"	27	1"	40500	40504	--
1/8"	27	1"	40520	40524	--
1/8"	27	1.1/2"	40530	--	--
1/4"	18	1.1/2"	40550	40554	--
3/8"	18	1.1/2"	40580	40584	--
1/2"	14	2"	40610	40614	--
3/4"	14	2"	40640	40644	--
3/4"	11½	2"	--	--	40670
1"	11½	2.1/2"	40680	40684	--
1.1/4"	11½	3"	40710	40714	--
1.1/2"	11½	4"	40730	40734	--
2"	11½	4"	40750	40754	--

NPT & NPS Hex Rethreading Pipe Dies

Right Hand High Speed Steel



Size	Threads per Inch	Across Flats	Thickness	NPT	NPS
1/16"	27	.8200"	.297"	40800	--
1/8"	27	.9200"	.344"	40810	40814
1/4"	18	1.0625"	.437"	40820	40824
3/8"	18	1.250"	.562"	40830	40834
1/2"	14	1.4375"	.687"	40840	40844
3/4"	14	1.8125"	.875"	40850	40854
1"	11½	2.1875"	.937"	40870	40874
1.1/4"	11½	2.1875"	.937"	40880	40884
1.1/2"	11½	3.1250"	1.125"	40890	40894
2"	11½	3.5000"	1.125"	40900	40904

British

BSW & BSF Taps & Dies

Right Hand High Speed Steel 55° Full Form Whitworth



Size	Taper EDP #	Plug EDP #	Bott. EDP #	Set	O/D of Round Die	Round Die EDP #	Hex Die EDP #
1/8-40 BSW	43001	43002	43003	43004	13/16"	43006	--
3/16-24 BSW	43011	43012	43013	43014	13/16"	43016	--
3/16-32 BSF	43021	43022	43023	43024	13/16"	43026	--
1/4"-20 BSW	43031	43032	43033	43034	1"	43036	43037
1/4"-26 BSF	43041	43042	43043	43044	1"	43046	43047
5/16-18 BSW	43051	43052	43053	43054	1"	43056	43057
5/16-22 BSF	43061	43062	43063	43064	1"	43066	43067
3/8-16 BSW	43071	43072	43073	43074	1"	43076	43077
3/8-20 BSF	43081	43082	43083	43084	1"	43086	43087
7/16-14 BSW	43091	43092	43093	43094	1.1/2"	43096	43097
7/16-18 BSF	43101	43102	43103	43104	1.1/2"	43106	43107
1/2-12 BSW	43111	43112	43113	43114	1.1/2"	43116	43117
1/2-16 BSF	43121	43122	43123	43124	1.1/2"	43126	43127
9/16-12 BSW	43131	43132	43133	43134	1.1/2"	43136	43137
9/16-16 BSF	43141	43142	43143	43144	1.1/2"	43146	43147
5/8-11 BSW	43151	43152	43153	43154	1.1/2"	43156	43157
5/8-14 BSF	43161	43162	43163	43164	1.1/2"	43166	43167
3/4-10 BSW	43171	43172	43173	43174	2"	43176	43177
3/4-12 BSF	43181	43182	43183	43184	2"	43186	43187
7/8-9 BSW	43191	43192	43193	43194	2"	43196	43197
7/8-11 BSF	43201	43202	43203	43204	2"	43206	43207
1"-8 BSW	43211	43212	43213	43214	2"	43216	43217
1"-10 BSF	43221	43222	43223	43224	2"	43226	43227
1.1/8"-7 BSW	43231	43232	43233	43234	3"	43236	43237
1.1/8"-9 BSF	43241	43242	43243	43244	3"	43246	43247

BSW & BSF Taps & Dies

Right Hand High Speed Steel 55° Full Form Whitworth

Size	Taper EDP #	Plug EDP #	Bott. EDP #	Set	O/D of Round Die	Round Die EDP #	Hex Die EDP #
1.1/4"-7 BSW	43251	43252	43253	43254	3"	43256	43257
1.1/4"-9 BSF	43261	43262	43263	43264	3"	43266	43267
1.3/8"-6 BSW	43271	43272	43273	43274	3"	43276	43277
1.3/8"-8 BSF	43281	43282	43283	43284	3"	43286	43287
1.1/2"-6 BSW	43291	43292	43293	43294	3"	43296	43297
1.1/2"-8 BSF	43301	43302	43303	43304	3"	43306	43307
1.5/8"-5 BSW	43311	43312	43313	43314	--	--	--
1.5/8"-8 BSF	43321	43322	43323	43324	--	--	--
1.3/4"-5 BSW	43331	43332	43333	43334	--	--	--
1.3/4"-7 BSF	43341	43342	43343	43344	--	--	--
2"-4½ BSW	43351	43352	43353	43354	--	--	--
2"-7 BSF	43361	43362	43363	43364	--	--	--

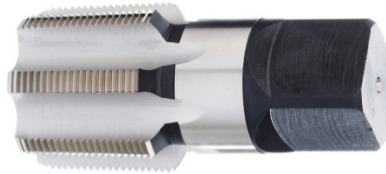
Left Hand and other British pitches available on request

British Association Taps & Dies

Right Hand High Speed Steel 47½° Full Form Thread

BA No.	Diameter in Inches	Threads per Inch	Taper EDP #	Plug EDP #	Bott. EDP #	Set EDP #	13/16" O/D Round Die EDP #
0	0.2362"	25.4	43401	43402	43403	43404	43406
1	0.2087"	28.2	43411	43412	43413	43414	43416
2	0.1850"	31.4	43421	43422	43423	43424	43426
3	0.1614"	34.8	43431	43432	43433	43434	43436
4	0.1417"	38.5	43441	43442	43443	43444	43446
5	0.1260"	43.0	43451	43452	43453	43454	43456
6	0.1102"	47.9	43461	43462	43463	43464	43466
7	0.0984"	52.9	43471	43472	43473	43474	43476
8	0.0866"	59.1	43481	43482	43483	43484	43486
9	0.0748"	65.1	43491	43492	43493	43494	43496
10	0.0669"	72.6	43501	43502	43503	43504	43506

BSPT British Taper Pipe Taps
Right Hand High Speed Steel Bottoming Only
 Full Form Whitworth



Size	Threads per Inch	EDP #	Basic Major Diameter Inches	Metric Equivalent	Overall Length	Length of Thread	Shank Diameter	Size of Square	Length of Square
1/16"	28	42001	0.304	7.7 x 0.91	2.1/8"	11/16"	0.3125	0.234	3/8"
1/8"	28	42006	0.383	9.7 x 0.91	2.1/8"	3/4"	0.4375	0.328	3/8"
1/4"	19	42011	0.518	13.2 x 1.34	2.7/16"	1.1/16"	0.5625	0.421	7/16"
3/8"	19	42016	0.656	16.7 x 1.34	2.9/16"	1.1/16"	0.7000	0.531	1/2"
1/2"	14	42021	0.825	21.0 x 1.81	3.1/8"	1.3/8"	0.6875	0.515	5/8"
3/4"	14	42031	1.041	26.4 x 1.81	3.1/4"	1.3/8"	0.9093	0.679	11/16"
1"	11	42041	1.309	33.2 x 2.31	3.3/4"	1.3/4"	0.9093	0.843	13/16"
1.1/4"	11	42046	1.650	41.9 x 2.31	4"	1.3/4"	1.3125	0.984	15/16"
1.1/2"	11	42051	1.882	47.8 x 2.31	4.1/4"	1.3/4"	1.5000	1.125	1"
2"	11	42056	2.347	59.6 x 2.31	4.1/2"	1.3/4"	1.8750	1.406	1.1/8"

BSPP & BSPT British Pipe Dies Round & Hex Rethreading Dies

Right Hand High Speed Steel

55° Full Form Whitworth



Size	Threads per Inch	O/D	BSPP Round Dies	BSPT Round Dies	BSPP Hex Rethreading Dies
1/8"	28	1"	42505	42506	42905
1/4"	19	1.1/2"	42510	42511	42910
3/8"	19	1.1/2"	42515	42516	42915
1/2"	14	2"	42520	42521	42920
5/8"	14	2"	42025	--	42925
3/4"	14	2"	42530	42531	42930
7/8"	14	2.1/2"	42535	--	--
1"	11	2.1/2"	42540	--	42940
1.1/4"	11	3"	42545	--	42945
1.1/2"	11	4"	42550	--	42950
1.3/4"	11	4"	42570	--	--
2"	11	4"	42555	--	--

British Pipe Tap Drill Sizes

Size	Tap Drill Sizes			
	BSPP Inches	BSPP Metric	BSPT Inches	BSPT Metric
1/8"	11/32"	8.8	21/64"	8.4
1/4"	29/64"	11.8	7/16"	11.2
3/8"	19/32"	15.25	37/64"	14.75
1/2"	3/4"	19	23/32"	18.25
5/8"	53/64"	21	15/16"	23.75
3/4"	31/32"	24.5	1.11/64"	30
7/8"	1.7/64"	28.25	1.33/64"	38.5
1"	1.13/64"	30.75	1.3/4"	44.5
1.1/4"	1.35/64"	39.5	2.3/16"	56
1.1/2"	1.25/32"	45.5		
1.3/4"	2"	51		
2"	2.1/4"	57		
2.1/4"		63		
2.1/2"		72		
3"		85		

Reamers

Standard Straight Shank Straight Flute Chucking Reamer Dimension Table High Speed Steel



Size	Decimal Equiv.	# of Flutes	Flute Length	Overall Length	Shank Dia.
#80	0.0135	2	3/8"	3/4"	.0135"
#79	0.0145	2	3/8"	3/4"	.0145"
1/64"	0.0156	2	3/8"	3/4"	.0156"
#78	0.0160	2	3/8"	7/8"	.0160"
#77	0.0180	2	3/8"	7/8"	.0180"
#76	0.0200	2	3/8"	7/8"	.0200"
#75	0.0210	3	1/2"	1"	.0210"
#74	0.0225	3	1/2"	1"	.0225"
#73	0.0240	3	1/2"	1.1/8"	.0240"
#72	0.0250	3	1/2"	1.1/8"	.0250"
#71	0.0260	3	1/2"	1.1/4"	.0260"
#70	0.0280	3	1/2"	1.1/4"	.0280"
#69	0.0292	3	1/2"	1.3/8"	.0292"
#68	0.0310	3	1/2"	1.3/8"	.0310"
1/32"	0.0312	3	1/2"	1.3/8"	.0312"
#67	0.0320	3	1/2"	1.3/8"	.0320"
#66	0.0330	3	1/2"	1.3/8"	.0330"
#65	0.0350	3	1/2"	1.1/2"	.0350"
#64	0.0360	3	1/2"	1.1/2"	.0360"
#63	0.0370	3	1/2"	1.1/2"	.0370"
#62	0.0380	3	1/2"	1.1/2"	.0380"
#61	0.0390	3	1/2"	1.5/8"	.0390"
1mm	0.0394	4	1/2"	2.1/2"	.0390"
#60	0.0400	4	1/2"	2.1/2"	.0390"
#59	0.0410	4	1/2"	2.1/2"	.0390"
#58	0.0420	4	1/2"	2.1/2"	.0390"
#57	0.0430	4	1/2"	2.1/2"	.0390"
#56	0.0465	4	1/2"	2.1/2"	.0455"
3/64"	0.0469	4	1/2"	2.1/2"	.0455"
#55	0.0520	4	1/2"	2.1/2"	.0510"
#54	0.0550	4	1/2"	2.1/2"	.0510"
1.5mm	0.0591	4	1/2"	2.1/2"	.0510"

Size	Decimal Equiv.	# of Flutes	Flute Length	Overall Length	Shank Dia.
#53	0.0595	4	1/2"	2.1/2"	.0585"
1/16"	0.0625	4	1/2"	2.1/2"	.0585"
#52	0.0635	4	1/2"	2.1/2"	.0585"
#51	0.0670	4	3/4"	3"	.0660"
#50	0.0700	4	3/4"	3"	.0660"
#49	0.0730	4	3/4"	3"	.0660"
#48	0.0760	4	3/4"	3"	.0720"
5/64"	0.0781	4	3/4"	3"	.0720"
#47	0.0785	4	3/4"	3"	.0720"
2mm	0.0787	4	3/4"	3"	.0720"
#46	0.0810	4	3/4"	3"	.0771"
#45	0.0820	4	3/4"	3"	.0771"
#44	0.0860	4	3/4"	3"	.0810"
#43	0.0890	4	3/4"	3"	.0810"
#42	0.0935	4	3/4"	3"	.0880"
3/32"	0.0938	4	3/4"	3"	.0880"
#41	0.0960	4	7/8"	3.1/2"	.0928"
#40	0.0980	4	7/8"	3.1/2"	.0928"
2.5mm	0.0984	4	7/8"	3.1/2"	.0928"
#39	0.0995	4	7/8"	3.1/2"	.0928"
#38	0.1015	4	7/8"	3.1/2"	.0950"
#37	0.1040	4	7/8"	3.1/2"	.0950"
#36	0.1065	4	7/8"	3.1/2"	.1030"
7/64"	0.1094	4	7/8"	3.1/2"	.1030"
#35	0.1100	4	7/8"	3.1/2"	.1030"
#34	0.1110	4	7/8"	3.1/2"	.1055"
#33	0.1130	4	7/8"	3.1/2"	.1055"
#32	0.1160	4	7/8"	3.1/2"	.1120"
3mm	0.1181	4	7/8"	3.1/2"	.1120"
#31	0.1200	4	7/8"	3.1/2"	.1120"
D/P	0.1230	4	7/8"	3.1/2"	.1190"
O/U	0.1240	4	7/8"	3.1/2"	.1190"

Standard Straight Shank Straight Flute Chucking Reamer Dimension Table

High Speed Steel

Size	Decimal Equiv.	# of Flutes	Flute Length	Overall Length	Shank Dia.
D/P	0.1247	4	7/8"	3.1/2"	.1190"
1/8"	0.1250	4	7/8"	3.1/2"	.1190"
O/U	0.1260	4	7/8"	3.1/2"	.1190"
#30	0.1285	4	7/8"	3.1/2"	.1190"
#29	0.1360	4	1"	4"	.1275"
3.5mm	0.1378	4	1"	4"	.1350"
#28	0.1405	4	1"	4"	.1350"
9/64"	0.1406	4	1"	4"	.1350"
#27	0.1440	4	1"	4"	.1350"
#26	0.1470	4	1"	4"	.1430"
#25	0.1495	4	1"	4"	.1430"
#24	0.1520	4	1"	4"	.1460"
#23	0.1540	4	1"	4"	.1460"
5/32"	0.1562	4	1"	4"	.1510"
#22	0.1570	4	1"	4"	.1510"
4mm	0.1575	6	1.1/8"	4"	.1510"
#21	0.1590	6	1.1/8"	4.1/2"	.1530"
#20	0.1610	6	1.1/8"	4.1/2"	.1530"
#19	0.1660	6	1.1/8"	4.1/2"	.1595"
#18	0.1695	6	1.1/8"	4.1/2"	.1595"
11/64"	0.1719	6	1.1/8"	4.1/2"	.1645"
#17	0.1730	6	1.1/8"	4.1/2"	.1645"
#16	0.1770	6	1.1/8"	4.1/2"	.1704"
4.5mm	0.1772	6	1.1/8"	4.1/2"	.1704"
#15	0.1800	6	1.1/8"	4.1/2"	.1755"
#14	0.1820	6	1.1/8"	4.1/2"	.1755"
#13	0.1850	6	1.1/8"	4.1/2"	.1805"
D/P	0.1855	6	1.1/8"	4.1/2"	.1805"
O/U	0.1865	6	1.1/8"	4.1/2"	.1805"
D/P	0.1870	6	1.1/8"	4.1/2"	.1805"
3/16"	0.1875	6	1.1/8"	4.1/2"	.1805"
O/U	0.1885	6	1.1/8"	4.1/2"	.1805"
#12	0.1890	6	1.1/8"	4.1/2"	.1805"
#11	0.1910	6	1.1/4"	5"	.1860"
#10	0.1935	6	1.1/4"	5"	.1860"

Size	Decimal Equiv.	# of Flutes	Flute Length	Overall Length	Shank Dia.
#9	0.1960	6	1.1/4"	5"	.1895"
5mm	0.1969	6	1.1/4"	5"	.1895"
#8	0.1990	6	1.1/4"	5"	.1895"
#7	0.2010	6	1.1/4"	5"	.1945"
13/64"	0.2031	6	1.1/4"	5"	.1945"
#6	0.2040	6	1.1/4"	5"	.1945"
#5	0.2055	6	1.1/4"	5"	.2016"
#4	0.2090	6	1.1/4"	5"	.2016"
#3	0.2130	6	1.1/4"	5"	.2075"
5.5mm	0.2165	6	1.1/4"	5"	.2075"
7/32"	0.2188	6	1.1/4"	5"	.2075"
#2	0.2210	6	1.1/2"	6"	.2173"
#1	0.2280	6	1.1/2"	6"	.2173"
A	0.2340	6	1.1/2"	6"	.2265"
15/64"	0.2344	6	1.1/2"	6"	.2265"
6mm	0.2362	6	1.1/2"	6"	.2265"
B	0.2380	6	1.1/2"	6"	.2329"
C	0.2420	6	1.1/2"	6"	.2329"
D	0.2460	6	1.1/2"	6"	.2329"
D/P	0.2480	6	1.1/2"	6"	.2405"
O/U	0.2490	6	1.1/2"	6"	.2405"
D/P	0.2495	6	1.1/2"	6"	.2405"
1/4" E	0.2500	6	1.1/2"	6"	.2405"
O/U	0.2510	6	1.1/2"	6"	.2405"
6.5mm	0.2559	6	1.1/2"	6"	.2405"
F	0.2570	6	1.1/2"	6"	.2485"
G	0.2610	6	1.1/2"	6"	.2485"
17/64"	0.2656	6	1.1/2"	6"	.2485"
H	0.2660	6	1.1/2"	6"	.2485"
I	0.2720	6	1.1/2"	6"	.2485"
7mm	0.2756	6	1.1/2"	6"	.2485"
J	0.2770	6	1.1/2"	6"	.2485"
K	0.2810	6	1.1/2"	6"	.2485"
9/32"	0.2812	6	1.1/2"	6"	.2485"
L	0.2900	6	1.1/2"	6"	.2792"

Standard Straight Shank Straight Flute Chucking Reamer Dimension Table

High Speed Steel

Size	Decimal Equiv.	# of Flutes	Flute Length	Overall Length	Shank Dia.
M	0.2950	6	1.1/2"	6"	.2792"
7.5mm	0.2953	6	1.1/2"	6"	.2792"
19/64"	0.2969	6	1.1/2"	6"	.2792"
N	0.3020	6	1.1/2"	6"	.2792"
D/P	0.3105	6	1.1/2"	6"	.2792"
O/U	0.3115	6	1.1/2"	6"	.2792"
D/P	0.3120	6	1.1/2"	6"	.2792"
5/16"	0.3125	6	1.1/2"	6"	.2792"
O/U	0.3135	6	1.1/2"	6"	.2792"
8mm	0.3150	6	1.1/2"	6"	.2792"
O	0.3160	6	1.1/2"	6"	.2792"
P	0.3230	6	1.1/2"	6"	.2792"
21/64"	0.3281	6	1.1/2"	6"	.2792"
Q	0.3320	6	1.1/2"	6"	.2792"
8.5mm	0.3346	6	1.1/2"	6"	.2792"
R	0.3390	6	1.1/2"	6"	.2792"
11/32"	0.3438	6	1.1/2"	6"	.2792"
S	0.3480	6	1.3/4"	7"	.3105"
9mm	0.3543	6	1.3/4"	7"	.3105"
T	0.3580	6	1.3/4"	7"	.3105"
23/64"	0.3594	6	1.3/4"	7"	.3105"
U	0.3680	6	1.3/4"	7"	.3105"
D/P	0.3730	6	1.3/4"	7"	.3105"
9.5mm	0.3740	6	1.3/4"	7"	.3105"
O/U	0.3740	6	1.3/4"	7"	.3105"
D/P	0.3745	6	1.3/4"	7"	.3105"
3/8"	0.3750	6	1.3/4"	7"	.3105"
O/U	0.3760	6	1.3/4"	7"	.3105"
V	0.3770	6	1.3/4"	7"	.3105"
W	0.3860	6	1.3/4"	7"	.3105"
25/64"	0.3906	6	1.3/4"	7"	.3105"
10mm	0.3937	6	1.3/4"	7"	.3105"
X	0.3970	6	1.3/4"	7"	.3105"
Y	0.4040	6	1.3/4"	7"	.3105"
13/32"	0.4062	6	1.3/4"	7"	.3105"

Size	Decimal Equiv.	# of Flutes	Flute Length	Overall Length	Shank Dia.
Z	0.4130	6	1.3/4"	7"	.3730"
10.5mm	0.4134	6	1.3/4"	7"	.3730"
27/64"	0.4219	6	1.3/4"	7"	.3730"
11mm	0.4331	6	1.3/4"	7"	.3730"
D/P	0.4355	6	1.3/4"	7"	.3730"
O/U	0.4365	6	1.3/4"	7"	.3730"
D/P	0.4370	6	1.3/4"	7"	.3730"
7/16"	0.4375	6	1.3/4"	7"	.3730"
O/U	0.4385	6	1.3/4"	7"	.3730"
11.5mm	0.4528	6	1.3/4"	7"	.3730"
29/64"	0.4531	6	1.3/4"	7"	.3730"
15/32"	0.4688	6	1.3/4"	7"	.3730"
12mm	0.4724	6	1.3/4"	7"	.4355"
31/64"	0.4844	6	2"	8"	.4355"
12.5mm	0.4921	6	2"	8"	.4355"
D/P	0.4980	6	2"	8"	.4355"
O/U	0.4990	6	2"	8"	.4355"
D/P	0.4995	6	2"	8"	.4355"
1/2"	0.5000	6	2"	8"	.4355"
O/U	0.5010	6	2"	8"	.4355"
13mm	0.5118	6	2"	8"	.4355"
33/64"	0.5156	6	2"	8"	.4355"
17/32"	0.5312	6	2"	8"	.4355"
13.5mm	0.5315	6	2"	8"	.4355"
35/64"	0.5469	6	2"	8"	.4355"
14mm	0.5512	6	2"	8"	.4355"
9/16"	0.5625	6	2"	8"	.4355"
14.5mm	0.5709	6	2"	8"	.4355"
37/64"	0.5781	6	2"	8"	.4355"
15mm	0.5906	6	2"	8"	.4355"
19/32"	0.5938	6	2"	8"	.4355"
39/64"	0.6094	6	2"	8"	.4355"
15.5mm	0.6102	8	2.1/4"	9"	.5620"
5/8"	0.6250	8	2.1/4"	9"	.5620"
16mm	0.6299	8	2.1/4"	9"	.5620"

Standard Straight Shank Straight Flute Chucking Reamer Dimension Table

High Speed Steel

Size	Decimal Equiv.	# of Flutes	Flute Length	Overall Length	Shank Dia.
41/64"	0.6406	8	2.1/4"	9"	.5620"
16.5mm	0.6496	8	2.1/4"	9"	.5620"
21/32"	0.6562	8	2.1/4"	9"	.5620"
17mm	0.6693	8	2.1/4"	9"	.5620"
43/64"	0.6719	8	2.1/4"	9"	.5620"
11/16"	0.6875	8	2.1/4"	9"	.5620"
17.5mm	0.6890	8	2.1/4"	9"	.5620"
45/64"	0.7031	8	2.1/4"	9"	.5620"
18mm	0.7087	8	2.1/4"	9"	.5620"
23/32"	0.7188	8	2.1/4"	9"	.5620"
18.5mm	0.7283	8	2.1/2"	9½"	.5620"
47/64"	0.7344	8	2.1/4"	9"	.5620"
19mm	0.7480	8	2.1/2"	9½"	.6245"
3/4"	0.7500	8	2.1/2"	9.1/2"	.6245"
49/64"	0.7656	8	2.1/2"	9.1/2"	.6245"
19.5mm	0.7677	8	2.1/2"	9.1/2"	.6245"
25/32"	0.7812	8	2.1/2"	9.1/2"	.6245"
20mm	0.7874	8	2.1/2"	9.1/2"	.6245"
51/64"	0.7969	8	2.1/2"	9.1/2"	.6245"
20.5mm	0.8071	8	2.1/2"	9.1/2"	.6245"
13/16"	0.8125	8	2.1/2"	9.1/2"	.6245"
21mm	0.8268	8	2.1/2"	9.1/2"	.6245"

Size	Decimal Equiv.	# of Flutes	Flute Length	Overall Length	Shank Dia.
53/64"	0.8281	8	2.1/2"	9.1/2"	.6245"
27/32"	0.8438	8	2.1/2"	9.1/2"	.6245"
21.5mm	0.8465	8	2.5/8"	9.1/2"	.7495"
55/64"	0.8594	8	2.1/2"	9.1/2"	.7495"
22mm	0.8661	8	2.1/2"	9.1/2"	.7495"
7/8"	0.8750	8	2.5/8"	10"	.7495"
22.5mm	0.8858	8	2.5/8"	10"	.7495"
57/64"	0.8906	8	2.5/8"	10"	.7495"
23mm	0.9055	8	2.5/8"	10"	.7495"
29/32"	0.9062	8	2.5/8"	10"	.7495"
59/64"	0.9219	8	2.5/8"	10"	.7495"
23.5mm	0.9252	8	2.5/8"	10"	.7495"
15/16"	0.9375	8	2.5/8"	10"	.7495"
24mm	0.9449	8	2.5/8"	10"	.7495"
61/64"	0.9531	8	2.5/8"	10"	.7495"
24.5mm	0.9646	8	2.5/8"	10"	.7495"
31/32"	0.9688	8	2.5/8"	10"	.7495"
25mm	0.9842	8	2.3/4"	10.1/2"	.8745"
63/64"	0.9844	8	2.5/8"	10.1/2"	.8745"
1"	1.0000	8	2.3/4"	10.1/2"	.8745"
25.5mm	1.0039	10	2.3/4"	10.1/2"	.8745"
26mm	1.0236	10	2.3/4"	10.1/2"	.8745"

Straight Shank Straight Flute Chucking Reamers

High Speed Steel



Size	Inch	MM	EDP #
#80	0.0135	0.3420	80135
#79	0.0145	0.3680	80145
1/64"	0.0156	0.3960	80156
#78	0.0160	0.4060	80160
#77	0.0180	0.4570	80180
	0.0195	0.4950	80195
#76	0.0200	0.5080	80200
#75	0.0210	0.5330	80210
#74	0.0225	0.5710	80225
#73	0.0240	0.6090	80240
#72	0.0250	0.6350	80250
#71	0.0260	0.6600	80260
	0.0270	0.6860	80270
#70	0.0280	0.7110	80280
#69	0.0292	0.7410	80292
	0.0295	0.7490	80295
	0.0300	0.7620	80300
	0.0305	0.7740	80305
#68	0.0310	0.7870	80310
1/32"	0.0312	0.7920	80312
	0.0315	0.8000	80315
#67	0.0320	0.8120	80320
	0.0325	0.8250	80325
#66	0.0330	0.8380	80330
	0.0335	0.8510	80335
	0.0340	0.8630	80340
#65	0.0350	0.8890	80350
	0.0355	0.9010	80355
#64	0.0360	0.9140	80360
	0.0365	0.9270	80365
#63	0.0370	0.9390	80370
#62	0.0380	0.9650	80380

Size	Inch	MM	EDP #
	0.0385	0.9770	80385
#61	0.0390	0.9900	80390
1.0mm	0.0394	1.0000	80394
	0.0395	1.0030	80395
#60	0.0400	1.0160	80400
	0.0405	1.0280	80405
#59	0.0410	1.0410	80410
	0.0415	1.0540	80415
#58	0.0420	1.0660	80420
	0.0425	1.0790	80425
#57	0.0430	1.0920	80430
	0.0435	1.1040	80435
	0.0440	1.1170	80440
	0.0445	1.1300	80445
	0.0450	1.1430	80450
	0.0453	1.1500	80453
	0.0455	1.1560	80455
	0.0460	1.1680	80460
#56	0.0465	1.1810	80465
3/64"	0.0469	1.1910	80469
	0.0470	1.1930	80470
	0.0473	1.2010	80473
	0.0475	1.2060	80475
	0.0480	1.2190	80480
	0.0485	1.2310	80485
	0.0490	1.2440	80490
	0.0495	1.2570	80495
	0.0500	1.2700	80500
	0.0505	1.2820	80505
	0.0510	1.2950	80510
	0.0515	1.3080	80515
#55	0.0520	1.3200	80520

Straight Shank Straight Flute Chucking Reamers

High Speed Steel

Size	Inch	MM	EDP #
	0.0525	1.3330	80525
	0.0530	1.3460	80530
	0.0535	1.3580	80535
	0.0540	1.3710	80540
	0.0545	1.3840	80545
#54	0.0550	1.3970	80550
	0.0555	1.4090	80555
	0.0560	1.4220	80560
	0.0565	1.4350	80565
	0.0570	1.4470	80570
	0.0575	1.4600	80575
	0.0580	1.4730	80580
	0.0585	1.4850	80585
	0.0590	1.4960	80590
1.5mm	0.0591	1.5000	80591
#53	0.0595	1.5110	80595
	0.0600	1.5240	80600
	0.0605	1.5360	80605
	0.0610	1.5490	80610
	0.0612	1.5540	80612
	0.0615	1.5620	80615
	0.0617	1.5670	80617
	0.0620	1.5740	80620
	0.0621	1.5770	80621
	0.0622	1.5790	80622
	0.0623	1.5820	80623
1/16"	0.0625	1.5870	80625
	0.0627	1.5920	80627
	0.0630	1.6000	80630
	0.0632	1.6050	80632
#52	0.0635	1.6120	80635
	0.0637	1.6170	80637
	0.0640	1.6250	80640
	0.0642	1.6300	80642
	0.0645	1.6380	80645
	0.0647	1.6430	80647

Size	Inch	MM	EDP #
	0.0650	1.6510	80650
	0.0652	1.6560	80652
	0.0655	1.6630	80655
	0.0657	1.6680	80657
	0.0660	1.6760	80660
	0.0662	1.6810	80662
	0.0665	1.6890	80665
	0.0667	1.6940	80667
#51	0.0670	1.7010	80670
	0.0672	1.7060	80672
	0.0675	1.7140	80675
	0.0677	1.7190	80677
	0.0680	1.7270	80680
	0.0682	1.7320	80682
	0.0685	1.7390	80685
	0.0690	1.7520	80690
	0.0695	1.7650	80695
#50	0.0700	1.7780	80700
	0.0702	1.7830	80702
	0.0705	1.7900	80705
	0.0707	1.7960	80707
	0.0710	1.8030	80710
	0.0715	1.8160	80715
	0.0720	1.8280	80720
	0.0722	1.8330	80722
	0.0725	1.8410	80725
	0.0727	1.8460	80727
#49	0.0730	1.8540	80730
	0.0735	1.8660	80735
	0.0737	1.8710	80737
	0.0740	1.8790	80740
	0.0745	1.8920	80745
	0.0747	1.8970	80747
	0.0750	1.9050	80750
	0.0752	1.9100	80752
	0.0755	1.9170	80755

Straight Shank Straight Flute Chucking Reamers

High Speed Steel

Size	Inch	MM	EDP #
	0.0757	1.9220	80757
#48	0.0760	1.9300	80760
	0.0765	1.9430	80765
	0.0767	1.9480	80767
	0.0770	1.9550	80770
	0.0775	1.9680	80775
	0.0777	1.9730	80777
	0.0780	1.9810	80780
5/64"	0.0781	1.9830	80781
	0.0782	1.9860	80782
	0.0784	1.9910	80784
#47	0.0785	1.9930	80785
2.0mm	0.0787	1.9980	80787
	0.0790	2.0060	80790
	0.0792	2.0110	80792
	0.0795	2.0190	80795
	0.0797	2.0240	80797
	0.0800	2.0320	80800
	0.0802	2.0370	80802
	0.0805	2.0440	80805
#46	0.0810	2.0570	80810
	0.0812	2.0620	80812
	0.0815	2.0700	80815
#45	0.0820	2.0820	80820
	0.0822	2.0870	80822
	0.0825	2.0950	80825
	0.0827	2.1000	80827
	0.0830	2.1080	80830
	0.0835	2.1200	80835
	0.0840	2.1330	80840
	0.0845	2.1460	80845
	0.0847	2.1510	80847
	0.0850	2.1590	80850
	0.0855	2.1710	80855
#44	0.0860	2.1840	80860
	0.0865	2.1970	80865

Size	Inch	MM	EDP #
	0.0867	2.2020	80867
	0.0870	2.2090	80870
	0.0872	2.2140	80872
	0.0875	2.2220	80875
	0.0880	2.2350	80880
	0.0885	2.2470	80885
	0.0887	2.2520	80887
#43	0.0890	2.2600	80890
	0.0895	2.2730	80895
	0.0900	2.2830	80900
	0.0902	2.2910	80902
	0.0905	2.2980	80905
	0.0907	2.3030	80907
	0.0910	2.3110	80910
	0.0912	2.3160	80912
	0.0915	2.3240	80915
	0.0917	2.3290	80917
	0.0920	2.3360	80920
	0.0922	2.3410	80922
	0.0925	2.3490	80925
	0.0927	2.3540	80927
	0.0930	2.3620	80930
	0.0931	2.3640	80931
	0.0932	2.3670	80932
	0.0933	2.3690	80933
#42	0.0935	2.3740	80935
3/32"	0.0938	2.3810	80938
	0.0940	2.3870	80940
	0.0942	2.3920	80942
	0.0945	2.4000	80945
	0.0947	2.4050	80947
	0.0950	2.4130	80950
	0.0952	2.4180	80952
	0.0955	2.4250	80955
	0.0957	2.4300	80957
#41	0.0960	2.4380	80960

Straight Shank Straight Flute Chucking Reamers

High Speed Steel

Size	Inch	MM	EDP #
	0.0962	2.4430	80962
	0.0965	2.4510	80965
	0.0970	2.4630	80970
	0.0972	2.4680	80972
	0.0975	2.4760	80975
	0.0977	2.4810	80977
#40	0.0980	2.4890	80980
2.5mm	0.0984	2.5000	80984
	0.0985	2.5010	80985
	0.0987	2.5060	80987
	0.0990	2.5140	80990
	0.0992	2.5190	80992
#39	0.0995	2.5270	80995
	0.0997	2.5320	80997
	0.1000	2.5400	81000
	0.1002	2.5450	81002
	0.1005	2.5520	81005
	0.1007	2.5570	81007
	0.1010	2.5650	81010
	0.1012	2.5700	81012
#38	0.1015	2.5780	81015
	0.1017	2.5830	81017
	0.1020	2.5900	81020
	0.1025	2.6030	81025
	0.1027	2.6080	81027
	0.1030	2.6160	81030
	0.1035	2.6280	81035
#37	0.1040	2.6410	81040
	0.1042	2.6460	81042
	0.1045	2.6540	81045
	0.1047	2.6590	81047
	0.1050	2.6670	81050
	0.1055	2.6790	81055
	0.1057	2.6840	81057
	0.1060	2.6920	81060
#36	0.1065	2.7050	81065

Size	Inch	MM	EDP #
	0.1067	2.7100	81067
	0.1070	2.7170	81070
	0.1075	2.7300	81075
	0.1080	2.7430	81080
	0.1082	2.7480	81082
	0.1083	2.7500	81083
	0.1085	2.7550	81085
	0.1087	2.7600	81087
	0.1090	2.7680	81090
7/64"	0.1094	2.7780	81094
	0.1095	2.7810	81095
	0.1097	2.7860	81097
#35	0.1100	2.7940	81100
	0.1102	2.7990	81102
	0.1105	2.8060	81105
	0.1107	2.8110	81107
#34	0.1110	2.8190	81110
	0.1112	2.8240	81112
	0.1115	2.8320	81115
	0.1120	2.8440	81120
	0.1125	2.8570	81125
#33	0.1130	2.8700	81130
	0.1132	2.8750	81132
	0.1135	2.8820	81135
	0.1140	2.8950	81140
	0.1145	2.9080	81145
	0.1150	2.9210	81150
	0.1152	2.9260	81152
	0.1155	2.9330	81155
#32	0.1160	2.9460	81160
	0.1165	2.9590	81165
	0.1167	2.9640	81167
	0.1170	2.9710	81170
	0.1175	2.9840	81175
	0.1180	2.9970	81180
3.0mm	0.1181	3.0000	81181

Straight Shank Straight Flute Chucking Reamers

High Speed Steel

Size	Inch	MM	EDP #
	0.1185	3.0090	81185
	0.1187	3.0140	81187
	0.1190	3.0220	81190
	0.1192	3.0270	81192
	0.1195	3.0350	81195
#31	0.1200	3.0480	81200
	0.1202	3.0530	81202
	0.1205	3.0600	81205
	0.1210	3.0730	81210
	0.1215	3.0860	81215
	0.1220	3.0980	81220
	0.1225	3.1110	81225
	0.1227	3.1160	81227
D/P	0.1230	3.1240	81230
	0.1232	3.1290	81232
	0.1235	3.1360	81235
	0.1237	3.1410	81237
O/U	0.1240	3.1490	81420
	0.1242	3.1540	81242
	0.1243	3.1570	81243
	0.1244	3.1590	81244
	0.1245	3.1620	81245
D/P	0.1247	3.1670	81247
	0.1249	3.1720	81249
1/8"	0.1250	3.1750	81250
	0.1252	3.1800	81252
	0.1253	3.1820	81253
	0.1255	3.1870	81255
	0.1257	3.1920	81257
	0.1258	3.1950	81258
O/U	0.1260	3.2000	81260
	0.1262	3.2050	81262
	0.1265	3.2130	81265
	0.1267	3.2180	81267
	0.1270	3.2250	81270
	0.1272	3.2300	81272

Size	Inch	MM	EDP #
	0.1275	3.2380	81275
	0.1277	3.2430	81277
	0.1280	3.2510	81280
	0.1282	3.2560	81282
#30	0.1285	3.2630	81285
	0.1287	3.2680	81287
	0.1290	3.2760	81290
	0.1292	3.2810	81292
	0.1295	3.2890	81295
	0.1297	3.2940	81297
	0.1300	3.3020	81300
	0.1305	3.3140	81305
	0.1310	3.3270	81310
	0.1315	3.3400	81315
	0.1320	3.3520	81320
	0.1322	3.3570	81322
	0.1325	3.3650	81325
	0.1330	3.3780	81330
	0.1335	3.3900	81335
	0.1340	3.4030	81340
	0.1345	3.4160	81345
	0.1350	3.4290	81350
	0.1355	3.4410	81355
	0.1357	3.4460	81357
#29	0.1360	3.4540	81360
	0.1362	3.4590	81362
	0.1365	3.4670	81365
	0.1370	3.4790	81370
	0.1375	3.4920	81375
	0.1377	3.4970	81377
3.5mm	0.1378	3.5000	81378
	0.1380	3.5050	81380
	0.1382	3.5100	81382
	0.1385	3.5170	81385
	0.1390	3.5300	81390
	0.1392	3.5350	81392

Straight Shank Straight Flute Chucking Reamers

High Speed Steel

Size	Inch	MM	EDP #
	0.1395	3.5430	81395
	0.1397	3.5480	81397
	0.1400	3.5560	81400
	0.1402	3.5610	81402
#28	0.1405	3.5680	81405
9/64"	0.1406	3.5710	81406
	0.1410	3.5810	81410
	0.1415	3.5940	81415
	0.1417	3.5990	81417
	0.1420	3.6060	81420
	0.1425	3.6190	81425
	0.1427	3.6240	81427
	0.1430	3.6320	81430
	0.1432	3.6370	81432
	0.1435	3.6440	81435
#27	0.1440	3.6570	81440
	0.1442	3.6630	81442
	0.1445	3.6700	81445
	0.1450	3.6830	81450
	0.1455	3.6950	81455
	0.1457	3.7000	81457
	0.1460	3.7080	81460
	0.1462	3.7130	81462
	0.1465	3.7210	81465
#26	0.1470	3.7330	81470
	0.1475	3.7460	81475
	0.1480	3.7590	81480
	0.1485	3.7710	81485
	0.1490	3.7840	81490
#25	0.1495	3.7970	81495
	0.1500	3.8100	81500
	0.1505	3.8220	81505
	0.1510	3.8350	81510
	0.1512	3.8400	81512
	0.1515	3.8480	81515
#24	0.1520	3.8600	81520

Size	Inch	MM	EDP #
	0.1525	3.8730	81525
	0.1530	3.8860	81530
	0.1535	3.8980	81535
	0.1537	3.9030	81537
#23	0.1540	3.9110	81540
	0.1542	3.9160	81542
	0.1545	3.9240	81545
	0.1548	3.9310	81548
	0.1550	3.9370	81550
	0.1552	3.9420	81552
	0.1555	3.9490	81555
	0.1557	3.9540	81557
	0.1560	3.9620	81560
5/32"	0.1562	3.9670	81562
	0.1565	3.9750	81565
	0.1567	3.9800	81567
#22	0.1570	3.9870	81570
	0.1572	3.9920	81572
4.0mm	0.1575	4.0000	81575
	0.1577	4.0050	81577
	0.1580	4.0130	81580
	0.1582	4.0180	81582
	0.1585	4.0250	81585
#21	0.1590	4.0380	81590
	0.1592	4.0430	81592
	0.1595	4.0510	81595
	0.1597	4.0560	81597
	0.1600	4.0640	81600
	0.1602	4.0690	81602
	0.1605	4.0760	81605
#20	0.1610	4.0890	81610
	0.1615	4.1020	81615
	0.1617	4.1070	81617
	0.1620	4.1140	81620
	0.1625	4.1270	81625
	0.1627	4.1320	81627

Straight Shank Straight Flute Chucking Reamers

High Speed Steel

Size	Inch	MM	EDP #
	0.1525	3.8730	81525
	0.1530	3.8860	81530
	0.1535	3.8980	81535
	0.1537	3.9030	81537
#23	0.1540	3.9110	81540
	0.1542	3.9160	81542
	0.1545	3.9240	81545
	0.1548	3.9310	81548
	0.1550	3.9370	81550
	0.1552	3.9420	81552
	0.1555	3.9490	81555
	0.1557	3.9540	81557
	0.1560	3.9620	81560
5/32"	0.1562	3.9670	81562
	0.1565	3.9750	81565
	0.1567	3.9800	81567
#22	0.1570	3.9870	81570
	0.1572	3.9920	81572
4.0mm	0.1575	4.0000	81575
	0.1577	4.0050	81577
	0.1580	4.0130	81580
	0.1582	4.0180	81582
	0.1585	4.0250	81585
#21	0.1590	4.0380	81590
	0.1592	4.0430	81592
	0.1595	4.0510	81595
	0.1597	4.0560	81597
	0.1600	4.0640	81600
	0.1602	4.0690	81602
	0.1605	4.0760	81605
#20	0.1610	4.0890	81610
	0.1615	4.1020	81615
	0.1617	4.1070	81617
	0.1620	4.1140	81620
	0.1625	4.1270	81625
	0.1627	4.1320	81627

Size	Inch	MM	EDP #
	0.1630	4.1400	81630
	0.1632	4.1450	81632
	0.1635	4.1520	81635
	0.1640	4.1650	81640
	0.1642	4.1700	81642
	0.1645	4.1780	81645
	0.1647	4.1830	81647
	0.1650	4.1910	81650
	0.1655	4.2030	81655
	0.1657	4.2080	81657
#19	0.1660	4.2160	81660
	0.1662	4.2210	81662
	0.1665	4.2290	81665
	0.1670	4.2410	81670
	0.1675	4.2540	81675
	0.1680	4.2670	81680
	0.1685	4.2790	81685
	0.1690	4.2920	81690
#18	0.1695	4.3050	81695
	0.1700	4.3180	81700
	0.1702	4.3230	81702
	0.1705	4.3300	81705
	0.1707	4.3350	81707
	0.1710	4.3430	81710
	0.1715	4.3560	81715
11/64"	0.1719	4.3660	81719
	0.1720	4.3680	81720
	0.1722	4.3730	81722
	0.1725	4.3810	81725
	0.1727	4.3860	81727
#17	0.1730	4.3940	81730
	0.1732	4.3990	81732
	0.1735	4.4060	81735
	0.1740	4.4190	81740
	0.1745	4.4320	81745
	0.1750	4.4450	81750

Straight Shank Straight Flute Chucking Reamers

High Speed Steel

Size	Inch	MM	EDP #
	0.1752	4.4500	81752
	0.1755	4.4570	81755
	0.1757	4.4630	81757
	0.1760	4.4700	81760
	0.1765	4.4830	81765
#16	0.1770	4.4950	81770
4.5mm	0.1772	4.5000	81772
	0.1775	4.5080	81775
	0.1777	4.5130	81777
	0.1780	4.5210	81780
	0.1785	4.5330	81785
	0.1787	4.5380	81787
	0.1790	4.5460	81790
	0.1795	4.5590	81795
#15	0.1800	4.5720	81800
	0.1802	4.5770	81802
	0.1805	4.5840	81805
	0.1810	4.5970	81810
	0.1815	4.6100	81815
#14	0.1820	4.6220	81820
	0.1822	4.6270	81822
	0.1825	4.6350	81825
	0.1830	4.6480	81830
	0.1832	4.6530	81832
	0.1835	4.6600	81835
	0.1840	4.6730	81840
	0.1845	4.6860	81845
#13	0.1850	4.6990	81850
D/P	0.1855	4.7110	81855
	0.1857	4.7160	81857
	0.1860	4.7240	81860
	0.1862	4.7290	81862
	0.1863	4.7320	81863
O/U	0.1865	4.7370	81865
	0.1867	4.7420	81867
D/P	0.1870	4.7490	81870

Size	Inch	MM	EDP #
	0.1872	4.7540	81872
	0.1873	4.7570	81873
3/16"	0.1875	4.7620	81875
	0.1877	4.7670	81877
	0.1880	4.7750	81880
	0.1882	4.7800	81882
O/U	0.1885	4.7870	81885
	0.1887	4.7920	81887
#12	0.1890	4.8000	81890
	0.1892	4.8050	81892
	0.1895	4.8130	81895
	0.1897	4.8180	81897
	0.1900	4.8260	81900
	0.1902	4.8310	81902
	0.1905	4.8380	81905
	0.1907	4.8430	81907
#11	0.1910	4.8510	81910
	0.1912	4.8560	81912
	0.1915	4.8640	81915
	0.1917	4.8690	81917
	0.1920	4.8760	81920
	0.1922	4.8810	81922
	0.1925	4.8890	81925
	0.1927	4.8940	81927
	0.1930	4.9020	81930
	0.1933	4.9090	81933
#10	0.1935	4.9140	81935
	0.1937	4.9190	81937
	0.1940	4.9270	81940
	0.1942	4.9320	81942
	0.1945	4.9400	81945
	0.1947	4.9450	81947
	0.1950	4.9530	81950
	0.1955	4.9650	81955
	0.1957	4.9700	81957
#9	0.1960	4.9780	81960

Straight Shank Straight Flute Chucking Reamers

High Speed Steel

Size	Inch	MM	EDP #
	0.1872	4.7540	81872
	0.1873	4.7570	81873
3/16"	0.1875	4.7620	81875
	0.1877	4.7670	81877
	0.1880	4.7750	81880
	0.1882	4.7800	81882
O/U	0.1885	4.7870	81885
	0.1887	4.7920	81887
#12	0.1890	4.8000	81890
	0.1892	4.8050	81892
	0.1895	4.8130	81895
	0.1897	4.8180	81897
	0.1900	4.8260	81900
	0.1902	4.8310	81902
	0.1905	4.8380	81905
	0.1907	4.8430	81907
#11	0.1910	4.8510	81910
	0.1912	4.8560	81912
	0.1915	4.8640	81915
	0.1917	4.8690	81917
	0.1920	4.8760	81920
	0.1922	4.8810	81922
	0.1925	4.8890	81925
	0.1927	4.8940	81927
	0.1930	4.9020	81930
	0.1933	4.9090	81933
#10	0.1935	4.9140	81935
	0.1937	4.9190	81937
	0.1940	4.9270	81940
	0.1942	4.9320	81942
	0.1945	4.9400	81945
	0.1947	4.9450	81947
	0.1950	4.9530	81950
	0.1955	4.9650	81955
	0.1957	4.9700	81957
#9	0.1960	4.9780	81960

Size	Inch	MM	EDP #
	0.1962	4.9830	81962
	0.1965	4.9910	81965
	0.1967	4.9960	81967
5.0mm	0.1969	5.0000	81969
	0.1970	5.0030	81970
	0.1972	5.0080	81972
	0.1975	5.0160	81975
	0.1980	5.0290	81980
	0.1985	5.0410	81985
	0.1987	5.0460	81987
#8	0.1990	5.0540	81990
	0.1995	5.0670	81995
	0.1997	5.0720	81997
	0.2000	5.0800	82000
	0.2005	5.0920	82005
#7	0.2010	5.1050	82010
	0.2015	5.1180	82015
	0.2017	5.1230	82017
	0.2020	5.1300	82020
	0.2025	5.1430	82025
	0.2030	5.1560	82030
13/64"	0.2031	5.1580	82031
	0.2032	5.1610	82032
	0.2035	5.1680	82035
#6	0.2040	5.1810	82040
	0.2045	5.1940	82045
	0.2050	5.2070	82050
#5	0.2055	5.2190	82055
	0.2060	5.2320	82060
	0.2065	5.2450	82065
	0.2067	5.2500	82067
	0.2070	5.2570	82070
	0.2072	5.2620	82072
	0.2075	5.2700	82075
	0.2080	5.2830	82080
	0.2082	5.2880	82082

Straight Shank Straight Flute Chucking Reamers

High Speed Steel

Size	Inch	MM	EDP #
	0.2085	5.2950	82085
	0.2087	5.3000	82087
#4	0.2090	5.3080	82090
	0.2092	5.3130	82092
	0.2095	5.3210	82095
	0.2100	5.3340	82100
	0.2105	5.3460	82105
	0.2110	5.3590	82110
	0.2115	5.3720	82115
	0.2120	5.3840	82120
	0.2125	5.3970	82125
#3	0.2130	5.4100	82130
	0.2135	5.4220	82135
	0.2137	5.4270	82137
	0.2140	5.4350	82140
	0.2145	5.4480	82145
	0.2150	5.4610	82150
	0.2152	5.4660	82152
	0.2155	5.4730	82155
	0.2160	5.4860	82160
5.5mm	0.2165	5.5000	82165
	0.2170	5.5110	82170
	0.2175	5.5240	82175
	0.2177	5.5290	82177
	0.2180	5.5370	82180
	0.2182	5.5420	82182
	0.2185	5.5490	82185
7/32"	0.2188	5.5560	82188
	0.2190	5.5620	82190
	0.2192	5.5670	82192
	0.2195	5.5750	82195
	0.2197	5.5800	82197
	0.2200	5.5880	82200
	0.2202	5.5930	82202
	0.2205	5.6000	82205
	0.2207	5.6060	82207

Size	Inch	MM	EDP #
#2	0.2210	5.6130	82210
	0.2215	5.6260	82215
	0.2220	5.6380	82220
	0.2222	5.6430	82222
	0.2225	5.6510	82225
	0.2227	5.6560	82227
	0.2230	5.6640	82230
	0.2232	5.6690	82232
	0.2235	5.6760	82235
	0.2240	5.6890	82240
	0.2242	5.6940	82242
	0.2245	5.7020	82245
	0.2247	5.7070	82247
	0.2250	5.7150	82250
	0.2255	5.7270	82255
	0.2260	5.7400	82260
	0.2265	5.7530	82265
	0.2270	5.7650	82270
	0.2275	5.7780	82275
#1	0.2280	5.7910	82280
	0.2285	5.8030	82285
	0.2287	5.8080	82287
	0.2290	5.8160	82290
	0.2295	5.8290	82295
	0.2297	5.8340	82297
	0.2300	5.8420	82300
	0.2302	5.8470	82302
	0.2305	5.8540	82305
	0.2310	5.8670	82310
	0.2312	5.8720	82312
	0.2315	5.8800	82315
	0.2320	5.8920	82320
	0.2325	5.9050	82325
	0.2330	5.9180	82330
	0.2332	5.9230	82332
	0.2335	5.9300	82335

Straight Shank Straight Flute Chucking Reamers

High Speed Steel

Size	Inch	MM	EDP #
	0.2337	5.9350	82337
A	0.2340	5.9430	82340
15/64"	0.2344	5.9530	82344
	0.2345	5.9560	82345
	0.2350	5.9690	82350
	0.2352	5.9740	82352
	0.2355	5.9810	82355
	0.2360	5.9940	82360
6mm	0.2362	6.0000	82362
	0.2365	6.0070	82365
	0.2370	6.0190	82370
	0.2375	6.0320	82375
B	0.2380	6.0450	82380
	0.2385	6.0570	82385
	0.2390	6.0700	82390
	0.2392	6.0750	82392
	0.2395	6.0830	82395
	0.2400	6.0960	82400
	0.2402	6.1010	82402
	0.2405	6.1080	82405
	0.2410	6.1210	82410
	0.2415	6.1340	82415
	0.2417	6.1390	82417
C	0.2420	6.1460	82420
	0.2425	6.1590	82425
	0.2430	6.1720	82430
	0.2435	6.1840	82435
	0.2437	6.1900	82437
	0.2438	6.1920	82438
	0.2440	6.1970	82440
	0.2442	6.2020	82442
	0.2445	6.2100	82445
	0.2450	6.2230	82450
	0.2455	6.2350	82455
	0.2457	6.2400	82457
D	0.2460	6.2480	82460

Size	Inch	MM	EDP #
	0.2465	6.2610	82465
	0.2467	6.2660	82467
	0.2470	6.2730	82470
	0.2475	6.2860	82475
	0.2477	6.2910	82477
D/P	0.2480	6.2990	82480
	0.2482	6.3040	82482
	0.2485	6.3110	82485
	0.2487	6.3160	82487
O/U	0.2490	6.3240	82490
	0.2492	6.3290	82492
D/P	0.2495	6.3370	82495
	0.2497	6.3420	82497
	0.2498	6.3440	82498
1/4" E	0.2500	6.3500	82500
	0.2502	6.3550	82502
	0.2505	6.3620	82505
	0.2507	6.3670	82507
	0.2508	6.3700	82508
O/U	0.2510	6.3750	82510
	0.2512	6.3800	82512
	0.2515	6.3880	82515
	0.2517	6.3930	82517
	0.2520	6.4000	82520
	0.2522	6.4050	82522
	0.2525	6.4130	82525
	0.2527	6.4180	82527
	0.2530	6.4260	82530
	0.2532	6.4310	82532
	0.2535	6.4380	82535
	0.2540	6.4510	82540
	0.2545	6.4640	82545
	0.2547	6.4690	82547
	0.2550	6.4770	82550
	0.2555	6.4890	82555
	0.2557	6.4940	82557

Straight Shank Straight Flute Chucking Reamers

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Size	Inch	MM	EDP #
6.5mm	0.2559	6.5000	82559
	0.2560	6.5020	82560
	0.2565	6.5150	82565
F	0.2570	6.5270	82570
	0.2575	6.5400	82575
	0.2580	6.5530	82580
	0.2590	6.5780	82590
	0.2598	6.5980	82598
	0.2600	6.6040	82600
	0.2605	6.6170	82605
G	0.2610	6.6290	82610
	0.2620	6.6540	82620
	0.2630	6.6800	82630
	0.2640	6.7050	82640
	0.2645	6.7180	82645
	0.2650	6.7310	82650
17/64"	0.2656	6.7460	82656
H	0.2660	6.7560	82660
	0.2665	6.7690	82665
	0.2670	6.7810	82670
	0.2680	6.8070	82680
	0.2685	6.8190	82685
	0.2690	6.8320	82690
	0.2700	6.8580	82700
	0.2705	6.8700	82705
	0.2710	6.8830	82710
	0.2715	6.8960	82715
I	0.2720	6.9080	82720
	0.2730	6.9340	82730
	0.2735	6.9460	82735
	0.2740	6.9590	82740
	0.2750	6.9850	82750
	0.2755	6.9970	82755
7.0mm	0.2756	7.0000	82756
	0.2760	7.0100	82760
J	0.2770	7.0350	82770

Size	Inch	MM	EDP #
	0.2775	7.0480	82775
	0.2780	7.0610	82780
	0.2790	7.0860	82790
	0.2795	7.0990	82795
	0.2800	7.1120	82800
	0.2802	7.1170	82802
	0.2805	7.1240	82805
K	0.2810	7.1370	82810
9/32"	0.2812	7.1420	82812
	0.2815	7.1500	82815
	0.2820	7.1620	82820
	0.2822	7.1670	82822
	0.2825	7.1750	82825
	0.2830	7.1880	82830
	0.2835	7.2000	82835
	0.2840	7.2130	82840
	0.2845	7.2260	82845
	0.2850	7.2390	82850
	0.2855	7.2510	82855
	0.2860	7.2640	82860
	0.2865	7.2770	82865
	0.2870	7.2890	82870
	0.2875	7.3020	82875
	0.2880	7.3150	82880
	0.2885	7.3270	82885
	0.2890	7.3400	82890
L	0.2900	7.3660	82900
	0.2905	7.3780	82905
	0.2910	7.3910	82910
	0.2915	7.4040	82915
	0.2920	7.4160	82920
	0.2925	7.4290	82925
	0.2935	7.4550	82935
	0.2940	7.4670	82940
M	0.2950	7.4930	82950
7.5mm	0.2953	7.5000	82953

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High Speed Steel

Size	Inch	MM	EDP #
	0.2960	7.5180	82960
19/64"	0.2969	7.5410	82969
	0.2980	7.5690	82980
	0.2985	7.5810	82985
	0.2990	7.5940	82990
	0.2995	7.6070	82995
	0.3000	7.6200	83000
	0.3005	7.6320	83005
	0.3010	7.6450	83010
	0.3015	7.6580	83015
N	0.3020	7.6700	83020
	0.3025	7.6830	83025
	0.3030	7.6960	83030
	0.3040	7.7210	83040
	0.3050	7.7470	83050
	0.3060	7.7720	83060
	0.3070	7.7970	83070
	0.3075	7.8100	83075
	0.3080	7.8230	83080
	0.3085	7.8350	83085
	0.3090	7.8480	83090
	0.3095	7.8610	83095
	0.3100	7.8740	83100
D/P	0.3105	7.8860	83105
	0.3110	7.8990	83110
	0.3112	7.9040	83112
O/U	0.3115	7.9120	83115
D/P	0.3120	7.9240	83120
	0.3122	7.9290	83122
	0.3124	7.9340	83124
5/16"	0.3125	7.9370	83125
	0.3127	7.9420	83127
	0.3129	7.9470	83129
	0.3130	7.9500	83130
O/U	0.3135	7.9620	83135

Size	Inch	MM	EDP #
	0.3140	7.9750	83140
	0.3145	7.9880	83145
8.0mm	0.3150	8.0000	83150
	0.3155	8.0130	83155
O	0.3160	8.0260	83160
	0.3165	8.0390	83165
	0.3170	8.0510	83170
	0.3175	8.0640	83175
	0.3180	8.0770	83180
	0.3190	8.1020	83190
	0.3200	8.1280	83200
	0.3210	8.1530	83210
	0.3220	8.1780	83220
P	0.3230	8.2040	83230
	0.3240	8.2290	83240
	0.3250	8.2550	83250
	0.3270	8.3050	83270
	0.3275	8.3180	83275
21/64"	0.3281	8.3330	83281
	0.3290	8.3560	83290
	0.3300	8.3820	83300
Q	0.3320	8.4320	83320
	0.3340	8.4830	83340
	0.3345	8.4960	83345
8.5mm	0.3346	8.5000	83346
	0.3360	8.5340	83360
	0.3370	8.5590	83370
	0.3380	8.5850	83380
R	0.3390	8.6100	83390
	0.3395	8.6230	83395
	0.3410	8.6610	83410
	0.3420	8.6860	83420
	0.3425	8.6990	83425
	0.3427	8.7040	83427
	0.3430	8.7120	83430

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Size	Inch	MM	EDP #
	0.3432	8.7170	83432
11/32"	0.3438	8.7310	83438
	0.3440	8.7370	83440
	0.3445	8.7500	83445
	0.3450	8.7630	83450
	0.3455	8.7750	83455
	0.3460	8.7880	83460
	0.3470	8.8130	83470
S	0.3480	8.8290	83480
	0.3485	8.8510	83480
	0.3490	8.8640	83490
	0.3500	8.8900	83500
	0.3505	8.9020	83505
	0.3510	8.9150	83510
	0.3515	8.9280	83515
	0.3520	8.9400	83520
	0.3530	8.9660	83530
	0.3540	8.9910	83540
9.0mm	0.3543	9.0000	83543
	0.3550	9.0170	83550
	0.3560	9.0420	83560
	0.3570	9.0670	83570
T	0.3580	9.0930	83580
23/64"	0.3594	9.1280	83594
	0.3600	9.1440	83600
	0.3605	9.1560	83605
	0.3610	9.1690	83610
	0.3620	9.1940	83620
	0.3625	9.2070	83625
	0.3630	9.2200	83630
	0.3640	9.2450	83640
	0.3650	9.2710	83650
	0.3660	9.2960	83660
	0.3665	9.3090	83665
U	0.3680	9.3470	83680

Size	Inch	MM	EDP #
	0.3685	9.3590	83685
	0.3690	9.3720	83690
	0.3700	9.3980	83700
	0.3705	9.4100	83705
	0.3710	9.4230	83710
	0.3715	9.4360	83715
	0.3720	9.4480	83720
	0.3725	9.4610	83725
D/P	0.3730	9.4740	83730
	0.3735	9.4860	83735
O/U	0.3740	9.4990	83740
9.5mm	0.3740	9.4990	83740
	0.3742	9.5040	83742
D/P	0.3745	9.5120	83745
	0.3747	9.5170	83747
	0.3748	9.5190	83748
3/8"	0.3750	9.5250	83750
	0.3752	9.5300	83752
	0.3755	9.5370	83755
	0.3757	9.5420	83757
O/U	0.3760	9.5500	83760
	0.3765	9.5630	83765
V	0.3770	9.5750	83770
	0.3775	9.5880	83775
	0.3777	9.5930	83777
	0.3780	9.6010	83780
	0.3785	9.6130	83780
	0.3790	9.6260	83790
	0.3800	9.6520	83800
	0.3805	9.6640	83805
	0.3810	9.6770	83810
	0.3813	9.6850	83813
	0.3820	9.7020	83820
	0.3825	9.7150	83825
	0.3830	9.7280	83830

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Size	Inch	MM	EDP #
	0.3840	9.7530	83840
	0.3850	9.7790	83850
	0.3855	9.7910	83855
W	0.3860	9.8040	83860
	0.3870	9.8290	83870
	0.3880	9.8550	83880
	0.3885	9.8670	83885
	0.3895	9.8930	83895
	0.3900	9.9060	83900
25/64"	0.3906	9.9210	83906
	0.3920	9.9560	83950
	0.3930	9.9820	83930
10.0mm	0.3937	10.0000	83937
	0.3940	10.0070	83940
	0.3950	10.0330	83950
X	0.3970	10.0830	83970
	0.3990	10.1340	83990
	0.3995	10.1470	83995
	0.4000	10.1600	84000
	0.4005	10.1720	84005
	0.4010	10.1850	84010
	0.4020	10.2100	84020
	0.4030	10.2360	84030
Y	0.4040	10.2610	84040
	0.4050	10.3870	84050
	0.4052	10.2920	84052
13/32"	0.4062	10.3170	84062
	0.4070	10.3370	84070
	0.4072	10.3420	84072
	0.4075	10.3500	84075
	0.4080	10.3630	84080
	0.4090	10.3880	84090
	0.4100	10.4140	84100
	0.4110	10.4390	84110
Z	0.4130	10.4900	84130
10.5mm	0.4134	10.5000	84134

Size	Inch	MM	EDP #
	0.4150	10.5410	84150
	0.4170	10.5910	84170
	0.4190	10.6420	84190
	0.4205	10.6800	84205
	0.4215	10.7060	84215
27/64"	0.4219	10.7160	84219
	0.4240	10.7690	84240
	0.4245	10.7820	84245
	0.4250	10.7950	84250
	0.4260	10.8200	84260
	0.4270	10.8450	84270
	0.4280	10.8710	84280
	0.4300	10.9220	84300
	0.4305	10.9340	84305
	0.4320	10.9720	84320
	0.4330	10.9980	84330
11.0mm	0.4331	11.0000	84331
	0.4340	11.0230	84340
	0.4345	11.0360	84345
	0.4350	11.0490	84350
D/P	0.4355	11.0610	84355
	0.4360	11.0740	84360
	0.4364	11.0840	84364
O/U	0.4365	11.0870	84365
D/P	0.4370	11.0990	84370
7/16"	0.4375	11.1120	84375
	0.4380	11.1250	84380
O/U	0.4385	11.1370	84385
	0.4390	11.1500	84390
	0.4395	11.1630	84395
	0.4400	11.1760	84400
	0.4410	11.2010	84410
	0.4420	11.2260	84420
	0.4430	11.2520	84430
	0.4440	11.2770	84440
	0.4450	11.3030	84450

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High Speed Steel

Size	Inch	MM	EDP #
	0.4452	11.3080	84452
	0.4460	11.3280	84460
	0.4470	11.3530	84470
	0.4480	11.3790	84480
	0.4500	11.4300	84500
	0.4515	11.4680	84515
11.5mm	0.4528	11.5000	84528
29/64"	0.4531	11.5080	84531
	0.4550	11.5570	84550
	0.4570	11.6070	84570
	0.4590	11.6580	84590
	0.4600	11.6840	84600
	0.4610	11.7090	84610
	0.4620	11.7340	84620
	0.4630	11.7600	84630
	0.4640	11.7850	84640
	0.4660	11.8360	84660
	0.4675	11.8740	84675
15/32"	0.4688	11.9060	84688
	0.4691	11.9150	84691
	0.4700	11.9380	84700
	0.4720	11.9880	84720
12.0mm	0.4724	12.0000	84724
	0.4725	12.0010	84725
	0.4740	12.0390	84740
	0.4745	12.0520	84745
	0.4750	12.0650	84750
	0.4752	12.0700	84752
	0.4755	12.0770	84755
	0.4760	12.0990	84760
	0.4770	12.1150	84770
	0.4780	12.1410	84780
	0.4800	12.1920	84800
	0.4820	12.2420	84820
31/64"	0.4844	12.3040	84844
	0.4860	12.3440	84860

Size	Inch	MM	EDP #
	0.4870	12.3690	84870
	0.4880	12.3950	84880
	0.4890	12.4200	84890
	0.4900	12.4460	84900
	0.4920	12.4950	84920
12.5mm	0.4921	12.5000	84921
	0.4930	12.5220	84930
	0.4940	12.5470	84940
	0.4950	12.5730	84950
	0.4960	12.5980	84960
	0.4970	12.6230	84970
	0.4975	12.6360	84975
D/P	0.4980	12.6490	84980
	0.4985	12.6610	84985
O/U	0.4990	12.6740	84990
D/P	0.4995	12.6870	84995
1/2"	0.5000	12.7000	85000
	0.5005	12.7120	85005
O/U	0.5010	12.7250	85010
	0.5013	12.7330	85013
	0.5015	12.7380	85015
	0.5020	12.7500	85020
	0.5025	12.7630	85025
	0.5030	12.7760	85030
	0.5040	12.8010	85040
	0.5045	12.8140	85045
	0.5050	12.8270	85050
	0.5055	12.8340	85055
	0.5060	12.8520	85060
	0.5070	12.8770	85070
	0.5080	12.9030	85080
	0.5100	12.9540	85100
13.0mm	0.5118	13.0000	85118
	0.5140	13.0550	85140
O/U	0.5145	13.0680	85145
	0.5150	13.0810	85150

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Size	Inch	MM	EDP #
33/64"	0.5156	13.0960	85156
O/U	0.5165	13.1190	85165
	0.5175	13.1440	85175
	0.5200	13.2080	85200
	0.5210	13.2330	85210
	0.5240	13.3090	85240
	0.5250	13.3350	85250
	0.5300	13.4620	85300
17/32"	0.5312	13.4920	85312
13.5mm	0.5315	13.5000	85315
	0.5320	13.5120	85320
	0.5330	13.5380	85330
	0.5350	13.5890	85350
	0.5360	13.6140	85360
	0.5410	13.7410	85410
	0.5415	13.7540	85415
	0.5420	13.7660	85420
	0.5450	13.8430	85450
35/64"	0.5469	13.8910	85469
	0.5480	13.9190	85480
	0.5510	13.9950	85510
14.0mm	0.5512	14.0000	85512
	0.5530	14.0460	85530
	0.5570	14.1470	85570
	0.5590	14.1980	85590
	0.5595	14.2110	85595
	0.5600	14.2240	85600
	0.5605	14.2360	85605
	0.5610	14.2490	85610
O/U	0.5615	14.2620	85615
	0.5620	14.2740	85620
9/16"	0.5625	14.2870	85625
	0.5630	14.3000	85630
O/U	0.5635	14.3120	85635
	0.5640	14.3250	85640
	0.5645	14.3380	85645

Size	Inch	MM	EDP #
	0.5650	14.3510	85650
	0.5655	14.3630	85655
	0.5660	14.3760	85660
	0.5670	14.4010	85670
	0.5680	14.4270	85680
	0.5690	14.4520	85690
	0.5700	14.4780	85700
14.5mm	0.5709	14.5000	85709
	0.5715	14.5160	85715
	0.5735	14.5660	85735
37/64"	0.5781	14.6830	85781
	0.5800	14.7320	85800
	0.5830	14.8080	85830
	0.5850	14.8590	85850
	0.5900	14.9860	85900
	0.5905	14.9980	85905
15.0mm	0.5906	15.0000	85906
19/32"	0.5938	15.0810	85938
	0.5980	15.1890	85980
	0.6000	15.2400	86000
39/64"	0.6094	15.4780	86094
15.5mm	0.6102	15.5000	86102
	0.6120	15.5440	86120
	0.6130	15.5700	86130
	0.6160	15.6460	86160
	0.6190	15.7220	86190
	0.6200	15.7480	86200
	0.6205	15.7600	86205
	0.6215	15.7860	86215
	0.6220	15.7980	86220
	0.6225	15.8110	86225
	0.6230	15.8240	86230
	0.6235	15.8360	86235
O/U	0.6240	15.8490	86240
	0.6245	15.8620	86245
	0.6247	15.8670	86247

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Size	Inch	MM	EDP #
5/8"	0.6250	15.8750	86250
	0.6255	15.8870	86255
O/U	0.6260	15.9000	86260
	0.6265	15.9130	86265
	0.6270	15.9250	86270
	0.6280	15.9510	86280
	0.6290	15.9760	86290
16.0mm	0.6299	16.0000	86299
	0.6300	16.0020	86300
	0.6310	16.0270	86310
	0.6320	16.0520	86320
	0.6340	16.1030	86340
	0.6350	16.1290	86350
	0.6360	16.1540	86360
41/64"	0.6406	16.2710	86406
	0.6420	16.3060	86420
	0.6440	16.3570	86440
16.5mm	0.6496	16.5000	86496
	0.6500	16.5100	86500
	0.6550	16.6370	86550
21/32"	0.6562	16.6670	86562
	0.6600	16.7640	86600
17.0mm	0.6693	17.0000	86693
43/64"	0.6719	17.0660	86719
	0.6760	17.1700	86760
	0.6865	17.4370	86865
11/16"	0.6875	17.4620	86875
O/U	0.6885	17.4870	86885
17.5mm	0.6890	17.5000	86890
	0.6895	17.5130	86895
	0.6975	17.7160	86975
	0.7015	17.8180	87015
45/64"	0.7031	17.8580	87031
	0.7080	17.9830	87080
18.0mm	0.7087	18.0000	87087
	0.7167	18.2040	87167

Size	Inch	MM	EDP #
23/32"	0.7188	18.2560	87188
	0.7200	18.2880	87200
	0.7230	18.3640	87230
18.5mm	0.7283	18.5000	87283
	0.7330	18.6180	87330
47/64"	0.7344	18.6530	87344
	0.7350	18.6690	87350
	0.7390	18.7700	87390
	0.7405	18.8080	87405
	0.7450	18.9230	87450
	0.7460	18.9480	87460
	0.7475	18.9860	87475
19.0mm	0.7480	19.0000	87480
	0.7485	19.0110	87485
O/U	0.7490	19.0240	87490
	0.7495	19.0370	87495
3/4"	0.7500	19.0500	87500
	0.7505	19.0620	87505
O/U	0.7510	19.0750	87510
	0.7515	19.0880	87515
	0.7520	19.1000	87520
	0.7530	19.1260	87530
	0.7540	19.1510	87540
	0.7550	19.1770	87550
	0.7650	19.4310	87650
49/64"	0.7656	19.4460	87656
19.5mm	0.7677	19.5000	87677
	0.7700	19.5580	87700
	0.7710	19.5830	87710
25/32"	0.7812	19.8420	87812
	0.7850	19.9390	87850
	0.7870	19.9890	87870
20.0mm	0.7874	20.0000	87874
51/64"	0.7969	20.2410	87969
	0.8000	20.3200	88000
	0.8030	20.3960	88030

Straight Shank Straight Flute Chucking Reamers

High Speed Steel

Size	Inch	MM	EDP #
20.5mm	0.8071	20.5000	88071
	0.8095	20.5610	88095
13/16"	0.8125	20.6370	88125
	0.8190	20.8020	88190
	0.8215	20.8660	88215
21.0mm	0.8268	21.0000	88268
53/64"	0.8281	21.0330	88281
	0.8350	21.2090	88350
27/32"	0.8438	21.4310	88438
21.5mm	0.8465	21.5000	88465
	0.8490	21.5640	88490
55/64"	0.8594	21.8280	88594
	0.8640	21.9450	88640
	0.8660	21.9960	88660
22.0mm	0.8661	22.0000	88661
	0.8690	22.0720	88690
O/U	0.8740	22.1990	88740
7/8"	0.8750	22.2250	88750
	0.8755	22.2370	88755
O/U	0.8760	22.2500	88760
	0.8775	22.2880	88775
	0.8800	22.3520	88800
22.5mm	0.8858	22.5000	88858
57/64"	0.8906	22.6210	88906
	0.8930	22.6820	88930
	0.8950	22.7330	88950

Size	Inch	MM	EDP #
23.0mm	0.9055	23.0000	89055
29/32"	0.9062	23.0170	89062
	0.9100	23.1140	89100
	0.9200	23.3680	89200
59/64"	0.9219	23.4160	89219
23.5mm	0.9252	23.5000	89252
	0.9260	23.5200	89260
15/16"	0.9375	23.8120	89375
	0.9377	23.8170	89377
	0.9420	23.9260	89420
24.0mm	0.9449	24.0000	89449
61/64"	0.9531	24.2060	89531
	0.9580	24.3330	89580
24.5mm	0.9646	24.5000	89646
31/32"	0.9688	24.6070	89688
	0.9740	24.7390	89740
	0.9790	24.8660	89790
25.0mm	0.9843	25.0000	89843
63/64"	0.9844	25.0030	89844
	0.9890	25.1200	89890
	0.9990	25.3740	89990
	0.9995	25.3870	89995
1"	1.0000	25.4000	90000
25.5mm	1.0039	25.5000	90039
26.0mm	1.0236	26.0000	90236

Spiral Flute Hand Reamers

Left Hand Spiral Right Hand Cut High Speed Steel



SIZE		Overall Length	Flute Length	EDP
INCHES	METRIC			
	3mm	2.7/16"	1.7/32"	95320
1/8"		2.5/8"	1.5/16"	95281
	3.5mm	2.13/16"	1.3/8"	95321
5/32"		3"	1.1/2"	95282
	4mm	3"	1.1/2"	95322
	4.5mm	3.3/16"	1.5/8"	95323
3/16"		3.7/16"	1.3/4"	95283
	5mm	3.7/16"	1.3/4"	95324
7/32"		3.11/16"	1.7/8"	95284
	5.5mm	3.11/16"	1.7/8"	95325
1/4"		4"	2"	95285
	6mm	4"	2"	95326
	6.5mm	4"	2"	95327
9/32"		4.1/2"	2.1/8"	95286
	7mm	4.1/2"	2.1/4"	95328
	7.5mm	4.1/2"	2.1/4"	95329
5/16"		4.1/2"	2.1/4"	95287
	8mm	4.1/2"	2.1/4"	95330
	8.5mm	4.1/2"	2.1/4"	95331
11/32"		4.3/4"	2.3/8"	95288
	9mm	5"	2.1/2"	95332
	9.5mm	5"	2.1/2"	95333
3/8"		5"	2.1/2"	95289
	10mm	5"	2.1/2"	95334
13/32"		5.1/4"	2.5/8"	95290
	10.5mm	5.1/4"	2.5/8"	95335
7/16"		5.1/2"	2.3/4"	95291
	11mm	5.1/2"	2.3/4"	95336
	11.5mm	5.1/2"	2.3/4"	95337
15/32"		5.3/4"	2.7/8"	95292
	12mm	6"	3"	95338

SIZE		Overall Length	Flute Length	EDP
INCHES	METRIC			
1/2"		6"	3"	95293
	13mm	6"	3"	95339
17/32"		6.1/4"	3.1/8"	95294
9/16"		6.1/2"	3.1/4"	95295
	14mm	6.1/2"	3.1/4"	95340
	15mm	6.1/2"	3.1/4"	95341
19/32"		6.3/4"	3.3/8"	95296
5/8"		7.3/8"	3.11/16"	95297
	16mm	7.3/8"	3.11/16"	95342
21/32"		7.3/4"	3.7/8"	95298
	17mm	8.1/8"	4.1/16"	95343
11/16"		8.1/8"	4.1/16"	95299
	18mm	8.1/8"	4.1/16"	95344
23/32"		8.1/8"	4.1/16"	95300
	19mm	8.3/8"	4.3/16"	95345
3/4"		8.3/8"	4.3/16"	95301
	20mm	9.1/8"	4.9/16"	95346
13/16"		9.1/8"	4.9/16"	95303
	21mm	9.1/8"	4.9/16"	95347
7/8"		9.3/4"	4.7/8"	95305
	22mm	9.3/4"	4.7/8"	95348
	23mm	10.1/4"	5.1/8"	95349
15/16"		10.1/4"	5.1/8"	95306
	24mm	10.1/4"	5.1/8"	95350
1"		10.7/8"	5.7/16"	95308
	25mm	10.7/8"	5.7/16"	95351
1.1/8"		11.5/8"	5.13/16"	95310
1.1/4"		12.1/4"	6.1/8"	95312
1.3/8"		12.5/8"	6.5/16"	95314
1.1/2"		13	6.1/2"	95315

Carbide Tipped Metric Chucking Reamers

Straight Shank Straight Flute

Size	Decimal	Shank Diameter	# of Flutes	Overall Length	Flute Length	Carbide Length	EDP #
4mm	.1575"	.151"	4	4.1/2"	1.1/8"	1/2"	95801
4.5mm	.1772"	11/64"	4	4.1/2"	1.1/8"	1/2"	95802
5mm	.1969"	11/64"	4	5"	1.1/4"	1/2"	95803
5.5mm	.2165"	13/64"	4	5"	1.1/4"	1/2"	95804
6mm	.2362"	7/32"	4	6"	1.1/2"	1/2"	95805
6.5mm	.2559"	15/64"	4	6"	1.1/2"	1/2"	95806
7mm	.2756"	15/64"	4	6"	1.1/2"	1/2"	95807
7.5mm	.2953"	9/32"	4	6"	1.1/2"	1/2"	95808
8mm	.3150"	9/32"	4	6"	1.1/2"	1/2"	95809
8.5mm	.3346"	9/32"	4	6"	1.1/2"	5/8"	95810
9mm	.3543"	5/16"	4	7"	1.3/4"	5/8"	95811
9.5mm	.3740"	5/16"	4	7"	1.3/4"	5/8"	95812
10mm	.3937"	5/16"	4	7"	1.3/4"	5/8"	95813
10.5mm	.4134"	3/8"	4	7"	1.3/4"	5/8"	95814
11mm	.4331"	3/8"	4	7"	1.3/4"	5/8"	95815
11.5mm	.4528"	3/8"	4	7"	1.3/4"	5/8"	95816
12mm	.4724"	7/16"	6	7"	1.3/4"	5/8"	95817
12.5mm	.4921"	7/16"	6	8"	2"	5/8"	95818
13mm	.5118"	7/16"	6	8"	2"	5/8"	95819
13.5mm	.5315"	7/16"	6	8"	2"	5/8"	95820
14mm	.5512"	7/16"	6	8"	2"	5/8"	95821
14.5mm	.5709"	7/16"	6	8"	2"	5/8"	95822
15mm	.5906"	7/16"	6	8"	2"	5/8"	95823
15.5mm	.6102"	9/16"	6	9"	2.1/4"	5/8"	95824
16mm	.6299"	9/16"	6	9"	2.1/4"	5/8"	95825
16.5mm	.6496"	9/16"	6	9"	2.1/4"	5/8"	95826
17mm	.6693"	9/16"	6	9"	2.1/4"	5/8"	95827
17.5mm	.6890"	9/16"	6	9"	2.1/4"	5/8"	95828
18mm	.7087"	9/16"	6	9"	2.1/4"	5/8"	95829
18.5mm	.7283"	5/8"	6	9½"	2.1/2"	3/4"	95830
19mm	.7480"	5/8"	6	9½"	2.1/2"	3/4"	95831
19.5mm	.7677"	5/8"	6	9½"	2.1/2"	3/4"	95832
20mm	.7874"	5/8"	6	9½"	2.1/2"	3/4"	95833
20.5mm	.8071"	5/8"	6	9½"	2.1/2"	3/4"	95834
21mm	.8268"	5/8"	6	9½"	2.1/2"	3/4"	95835

Carbide Tipped Metric Chucking Reamers

Straight Shank Straight Flute

Size	Decimal	Shank Diameter	# of Flutes	Overall Length	Flute Length	Carbide Length	EDP #
21.5mm	.8465"	5/8"	6	10"	2.5/8"	3/4"	95836
22mm	.8661"	3/4"	6	10"	2.5/8"	3/4"	95837
22.5mm	.8858"	3/4"	6	10"	2.5/8"	3/4"	95838
23mm	.9055"	3/4"	6	10"	2.5/8"	3/4"	95839
23.5mm	.9252"	3/4"	8	10"	2.5/8"	3/4"	95840
24mm	.9449"	3/4"	8	10"	2.5/8"	3/4"	95841
24.5mm	.9646"	3/4"	8	10"	2.5/8"	3/4"	95842
25mm	.9842"	7/8"	8	10½"	2.3/4"	3/4"	95843
25.5mm	1.0039"	7/8"	8	10½"	2.3/4"	3/4"	95844
26mm	1.0236"	7/8"	8	10½"	2.3/4"	3/4"	95845

Other sizes and styles available on request

Taper Pin Reamer

Straight Shank 1/4" Taper Per Foot High Speed Steel



Straight and Spiral Flute Taper Pin Reamers are used to hand ream holes for standard taper pins (used in the attachment of gears and pulleys to shafts.) It is recommended that the drilled hole be a few thousands smaller than the small diameter of the finished reamed hole.

Size Number	Nominal Diameter Small End	Nominal Diameter Large End	Shank Diameter	Flute Length	Overall Length	# of Flutes	EDP # Straight Flute	EDP # Spiral Flute
7/0	.0497"	.0666"	5/64"	13/16"	1.13/16"	4	95601	95630
6/0	.0611"	.0806"	3/32"	15/16"	1.15/16"	4	95602	95631
5/0	.0719"	.0966"	7/64"	1.3/16"	2.3/16"	4	95603	95632
4/0	.0869"	.1142"	1/8"	1.5/16"	2.5/16"	4	95604	95633
3/0	.1029"	.1302"	9/64"	1.5/16"	2.5/16"	4	95605	95634
2/0	.1137"	.1462"	5/32"	1.9/16"	2.9/16"	4	95606	95635
0	.1287"	.1638"	11/64"	1.11/16"	2.15/16"	4	95607	95636
1	.1447"	.1798"	3/16"	1.11/16"	2.15/16"	6	95608	95637
2	.1605"	.2008"	13/64"	1.15/16"	3.3/16"	6	95609	95638
3	.1813"	.2294"	15/64"	2.5/16"	3.11/16"	6	95610	95639
4	.2071"	.2604"	17/64"	2.9/16"	4.1/16"	6	95611	95640
5	.2409"	.2994"	5/16"	2.13/16"	4.5/16"	6	95612	95641
6	.2773"	.3540"	23/64"	3.11/16"	5.7/16"	6	95613	95642
7	.3267"	.4220"	13/32"	4.7/16"	6.5/16"	6	95614	95643
8	.3971"	.5050"	7/16"	5.3/16"	7.3/16"	6	95615	95644
9	.4805"	.6066"	9/16"	6.1/16"	8.5/16"	6	95616	95645
10	.5799"	.7216"	5/8"	6.13/16"	9.5/16"	6	95617	95646
11	.7060"	.8780"	3/4"	8.1/4"	11.1/4"	8	95618	95647
12	.8420"	1.0500"	15/16"	10"	13.3/8"	8	95619	95648

Metric Taper Pin Reamers

Straight Shank Straight Flute 1 in 50 Taper High Speed Steel



Size	Imperial Decimal Equiv.	Nominal Diameter Large End mm	Nominal Diameter Small End mm	Overall Length mm	Flute Length mm	# of Flutes	EDP #
1.5mm	0.0591	2.14	1.40	57	37	4	95660
2.0mm	0.0787	2.86	1.90	68	48	4	95661
2.5mm	0.0984	3.36	2.40	68	48	4	95662
3.0mm	0.1181	4.06	2.90	80	58	4	95663
4.0mm	0.1575	5.26	3.90	93	68	4	95664
5.0mm	0.1969	6.36	4.90	100	73	4	95665
6.0mm	0.2362	8.00	5.90	135	105	6	95666
8.0mm	0.3150	10.80	7.90	180	145	6	95667
10mm	0.3937	13.40	9.90	215	175	6	95668
12mm	0.4724	16.00	11.80	255	210	8	95669
13mm	0.5118	16.74	12.86	255	210	8	95670
14mm	0.5512	17.74	13.86	255	210	8	95671
16mm	0.6299	20.40	15.80	280	230	8	95672
20mm	0.7874	24.80	19.80	310	250	8	95673

The tolerance on the large end diameter as follows:

Nominal Diameter of Reamer	Limits of Tolerance
1.5 to 5mm	+0.075mm -0.000mm
6 to 20mm	+0.125mm -0.000mm

Taper Pipe Reamers

Spiral Flute Regular Length High Speed Steel



Taper Pipe Reamers are made for reaming holes to be tapped with American National Standard Taper Pipe Taps. They will prolong the life of any Taper Pipe Taps, as they ream the hole to the correct size and taper for tapping.

Size Number	Nominal Diameter Small End	Nominal Diameter Large End	# of Flutes	Overall Length mm	Flute Length mm	Shank Diameter	Size of Square	EDP #
1/16"	.2320"	.2750"	6	2.1/8"	3/4"	.3125"	.235"	40017
1/8"	.3160"	.3620"	6	2.1/8"	3/4"	.4375"	.328"	40048
1/4"	.4060"	.4720"	6	2.7/16"	1.1/16"	.5625"	.421"	40074
3/8"	.5400"	.6060"	6	2.9/16"	1.1/16"	.7000"	.531"	40102
1/2"	.6650"	.7510"	6	3.1/8"	1.3/8"	.6875"	.515"	40132
3/4"	.8760"	.9620"	8	3.1/4"	1.3/8"	.9063"	.679"	40162
1"	1.1030"	1.2120"	8	3.3/4"	1.3/4"	1.1250"	.843"	40200
1.1/4"	1.4440"	1.5530"	10	4"	1.3/4"	1.3125"	.984"	40222
1.1/2"	1.6840"	1.7930"	12	4.1/4"	1.3/4"	1.5000"	1.125"	40242
2"	2.1590"	2.2680"	12	4.1/2"	1.3/4"	1.8750"	1.406"	40262

6" O/L Taper Pipe Reamers

Spiral Flute High Speed Steel



Size Number	Nominal Diameter Small End	Nominal Diameter Large End	# of Flutes	Flute Length mm	Shank Diameter	Size of Square	EDP #
1/16"	.2320"	.2750"	6	3/4"	.3125"	.235"	40018
1/8"	.3160"	.3620"	6	3/4"	.4375"	.328"	40049
1/4"	.4060"	.4720"	6	1.1/16"	.5625"	.421"	40075
3/8"	.5400"	.6060"	6	1.1/16"	.7000"	.531"	40103
1/2"	.6650"	.7510"	6	1.3/8"	.6875"	.515"	40133

Tap Wrenches & Die Stocks

Heavy Duty Adjustable Tap Wrenches



No.	Range in Inches	Range in Metric	Range for Pipe	Overall Length	EDP #
0	1/16" - 1/4"	M1 - M6	--	125	79007
1	1/16" - 5/16"	M1 - M8	--	180	79008
2	3/16" - 1/2"	M5 - M12	1/8" - 1/4"	280	79009
3	1/4" - 3/4"	M6 - M18	1/8" - 1/4"	375	79010
4	3/8" - 1"	M10 - M26	1/8" - 3/4"	480	79011
5	1/2" - 1.3/8"	M12 - M35	1/4" - 3/4"	750	79012
6	3/4" - 1.5/8"	M18 - M40	1/2" - 1.1/4"	960	79013
7	1" - 2"	M25 - M50	3/4" - 1.1/2"	1200	79014

Precision Hardened & Phosphate treated jaws

No. 0 - 2 made from forged steel

#3 - 7 made from welded construction

Zinc coated steel handles, on adjustable

Heavy Duty Adjustable Tap Wrenches



No.	Range in Inches	Range in Metric	Overall Length	EDP #
T1	1/8" - 1/4"	M3 - M6	110	79001
T2	7/32" - 1/2"	M5 - M12	110	79002

T Handle Ratchet Tap Holders - Long & Short Style



No.	Range in Inches	Range in Metric	Overall Length	EDP #
TR1	1/8" - 1/4"	M3 - M6	85	79003
TR2	7/32" - 1/2"	M5 - M12	110	79004
TRL3	1/8" - 1/4"	M3 - M6	250	79005
TRL4	7/32" - 1/2"	M5 - M12	350	79006

Die Stocks

No.	O/D of Dies	Length of Stock	EDP #
DS1	13/16"	190mm	79020
DS2	1"	220mm	79021
DS3	1.5/16"	270mm	79022
DS4	1.1/2"	315mm	79023
DS5	2"	560mm	79024
DS6	2.1/2"	630mm	79025
DS7	3"	820mm	79026
DS8	4"	1030mm	79027

13/16" - 2.1/2" O/D in Zinc Die casting with Zinc coated steel handles
 3" - 4" O/D Steel Welded construction with Zinc coated steel handles
 3 Screw phosphate treated

Walton

Tap Extractors

For Machine Screw and Hand Taps

Extractor Size		Complete Tap Extractor			Spare Extractor Finger Sets		
Inches	MM	2 Flute	3 Flute	4 Flute	2 Flute	3 Flute	4 Flute
#4	3	45000	45020	--	45010	45040	--
#5 (1/8")		45001	45021	--	45011	45041	--
#6	3.5	45002	45022	--	45012	45042	--
#8	4	45003	45023	45063	45013	45043	45083
#10 (3/16")	5	45004	45024	45064	45014	45044	45084
#12	5.5	45005	45025	45065	45015	45045	45085
1/4"	6	45006	45026	45066	45016	45046	45086
5/16"	7 & 8	45007	45027	45067	45017	45047	45087
3/8"	9 & 10	45008	45028	45068	45018	45048	45088
7/16"	11	--	45029	45069	--	45049	45089
1/2"	12	--	45030	45070	--	45050	45090
9/16"	14	--	--	45071	--	--	45091
5/8"	16	--	45032	45072	--	45052	45092
3/4"	18 & 20	--	45033	45073	--	45053	45093
7/8"	22	--	--	45074	--	--	45094
1"	25	--	--	45075	--	--	45095
1.1/8"	28	--	--	45076	--	--	45096
1.1/4"	32	--	--	45077	--	--	45097

Tap Extractor Sets

Set No.	Size Range	EDP #
#1	3/16, 1/4, 5/16, 3/8, 7/16, 1/2	45241
#2	1/4, 5/16, 3/8, 7/16, 1/2, 5/8	45242
#3	5/16, 3/8, 7/16, 1/2, 9/16, 5/8	45243
#11	1/8*, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1	45244
#13	#4*, #5*, #6*, #8, #10, #12, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4	45245
#15	#4*, #5*, #6*, #8, #10, #12, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 7/8, 1"	45246

* 3 Flute style supplied for sizes shown - all other in 4 Flute style

Pipe Tap Extractors



Size	Complete Extractor		Spare Finger Sets	
	4 Flute	5 Flute	4 Flute	5 Flute
1/8"	45101	--	45111	--
1/4"	45102	--	45112	--
3/8"	45103	--	45113	--
1/2"	45104	--	45114	--
3/4"	--	45125	--	45135
1"	--	45126	--	45136

Style "A" Tap Extensions

For Hand Tapping Only, Only sold in pairs

Each set contains two 5" long extensions - which can be used singly or in combination to lengthen tap to 10"

Tap Size	EDP #	Square Size of Tap	Opening Socket
#10	45220	.152"	.154"
1/4"	45222	.191"	.193"
5/16"	45224	.238"	.242"
3/8" **	45225	.286"	.290"
7/16"	45227	.242"	.246"
1/2"	45228	.275"	.279"
5/8"	45231	.360"	.364"
3/4"	45232	.442"	.446"
7/8"	45234	.523"	.527"
1"	45235	.600"	.604"

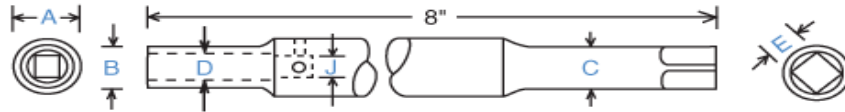
** 3/8" also available with .206" Square opening on request

Walton Style "A" Tap Extensions - Each set contains two 5" long extensions, which can be used either singly to lengthen the tap to 5" or in combination, to length the tap to 10"

Walton Style "A" Tap Extensions are:

- A quality product, accurately made of alloy steel carefully heat treated for strength and durability.
- Mighty handy for hand tapping in close quarters, where it is difficult or impossible to turn a tap wrench.
No need for expensive, special length taps.
- Inexpensive. Keep several sizes on hand, they can be used over and over because they won't wear out unlike the taps that go in them.

Style "B" Tap Extensions



Tap Size		EDP #`	A	B	C	D	E	F
Inches	Metric							
#0 - #6	1.6 - 3.5	45200	5/16"	.250"	.142"	.112"	.191"	.255"
#8	4	45201	3/8"	.250"	.169"	.133"	.191"	.255"
#10	4.5 - 5	45202	3/8"	.312"	.195"	.154"	.191"	.255"
#12		45203	7/16"	.312"	.221"	.167"	.191"	.255"
1/4"	6	45204	7/16"	.375"	.256"	.193"	.286"	.381"
5/16"	7 - 8	45206	1/2"	.437"	.319"	.240"	.286"	.381"
3/8"	10	45207	5/8"	.500"	.382"	.288"	.275"	.367"
7/16"	11	45209	5/8"	.500"	.324"	.244"	.286"	.381"
1/2"	12	45210	5/8"	.500"	.368"	.277"	.286"	.381"
Set #9	*	45219	--	--	--	--	--	--
9/16"	14	45212	11/16"	.562"	.430"	.322"	.320"	.428"
5/8"	16	45213	3/4"	.625"	.481"	.361"	.359"	.479"
3/4"		45214	7/8"	.750"	.591"	.443"	.441"	.589"
7/8"	22	45216	1.1/16"	.906"	.698"	.524"	.522"	.696"
1"		45217	1.1/16"	1.000"	.801"	.601"	.599"	.799"

* Set #9 fits 15 tap sizes and is packed in a sturdy plastic case at no extra cost. Set includes 3 hex keys and 6 extra socket set screws.

Easy Access - Accurate, easy access into hard to reach tapping locations. Smaller socket end O.D. permits extension to pass through a standard liner bushing

Quality Tool - Made of alloy steel to close tolerances and carefully heat-treated for strength and durability. The square and round sockets conform to size standards of leading tap manufacturers

Tap Held Securely - Each extension is designed for a specific tap size. The tap, supported by the close-fitting deep socket of the extension, is held firmly in position by two socket set screws bearing 90° apart on the square of the tap.

Inexpensive - Cost is considerably less than the cost of "special" extra length taps, when reach is a problem, yet can be used many times.

Sets

Metric Tap & Die Sets

Right Hand High Speed Steel



Taps and Dies in Wooden Cases. Contains 1 Taper and 1 Bott. Tap per size, 1 Round Die per size, plus Tap Wrenches and Die Stocks as shown

Set #	Range of Sizes	O/D of Dies	Tap Wrench	EDP #
CP78	M2x0.4, M2.5x0.45, M3x0.5, M3.5 x 0.6, M4x0.7, M4.5x0.75, M5x 0.8, M6 x 1.0	13/16"	0	79078
CM5B	M6x1.0, M7x1.0, M8x1.25, M10x1.5, M12x1.75	1"	2	79079
CM7B	M2x0.4, M3x0.5, M4x0.7, M5x0.8, M6x1.0, M7x1.0, M8x1.25, M10x1.5, M12x1.75	13/16", 1"	1, 2	79080
CM8B	M14x2.0, M16x2.0, M18x2.5, M20x2.5, M22x2.5, M24x3.0	2"	4	79081
CM9B	M6x1.0, M7x1.0, M8x1.25, M10x1.5, M12x1.75, M14x2.0, M16x2.0, M18x2.5, M20x2.5, M22x2.5, M24x3.0	1", 1.1/2", 2"	2, 4	79082
CM9B FINE	M6x0.75, M7x0.75, M8x1.0, M10x1.0, M12x1.0, M14x1.5, M16x1.5, M18x1.5, M20x1.5, M22x1.5, M24x1.5	1", 1.1/2", 2"	2, 4	79083

Custom ranges available upon request

Metric Round Die Sets

Right Hand High Speed Steel

Set #	Range of Sizes	EDP #
JAM-34	M3x0.5, M4x0.7, M5x0.8, M6x1.0, M7x1.0, M8x1.25, M10x1.5, M12x1.75 - Dies only	79063

Metric Tap Sets

Right Hand High Speed Steel

Set #	Range of Sizes	EDP #
Z3	M3x0.5, M4x0.7, M5x0.8, M6x1.0, M7x1.0, M8x1.25, M10x1.5, M12x1.75	79060

Custom ranges available upon request

Metric Hex Sets

Right Hand High Speed Steel



Set #	Range of Sizes	EDP #
H11	M6x1.0, M7x1.0, M8x1.25, M10x1.5, M12x1.75	79056
H12	M6x1.0, M8x1.25, M10x1.5, M12x1.75, M14x2.0, M16x2.0, M18x2.5, M20x2.5	79057
H13	M6x1.0, M8x1.25, M10x1.5, M12x1.75, M14x2.0, M16x2.0, M18x2.5, M20x2.5, M22x2.5, M24x3.0	79058

Custom ranges available upon request

NC & NF Tap & Die Sets

Right Hand High Speed Steel



Taps and Dies in Wooden Cases. Contains 1 Taper and 1 Bott. Tap per size, 1 Round Die per size, plus Tap Wrenches and Die Stocks as shown.

Set #	Range of Sizes	O/D of Dies	Tap Wrench	EDP #
R1B	2-56, 3-48, 4-40, 5-40, 6-32, 8-32, 10-24, 12-24	13/16"	0	79065
R3B	2-64, 3-56, 4-48, 5-44, 6-40, 8-36, 10-32, 12-28	13/16"	0	79066
R7B	4-40, 4-48, 6-32, 6-40, 8-32, 8-36, 10-24, 10-32	13/16"	0	79067
R8B	4-40, 6-32, 8-32, 10-24, 10-32, 12-24, 1/4"-20, 1/4"-28	13/16"	1	79068
C1BC	1/4"-20, 5/16"-18, 3/8"-16, 7/16"-14, 1/2"-13	1"	2	79069
C1BF	1/4"-28, 5/16"-24, 3/8"-24, 7/16"-20, 1/2"-20	1"	2	79070
C5BC	1/4"-20, 5/16"-18, 3/8"-16, 7/16"-14, 1/2"-13, 5/8"-11, 3/4"-10	1", 1.1/2"	3	79071
C5BF	1/4"-28, 5/16"-24, 3/8"-24, 7/16"-20, 1/2"-20, 5/8"-18, 3/4"-16	1", 1.1/2"	3	79072
C7BC	1/4"-20, 5/16"-18, 3/8"-16, 7/16"-14, 1/2"-13, 5/8"-11, 3/4"-10, 7/8"-9, 1"-8	1", 1.1/2", 2"	2, 4	79073
C7BF	1/4"-28, 5/16"-24, 3/8"-24, 7/16"-20, 1/2"-20, 5/8"-18, 3/4"-16, 7/8"-14, 1"-12*	1", 1.1/2", 2"	2, 4	79074

*1"-14 NS may be substituted at No Additional Charge

NC & NF Tap & Die Sets

Right Hand High Speed Steel

Set #	Range of Sizes	O/D of Dies	Tap Wrench	EDP #
C310B	1/4"-20, 1/4"-28, 5/16"-18, 5/16"-24, 3/8"-16, 3/8"-24, 7/16"-14, 7/16"-20, 1/2"-13, 1/2"-20	1"	2	79075
C311B	1/4"-20, 1/4"-28, 5/16"-18, 5/16"-24, 3/8"-16, 3/8"-24, 7/16"-14, 7/16"-20, 1/2"-13, 1/2"-20, 9/16"-12, 9/16"-18, 5/8"-11, 5/8"-18, 3/4"-10, 3/4"-16	1", 1.1/2"	3	79076
C312B	1/4"-20, 1/4"-28, 5/16"-18, 5/16"-24, 3/8"-16, 3/8"-24, 7/16"-14, 7/16"-20, 1/2"-13, 1/2"-20, 9/16"-12, 9/16"-18, 5/8"-11, 5/8"-18, 3/4"-10, 3/4"-16, 7/8"-9, 7/8"-14, 1"-8, 1"-12*	1", 1.1/2", 2"	2, 4	79077

*1"-14 NS may be substituted at No Additional Charge

NC & NF H.S.S. Hex Rethreading Die Sets

Right Hand High Speed Steel



Set #	Range of Sizes	NC EDP #	NF EDP#	Comb. NC & NF EDP #
W1	1/4", 5/16", 3/8", 7/16", 1/2"	79050	79350	
W3	1/4", 5/16", 3/8", 7/16", 1/2", 7/16", 1/2", 9/16", 5/8", 3/4"	79051	79351	
W5	1/4", 5/16", 3/8", 7/16", 1/2", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1"	79052	79352	
W11	1/4", 5/16", 3/8", 7/16", 1/2"			79053
W33	1/4", 5/16", 3/8", 7/16", 1/2", 7/16", 1/2", 9/16", 5/8", 3/4"			79054
W55	1/4", 5/16", 3/8", 7/16", 1/2", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1"			79055

NC & NF H.S.S. Round Die Sets

Right Hand High Speed Steel

Set #	Range of Sizes	O/D of Dies	EDP #
D312	1/4"-20, 1/4"-28, 5/16"-18, 5/16"-24, 3/8"-16, 3/8"-24, 7/16"-14, 7/16"- 20, 1/2"-13, 1/2"-20, 5/8"-11, 5/8"-18, 3/4"-10, 3/4"-16, 7/8"-9, 7/8"-14, 1"-8, 1"-12*	1", 1.1/2", 2"	79062

*1"-14 NS may be substituted at No Additional Charge
Special Ranges available on request

NPT & NPS Pipe Tap Sets BSPP & BSPT British Pipe Tap Sets

Right Hand High Speed Steel

In wooden cases



Set #	Range of Sizes	EDP #
NPT - 1	1/8", 1/4", 3/8", 1/2", 3/4" & 1" NPT	40400
NPS - 1	1/8", 1/4", 3/8", 1/2", 3/4" & 1" NPS	40401
BSPP - 1	1/8", 1/4", 3/8", 1/2", 3/4" & 1" BSPP	42090
BSPT - 1	1/8", 1/4", 3/8", 1/2", 3/4" & 1" BSPT	42091

Combined Pipe Tap & Pipe Reamer Set

High Speed Steel

Set #	Range of Sizes	EDP #
R8	1/8", 1/4", 3/8" & 1/2" NPT	40402

NPT Hex Die Set

High Speed Steel

Set #	Range of Sizes	EDP #
NPT - 2	1/8", 1/4", 3/8", 1/2", 3/4" & 1" NPT	40404

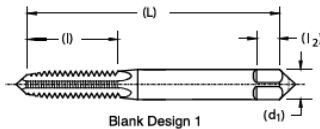
Taper Pin Reamer Sets
Straight Shank High Speed Steel
1/4" Taper Per Foot in Wooden Cases

Set #	Range	Straight Flute EDP #	Spiral Flute EDP #
458	#0 - #5	95655	
459	#0 - #10	95656	
460	#0 - #5		95657
461	#0 - #10		95658

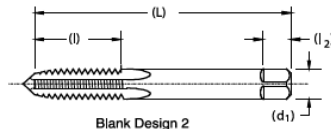
Tables & Conversions

Table 302

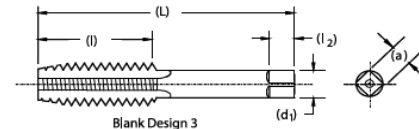
Standard Tap Dimensions



Style 1



Style 2

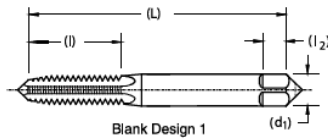


Style 3

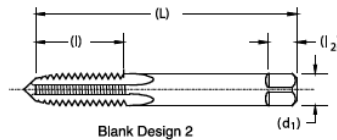
Nominal Diameter		Mach. Screw Size No.	Nominal Metric Diameter Inches	Nominal Fractional Diameter Inches	STYLE	Tap Dimensions-Inches						
Range-Inches						Overall Length	Thread Length	Table 302-A Thread Length	Thread Length 3 Flute & 6 flute Fine Pitches	Square Length	Shank Diameter	Size of Square
Over	To (Incl.)											
0.0520	0.0650	0 (.060")	1/16	M1.6	1	1.5/8	5/16			3/16	.141	.110
0.0650	0.0780	1 (.073")		M 1.8	1	1.11/16	3/8			3/16	.141	.110
0.0780	0.0910	2 (.086")		M2, M2.2	1	1.3/4	7/16			3/16	.141	.110
0.0910	0.1040	3 (.099")	3/32	M2.5	1	1 13/16	1/2			3/16	.141	.110
0.1040	0.1170	4 (.112")			1	1.7/8	9/16	5/16		3/16	.141	.110
0.1170	0.1300	5 (.125")	1/8	M3, M3.15	1	1.15/16	5/8	5/16		3/16	.141	.110
0.1300	0.1450	6 (.138")		M3.5	1	2	11/16	3/8		3/16	.141	.110
0.1450	0.1710	8 (.164")	5/32	M4	1	2.1/8	3/4	3/8		1/4	.168	.131
0.1710	0.1970	10 (.190")	3/16	M4.5, M5	1	2.3/8	7/8	1/2		1/4	.194	.152
0.1970	0.2230	12 (.216")	7/32		1	2.3/8	15/16	1/2		9/32	.220	.165
0.2230	0.2600	14 (.242")	1/4	M6, M6.3	2	2.1/2	1	.625		5/16	.255	.191
0.2600	0.3230		5/16	M7, M8	2	2.23/32	1.1/8	11/16		3/8	.318	.238
0.3230	0.3950		3/8	M10	2	2.15/16	1.1/4	3/4		7/16	.381	.286
0.3950	0.4480		7/16	M11	3	3.5/32	1.7/16	7/8		13/32	.323	.242
0.4480	0.5100		1/2	M 12, M 12.5	3	3.3/8	1.21/32	15/16	1.1/4 **	7/16	.367	.275
0.5100	0.5730		9/16	M 14	3	3.19/32	1.21/32	1	1.5/16	1/2	.429	.322
0.5730	0.6350		5/8	M16	3	3.13/16	1.13/16	1.3/32	1.3/8	9/16	.480	.360
0.6350	0.7090		11/16	M18	3	4.1/32	1.13/16	1.3/32	1.1/2	5/8	.542	.406
0.7090	0.7600		3/4		3	4.1/4	2	1.7/32	1.9/16	11/16	.590	.442
0.7600	0.8230		13/16	M20	3	4.15/32	2	1.7/32	1.5/8	11/16	.652	.489
0.8230	0.8850		7/8	M22	3	4.11/16	2.7/32	1.11/32	1.7/8	3/4	.697	.523
0.8850	0.9480		15/16	M24	3	4.29/32	2.7/32	1.11/32	1.7/8	3/4	.760	.570
0.9480	1.0100		1	M25	3	5.1/8	2.1/2	1.1/2	2	13/16	.800	.600
1.0100	1.0730		1.1/16	M27	3	5.1/8	2.1/2		2	7/8	.896	.672
1.0730	1.1350		1.1/8		3	5.7/16	2.9/16		2	7/8	.896	.672
1.1350	1.1980		1.3/16	M30	3	5.7/16	2.9/16		2.1/8	1	1.021	.766

** 1/2" - 3 flute Specials may be supplied with these dimensions

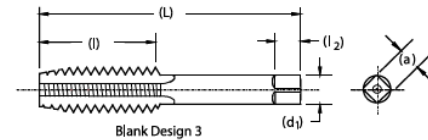
Table 302
Standard Tap Dimensions



Style 1



Style 2



Style 3

Nominal Diameter		Mach. Screw Size No.	Nominal Metric Diameter Inches	Nominal Fractional Diameter Inches	STYLE	Tap Dimensions-Inches						
Range-Inches						Overall Length	Thread Length	Table 302-A Thread Length	Thread Length 3 Flute & 6 flute Fine Pitches	Square Length	Shank Diameter	Size of Square
Over	To (Incl.)											
1.1980	1.2600		1.1/4		3	5.3/4	2.9/16		2.1/8	1	1.021	.766
1.2600	1.3230		1.5/16	M33	3	5.3/4	2.9/16		2.1/4	1.1/16	1.108	.831
1.3230	1.3850		1.3/8		3	6.1/16	3		2.1/4	1.1/16	1.108	.831
1.3850	1.4480		1.7/16	M36	3	6.1/16	3		2.1/2	1.1/8	1.233	.925
1.4480	1.5100		1.1/2	M39	3	6.3/8	3		2.1/2	1.1/8	1.233	.925
1.5100	1.6350		1.5/8		3	6.11/16	3.3/16			1.1/8	1.305	.979
1.6350	1.7600		1.3/4	M42	3	7	3.3/16			1.1/4	1.430	1.072
1.7600	1.8850		1.7/8		3	7.5/16	3.9/16			1.1/4	1.519	1.139
1.8850	2.0100		2	M48	3	7.5/8	3.9/16			1.3/8	1.644	1.233
2.0100	2.1350		2.1/8		3	8	3.9/16			1.3/8	1.769	1.327
2.1350	2.2600		2.1/4	M56	3	8.1/4	3.9/16			1.7/16	1.894	1.420
2.2600	2.3850		2.3/8		3	8.1/2	4			1.7/16	2.019	1.514
2.3850	2.5100		2.1/2	M64	3	8.3/4	4			1.1/2	2.100	1.575
2.5100	2.6350		2.5/8		3	8.3/4	4			1.1/2	2.225	1.669
2.6350	2.7600		2.3/4		3	9.1/4	4			1.9/16	2.350	1.762
2.7600	2.8850		2.7/8	M72	3	9.1/4	4			1.9/16	2.475	1.856
2.8850	3.0100		3		3	9.3/4	4.9/16			1.5/8	2.543	1.907
3.0100	3.1350		3.1/8		3	9.3/4	4.9/16			1.5/8	2.668	2.001
3.1350	3.2600		3.1/4	M80	3	10	4.9/16			1.3/4	2.793	2.095
3.2600	3.3850		3.3/8		3	10	4.9/16			1.3/4	2.883	2.162
3.3850	3.5100		3.1/2		3	10.1/4	4.15/16			2	3.008	2.256
3.5100	3.6350		3.5/8	M90	3	10.1/4	4.15/16			2	3.133	2.35
3.6350	3.7600		3.3/4		3	10.1/2	5.5/16			2.1/8	3.217	2.413
3.7600	3.8850		3.7/8		3	10.1/2	5.5/16			2.1/8	3.342	2.506
3.8850	4.0100		4	M100	3	10.3/4	5.5/16			2.1/4	3.467	2.600

** 1/2" - 3 flute Specials may be supplied with these dimensions

Table 302
Tap Tolerances

Element	Nominal Diameter Range - Inches		Direction	Tolerances - Inches
	Over	To (Incl.)		Ground Thread
Length Overall - A	0.052	1.010	Plus or Minus	1/32
	1.010	4.010	Plus or Minus	1/16
Length of Thread - B	0.052	0.223	Plus or Minus	3/64
	0.223	0.510	Plus or Minus	1/16
	0.510	1.510	Plus or Minus	3/32
	1.510	4.010	Plus or Minus	1/8
Length of Square - C	0.052	1.010	Plus or Minus	1/32
	1.010	4.010	Plus or Minus	1/16
Diameter of Shank - D	0.052	0.223	Minus	.0015
	0.223	0.635	Minus	.0015
	0.635	1.010	Minus	.002
	1.010	1.510	Minus	.002
	1.510	2.010	Minus	.003
	2.010	4.010	Minus	.003
Size of Square - E	0.052	0.510	Minus	.004
	0.510	1.010	Minus	.006
	1.010	2.010	Minus	.008
	2.010	4.010	Minus	.010

Table 302
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 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

Table 302

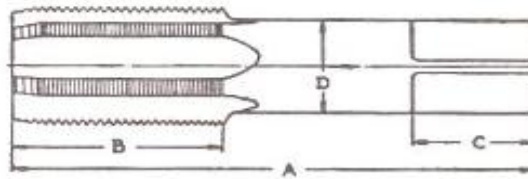
Notes

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 approx. 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 refer to Table 317

Table 303
Standard Tap Dimensions



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 in Table 303.

Nominal Diameter		Nominal	Nominal	Tap Dimensions- Inches				
Range-Inches		Fractional	Metric	Overall	Thread	Square	Shank	Size of
Over	To (Incl.)	Diameter	Diameter	Length	Length	Length	Diameter	Square
		Inches	Millimeters	A	B	C	D	E
1.010	1.073	1.1/16	M27	4	1.1/2	7/8	0.896	0.672
1.073	1.135	1.1/8		4	1.1/2	7/8	0.896	0.672
1.135	1.198	1.3/16	M30	4	1.1/2	1	1.021	0.766
1.198	1.260	1.1/4		4	1.1/2	1	1.021	0.766
1.260	1.323	1.5/16	M33	4	1.1/2	1	1.108	0.831
1.323	1.385	1.3/8		4	1.1/2	1	1.108	0.831
1.385	1.448	1.7/16	M36	4	1.1/2	1	1.233	0.925
1.448	1.510	1.1/2	M39	4	1.1/2	1	1.233	0.925
1.510	1.635	1.5/8		5	2	1.1/8	1.305	0.979
1.635	1.761	1.3/4	M42	5	2	1.1/4	1.430	1.072
1.760	1.885	1.7/8		5	2	1.1/4	1.519	1.139
1.885	2.010	2	M48	5	2	1.3/8	1.644	1.233
2.010	2.135	2.1/8		5.1/4	2	1.3/8	1.769	1.327
2.135	2.260	2.1/4	M56	5.1/4	2	1.7/16	1.894	1.420
2.260	2.385	2.3/8		5.1/4	2	1.7/16	2.019	1.514
2.385	2.511	2.1/2		5.1/4	2	1.1/2	2.100	1.575
2.510	2.635	2.5/8	M64	5.1/2	2	1.1/2	2.100	1.575
2.635	2.760	2.3/4		5.1/2	2	1.1/2	2.100	1.575
2.760	2.885	2.7/8	M72	5.1/2	2	1.1/2	2.100	1.575
2.885	3.111	3		5.1/2	2	1.1/2	2.100	1.575
3.111	3.135	3.1/8		5.3/4	2	1.1/2	2.100	1.575

Table 303
Standard Tap Dimensions

Nominal Diameter		Nominal	Nominal	Tap Dimensions- Inches				
Range-Inches		Fractional	Metric	Overall	Thread	Square	Shank	Size of
Over	To (Incl.)	Diameter	Diameter	Length	Length	Length	Diameter	Square
		Inches	Millimeters	A	B	C	D	E
3.135	3.260	3.1/4	M80	5.3/4	2	1.1/2	2.100	1.575
3.260	3.385	3.3/8		5.3/4	2	1.1/2	2.100	1.575
3.385	3.510	3.1/2		5.3/4	2	1.1/2	2.100	1.575
3.510	3.635	3.5/8	M90	6	2	1.3/4	2.100	1.575
3.635	3.760	3.3/4		6	2	1.3/4	2.100	1.575
3.760	3.885	3.7/8		6	2	1.3/4	2.100	1.575
3.885	4.010	4	M100	6	2	1.3/4	2.100	1.575

Table 303
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

Pitch Conversions

TPI	Pitch in Inches	Pitch in MM
127	0.00787	0.2
120	0.00833	0.212
112	0.00893	0.227
101.6	0.00984	0.25
100	0.01000	0.254
96	0.01042	0.265
90	0.01444	0.282
84.67	0.01181	0.3
80	0.01250	0.318
72.57	0.01378	0.35
72	0.01389	0.353
64	0.01562	0.397
63.5	0.01575	0.4
60	0.01667	0.423
56.44	0.01772	0.45
56	0.01786	0.454
50.8	0.01968	0.5
48	0.02083	0.529
44	0.02273	0.577
42.33	0.02362	0.6
40	0.02500	0.635
36.29	0.02756	0.7
36	0.02778	0.706
34	0.02941	0.747
33.87	0.02953	0.75
32	0.03125	0.794
31.75	0.03115	0.8
30	0.03333	0.847
28.22	0.03543	0.9
28	0.03571	0.907
27	0.03704	0.941
26	0.03846	0.977
25.4	0.03937	1.0
24	0.04167	1.058

TPI	Pitch in Inches	Pitch in MM
22	0.04545	1.155
20.32	0.04921	1.25
20	0.05000	1.27
19	0.05263	1.337
18	0.05556	1.411
16.93	0.05906	1.5
16	0.06250	1.588
14.51	0.06890	1.75
14	0.07143	1.814
13	0.07692	1.954
12.7	0.07874	2.0
12	0.08333	2.117
11½	0.08696	2.209
11	0.09091	2.309
10.16	0.09842	2.5
10	0.10000	2.54
9	0.11111	2.822
8.47	0.11810	3.0
8	0.12500	3.175
7.26	0.13780	3.5
7	0.14286	3.629
6.35	0.15748	4.0
6	0.16667	4.233
5.64	0.17716	4.5
5.08	0.19685	5.0
5	0.20000	5.08
4.62	0.21654	5.5
4½	0.22222	5.644
4.23	0.23620	6.0
4	0.25000	6.35
3.175	0.31496	8.0
3	0.33333	8.467
2	0.50000	12.7

Bold Face denotes exact threads per inch or pitch in mm from which conversions are calculated.

THREAD CONSTANTS

Figures in the table show amount to subtract from O.D. of screw to obtain specific percentages of thread.

Threads Per Inch	Double Depth	50% Thread	55% Thread	60% Thread	65% Thread	70% Thread	75% Thread	80% Thread	85% Thread
4	0.32476	0.1624	0.1786	0.1949	0.2111	0.2273	0.2436	0.2598	0.2760
4½	0.28868	0.1443	0.1588	0.1732	0.1876	0.2021	0.2165	0.2309	0.2454
5	0.25981	0.1299	0.1429	0.1559	0.1689	0.1819	0.1949	0.2078	0.2208
5½	0.23619	0.1181	0.1299	0.1417	0.1535	0.1653	0.1771	0.1890	0.2008
6	0.21651	0.1083	0.1192	0.1300	0.1408	0.1517	0.1625	0.1733	0.1842
7	0.18558	0.0929	0.1021	0.1114	0.1207	0.1300	0.1393	0.1486	0.1579
8	0.16238	0.0813	0.0894	0.0975	0.1056	0.1138	0.1219	0.1300	0.1381
9	0.14434	0.0722	0.0794	0.0866	0.0939	0.1011	0.1083	0.1156	0.1228
10	0.12990	0.0649	0.0714	0.0779	0.0844	0.0909	0.0974	0.1039	0.1105
11	0.11809	0.0590	0.0649	0.0708	0.0767	0.0826	0.0885	0.0944	0.1005
12	0.10825	0.0541	0.0595	0.0649	0.0702	0.0755	0.0808	0.0861	0.0921
13	0.09992	0.0499	0.0549	0.0599	0.0649	0.0699	0.0749	0.0799	0.0850
14	0.09278	0.0464	0.0510	0.0556	0.0602	0.0648	0.0694	0.0740	0.0789
16	0.08119	0.0406	0.0446	0.0486	0.0526	0.0566	0.0606	0.0646	0.0691
18	0.07217	0.0361	0.0396	0.0431	0.0466	0.0501	0.0536	0.0571	0.0614
20	0.06495	0.0325	0.0357	0.0389	0.0421	0.0453	0.0485	0.0517	0.0553
24	0.05412	0.0270	0.0298	0.0326	0.0354	0.0382	0.0410	0.0438	0.0460
25	0.05196	0.0260	0.0286	0.0312	0.0338	0.0364	0.0390	0.0416	0.0442
26	0.04996	0.0250	0.0275	0.0300	0.0325	0.0350	0.0375	0.0400	0.0425
27	0.04811	0.0240	0.0264	0.0288	0.0312	0.0336	0.0360	0.0384	0.0409
28	0.04639	0.0232	0.0254	0.0276	0.0298	0.0324	0.0347	0.0370	0.0395
30	0.04330	0.0216	0.0238	0.0260	0.0282	0.0304	0.0326	0.0348	0.0368
32	0.04059	0.0203	0.0223	0.0243	0.0263	0.0283	0.0303	0.0323	0.0345
36	0.03608	0.0180	0.0198	0.0216	0.0234	0.0252	0.0270	0.0288	0.0307
40	0.03247	0.0162	0.0178	0.0194	0.0210	0.0226	0.0242	0.0258	0.0276
42	0.03093	0.0155	0.0170	0.0186	0.0201	0.0217	0.0232	0.0247	0.0263
44	0.02952	0.0147	0.0162	0.0177	0.0192	0.0207	0.0222	0.0237	0.0251
48	0.02706	0.0135	0.0148	0.0161	0.0174	0.0187	0.0200	0.0213	0.0230
56	0.02319	0.0116	0.0127	0.0138	0.0149	0.0160	0.0171	0.0182	0.0197
60	0.02165	0.0108	0.0119	0.0130	0.0141	0.0152	0.0162	0.0173	0.0184
64	0.02029	0.0101	0.0111	0.0121	0.0131	0.0141	0.0151	0.0161	0.0173
72	0.01804	0.0090	0.0099	0.0107	0.0115	0.0123	0.0131	0.0139	0.0153
80	0.01623	0.0081	0.0089	0.0097	0.0105	0.0113	0.0121	0.0129	0.0138
90	0.01443	0.0072	0.0079	0.0087	0.0094	0.0101	0.0108	0.0116	0.0123
96	0.01353	0.0068	0.0074	0.0081	0.0088	0.0095	0.0101	0.0108	0.0115

METRIC THREAD CONSTANTS

Figures in the table show amount to subtract from O.D. of screw to obtain specific percentages of thread.

mm Pitch	Double Depth	50% Thread	55% Thread	60% Thread	65% Thread	70% Thread	75% Thread	80% Thread	85% Thread
4.00	5.1963	2.5982	2.8580	3.1178	3.3776	3.6374	3.8972	4.1570	4.4169
3.50	4.5466	2.2733	2.5006	2.7280	2.9553	3.1826	3.4100	3.6373	3.8646
3.00	3.8969	1.9485	2.1433	2.3381	2.5330	2.7278	2.9227	3.1175	3.3124
2.50	3.2476	1.6238	1.7862	1.9486	2.1109	2.2733	2.4357	2.5981	2.7605
2.00	2.5979	1.2990	1.4829	1.5587	1.6886	1.8185	1.9484	2.0783	2.2082
1.75	2.2733	1.1367	1.2503	1.3640	1.4776	1.5913	1.7050	1.8186	1.9323
1.50	1.9487	0.9744	1.0718	1.1692	1.2667	1.3641	1.4615	1.5590	1.6564
1.25	1.6236	0.8118	0.8930	0.9742	1.0553	1.1365	1.2177	1.2989	1.3801
1.00	1.2990	0.6495	0.7145	0.7794	0.8444	0.9093	0.9743	1.0392	1.1042
0.90	1.1687	0.5844	0.6428	0.7012	0.7597	0.8181	0.8765	0.9350	0.9934
0.80	1.0394	0.5197	0.5717	0.6236	0.6756	0.7276	0.7796	0.8315	0.8835
0.75	0.9743	0.4871	0.5359	0.5846	0.6333	0.6820	0.7307	0.7794	0.8282
0.70	0.9093	0.4547	0.5001	0.5456	0.5910	0.6365	0.6820	0.7274	0.7729
0.60	0.7793	0.3897	0.4286	0.4676	0.5065	0.5455	0.5845	0.6234	0.6624
0.50	0.6421	0.3211	0.3532	0.3853	0.4174	0.4495	0.4816	0.5137	0.5458
0.45	0.5847	0.2924	0.3216	0.3508	0.3801	0.4093	0.4385	0.4678	0.4970
0.40	0.5197	0.2599	0.2858	0.3118	0.3378	0.3638	0.3898	0.4158	0.4417
0.35	0.4547	0.2274	0.2501	0.2728	0.2956	0.3183	0.3410	0.3638	0.3865
0.30	0.3896	0.1948	0.2143	0.2338	0.2532	0.2727	0.2922	0.3117	0.3312
0.25	0.3246	0.1663	0.1785	0.1948	0.2110	0.2272	0.2434	0.2597	0.2759

TAP RECOMMENDATIONS FOR CLASSES OF THREAD

Unified and American National Screw Threads

Nominal Size	T.P.I. NC/UNC	T.P.I. NC/UNC	RECOMMENDED TAP FOR CLASS OF THREAD				PITCH DIAMETER LIMITS FOR CLASS OF THREAD				
			Class 2	Class 3	Class 2B	Class 3B	Min. All (Basic)	Max. Class 2	Max. Class 3	Max Class 2B	Max. Class 3B
0	—	80	GH1	GH1	GH2	GH1	0.0519	0.0536	0.0532	0.0542	0.0536
1	64	—	GH1	GH1	GH2	GH1	0.0629	0.0648	0.0643	0.0655	0.0648
	—	72	GH1	GH1	GH2	GH1	0.0640	0.0658	0.0653	0.0665	0.0659
2	56	—	GH1	GH1	GH2	GH1	0.0744	0.0764	0.0759	0.0772	0.0765
	—	64	GH1	GH1	GH2	GH1	0.0759	0.0778	0.0773	0.0786	0.0779
3	48	—	GH1	GH1	GH2	GH1	0.0855	0.0877	0.0871	0.0885	0.0877
	—	56	GH1	GH1	GH2	GH1	0.0874	0.0894	0.0889	0.0902	0.0895
4	40	—	GH2	GH1	GH2	GH2	0.0958	0.0982	0.0975	0.0991	0.0982
	—	48	GH1	GH1	GH2	GH1	0.0985	0.1007	0.1001	0.1016	0.1008
5	40	—	GH2	GH1	GH2	GH2	0.1088	0.1112	0.1105	0.1121	0.1113
	—	44	GH1	GH1	GH2	GH1	0.1102	0.1125	0.1118	0.1134	0.1126
6	32	—	GH2	GH1	GH3	GH2	0.1177	0.1204	0.1196	0.1214	0.1204
	—	40	GH2	GH1	GH2	GH2	0.1218	0.1242	0.1235	0.1252	0.1243
8	32	—	GH2	GH1	GH3	GH2	0.1437	0.1464	0.1456	0.1475	0.1465
	—	36	GH2	GH1	GH2	GH2	0.1460	0.1485	0.1478	0.1496	0.1487
10	24	—	GH3	GH1	GH3	GH3	0.1629	0.1662	0.1653	0.1672	0.1661
	—	32	GH2	GH1	GH3	GH2	0.1697	0.1724	0.1716	0.1736	0.1726
12	24	—	GH3	GH1	GH3	GH3	0.1889	0.1922	0.1913	0.1933	0.1922
	—	28	GH3	GH1	GH3	GH3	0.1928	0.1959	0.1950	0.1970	0.1959
1/4	20	—	GH3	GH2	GH5	GH3	0.2175	0.2211	0.2201	0.2224	0.2211
	—	28	GH3	GH1	GH4	GH3	0.2268	0.2299	0.2290	0.2311	0.2300
5/16	18	—	GH3	GH2	GH5	GH3	0.2764	0.2805	0.2794	0.2817	0.2803
	—	24	GH3	GH1	GH4	GH3	0.2854	0.2887	0.2878	0.2902	0.2890
3/8	16	—	GH3	GH2	GH5	GH3	0.3344	0.3389	0.3376	0.3401	0.3387
	—	24	GH3	GH1	GH4	GH3	0.3479	0.3512	0.3503	0.3528	0.3516
7/16	14	—	GH5	GH3	GH5	GH3	0.3911	0.3960	0.3947	0.3972	0.3957
	—	20	GH3	GH1	GH5	GH3	0.4050	0.4086	0.4076	0.4104	0.4091
1/2	13	—	GH5	GH3	GH5	GH3	0.4500	0.4552	0.4537	0.4565	0.4548
	—	20	GH3	GH1	GH5	GH3	0.4675	0.4711	0.4701	0.4731	0.4717

TAP RECOMMENDATIONS FOR CLASSES OF THREAD

Unified and American National Screw Threads

Nominal Size	T.P.I. NC/UNC	T.P.I. NC/UNC	RECOMMENDED TAP FOR CLASS OF THREAD				PITCH DIAMETER LIMITS FOR CLASS OF THREAD				
			Class 2	Class 3	Class 2B	Class 3B	Min. All (Basic)	Max. Class 2	Max. Class 3	Max Class 2B	Max. Class 3B
9/16	12	—	GH5	GH3	GH5	GH3	0.5084	0.5140	0.5124	0.5152	0.5135
	—	18	GH3	GH2	GH5	GH3	0.5264	0.5305	0.5294	0.5323	0.5308
5/8	11	—	GH5	GH3	GH5	GH3	0.5660	0.5719	0.5702	0.5732	0.5714
	—	18	GH3	GH2	GH5	GH3	0.5889	0.5930	0.5919	0.5949	0.5934
3/4	10	—	GH5	GH3	GH5	GH5	0.6850	0.6914	0.6895	0.6927	0.6907
	—	16	GH3	GH2	GH5	GH3	0.7094	0.7139	0.7126	0.7159	0.7143
7/8	9	—	GH6	GH4	GH6	GH4	0.8028	0.8098	0.8077	0.8110	0.8089
	—	14	GH4	GH2	GH6	GH4	0.8286	0.8335	0.8322	0.8356	0.8339
1	8	—	GH6	GH4	GH6	GH4	0.9188	0.9264	0.9242	0.9276	0.9254
	—	12	GH4	GH2	GH6	GH4	0.9459	0.9515	0.9499	0.9535	0.9516
	—	14*	GH4	GH2	GH6	GH4	0.9536	0.9585	0.9572	0.9609	0.9590
1.1/8	7	—	GH8	GH4	GH8	GH4	1.0322	1.0407	1.0381	1.0416	1.0393
	—	12	GH4	GH4	GH6	GH4	1.0709	1.0765	1.0749	1.0787	1.0768
1.1/4	7	—	GH8	GH4	GH8	GH4	1.1572	1.1657	1.1631	1.1668	1.1644
	—	12	GH4	GH4	GH6	GH4	1.1959	1.2015	1.1999	1.2039	1.2019
1.3/8	6	—	GH8	GH4	GH8	GH4	1.2667	1.2768	1.2738	1.2771	1.2745
	—	12	GH4	GH4	GH6	GH4	1.3209	1.3265	1.3249	1.3291	1.3270
1.1/2	6	—	GH8	GH4	GH8	GH4	1.3917	1.4018	1.3988	1.4022	1.3996
	—	12	GH4	GH4	GH6	GH4	1.4459	1.4515	1.4499	1.4542	1.4522

*UNS

These are general tap recommendations to produce the Class of Thread indicated in average materials when used with reasonable care. However, if the tap specified does not give a satisfactory gauge fit in the work, please consult the factory

BASIC THREAD DIMENSIONS USCTI

Table 352

Nominal Size and TPI		Basic Major Diameter	Basic Pitch Diameter	Basic Minor Diameter	Max Minor Diameter Class 3B Internal Thread
1/16	64	.0625	.0524	.0422	.0518
3/32	48	.0938	.0803	.0667	.0793
1/8	40	.1250	.1088	.0925	.1062
5/32	32	.1563	.1360	.1157	.1311
5/32	36	.1563	.1382	.1202	.1339
3/16	24	.1875	.1604	.1334	.1530
3/16	32	.1875	.1672	.1469	.1616
7/32	24	.2188	.1917	.1646	.1834
7/32	32	.2188	.1985	.1782	.1922
1/4	20	.2500	.2175	.1850	.2067
1/4	24	.2500	.2229	.1959	.2139
1/4	28	.2500	.2268	.2036	.2190
1/4	32	.2500	.2297	.2094	.2229
5/16	18	.3125	.2764	.2403	.2630
5/16	20	.3125	.2800	.2476	.2680
5/16	24	.3125	.2854	.2584	.2754
5/16	32	.3125	.2922	.2719	.2847
3/8	16	.3750	.3344	.2938	.3182
3/8	20	.3750	.3425	.3100	.3297
3/8	24	.3750	.3479	.3209	.3372
3/8	32	.3750	.3547	.3344	.3469
7/16	14	.4375	.3911	.3447	.3717
7/16	20	.4375	.4050	.3726	.3916
7/16	24	.4375	.4104	.3834	.3994
7/16	28	.4375	.4143	.3911	.4051
1/2	12	.5000	.4459	.3918	.4223
1/2	13	.5000	.4500	.4001	.4284
1/2	20	.5000	.4675	.4351	.4537
1/2	24	.5000	.4729	.4459	.4619
1/2	28	.5000	.4768	.4536	.4676
9/16	12	.5625	.5084	.4542	.4843
9/16	18	.5625	.5264	.4903	.5106
9/16	24	.5625	.5354	.5084	.5244
5/8	11	.6250	.5660	.5069	.5391
5/8	12	.6250	.5709	.5168	.5463
5/8	18	.6250	.5889	.5528	.5730
5/8	24	.6250	.5979	.5709	.5869
11/16	11	.6875	.6285	.5694	.6012
11/16	12	.6875	.6334	.5793	.6085
11/16	16	.6875	.6469	.6063	.6284
11/16	24	.6875	.6604	.6334	.6494
3/4	10	.7500	.6850	.6201	.6545
3/4	12	.7500	.6959	.6418	.6707
3/4	16	.7500	.7094	.6688	.6908
3/4	20	.7500	.7175	.6850	.7037
13/16	12	.8125	.7584	.7042	.7329
13/16	16	.8125	.7719	.7313	.7533
13/16	20	.8125	.7800	.7475	.7662

Nominal Size and TPI		Basic Major Diameter	Basic Pitch Diameter	Basic Minor Diameter	Max Minor Diameter Class 3B Internal Thread
7/8	9	.8750	.8028	.7307	.7681
7/8	12	.8750	.8209	.7668	.7952
7/8	14	.8750	.8286	.7822	.8068
7/8	16	.8750	.8344	.7938	.8158
7/8	18	.8750	.8389	.8028	.8230
7/8	20	.8750	.8425	.8100	.8287
15/16	12	.9375	.8834	.8293	.8575
15/16	16	.9375	.8969	.8563	.8783
15/16	20	.9375	.9050	.8725	.8912
1	8	1.0000	.9188	.8376	.8797
1	12	1.0000	.9459	.8918	.9198
1	14	1.0000	.9536	.9072	.9315
1	16	1.0000	.9594	.9188	.9408
1	20	1.0000	.9675	.9350	.9537
1-1/6	12	1.0625	1.0084	.9543	.9823
1-1/6	16	1.0625	1.0219	.9813	1.0033
1-1/6	18	1.0625	1.0264	.9903	1.0105
1-1/8	7	1.1250	1.0322	.9394	.9875
1-1/8	8	1.1250	1.0438	.9626	1.0047
1-1/8	12	1.1250	1.0709	1.0168	1.0448
1-1/8	16	1.1250	1.0844	1.0438	1.0658
1-1/8	18	1.1250	1.0889	1.0528	1.0730
1-3/16	12	1.1875	1.1334	1.0793	1.1073
1-3/16	16	1.1875	1.1469	1.1063	1.1283
1-3/16	18	1.1875	1.1514	1.1153	1.1355
1-1/4	7	1.2500	1.1572	1.0644	1.1125
1-1/4	8	1.2500	1.1688	1.0876	1.1297
1-1/4	12	1.2500	1.1959	1.1418	1.1698
1-1/4	16	1.2500	1.2094	1.1688	1.1908
1-1/4	18	1.2500	1.2139	1.1778	1.1980
1-5/16	12	1.3125	1.2584	1.2043	1.2323
1-5/16	16	1.3125	1.2719	1.2313	1.2533
1-5/16	18	1.3125	1.2764	1.2403	1.2605
1-3/8	6	1.3750	1.2667	1.1585	1.2146
1-3/8	8	1.3750	1.2938	1.2126	1.2547
1-3/8	12	1.3750	1.3209	1.2668	1.2948
1-3/8	16	1.3750	1.3344	1.2938	1.3158
1-3/8	18	1.3750	1.3389	1.3028	1.3230
1-7/16	12	1.4375	1.3834	1.3293	1.3573
1-7/16	16	1.4375	1.3969	1.3563	1.3783
1-7/16	18	1.4375	1.4014	1.3653	1.3855
1-1/2	6	1.5000	1.3917	1.2835	1.3396
1-1/2	8	1.5000	1.4188	1.3376	1.3797
1-1/2	12	1.5000	1.4459	1.3918	1.4198
1-1/2	16	1.5000	1.4594	1.4188	1.4408
1-1/2	18	1.5000	1.4639	1.4278	1.4480
1-1/2	16	1.5625	1.5219	1.4813	1.5033
1-1/2	18	1.5625	1.5264	1.4903	1.5105

BASIC THREAD DIMENSIONS USCTI

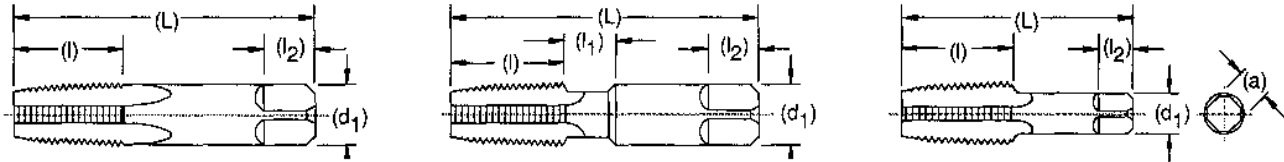
Table 352

Nominal Size and TPI		Basic Major Diameter	Basic Pitch Diameter	Basic Minor Diameter	Max Minor Diameter Class 3B Internal Thread
1-5/8	6	1.6250	1.5167	1.4085	1.4646
1-5/8	8	1.6250	1.5438	1.4626	1.5047
1-5/8	12	1.6250	1.5709	1.5168	1.5448
1-5/8	16	1.6250	1.5844	1.5438	1.5658
1-5/8	18	1.6250	1.5889	1.5528	1.5730
1-11/16	16	1.6875	1.6469	1.6063	1.6283
1-11/16	18	1.6875	1.6514	1.6153	1.6355
1-3/4	5	1.7500	1.6201	1.4902	1.5575
1-3/4	8	1.7500	1.6688	1.5876	1.6297
1-3/4	12	1.7500	1.6959	1.6418	1.6698
1-3/4	16	1.7500	1.7094	1.6688	1.6908
1-13/16	16	1.8125	1.7719	1.7313	1.7533
1-7/8	8	1.8750	1.7938	1.7126	1.7547
1-7/8	12	1.8750	1.8209	1.7668	1.7948
1-7/8	16	1.8750	1.8344	1.7938	1.8158
1-15/16	16	1.9375	1.8969	1.8563	1.8783
2	4-1/2	2.0000	1.8557	1.7113	1.7861
2	8	2.0000	1.9188	1.8376	1.8797
2	12	2.0000	1.9459	1.8918	1.9198
2	16	2.0000	1.9594	1.9188	1.9408
2-1/16	16	2.0625	2.0219	1.9813	2.0033
2-1/8	8	2.1250	2.0438	1.9626	2.0047
2-1/8	12	2.1250	2.0709	2.0168	2.0448
2-1/8	16	2.1250	2.0844	2.0438	2.0658
2-3/16	16	2.1875	2.1469	2.1063	2.1283
2-1/4	4-1/2	2.2500	2.1057	1.9613	2.0361
2-1/4	8	2.2500	2.1688	2.0876	2.1297
2-1/4	12	2.2500	2.1959	2.1418	2.1698
2-1/4	16	2.2500	2.2094	2.1688	2.1908
2-5/16	16	2.3125	2.2719	2.2313	2.2533
2-3/8	12	2.3750	2.3209	2.2668	2.2948
2-3/8	16	2.3750	2.3344	2.2938	2.3158
2-7/16	16	2.4375	2.3969	2.3563	2.3783
2-1/2	4	2.5000	2.3376	2.1752	2.2594
2-1/2	8	2.5000	2.4188	2.3376	2.3797
2-1/2	12	2.5000	2.4459	2.3918	2.4198
2-1/2	16	2.5000	2.4594	2.4188	2.4408

Nominal Size and TPI		Basic Major Diameter	Basic Pitch Diameter	Basic Minor Diameter	Max Minor Diameter Class 3B Internal Thread
2-5/8	12	2.6250	2.5709	2.5168	2.5448
2-5/8	16	2.6250	2.5844	2.5438	2.5658
2-3/4	4	2.7500	2.5876	2.4252	2.5094
2-3/4	8	2.7500	2.6688	2.5876	2.6297
2-3/4	12	2.7500	2.6959	2.6418	2.6698
2-3/4	16	2.7500	2.7094	2.6688	2.6908
2-7/8	12	2.8750	2.8209	2.7668	2.7948
2-7/8	16	2.8750	2.8344	2.7938	2.8158
3	4	3.0000	2.8376	2.6752	2.7594
3	8	3.0000	2.9188	2.8376	2.8797
3	12	3.0000	2.9459	2.8918	2.9198
3	16	3.0000	2.9594	2.9188	2.9408
3-1/8	12	3.1250	3.0709	3.0168	3.0448
3-1/8	16	3.1250	3.0844	3.0438	3.0658
3-1/4	4	3.2500	3.0876	2.9252	3.0094
3-1/4	8	3.2500	3.1688	3.0876	3.1297
3-1/4	12	3.2500	3.1959	3.1418	3.1698
3-1/4	16	3.2500	3.2094	3.1688	3.1908
3-3/8	12	3.3750	3.3209	3.2668	3.2948
3-3/8	16	3.3750	3.3344	3.2938	3.3158
3-3/8	4	3.5000	3.3376	3.1752	3.2594
3-1/2	8	3.5000	3.4188	3.3376	3.3797
3-1/2	12	3.5000	3.4459	3.3918	3.4198
3-1/2	16	3.5000	3.4594	3.4188	3.4408
3-5/8	12	3.6250	3.5709	3.5168	3.5448
3-5/8	16	3.6250	3.5844	3.5438	3.5658
3-3/4	4	3.7500	3.5876	3.4252	3.5094
3-3/4	8	3.7500	3.6688	3.5876	3.6297
3-3/4	12	3.7500	3.6959	3.6418	3.6698
3-3/4	16	3.7500	3.7094	3.6688	3.6908
3-7/8	12	3.8750	3.8209	3.7668	3.7948
3-7/8	16	3.8750	3.8344	3.7938	3.8158
4	4	4.0000	3.8376	3.6752	3.7594
4	8	4.0000	3.9188	3.8376	3.8797
4	12	4.0000	3.9459	3.8918	3.9198
4	16	4.0000	3.9594	3.9188	3.9408
4	16	1.8125	1.7719	1.7313	1.7533

STANDARD PIPE TAP DIMENSIONS

STRAIGHT AND TAPER, GROUND THREAD (Ref. USCTI Table 311)



General Dimensions

Dimensions - Inches						
Nominal Size Inches	Length Overall L	Length of Thread l ₁	Length of Square l ₂	Dia. of Shank d ₁	Size of Square a	Length Optional Neck l _h
1/16	2.13	.69	.38	.3125	.234	.375
1/8	2.13	.75	.38	.3125	.234	...
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	...
3/4	3.25	1.38	.69	.9063	.679	...
1"	3.75	1.75	.81	1.1250	.843	...
1-1/4	4.00	1.75	.94	1.3125	.984	...
1-1/2	4.25	1.75	1.00	1.5000	1.125	...
2"	4.25	1.75	1.13	1.8750	1.406	...
2-1/2	5.50	2.56	1.25	2.2500	1.687	...
3"	6.00	2.63	1.38	2.6250	1.968	...
3-1/2	6.50	2.69	1.50	2.8125	2.108	...
4"	6.75	2.75	1.56	3.0000	2.250	...

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

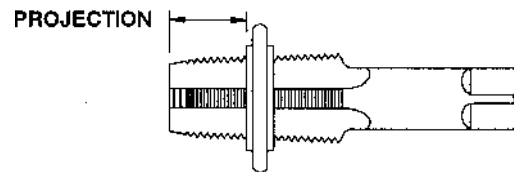
Note

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

TAPER PIPE TAP, THREAD LIMITS, GROUND THREAD

(Ref. USCTI Table 338)

American National Standard Taper Pipe Thread Form (NPT)
Aeronautical National Taper Pipe Thread Form (ANPT)
Dryseal American National Standard Taper Pipe Thread Form (NPTF)



Tap Thread Limits						Reference Dimensions	
Nominal Size Inches	Threads per Inch	Projection* Inches	Projection Tolerance + or -	Taper Per Foot Limits		L ₁ Length	Tap Drill Size ** NPT,ANPT,NPTF
1/16	27	.312	.063	.719	.781	.160	C
1/8	27	.312	.063	.719	.781	.1615	Q
1/4	18	.459	.063	.719	.781	.2278	7/16
3/8	18	.454	.063	.719	.781	.240	9/16
1/2	14	.579	.063	.719	.781	.320	45/64
3/4	14	.565	.063	.719	.781	.339	29/32
1"	11-1/2	.678	.094	.719	.781	.400	1-9/64
1-1/4	11-1/2	.686	.094	.719	.781	.420	1-31/64
1-1/2	11-1/2	.699	.094	.719	.781	.420	1-23/32
2"	11-1/2	.667	.094	.719	.781	.436	2-3/16
2-1/2	8	.925	.094	.734	.781	.682	2-39/64
3"	8	.925	.094	.734	.781	.766	3-15/64
3-1/2	8	.938	.125	.734	.781	.821	
4	8	.950	.125	.734	.781	.844	

Note:

- * Distance small end of tap projects through L₁ Taper Thread Ring Gage.
- ** Recommended size given permit direct tapping without reaming the hole, but only give a full thread for approx. the L₁ length.

Lead Tolerance

A maximum lead deviation of plus or minus .0005" within any two threads not farther than 1" is permitted.

Standard System of Tap Marking

Taps, Dies and other types of threading tools are marked according to the Standard System of Marking Ground Thread Taps. The tools are marked with the nominal size, number of threads per inch (pitch), and the appropriate thread form symbol and pitch diameter symbol. Symbols typically used are listed below.



Standard System of Tap Marking

Thread Form Symbols

ACME-C	Acme Thread- Centralizing
ACME-G	Acme Thread - General Purpose
AMO	American Standard Microscope Objective Thread
ANPT	Aeronautical National Form Taper Pipe Thread (Ground thread tap marked NPT)
BA	British Association Standard Thread
BSF	British Standard Fine Thread
BSPP	British Standard Pipe Parallel Thread
BSPT	British Standard Pipe Taper Thread
BSW	British Standard Whitworth Coarse Thread
M	Metric Screw Thread Series
N	American National 8, 12 and 16 Thread Series (8N, 12N, 16N)
N BUTT	American Buttress Screw Thread
NC	American National Coarse Thread
NEF	American National Extra Fine Thread
NF	American National Fine Thread
NGO	National Gas Outlet Thread
NGT	National Gas Taper Thread (see SGT)
NH	American National Hose Coupling and Fire Hose Coupling Threads
NPS	American National Pipe Straight Pipe Thread
NPSC	American National Standard Straight Pipe Thread in Pipe Couplings (Tap marked NPS)
NPSF	Dryseal American National Standard Fuel Internal Straight Pipe Thread
NPSH	American National Standard Straight Pipe Thread for Hose Couplings
NPSI	Dryseal American National Standard Intermediate Internal Straight Pipe Thread
NPSL	American National Standard Straight Pipe Thread Loose Fitting Mechanical Joints with Locknuts
NPSM	American National Standard Straight Pipe Thread for Free-Fitting Mechanical Joints for Fixtures (Tap marked NPS)
NPT	American National Standard Taper Pipe Thread (See ANPT, NPTR)
NPTF	Dryseal American National Standard Taper Pipe Thread
NPTR	American National Standard Taper Pipe Thread for Railing Joints (Taps marked NPT)
NS	American National Thread - Special
PG	Panzer Gewindeboher
PTF	Dryseal SAE Short Taper Pipe Thread
SGT	Special Gas Taper Thread
SPL-PTF	Dryseal Special Taper Pipe Thread
STI	Screw Thread Insert Threads for Helical Coil Wire Inserts
Stub Acme	Stub Acme Thread

Standard System of Tap Marking

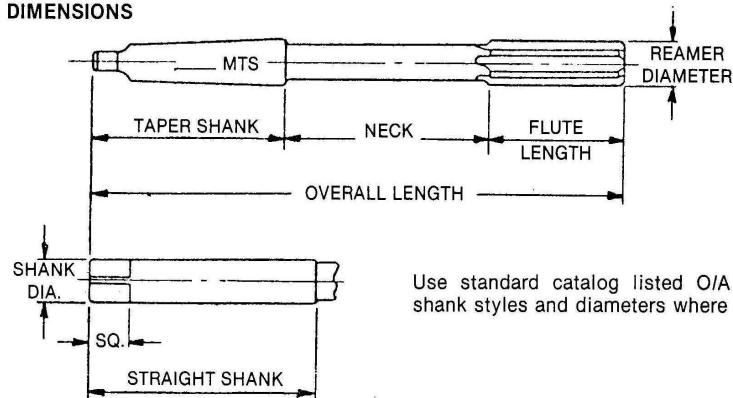
Thread Form Symbols

*UN	Unified Constant Pitch Thread Series
*UNC	Unified Coarse Thread Series
*UNF	Unified Fine Thread Series
*UNEF	Unified Extra Fine Thread Series
UNJ	Unified Thread Series with a 0.15011P to 0.18042P. Controlled Roil Radius on External Thread only.
UNJC or UNJF	Unified Thread Coarse or Fine Series with a 0.15011P to 0.18042P Controlled Root Radius on External Thread only.
UNM	Unified Miniature Thread Series
UNR	Unified Constant Pitch Thread Series with a 0.108P to 0.144P Controlled Root Radius; External Thread only
UNRC or UNRF	Unified Constant Pitch Coarse or Fine Thread Series with a 0.108P to 0.144P Controlled Root Radius; Ext. Thread only
*UNS	Unified Thread Special
V	60° thread with Truncated Crest and Root. The theoretical "V" Form is usually flattened to the user's specifications.
WHIT	British Standard Whitworth Special Thread

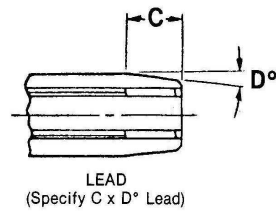
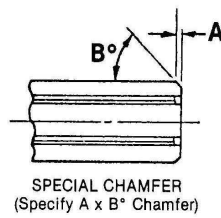
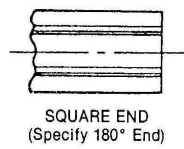
*Taps are not marked with "U" but with the symbol for the corresponding American Standard Thread form with which it is compatible.

Special Reamers

PHYSICAL DIMENSIONS



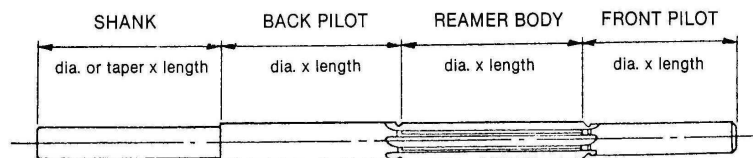
CORNER CONDITION



END CUTTING FEATURE



PILOT FEATURE



If front or back pilots are required, specify diameter, length, location and whether or not dust grooves are required.

Ordering Special Reamers

Refer to previous page

Diameter of Reamer

Tolerance

Number of Flutes

Flute Length

Length of Cut

(indicate Right or Left Hand Spiral)

Pilot Diameter & Length

Steps or Multiple Diameters

Type of Shank - Straight or Taper

Tapered Diameters

Large End

Small End

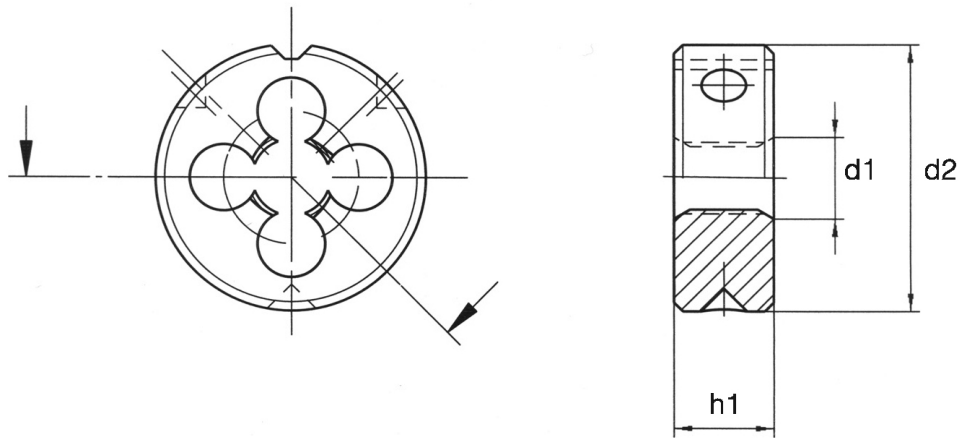
Degree of Taper

Tapered Flute Length

Chamfer Angle or Length

Any additional information

Ordering Special Dies



- 1 Diameter
- 2 Pitch
- 3 Class of Fit
- 4 Right or Left Hand
- 5 Thread Form
- 6 Lead - Single, Double etc.
- 7 Solid or Split Adjusting
- 8 Material to be threaded
- 9 Cutting new threads or rethreading existing threads
- 10 Outside diameter & thickness of die
- 11 Length of part to be threaded
- 12 Special features which might affect the die
- 13 Drawing of part or dies if possible