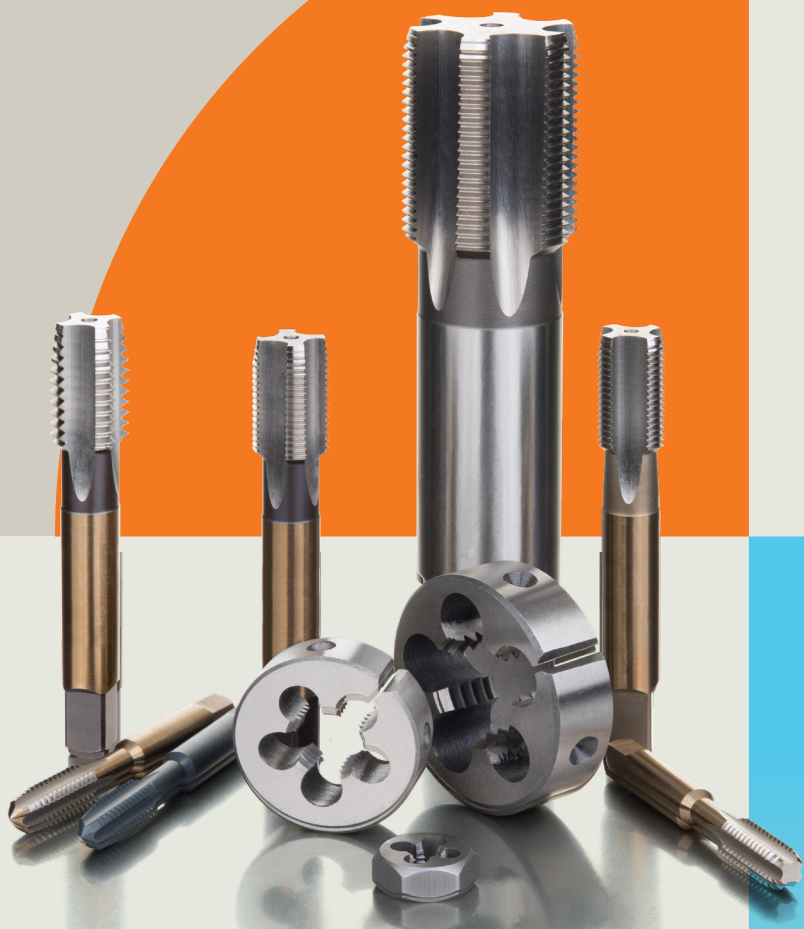




Dormer Pramet taps and dies



**Certainty
at every turn™**



	page #		page #
Hand Taps	2	E061NO2(M)	23
E061NO1(UNC)	4	E061NO3(M)	24
E061NO2(UNC)	6	E061NO6(M)	25
E061NO3(UNC)	8	E061NO1(MF)	26
E061NO6(UNC)	10	E061NO2(MF)	27
E071NO1(UNF)	12	E061NO3(MF)	28
E071NO2(UNF)	14	E061NO6(MF)	29
E071NO3(UNF)	16	E062NO2(UNC)	30
E071NO6(UNF)	18	E062NO2(UNF)	31
E061NO1(8UN)	19	E063NO2(UNC)	32
E061NO2(8UN)	20	E067NO3(STI-UNC)	33
E061NO3(8UN)	21	E067NO3(STI-UNF)	34
E061NO1(M)	22	E068NO2(UNC)	35
Pipe Taps	36	Dies	49
E710	37	F320	51
E708	38	F330	52
E712	39	F300	53
E721	40	F380	54
E714	41	F422	55
E711	42	F432	56
E709	43	F422	57
Drill Taps	44	F402	58
E651	45	F482	59
E654	46	Tap Wrenches	60
E650	47	L112	60
E653	48	L110	61
Union Butterfield Cross-over Index	62		

Thread form (THFT)													
Basic standard group (BSG)		ANSI	ANSI	ANSI	ANSI	ANSI	ANSI	ANSI	ANSI	ANSI	ANSI	ANSI	ANSI
Thread tolerance class (TCTR)		2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B
Threading application													
Usable length (ULDR)		1.5×D	1.5×D	1.5×D	1.5×D	1.5×D	1.5×D	1.5×D	1.5×D	1.5×D	1.5×D	1.5×D	1.5×D
Material code (BMC)		HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS
Tap chamfer style (TCS)		A 6-8	B 3.5-5	C 2-3	A 6-8 B 3.5-5 C 2-3	A 6-8	B 3.5-5	C 2-3	A 6-8 B 3.5-5 C 2-3	A 6-8	B 3.5-5	C 2-3	A 6-8
Flute Geometry (FDC)													
Hand (Cutting direction)													
Coating													
Product Family Code		E061NO1(UNC)	E061NO2(UNC)	E061NO3(UNC)	E061NO6(UNC)	E071NO1(UNF)	E071NO2(UNF)	E071NO3(UNF)	E071NO6(UNF)	E061NO1(8UN)	E061NO2(8UN)	E061NO3(8UN)	E061NO1(M)
PSF cutting diameters range		No.1 - 1.1/2	No.1 - 1.1/2	No.1 - 1.1/2	No.2 - 1.1/2	No.0 - 1.1/2	No.0 - 1.1/2	No.0 - 1.1/2	No.0 - 1"	1.1/8 - 2"	1.1/8 - 2"	1.1/8 - 2"	M3 - M30
P	P1	■	■	■	■	■	■	■	■	■	■	■	■
	P2	■	■	■	■	■	■	■	■	■	■	■	■
	P3	■	■	■	■	■	■	■	■	■	■	■	■
	P4	■	■	■	■	■	■	■	■	■	■	■	■
M	M1	■	■	■	■	■	■	■	■	■	■	■	■
	M2	■	■	■	■	■	■	■	■	■	■	■	■
	M3												
	M4												
K	K1	■	■	■	■	■	■	■	■	■	■	■	■
	K2	■	■	■	■	■	■	■	■	■	■	■	■
	K3	■	■	■	■	■	■	■	■	■	■	■	■
	K4	■	■	■	■	■	■	■	■	■	■	■	■
	K5	■	■	■	■	■	■	■	■	■	■	■	■
N	N1	■	■	■	■	■	■	■	■	■	■	■	■
	N2	■	■	■	■	■	■	■	■	■	■	■	■
	N3	■	■	■	■	■	■	■	■	■	■	■	■
	N4	■	■	■	■	■	■	■	■	■	■	■	■
	N5												
S	S1												
	S2												
	S3												
	S4												
H	H1												
	H2												
	H3												
	H4												

■ Primary use ■ Possible use

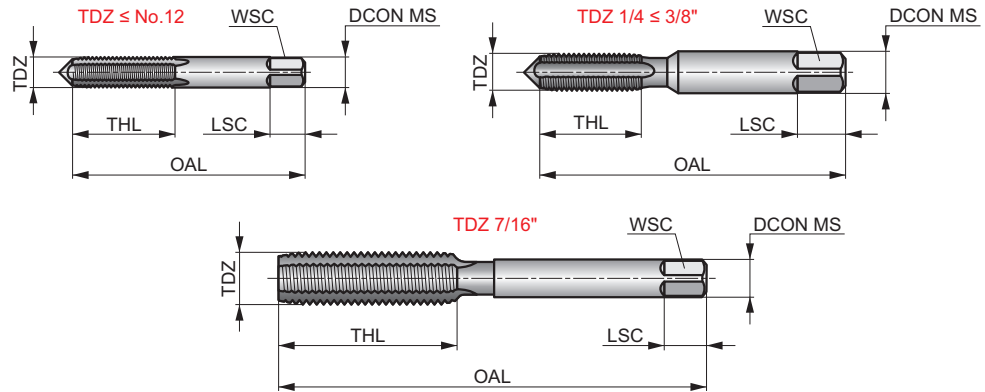
													
	ANSI	ANSI	ANSI	ANSI	ANSI	ANSI	ANSI	ANSI	ANSI	ANSI	ANSI	ANSI	ANSI
	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	2B 3B	3B	3B	3B	2B 3B	2B 3B	3B
													
	1.5xD	1.5xD	1.5xD	1.5xD	1.5xD	1.5xD	1.5xD	1.5xD	1.5xD	1.5xD	1.5xD	1.5xD	1.5xD
	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS
	B 3.5-5	C 2-3	A 6-8 B 3.5-5 C 2-3	A 6-8	B 3.5-5	C 2-3	A 6-8 B 3.5-5 C 2-3	B 3.5-5	B 3.5-5	B 3.5-5	C 2-3	C 2-3	B 3.5-5
													
													
	Bright	Bright	Bright	Bright	Bright	Bright	Bright	Bright	Bright	ST	Bright	Bright	Bright
													
	E061NO2(M)	E061NO3(M)	E061NO6(M)	E061NO1(MF)	E061NO2(MF)	E061NO3(MF)	E061NO6(MF)	E062NO2(UNC)	E062NO2(UNF)	E063NO2(UNC)	E067NO3 (STI-UNC)	E067NO3 (STI-UNF)	E068NO2(UNC)
	M3 - M30	M3 - M30	M3 - M20	M8 - M24	M8 - M24	M8 - M24	M8 - M24	1/4 - 1"	1/4 - 1"	1/4 - 1"	No.4 - 1/2	No.10 - 7/16	1/4 - 3/4
	 23	 24	 25	 26	 27	 28	 29	 30	 31	 32	 33	 34	 35
P1	■	■	■	■	■	■	■	■	■	■	■	■	■
P2	■	■	■	■	■	■	■	■	■	■	■	■	■
P3	■	■	■	■	■	■	■	■	■	■	■	■	■
P4	■	■	■	■	■	■	■	■	■	■	■	■	■
M1	■	■	■	■	■	■	■	■	■	■	■	■	■
M2	■	■	■	■	■	■	■	■	■	■	■	■	■
M3													
M4													
K1	■	■	■	■	■	■	■	■	■	■	■	■	■
K2	■	■	■	■	■	■	■	■	■	■	■	■	■
K3	■	■	■	■	■	■	■	■	■	■	■	■	■
K4	■	■	■	■	■	■	■	■	■	■	■	■	■
K5	■	■	■	■	■	■	■	■	■	■	■	■	■
N1	■	■	■	■	■	■	■	■	■	■	■	■	■
N2	■	■	■	■	■	■	■	■	■	■	■	■	■
N3	■	■	■	■	■	■	■	■	■	■	■	■	■
N4	■	■	■	■	■	■	■	■	■	■	■	■	■
N5													
S1													
S2													
S3													
S4													
H1													
H2													
H3													
H4													

E061NO1(UNC)



Straight Flute Taper Lead Hand Tap, UNC, ANSI Standard

Versatile tap design for hand use or machine tapping in medium strength, medium carbon and alloy steel. With a taper lead chamfer which produces the thinnest chips providing a very gradual and smooth cutting action. Considered to be the best choice for producing short through holes up to 1.5xD.



	ANSI	2B 3B
	1.5xD	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ■ 13	P3.1 ■ 13	P3.2 ■ 13	P3.3 ■ 10	P4.1 ■ 10	P4.2 ■ 7	M1.1 ■ 16	M1.2 ■ 13	M2.1 ■ 13
M2.2 ■ 13	K1.1 ■ 39	K1.2 ■ 30	K1.3 ■ 23	K2.1 ■ 33	K2.2 ■ 26	K2.3 ■ 20	K3.1 ■ 30	K3.2 ■ 23	K3.3 ■ 16	K4.1 ■ 26	K4.2 ■ 20	K4.3 ■ 13	K4.4 ■ 13
K4.5 ■ 10	K5.1 ■ 30	K5.2 ■ 23	K5.3 ■ 16	N1.1 ■ 39	N1.2 ■ 30	N1.3 ■ 20	N2.1 ■ 92	N2.2 ■ 82	N2.3 ■ 59	N3.1 ■ 112	N3.2 ■ 66	N3.3 ■ 33	N4.1 ■ 26
N4.2 ■ 13													

Product series replaces the Taper Lead Hand Taps of the 1528(UNC) and 1500(UNC) series.

Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0611X64H1N01	1	64	1.11/16	.375	.141	.110	.188	2	H1	T	1	8764852
E0612X56H1N01	2	56	1.3/4	.438	.141	.110	.188	3	H1	T	1	8764853
E0612X56H2N01	2	56	1.3/4	.438	.141	.110	.188	3	H2	T	1	8764854
E0613X48H2N01	3	48	1.13/16	.500	.141	.110	.188	3	H2	T	1	8764855
E0614X40H1N01	4	40	1.7/8	.563	.141	.110	.188	3	H1	T	1	8764856
E0614X40H2N01	4	40	1.7/8	.563	.141	.110	.188	3	H2	T	1	8764857
E0615X40H2N01	5	40	1.15/16	.512	.141	.110	.188	3	H2	T	1	8764858
E0616X32H1N01	6	32	2"	.512	.141	.110	.188	3	H1	T	1	8764859
E0616X32H2N01	6	32	2"	.512	.141	.110	.188	3	H2	T	1	8764860
E0616-32N01	6	32	2"	.512	.141	.110	.188	3	H3	T	1	5974286
E0618X32H1N01	8	32	2.1/8	.591	.168	.131	.250	4	H1	T	1	8764861
E0618X32H2N01	8	32	2.1/8	.591	.168	.131	.250	4	H2	T	1	8764862
E0618-32N01	8	32	2.1/8	.591	.168	.131	.250	4	H3	T	1	5974326
E06110X24H1N01	10	24	2.3/8	.791	.194	.152	.250	4	H1	T	1	8764863
E06110X24H2N01	10	24	2.3/8	.791	.194	.152	.250	4	H2	T	1	8764864
E06110-24N01	10	24	2.3/8	.791	.194	.152	.250	4	H3	T	1	5974292
E06112-24N01	12	24	2.3/8	.787	.220	.165	.281	4	H3	T	1	5974402
E06111/4X20H1N01	1/4	20	2.1/2	.634	.255	.191	.313	4	H1	T	1	8764865
E06111/4X20H11N01	1/4	20	2.1/2	.634	.255	.191	.313	4	H11	T	1	8764866
E06111/4X20H2N01	1/4	20	2.1/2	.634	.255	.191	.313	4	H2	T	1	8764867
E06111/4N01	1/4	20	2.1/2	.634	.255	.191	.313	4	H3	T	1	5974924

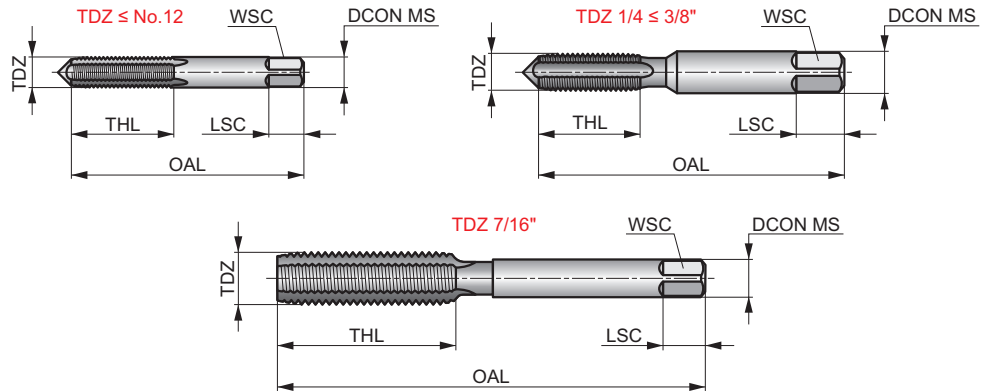
Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0611/4X20H5N01	1/4	20	2.1/2	.634	.255	.191	.313	4	H5	T	1	8764868
E0615/16X18H11N01	5/16	18	2.23/32	.752	.318	.238	.375	4	H11	T	1	8764869
E0615/16X18H2N01	5/16	18	2.23/32	.752	.318	.238	.375	4	H2	T	1	8764870
E0615/16N01	5/16	18	2.23/32	.752	.318	.238	.375	4	H3	T	1	5974272
E0613/8X16H11N01	3/8	16	2.15/16	.791	.381	.286	.438	4	H11	T	1	8764871
E0613/8X16H2N01	3/8	16	2.15/16	.791	.381	.286	.438	4	H2	T	1	8764872
E0613/8N01	3/8	16	2.15/16	.791	.381	.286	.438	4	H3	T	1	5974267
E0613/8X16H5N01	3/8	16	2.15/16	.791	.381	.286	.438	4	H5	T	1	8764873
E0617/16N01	7/16	14	3.5/32	.906	.323	.242	.406	4	H3	T	1	5974298
E0611/2X13H11N01	1/2	13	3.3/8	.906	.367	.275	.438	4	H11	T	1	8764874
E0611/2X13H2N01	1/2	13	3.3/8	.906	.367	.275	.438	4	H2	T	1	8764875
E0611/2N01	1/2	13	3.3/8	.906	.367	.275	.438	4	H3	T	1	5974912
E0611/2X13H5N01	1/2	13	3.3/8	.906	.367	.275	.438	4	H5	T	1	8764876
E0619/16N01	9/16	12	3.19/32	.984	.429	.322	.500	4	H3	T	1	5974347
E0615/8X11H11N01	5/8	11	3.13/16	.984	.480	.360	.563	4	H11	T	1	8764877
E0615/8N01	5/8	11	3.13/16	.984	.480	.360	.563	4	H3	T	1	5974278
E0613/4N01	3/4	10	4.1/4	1.161	.590	.442	.688	4	H3	T	1	5974259
E0617/8N01	7/8	9	4.11/16	1.161	.697	.523	.750	4	H4	T	1	5974310
E0611N01	1"	8	5.1/8	1.398	.800	.600	.813	4	H4	T	1	5974936
E0611.1/8N01	1.1/8	7	5.7/16	1.398	.895	.671	.875	4	H4	T	1	5974878
E0611.1/4N01	1.1/4	7	5.3/4	1.634	1.021	.765	1.000	4	H4	T	1	5974859
E0611.3/8N01	1.3/8	6	6.1/16	1.870	1.109	.830	1.063	4	H4	T	1	5974893
E0611.1/2N01	1.1/2	6	6.3/8	1.870	1.233	.952	1.125	4	H4	T	1	5974845

E061NO2(UNC)



Straight Flute Plug Lead Hand Tap, UNC, ANSI Standard

Versatile tap design for hand use or machine tapping in medium strength, medium carbon and alloy steel. With a plug lead chamfer which gives the tap a gradual cutting action. Great for producing through holes, as they are almost as easy as taper lead taps to start, yet also offer a more complete set of threads.



UNC	ANSI	2B 3B
	1.5×D	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ■ 13	P3.1 ■ 13	P3.2 ■ 13	P3.3 ■ 10	P4.1 ■ 10	P4.2 ■ 7	M1.1 ■ 16	M1.2 ■ 13	M2.1 ■ 13
M2.2 ■ 13	K1.1 ■ 39	K1.2 ■ 30	K1.3 ■ 23	K2.1 ■ 33	K2.2 ■ 26	K2.3 ■ 20	K3.1 ■ 30	K3.2 ■ 23	K3.3 ■ 16	K4.1 ■ 26	K4.2 ■ 20	K4.3 ■ 13	K4.4 ■ 13
K4.5 ■ 10	K5.1 ■ 30	K5.2 ■ 23	K5.3 ■ 16	N1.1 ■ 39	N1.2 ■ 30	N1.3 ■ 20	N2.1 ■ 92	N2.2 ■ 82	N2.3 ■ 59	N3.1 ■ 112	N3.2 ■ 66	N3.3 ■ 33	N4.1 ■ 26
N4.2 ■ 13													

Product series replaces the Plug Lead Hand Taps of the 1528(UNC), 1500(UNC) and 1500OV(UNC) series.

Product series is an alternative for the Plug Lead Hand Taps of the 1508(UNC) series.

Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0611X64H1N02	1	64	1.11/16	.375	.141	.110	.188	2	H1	P	1	8764878
E0612X56H1N02	2	56	1.3/4	.438	.141	.110	.188	3	H1	P	1	8764879
E0612X56H2N02	2	56	1.3/4	.438	.141	.110	.188	3	H2	P	1	8764880
E0613X48H2N02	3	48	1.13/16	.500	.141	.110	.188	3	H2	P	1	8764881
E0614X40H1N02	4	40	1.7/8	.563	.141	.110	.188	3	H1	P	1	8764882
E0614X40H2N02	4	40	1.7/8	.563	.141	.110	.188	3	H2	P	1	8764883
E0615X40H2N02	5	40	1.15/16	.512	.141	.110	.188	3	H2	P	1	8764884
E0616X32H1N02	6	32	2"	.512	.141	.110	.188	3	H1	P	1	8764885
E0616X32H2N02	6	32	2"	.512	.141	.110	.188	3	H2	P	1	8764886
E0616-32N02	6	32	2"	.512	.141	.110	.188	3	H3	P	1	5974288
E0618X32H1N02	8	32	2.1/8	.591	.168	.131	.250	4	H1	P	1	8764887
E0618X32H2N02	8	32	2.1/8	.591	.168	.131	.250	4	H2	P	1	8764888
E0618-32N02	8	32	2.1/8	.591	.168	.131	.250	4	H3	P	1	5974335
E06110X24H1N02	10	24	2.3/8	.791	.194	.152	.250	4	H1	P	1	8764889
E06110X24H2N02	10	24	2.3/8	.791	.194	.152	.250	4	H2	P	1	8764890
E06110-24N02	10	24	2.3/8	.791	.194	.152	.250	4	H3	P	1	5974330
E06112-24N02	12	24	2.3/8	.787	.220	.165	.281	4	H3	P	1	5974406
E0611/4X20H1N02	1/4	20	2.1/2	.634	.255	.191	.313	4	H1	P	1	8764891
E0611/4X20H11N02	1/4	20	2.1/2	.634	.255	.191	.313	4	H11	P	1	8764892
E0611/4X20H2N02	1/4	20	2.1/2	.634	.255	.191	.313	4	H2	P	1	8764893

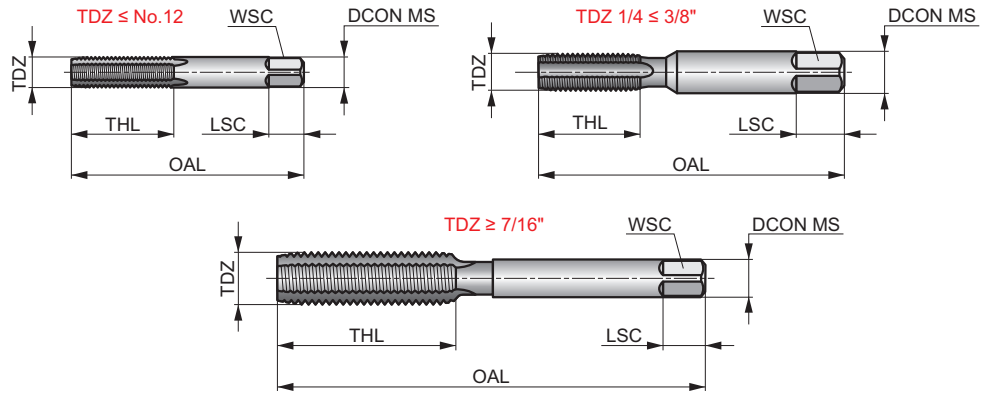
Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0611/4N02	1/4	20	2.1/2	.634	.255	.191	.313	4	H3	P	1	5974927
E0611/4X20H5N02	1/4	20	2.1/2	.634	.255	.191	.313	4	H5	P	1	8764894
E0615/16X18H11N02	5/16	18	2.23/32	.752	.318	.238	.375	4	H11	P	1	8764895
E0615/16X18H2N02	5/16	18	2.23/32	.752	.318	.238	.375	4	H2	P	1	8764896
E0615/16N02	5/16	18	2.23/32	.752	.318	.238	.375	4	H3	P	1	5974274
E0613/8X16H11N02	3/8	16	2.15/16	.791	.381	.286	.438	4	H11	P	1	8764897
E0613/8X16H2N02	3/8	16	2.15/16	.791	.381	.286	.438	4	H2	P	1	8764898
E0613/8N02	3/8	16	2.15/16	.791	.381	.286	.438	4	H3	P	1	5974269
E0613/8X16H5N02	3/8	16	2.15/16	.791	.381	.286	.438	4	H5	P	1	8764899
E0617/16N02	7/16	14	3.5/32	.906	.323	.242	.406	4	H3	P	1	5974300
E0611/2X13H11N02	1/2	13	3.3/8	.906	.367	.275	.438	4	H11	P	1	8764900
E0611/2X13H2N02	1/2	13	3.3/8	.906	.367	.275	.438	4	H2	P	1	8764901
E0611/2N02	1/2	13	3.3/8	.906	.367	.275	.438	4	H3	P	1	5974915
E0611/2X13H5N02	1/2	13	3.3/8	.906	.367	.275	.438	4	H5	P	1	8764902
E0619/16N02	9/16	12	3.19/32	.984	.429	.322	.500	4	H3	P	1	5974355
E0615/8X11H11N02	5/8	11	3.13/16	.984	.480	.360	.563	4	H11	P	1	8764903
E0615/8N02	5/8	11	3.13/16	.984	.480	.360	.563	4	H3	P	1	5974280
E0613/4N02	3/4	10	4.1/4	1.161	.590	.442	.688	4	H3	P	1	5974261
E0617/8N02	7/8	9	4.11/16	1.161	.697	.523	.750	4	H4	P	1	5974314
E0611N02	1"	8	5.1/8	1.398	.800	.600	.813	4	H4	P	1	5974942
E0611.1/8N02	1.1/8	7	5.7/16	1.398	.895	.671	.875	4	H4	P	1	5974883
E0611.1/4N02	1.1/4	7	5.3/4	1.634	1.021	.765	1.000	4	H4	P	1	5974867
E0611.3/8N02	1.3/8	6	6.1/16	1.870	1.109	.830	1.063	4	H4	P	1	5974900
E0611.1/2N02	1.1/2	6	6.3/8	1.870	1.233	.952	1.125	4	H4	P	1	5974849

E061NO3(UNC)



Straight Flute Bottoming Lead Hand Tap, UNC, ANSI Standard

Versatile tap for medium strength carbon and alloy steel. With bottoming lead, which though it is hard to start threading with is capable of cutting thread almost all of the way to the bottom of a blind hole. Best used as machine tap or if by hand in sequence after taper and plug lead or starter and intermediate serial tap.



	ANSI	2B 3B
	1.5x D	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ■ 13	P3.1 ■ 13	P3.2 ■ 13	P3.3 ■ 10	P4.1 ■ 10	P4.2 ■ 7	M1.1 ■ 16	M1.2 ■ 13	M2.1 ■ 13
M2.2 ■ 13	K1.1 ■ 39	K1.2 ■ 30	K1.3 ■ 23	K2.1 ■ 33	K2.2 ■ 26	K2.3 ■ 20	K3.1 ■ 30	K3.2 ■ 23	K3.3 ■ 16	K4.1 ■ 26	K4.2 ■ 20	K4.3 ■ 13	K4.4 ■ 13
K4.5 ■ 10	K5.1 ■ 30	K5.2 ■ 23	K5.3 ■ 16	N1.1 ■ 39	N1.2 ■ 30	N1.3 ■ 20	N2.1 ■ 92	N2.2 ■ 82	N2.3 ■ 59	N3.1 ■ 112	N3.2 ■ 66	N3.3 ■ 33	N4.1 ■ 26
N4.2 ■ 13													

Product series replaces the Bottoming Lead Hand Taps of the 1528(UNC) and 1500(UNC) series.

Product series is an alternative for the Bottoming Lead Hand Taps of the 1508(UNC) series.

Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0611X64H1N03	1	64	1.11/16	.375	.141	.110	.188	2	H1	SB	1	8764904
E0612X56H1N03	2	56	1.3/4	.438	.141	.110	.188	3	H1	SB	1	8764905
E0612X56H2N03	2	56	1.3/4	.438	.141	.110	.188	3	H2	SB	1	8764906
E0613X48H2N03	3	48	1.13/16	.500	.141	.110	.188	3	H2	SB	1	8764907
E0614X40H1N03	4	40	1.7/8	.563	.141	.110	.188	3	H1	SB	1	8764908
E0614X40H2N03	4	40	1.7/8	.563	.141	.110	.188	3	H2	SB	1	8764909
E0615X40H2N03	5	40	1.15/16	.512	.141	.110	.188	3	H2	SB	1	8764910
E0616X32H1N03	6	32	2"	.512	.141	.110	.188	3	H1	SB	1	8764911
E0616X32H2N03	6	32	2"	.512	.141	.110	.188	3	H2	SB	1	8764912
E0616-32N03	6	32	2"	.512	.141	.110	.188	3	H3	SB	1	5974290
E0618X32H1N03	8	32	2.1/8	.591	.168	.131	.250	4	H1	SB	1	8764913
E0618X32H2N03	8	32	2.1/8	.591	.168	.131	.250	4	H2	SB	1	8764914
E0618-32N03	8	32	2.1/8	.591	.168	.131	.250	4	H3	SB	1	5974337
E06110X24H1N03	10	24	2.3/8	.791	.194	.152	.250	4	H1	SB	1	8764915
E06110X24H2N03	10	24	2.3/8	.791	.194	.152	.250	4	H2	SB	1	8764916
E06110-24N03	10	24	2.3/8	.791	.194	.152	.250	4	H3	SB	1	5974387
E06112-24N03	12	24	2.3/8	.787	.220	.165	.281	4	H3	SB	1	5974412
E0611/4X20H1N03	1/4	20	2.1/2	.634	.255	.191	.313	4	H1	SB	1	8764917
E0611/4X20H2N03	1/4	20	2.1/2	.634	.255	.191	.313	4	H2	SB	1	8764918
E0611/4N03	1/4	20	2.1/2	.634	.255	.191	.313	4	H3	SB	1	5974930

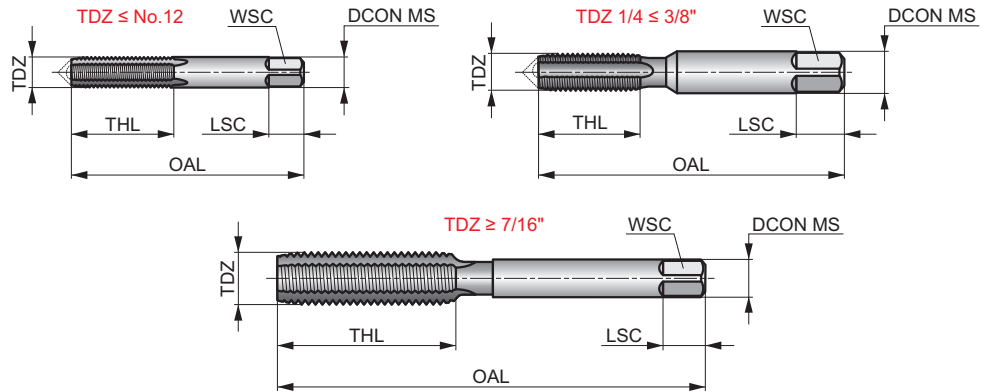
Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0611/4X20H5N03	1/4	20	2.1/2	.634	.255	.191	.313	4	H5	SB	1	8764919
E0615/16X18H2N03	5/16	18	2.23/32	.752	.318	.238	.375	4	H2	SB	1	8764920
E0615/16N03	5/16	18	2.23/32	.752	.318	.238	.375	4	H3	SB	1	5974275
E0613/8X16H2N03	3/8	16	2.15/16	.791	.381	.286	.438	4	H2	SB	1	8764921
E0613/8N03	3/8	16	2.15/16	.791	.381	.286	.438	4	H3	SB	1	5974270
E0613/8X16H5N03	3/8	16	2.15/16	.791	.381	.286	.438	4	H5	SB	1	8764922
E0617/16N03	7/16	14	3.5/32	.906	.323	.242	.406	4	H3	SB	1	5974303
E0611/2X13H2N03	1/2	13	3.3/8	.906	.367	.275	.438	4	H2	SB	1	8764923
E0611/2N03	1/2	13	3.3/8	.906	.367	.275	.438	4	H3	SB	1	5974918
E0611/2X13H5N03	1/2	13	3.3/8	.906	.367	.275	.438	4	H5	SB	1	8764924
E0619/16N03	9/16	12	3.19/32	.984	.429	.322	.500	4	H3	SB	1	5974363
E0615/8N03	5/8	11	3.13/16	.984	.480	.360	.563	4	H3	SB	1	5974282
E0613/4N03	3/4	10	4.1/4	1.161	.590	.442	.688	4	H3	SB	1	5974263
E0617/8N03	7/8	9	4.11/16	1.161	.697	.523	.750	4	H4	SB	1	5974318
E0611N03	1"	8	5.1/8	1.398	.800	.600	.813	4	H4	SB	1	5974255
E0611.1/8N03	1.1/8	7	5.7/16	1.398	.895	.671	.875	4	H4	SB	1	5974886
E0611.1/4N03	1.1/4	7	5.3/4	1.634	1.021	.765	1.000	4	H4	SB	1	5974871
E0611.3/8N03	1.3/8	6	6.1/16	1.870	1.109	.830	1.063	4	H4	SB	1	5974903
E0611.1/2N03	1.1/2	6	6.3/8	1.870	1.233	.952	1.125	4	H4	SB	1	5974852

E061NO6(UNC)



Set of 3 Straight Flute Hand Taps, UNC, ANSI Standard

The most versatile taps for hand use or machine tapping through or blind holes in medium strength, medium carbon and alloy steel. Set including taps with 3 different chamfer lengths; taper lead which is ideally for short through holes, plug perfect for deeper through holes and bottoming best suited for blind holes.



	ANSI	2B 3B
	1.5xD	HSS
		Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	M1.1	M1.2	M2.1
■ 23	■ 23	■ 26	■ 20	■ 16	▧ 13	■ 13	▧ 13	▧ 10	▧ 10	▧ 7	▧ 16	▧ 13	▧ 13
M2.2	K1.1	K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K4.1	K4.2	K4.3	K4.4
▧ 13	▧ 39	▧ 30	▧ 23	▧ 33	▧ 26	▧ 20	▧ 30	▧ 23	▧ 16	▧ 26	▧ 20	▧ 13	▧ 13
K4.5	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3	N2.1	N2.2	N2.3	N3.1	N3.2	N3.3	N4.1
▧ 10	▧ 30	▧ 23	▧ 16	▧ 39	▧ 30	▧ 20	▧ 92	▧ 82	▧ 59	▧ 112	▧ 66	▧ 33	▧ 26
N4.2													
▧ 13													

Hand Taps up through 3/8" with Taper or Plug lead are with pointed end at the front.

Product series replaces the Sets of 3 Hand Taps of the 1528S(UNC) and 1500S(UNC) series.

Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0612X56H2N06	2	56	1.3/4	.438	.141	.110	.188	3	H2	Set of 3	1	8764925
E0613X48H2N06	3	48	1.13/16	.500	.141	.110	.188	3	H2	Set of 3	1	8764926
E0614X40H2N06	4	40	1.7/8	.563	.141	.110	.188	3	H2	Set of 3	1	8764927
E0615X40H2N06	5	40	1.15/16	.512	.141	.110	.188	3	H2	Set of 3	1	8764928
E0616X32H2N06	6	32	2"	.512	.141	.110	.188	3	H2	Set of 3	1	8764929
E0616-32N06	6	32	2"	.512	.141	.110	.188	3	H3	Set of 3	1	5974295
E0618X32H2N06	8	32	2.1/8	.591	.168	.131	.250	4	H2	Set of 3	1	8764930
E0618-32N06	8	32	2.1/8	.591	.168	.131	.250	4	H3	Set of 3	1	5974342
E06110X24H2N06	10	24	2.3/8	.791	.194	.152	.250	4	H2	Set of 3	1	8764931
E06110-24N06	10	24	2.3/8	.791	.194	.152	.250	4	H3	Set of 3	1	5974396
E06112-24N06	12	24	2.3/8	.787	.220	.165	.281	4	H3	Set of 3	1	5974257
E0611/4N06	1/4	20	2.1/2	.634	.255	.191	.313	4	H3	Set of 3	1	5974933
E0615/16N06	5/16	18	2.23/32	.752	.318	.238	.375	4	H3	Set of 3	1	5974277
E0613/8N06	3/8	16	2.15/16	.791	.381	.286	.438	4	H3	Set of 3	1	5974271
E0617/16N06	7/16	14	3.5/32	.906	.323	.242	.406	4	H3	Set of 3	1	5974307
E0611/2N06	1/2	13	3.3/8	.906	.367	.275	.438	4	H3	Set of 3	1	5974921
E0619/16N06	9/16	12	3.19/32	.984	.429	.322	.500	4	H3	Set of 3	1	5974368
E0615/8N06	5/8	11	3.13/16	.984	.480	.360	.563	4	H3	Set of 3	1	5974284
E0613/4N06	3/4	10	4.1/4	1.161	.590	.442	.688	4	H3	Set of 3	1	5974265
E0617/8N06	7/8	9	4.11/16	1.161	.697	.523	.750	4	H4	Set of 3	1	5974324

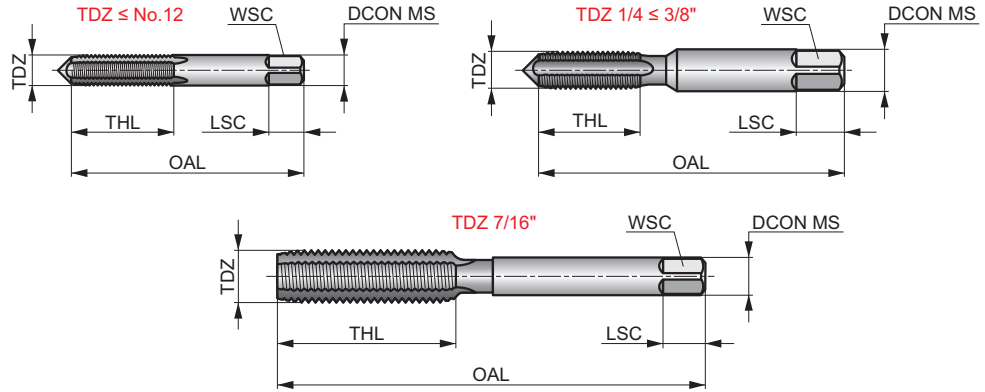
Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0611N06	1"	8	5.1/8	1.398	.800	.600	.813	4	H4	Set of 3	1	5974273
E0611.1/8N06	1.1/8	7	5.7/16	1.398	.895	.671	.875	4	H4	Set of 3	1	5974889
E0611.1/4N06	1.1/4	7	5.3/4	1.634	1.021	.765	1.000	4	H4	Set of 3	1	5974875
E0611.1/2N06	1.1/2	6	6.3/8	1.870	1.233	.952	1.125	4	H4	Set of 3	1	5974855

E071NO1(UNF)



Straight Flute Taper Lead Hand Tap, UNF, ANSI Standard

Versatile tap design for hand use or machine tapping in medium strength, medium carbon and alloy steel. With a taper lead chamfer which produces the thinnest chips providing a very gradual and smooth cutting action. Considered to be the best choice for producing short through holes up to 1.5xD.



	ANSI	2B 3B
	1.5xD	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ■ 13	P3.1 ■ 13	P3.2 ■ 13	P3.3 ■ 10	P4.1 ■ 10	P4.2 ■ 7	M1.1 ■ 16	M1.2 ■ 13	M2.1 ■ 13
M2.2 ■ 13	K1.1 ■ 39	K1.2 ■ 30	K1.3 ■ 23	K2.1 ■ 33	K2.2 ■ 26	K2.3 ■ 20	K3.1 ■ 30	K3.2 ■ 23	K3.3 ■ 16	K4.1 ■ 26	K4.2 ■ 20	K4.3 ■ 13	K4.4 ■ 13
K4.5 ■ 10	K5.1 ■ 30	K5.2 ■ 23	K5.3 ■ 16	N1.1 ■ 39	N1.2 ■ 30	N1.3 ■ 20	N2.1 ■ 92	N2.2 ■ 82	N2.3 ■ 59	N3.1 ■ 112	N3.2 ■ 66	N3.3 ■ 33	N4.1 ■ 26
N4.2 ■ 13													

Product series replaces the Taper Lead Hand Taps of the 1528(UNF), 1500(UNF) and 1500(UNS) series.

Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0710X80H1N01	0	80	1.5/8	.313	.141	.110	.188	2	H1	T	1	8765114
E0710X80H2N01	0	80	1.5/8	.313	.141	.110	.188	2	H2	T	1	8765115
E0711X72H1N01	1	72	1.11/16	.375	.141	.110	.188	2	H1	T	1	8765116
E0713X56H2N01	3	56	1.13/16	.500	.141	.110	.188	3	H2	T	1	8765117
E0714X48H2N01	4	48	1.7/8	.563	.141	.110	.188	3	H2	T	1	8765118
E0715X44H2N01	5	44	1.15/16	.512	.141	.110	.188	3	H2	T	1	8765119
E0716-40N01	6	40	2"	.512	.141	.110	.188	3	H2	T	1	5974142
E0718-36N01	8	36	2.1/8	.591	.168	.131	.250	4	H2	T	1	5974198
E07110X32H2N01	10	32	2.3/8	.791	.194	.152	.250	4	H2	T	1	8765120
E07110-32N01	10	32	2.3/8	.791	.194	.152	.250	4	H3	T	1	5974157
E07112-28N01	12	28	2.3/8	.787	.220	.165	.281	4	H3	T	1	5974247
E0711/4X28H2N01	1/4	28	2.1/2	.634	.255	.191	.313	4	H2	T	1	8765121
E0711/4N01	1/4	28	2.1/2	.634	.255	.191	.313	4	H3	T	1	5974681
E0711/4X28H4N01	1/4	28	2.1/2	.634	.255	.191	.313	4	H4	T	1	8765122
E0715/16N01	5/16	24	2.23/32	.752	.318	.238	.375	4	H3	T	1	5974100
E0713/8N01	3/8	24	2.15/16	.791	.381	.286	.438	4	H3	T	1	5974082
E0717/16N01	7/16	20	3.5/32	.906	.323	.242	.406	4	H3	T	1	5974166
E0711/2N01	1/2	20	3.3/8	.906	.367	.275	.438	4	H3	T	1	5974659
E0719/16N01	9/16	18	3.19/32	.984	.429	.322	.500	4	H3	T	1	5974217
E0715/8N01	5/8	18	3.13/16	.984	.480	.360	.563	4	H3	T	1	5974123
E0713/4N01	3/4	16	4.1/4	1.161	.590	.442	.688	4	H3	T	1	5974067

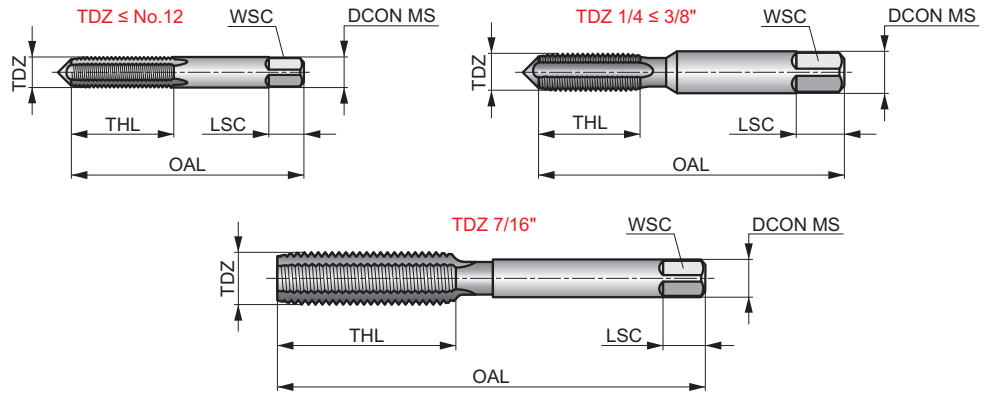
Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0717/8N01	7/8	14	4.11/16	1.161	.697	.523	.750	4	H4	T	1	5974182
E0711X12N01	1"	12	5.1/8	1.398	.800	.600	.813	4	H4	T	1	5974698
E0711X14N01	1"	14	5.1/8	1.398	.800	.600	.813	4	H4	T	1	5974711
E0711.1/8N01	1.1/8	12	5.7/16	1.398	.895	.671	.875	4	H4	T	1	5974614
E0711.1/4N01	1.1/4	12	5.3/4	1.634	1.021	.765	1.000	6	H4	T	1	5974595
E0711.3/8N01	1.3/8	12	6.1/16	1.870	1.109	.830	1.063	6	H4	T	1	5974639
E0711.1/2N01	1.1/2	12	6.3/8	1.870	1.233	.925	1.125	6	H4	T	1	5974570

E071NO2(UNF)



Straight Flute Plug Lead Hand Tap, UNF, ANSI Standard

Versatile tap design for hand use or machine tapping in medium strength, medium carbon and alloy steel. With a plug lead chamfer which gives the tap a gradual cutting action. Great for producing through holes, as they are almost as easy as taper lead taps to start, yet also offer a more complete set of threads.



UNF	ANSI	2B 3B
	1.5×D	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ▣ 13	P3.1 ■ 13	P3.2 ▣ 13	P3.3 ▣ 10	P4.1 ▣ 10	P4.2 ▣ 7	M1.1 ▣ 16	M1.2 ▣ 13	M2.1 ▣ 13
M2.2 ▣ 13	K1.1 ▣ 39	K1.2 ▣ 30	K1.3 ▣ 23	K2.1 ▣ 33	K2.2 ▣ 26	K2.3 ▣ 20	K3.1 ▣ 30	K3.2 ▣ 23	K3.3 ▣ 16	K4.1 ▣ 26	K4.2 ▣ 20	K4.3 ▣ 13	K4.4 ▣ 13
K4.5 ▣ 10	K5.1 ▣ 30	K5.2 ▣ 23	K5.3 ▣ 16	N1.1 ▣ 39	N1.2 ▣ 30	N1.3 ▣ 20	N2.1 ▣ 92	N2.2 ▣ 82	N2.3 ▣ 59	N3.1 ▣ 112	N3.2 ▣ 66	N3.3 ▣ 33	N4.1 ▣ 26
N4.2 ▣ 13													

Product series replaces the Plug Lead Hand Taps of the 1528(UNF), 1500(UNF) and 1500(UNS) series.

Product series is an alternative for the Plug Lead Hand Taps of the 1508(UNF) and 1500A(UNF) series.

Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0710X80H1N02	0	80	1.5/8	.313	.141	.110	.188	2	H1	P	1	8765123
E0710X80H2N02	0	80	1.5/8	.313	.141	.110	.188	2	H2	P	1	8765124
E0711X72H1N02	1	72	1.11/16	.375	.141	.110	.188	2	H1	P	1	8765125
E0713X56H2N02	3	56	1.13/16	.500	.141	.110	.188	3	H2	P	1	8765126
E0714X48H2N02	4	48	1.7/8	.563	.141	.110	.188	3	H2	P	1	8765127
E0715X44H2N02	5	44	1.15/16	.512	.141	.110	.188	3	H2	P	1	8765128
E0716-40N02	6	40	2"	.512	.141	.110	.188	3	H2	P	1	5974147
E0718-36N02	8	36	2.1/8	.591	.168	.131	.250	4	H2	P	1	5974205
E07110X32H2N02	10	32	2.3/8	.791	.194	.152	.250	4	H2	P	1	8765129
E07110-32N02	10	32	2.3/8	.791	.194	.152	.250	4	H3	P	1	5974201
E07112-28N02	12	28	2.3/8	.787	.220	.165	.281	4	H3	P	1	5974249
E0711/4X28H2N02	1/4	28	2.1/2	.634	.255	.191	.313	4	H2	P	1	8765130
E0711/4N02	1/4	28	2.1/2	.634	.255	.191	.313	4	H3	P	1	5974685
E0711/4X28H4N02	1/4	28	2.1/2	.634	.255	.191	.313	4	H4	P	1	8765131
E0715/16N02	5/16	24	2.23/32	.752	.318	.238	.375	4	H3	P	1	5974108
E0713/8N02	3/8	24	2.15/16	.791	.381	.286	.438	4	H3	P	1	5974086
E0717/16N02	7/16	20	3.5/32	.906	.323	.242	.406	4	H3	P	1	5974170
E0711/2N02	1/2	20	3.3/8	.906	.367	.275	.438	4	H3	P	1	5974664
E0719/16N02	9/16	18	3.19/32	.984	.429	.322	.500	4	H3	P	1	5974221
E0715/8N02	5/8	18	3.13/16	.984	.480	.360	.563	4	H3	P	1	5974128

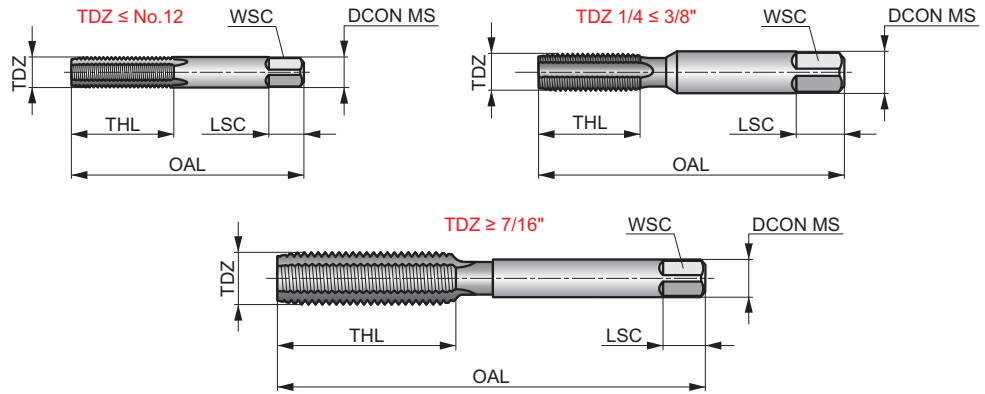
Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0713/4N02	3/4	16	4.1/4	1.161	.590	.442	.688	4	H3	P	1	5974071
E0717/8N02	7/8	14	4.11/16	1.161	.697	.523	.750	4	H4	P	1	5974185
E0711X12N02	1"	12	5.1/8	1.398	.800	.600	.813	4	H4	P	1	5974702
E0711X14N02	1"	14	5.1/8	1.398	.800	.600	.813	4	H4	P	1	5974723
E0711.1/8N02	1.1/8	12	5.7/16	1.398	.895	.671	.875	4	H4	P	1	5974623
E0711.1/4N02	1.1/4	12	5.3/4	1.634	1.021	.765	1.000	6	H4	P	1	5974598
E0711.3/8N02	1.3/8	12	6.1/16	1.870	1.109	.830	1.063	6	H4	P	1	5974646
E0711.1/2N02	1.1/2	12	6.3/8	1.870	1.233	.925	1.125	6	H4	P	1	5974574

E071NO3(UNF)



Straight Flute Bottoming Lead Hand Tap, UNF, ANSI Standard

Versatile tap for medium strength carbon and alloy steel. With bottoming lead, which though it is hard to start threading with is capable of cutting thread almost all of the way to the bottom of a blind hole. Best used as machine tap or if by hand in sequence after taper and plug lead or starter and intermediate serial tap.



	ANSI	2B 3B
	1.5×D	HSS
		Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ▣ 13	P3.1 ■ 13	P3.2 ▣ 13	P3.3 ▣ 10	P4.1 ▣ 10	P4.2 ▣ 7	M1.1 ▣ 16	M1.2 ▣ 13	M2.1 ▣ 13
M2.2 ▣ 13	K1.1 ▣ 39	K1.2 ▣ 30	K1.3 ▣ 23	K2.1 ▣ 33	K2.2 ▣ 26	K2.3 ▣ 20	K3.1 ▣ 30	K3.2 ▣ 23	K3.3 ▣ 16	K4.1 ▣ 26	K4.2 ▣ 20	K4.3 ▣ 13	K4.4 ▣ 13
K4.5 ▣ 10	K5.1 ▣ 30	K5.2 ▣ 23	K5.3 ▣ 16	N1.1 ▣ 39	N1.2 ▣ 30	N1.3 ▣ 20	N2.1 ▣ 92	N2.2 ▣ 82	N2.3 ▣ 59	N3.1 ▣ 112	N3.2 ▣ 66	N3.3 ▣ 33	N4.1 ▣ 26
N4.2 ▣ 13													

Product series replaces the Bottoming Lead Hand Taps of the 1528(UNF), 1500(UNF) and 1500(UNS) series.

Product series is an alternative for the Bottoming Lead Hand Taps of the 1508(UNF) and 1500A(UNF) series.

Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0710X80H1N03	0	80	1.5/8	.313	.141	.110	.188	2	H1	SB	1	8765132
E0710X80H2N03	0	80	1.5/8	.313	.141	.110	.188	2	H2	SB	1	8765133
E0711X72H1N03	1	72	1.11/16	.375	.141	.110	.188	2	H1	SB	1	8765134
E0713X56H2N03	3	56	1.13/16	.500	.141	.110	.188	3	H2	SB	1	8765135
E0714X48H2N03	4	48	1.7/8	.563	.141	.110	.188	3	H2	SB	1	8765136
E0715X44H2N03	5	44	1.15/16	.512	.141	.110	.188	3	H2	SB	1	8765137
E0716-40N03	6	40	2"	.512	.141	.110	.188	3	H2	SB	1	5974152
E0718-36N03	8	36	2.1/8	.591	.168	.131	.250	4	H2	SB	1	5974209
E07110X32H2N03	10	32	2.3/8	.791	.194	.152	.250	4	H2	SB	1	8765138
E07110-32N03	10	32	2.3/8	.791	.194	.152	.250	4	H3	SB	1	5974239
E07112-28N03	12	28	2.3/8	.787	.220	.165	.281	4	H3	SB	1	5974250
E0711/4X28H2N03	1/4	28	2.1/2	.634	.255	.191	.313	4	H2	SB	1	8765139
E0711/4N03	1/4	28	2.1/2	.634	.255	.191	.313	4	H3	SB	1	5974689
E0711/4X28H4N03	1/4	28	2.1/2	.634	.255	.191	.313	4	H4	SB	1	8765140
E0715/16N03	5/16	24	2.23/32	.752	.318	.238	.375	4	H3	SB	1	5974114
E0713/8N03	3/8	24	2.15/16	.791	.381	.286	.438	4	H3	SB	1	5974091
E0717/16N03	7/16	20	3.5/32	.906	.323	.242	.406	4	H3	SB	1	5974175
E0711/2N03	1/2	20	3.3/8	.906	.367	.275	.438	4	H3	SB	1	5974668
E0719/16N03	9/16	18	3.19/32	.984	.429	.322	.500	4	H3	SB	1	5974224
E0715/8N03	5/8	18	3.13/16	.984	.480	.360	.563	4	H3	SB	1	5974133

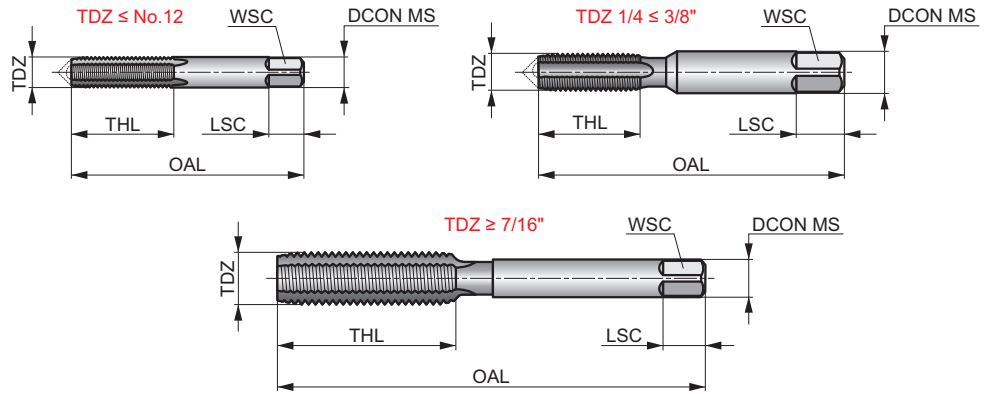
Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0713/4N03	3/4	16	4.1/4	1.161	.590	.442	.688	4	H3	SB	1	5974075
E0717/8N03	7/8	14	4.11/16	1.161	.697	.523	.750	4	H4	SB	1	5974190
E0711X12N03	1"	12	5.1/8	1.398	.800	.600	.813	4	H4	SB	1	5974706
E0711X14N03	1"	14	5.1/8	1.398	.800	.600	.813	4	H4	SB	1	5974059
E0711.1/8N03	1.1/8	12	5.7/16	1.398	.895	.671	.875	4	H4	SB	1	5974629
E0711.1/4N03	1.1/4	12	5.3/4	1.634	1.021	.765	1.000	6	H4	SB	1	5974604
E0711.3/8N03	1.3/8	12	6.1/16	1.870	1.109	.830	1.063	6	H4	SB	1	5974649
E0711.1/2N03	1.1/2	12	6.3/8	1.870	1.233	.925	1.125	6	H4	SB	1	5974580

E071NO6(UNF)



Set of 3 Straight Flute Hand Taps, UNF, ANSI Standard

The most versatile taps for hand use or machine tapping through or blind holes in medium strength, medium carbon and alloy steel. Set including taps with 3 different chamfer lengths; taper lead which is ideally for short through holes, plug perfect for deeper through holes and bottoming best suited for blind holes.



	ANSI	2B 3B
	1.5xD	HSS
		Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	M1.1	M1.2	M2.1
■ 23	■ 23	■ 26	■ 20	■ 16	■ 13	■ 13	■ 13	■ 10	■ 10	■ 7	■ 16	■ 13	■ 13
M2.2	K1.1	K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K4.1	K4.2	K4.3	K4.4
■ 13	■ 39	■ 30	■ 23	■ 33	■ 26	■ 20	■ 30	■ 23	■ 16	■ 26	■ 20	■ 13	■ 13
K4.5	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3	N2.1	N2.2	N2.3	N3.1	N3.2	N3.3	N4.1
■ 10	■ 30	■ 23	■ 16	■ 39	■ 30	■ 20	■ 92	■ 82	■ 59	■ 112	■ 66	■ 33	■ 26
N4.2													
■ 13													

Hand Taps up through 3/8" with Taper or Plug lead are with pointed end at the front.

Product series replaces the Sets of 3 Hand Taps of the 1528S(UNF) and 1500S(UNF) series.

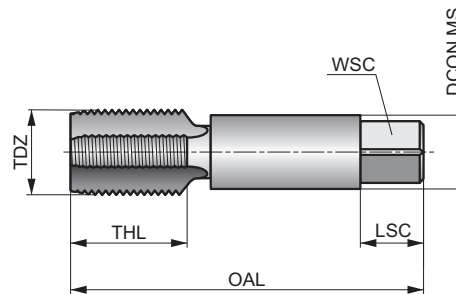
Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0710X80H1N06	0	80	1.5/8	.313	.141	.110	.188	2	H1	Set of 3	1	8765141
E0713X56H2N06	3	56	1.13/16	.500	.141	.110	.188	3	H2	Set of 3	1	8765142
E0714X48H2N06	4	48	1.7/8	.563	.141	.110	.188	3	H2	Set of 3	1	8765143
E0715X44H2N06	5	44	1.15/16	.512	.141	.110	.188	3	H2	Set of 3	1	8765144
E0716-40N06	6	40	2"	.512	.141	.110	.188	3	H2	Set of 3	1	5974162
E0718-36N06	8	36	2.1/8	.591	.168	.131	.250	4	H2	Set of 3	1	5974213
E07110-32N06	10	32	2.3/8	.791	.194	.152	.250	4	H3	Set of 3	1	5974244
E07112-28N06	12	28	2.3/8	.787	.220	.165	.281	4	H3	Set of 3	1	5974063
E0711/4N06	1/4	28	2.1/2	.634	.255	.191	.313	4	H3	Set of 3	1	5974694
E0715/16N06	5/16	24	2.23/32	.752	.318	.238	.375	4	H3	Set of 3	1	5974118
E0713/8N06	3/8	24	2.15/16	.791	.381	.286	.438	4	H3	Set of 3	1	5974094
E0717/16N06	7/16	20	3.5/32	.906	.323	.242	.406	4	H3	Set of 3	1	5974179
E0711/2N06	1/2	20	3.3/8	.906	.367	.275	.438	4	H3	Set of 3	1	5974679
E0719/16N06	9/16	18	3.19/32	.984	.429	.322	.500	4	H3	Set of 3	1	5974227
E0715/8N06	5/8	18	3.13/16	.984	.480	.360	.563	4	H3	Set of 3	1	5974138
E0713/4N06	3/4	16	4.1/4	1.161	.590	.442	.688	4	H3	Set of 3	1	5974079
E0717/8N06	7/8	14	4.11/16	1.161	.697	.523	.750	4	H4	Set of 3	1	5974194
E0711X12N06	1"	12	5.1/8	1.398	.800	.600	.813	4	H4	Set of 3	1	5974710
E0711X14H4N06	1"	14	5.1/8	1.398	.800	.600	.813	4	H4	Set of 3	1	8765145
E0711X14N06	1"	14	5.1/8	1.398	.800	.600	.813	4	H4	Set of 3	1	5974104

E061NO1(8UN)



Straight Flute Taper Lead Hand Tap, 8UN, ANSI Standard

Versatile tap design for hand use or machine tapping. Taper lead chamfer providing a very gradual and smooth cutting action. Best choice for short through holes. 8UN threads have a uniform-pitch, originally intended for high-pressure-joint bolts and nuts now widely used as substitute for UNC threads larger than 1 inch.



	ANSI	2B 3B
	1.5xD	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ■ 13	P3.1 ■ 13	P3.2 ■ 13	P3.3 ■ 10	P4.1 ■ 10	P4.2 ■ 7	M1.1 ■ 16	M1.2 ■ 13	M2.1 ■ 13
M2.2 ■ 13	K1.1 ■ 39	K1.2 ■ 30	K1.3 ■ 23	K2.1 ■ 33	K2.2 ■ 26	K2.3 ■ 20	K3.1 ■ 30	K3.2 ■ 23	K3.3 ■ 16	K4.1 ■ 26	K4.2 ■ 20	K4.3 ■ 13	K4.4 ■ 13
K4.5 ■ 10	K5.1 ■ 30	K5.2 ■ 23	K5.3 ■ 16	N1.1 ■ 39	N1.2 ■ 30	N1.3 ■ 20	N2.1 ■ 92	N2.2 ■ 82	N2.3 ■ 59	N3.1 ■ 112	N3.2 ■ 66	N3.3 ■ 33	N4.1 ■ 26
N4.2 ■ 13													

Product series replaces the Taper Lead Hand Taps of the 1505(UNS) series.

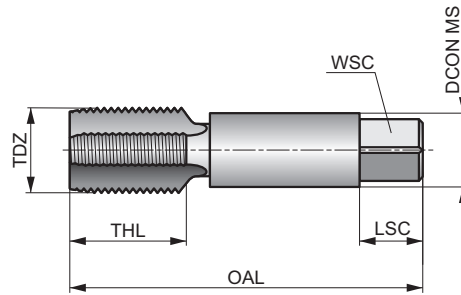
Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0611.1/8X8H5N01	1.1/8	8	5.7/16	1.398	.896	.672	.875	4	H5	T	1	8764932
E0611.1/4X8H5N01	1.1/4	8	5.3/4	1.634	1.021	.766	1.000	4	H5	T	1	8764933
E0611.3/8X8H5N01	1.3/8	8	6.1/16	1.870	1.108	.831	1.063	4	H5	T	1	8764934
E0611.1/2X8H5N01	1.1/2	8	6.3/8	1.870	1.233	.925	1.125	4	H5	T	1	8764935
E0611.5/8X8H6N01	1.5/8	8	6.11/16	2.106	1.305	.978	1.125	6	H6	T	1	8764936
E0611.3/4X8H6N01	1.3/4	8	7"	2.205	1.430	1.072	1.250	6	H6	T	1	8764937
E0611.7/8X8H6N01	1.7/8	8	7.5/16	2.362	1.519	1.139	1.250	6	H6	T	1	8764938
E0612X8H6N01	2	8	7.5/8	2.362	1.644	1.233	1.375	6	H6	T	1	8764939

E061NO2(8UN)



Straight Flute Plug Lead Hand Tap, 8UN, ANSI Standard

Versatile tap design for hand use or machine tapping. Plug lead chamfer which gives the tap a gradual cutting action. Great for producing through holes. 8UN threads have a uniform-pitch, originally intended for high-pressure-joint bolts and nuts now widely used as substitute for UNC threads larger than 1 inch.



	ANSI	2B 3B
	1.5xD	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ▧ 13	P3.1 ■ 13	P3.2 ▧ 13	P3.3 ▧ 10	P4.1 ▧ 10	P4.2 ▧ 7	M1.1 ▧ 16	M1.2 ▧ 13	M2.1 ▧ 13
M2.2 ▧ 13	K1.1 ▧ 39	K1.2 ▧ 30	K1.3 ▧ 23	K2.1 ▧ 33	K2.2 ▧ 26	K2.3 ▧ 20	K3.1 ▧ 30	K3.2 ▧ 23	K3.3 ▧ 16	K4.1 ▧ 26	K4.2 ▧ 20	K4.3 ▧ 13	K4.4 ▧ 13
K4.5 ▧ 10	K5.1 ▧ 30	K5.2 ▧ 23	K5.3 ▧ 16	N1.1 ▧ 39	N1.2 ▧ 30	N1.3 ▧ 20	N2.1 ▧ 92	N2.2 ▧ 82	N2.3 ▧ 59	N3.1 ▧ 112	N3.2 ▧ 66	N3.3 ▧ 33	N4.1 ▧ 26
N4.2 ▧ 13													

Product series replaces the Plug Lead Hand Taps of the 1505(UNS) series.

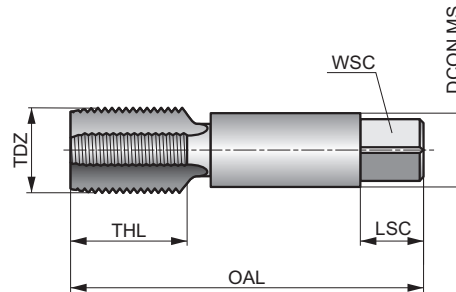
Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0611.1/8X8H5N02	1.1/8	8	5.7/16	1.398	.896	.672	.875	4	H5	P	1	8764940
E0611.1/4X8H5N02	1.1/4	8	5.3/4	1.634	1.021	.766	1.000	4	H5	P	1	8764941
E0611.3/8X8H5N02	1.3/8	8	6.1/16	1.870	1.108	.831	1.063	4	H5	P	1	8764942
E0611.1/2X8H5N02	1.1/2	8	6.3/8	1.870	1.233	.925	1.125	4	H5	P	1	8764943
E0611.5/8X8H6N02	1.5/8	8	6.11/16	2.106	1.305	.978	1.125	6	H6	P	1	8764944
E0611.3/4X8H6N02	1.3/4	8	7"	2.205	1.430	1.072	1.250	6	H6	P	1	8764945
E0611.7/8X8H6N02	1.7/8	8	7.5/16	2.362	1.519	1.139	1.250	6	H6	P	1	8764946
E0612X8H6N02	2	8	7.5/8	2.362	1.644	1.233	1.375	6	H6	P	1	8764947

E061NO3(8UN)



Straight Flute Bottoming Lead Hand Tap, 8UN, ANSI Standard

Versatile tap for medium strength carbon and alloy steel. Bottoming lead, cutting thread almost all of the way to the bottom of a blind hole. 8UN threads have a uniform-pitch, originally intended for high-pressure-joint bolts and nuts now widely used as substitute for UNC threads larger than 1 inch.



	ANSI	2B 3B
	1.5x D	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	M1.1	M1.2	M2.1
■ 23	■ 23	■ 26	■ 20	■ 16	■ 13	■ 13	■ 13	■ 10	■ 10	■ 7	■ 16	■ 13	■ 13
M2.2	K1.1	K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K4.1	K4.2	K4.3	K4.4
■ 13	■ 39	■ 30	■ 23	■ 33	■ 26	■ 20	■ 30	■ 23	■ 16	■ 26	■ 20	■ 13	■ 13
K4.5	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3	N2.1	N2.2	N2.3	N3.1	N3.2	N3.3	N4.1
■ 10	■ 30	■ 23	■ 16	■ 39	■ 30	■ 20	■ 92	■ 82	■ 59	■ 112	■ 66	■ 33	■ 26
N4.2													
■ 13													

Product series replaces the Bottoming Lead Hand Taps of the 1505(UNS) series.

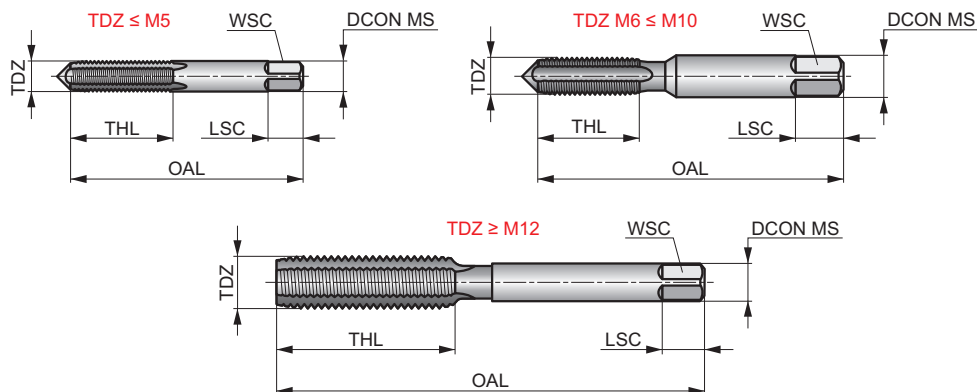
Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0611.1/8X8H5N03	1.1/8	8	5.7/16	1.398	.896	.672	.875	4	H5	SB	1	8764948
E0611.1/4X8H5N03	1.1/4	8	5.3/4	1.634	1.021	.766	1.000	4	H5	SB	1	8764949
E0611.3/8X8H5N03	1.3/8	8	6.1/16	1.870	1.108	.831	1.063	4	H5	SB	1	8764950
E0611.1/2X8H5N03	1.1/2	8	6.3/8	1.870	1.233	.925	1.125	4	H5	SB	1	8764951
E0611.5/8X8H6N03	1.5/8	8	6.11/16	2.106	1.305	.978	1.125	6	H6	SB	1	8764952
E0611.3/4X8H6N03	1.3/4	8	7"	2.205	1.430	1.072	1.250	6	H6	SB	1	8764953
E0611.7/8X8H6N03	1.7/8	8	7.5/16	2.362	1.519	1.139	1.250	6	H6	SB	1	8764954
E0612X8H6N03	2	8	7.5/8	2.362	1.644	1.233	1.375	6	H6	SB	1	8764955

E061NO1(M)



Straight Flute Taper Lead Hand Tap, Metric, ANSI Standard

Versatile tap design for hand use or machine tapping in medium strength, medium carbon and alloy steel. With a taper lead chamfer which produces the thinnest chips providing a very gradual and smooth cutting action. Considered to be the best choice for producing short through holes up to 1.5xD.



	ANSI	2B 3B
	1.5xD	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ▧ 13	P3.1 ■ 13	P3.2 ▧ 13	P3.3 ▧ 10	P4.1 ▧ 10	P4.2 ▧ 7	M1.1 ▧ 16	M1.2 ▧ 13	M2.1 ▧ 13
M2.2 ▧ 13	K1.1 ▧ 39	K1.2 ▧ 30	K1.3 ▧ 23	K2.1 ▧ 33	K2.2 ▧ 26	K2.3 ▧ 20	K3.1 ▧ 30	K3.2 ▧ 23	K3.3 ▧ 16	K4.1 ▧ 26	K4.2 ▧ 20	K4.3 ▧ 13	K4.4 ▧ 13
K4.5 ▧ 10	K5.1 ▧ 30	K5.2 ▧ 23	K5.3 ▧ 16	N1.1 ▧ 39	N1.2 ▧ 30	N1.3 ▧ 20	N2.1 ▧ 92	N2.2 ▧ 82	N2.3 ▧ 59	N3.1 ▧ 112	N3.2 ▧ 66	N3.3 ▧ 33	N4.1 ▧ 26
N4.2 ▧ 13													

Product series replaces the Taper Lead Hand Taps for ISO-Metric Thread of the 1700(M) series.

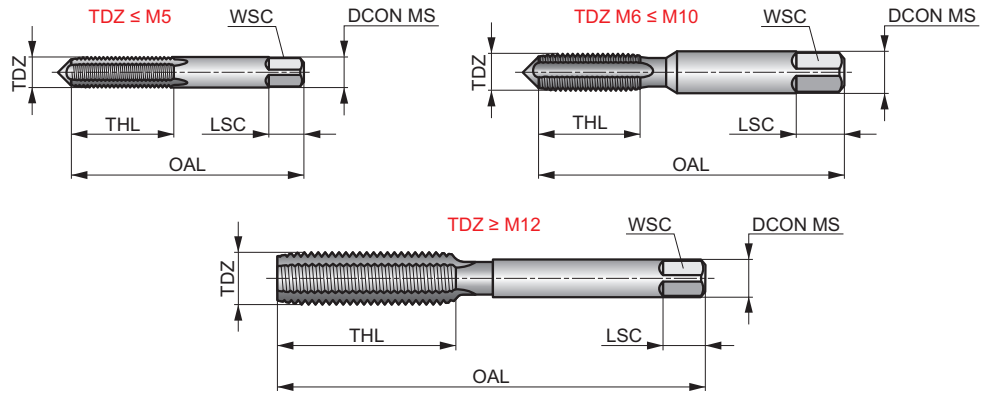
Product	TDZ	TP	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
		(mm)	(inch)	(inch)	(inch)	(inch)	(inch)					
E061M3N01	3	0.50	1.15/16	.512	.141	.110	.188	3	D3	T	1	8764956
E061M3.5N01	3.5	0.60	2"	.512	.141	.110	.188	3	D4	T	1	8764957
E061M4N01	4	0.70	2.1/8	.591	.168	.131	.250	3	D4	T	1	8764958
E061M4.5D4N01	4.5	0.75	2.3/8	.791	.194	.152	.250	3	D4	T	1	8764959
E061M5N01	5	0.80	2.3/8	.791	.194	.152	.250	3	D4	T	1	8764960
E061M6N01	6	1.00	2.1/2	.634	.255	.191	.313	3	D5	T	1	8764961
E061M7N01	7	1.00	2.23/32	.752	.318	.238	.375	3	D5	T	1	8764962
E061M8N01	8	1.25	2.23/32	.752	.318	.238	.375	3	D5	T	1	8764963
E061M10N01	10	1.50	2.15/16	.791	.381	.286	.438	3	D6	T	1	8764964
E061M12N01	12	1.75	3.3/8	.906	.367	.275	.438	3	D6	T	1	8764965
E061M14N01	14	2.00	3.19/32	.984	.429	.322	.500	4	D7	T	1	8764966
E061M16N01	16	2.00	3.13/16	.984	.480	.360	.563	4	D7	T	1	8764967
E061M18N01	18	2.50	4.1/32	1.161	.542	.406	.625	4	D7	T	1	8764968
E061M20N01	20	2.50	4.15/32	1.161	.652	.489	.688	4	D7	T	1	8764969
E061M22N01	22	2.50	4.11/16	1.161	.697	.523	.750	4	D7	T	1	8764970
E061M24N01	24	3.00	4.29/32	1.398	.760	.570	.750	4	D8	T	1	8764971
E061M30N01	30	3.50	5.7/16	1.713	1.021	.766	1.000	4	D9	T	1	8764972

E061NO2(M)



Straight Flute Plug Lead Hand Tap, Metric, ANSI Standard

Versatile tap design for hand use or machine tapping in medium strength, medium carbon and alloy steel. With a plug lead chamfer which gives the tap a gradual cutting action. Great for producing through holes, as they are almost as easy as taper lead taps to start, yet also offer a more complete set of threads.



	ANSI	2B 3B
	1.5x D	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ■ 13	P3.1 ■ 13	P3.2 ■ 13	P3.3 ■ 10	P4.1 ■ 10	P4.2 ■ 7	M1.1 ■ 16	M1.2 ■ 13	M2.1 ■ 13
M2.2 ■ 13	K1.1 ■ 39	K1.2 ■ 30	K1.3 ■ 23	K2.1 ■ 33	K2.2 ■ 26	K2.3 ■ 20	K3.1 ■ 30	K3.2 ■ 23	K3.3 ■ 16	K4.1 ■ 26	K4.2 ■ 20	K4.3 ■ 13	K4.4 ■ 13
K4.5 ■ 10	K5.1 ■ 30	K5.2 ■ 23	K5.3 ■ 16	N1.1 ■ 39	N1.2 ■ 30	N1.3 ■ 20	N2.1 ■ 92	N2.2 ■ 82	N2.3 ■ 59	N3.1 ■ 112	N3.2 ■ 66	N3.3 ■ 33	N4.1 ■ 26
N4.2 ■ 13													

Product series replaces the Plug Lead Hand Taps for ISO-Metric Thread of the 1700(M) series.

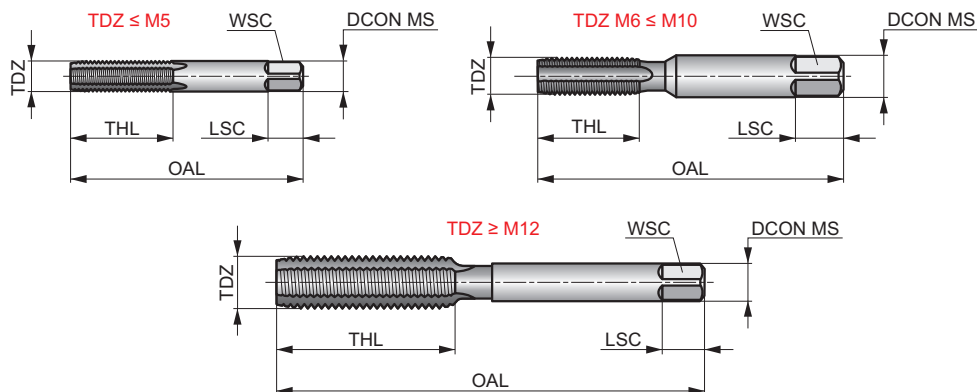
Product	TDZ	TP	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
		(mm)	(inch)	(inch)	(inch)	(inch)	(inch)					
E061M3N02	3	0.50	1.15/16	.512	.141	.110	.188	3	D3	P	1	8764973
E061M3.5N02	3.5	0.60	2"	.512	.141	.110	.188	3	D4	P	1	8764974
E061M4N02	4	0.70	2.1/8	.591	.168	.131	.250	3	D4	P	1	8764975
E061M4.5N02	4.5	0.75	2.3/8	.791	.194	.152	.250	3	D4	P	1	8764976
E061M5N02	5	0.80	2.3/8	.791	.194	.152	.250	3	D4	P	1	8764977
E061M6N02	6	1.00	2.1/2	.634	.255	.191	.313	3	D5	P	1	8764978
E061M7N02	7	1.00	2.23/32	.752	.318	.238	.375	3	D5	P	1	8764979
E061M8N02	8	1.25	2.23/32	.752	.318	.238	.375	3	D5	P	1	8764980
E061M10N02	10	1.50	2.15/16	.791	.381	.286	.438	3	D6	P	1	8764981
E061M12N02	12	1.75	3.3/8	.906	.367	.275	.438	3	D6	P	1	8764982
E061M14N02	14	2.00	3.19/32	.984	.429	.322	.500	4	D7	P	1	8764983
E061M16N02	16	2.00	3.13/16	.984	.480	.360	.563	4	D7	P	1	8764984
E061M18N02	18	2.50	4.1/32	1.161	.542	.406	.625	4	D7	P	1	8764985
E061M20N02	20	2.50	4.15/32	1.161	.652	.489	.688	4	D7	P	1	8764986
E061M22N02	22	2.50	4.11/16	1.161	.697	.523	.750	4	D7	P	1	8764987
E061M24N02	24	3.00	4.29/32	1.398	.760	.570	.750	4	D8	P	1	8764988
E061M30N02	30	3.50	5.7/16	1.713	1.021	.766	1.000	4	D9	P	1	8764989

E061NO3(M)



Straight Flute Bottoming Lead Hand Tap, Metric, ANSI Standard

Versatile tap for medium strength carbon and alloy steel. With bottoming lead, which though it is hard to start threading with is capable of cutting thread almost all of the way to the bottom of a blind hole. Best used as machine tap or if by hand in sequence after taper and plug lead or starter and intermediate serial tap.



	ANSI	2B 3B
	1.5xD	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ■ 13	P3.1 ■ 13	P3.2 ■ 13	P3.3 ■ 10	P4.1 ■ 10	P4.2 ■ 7	M1.1 ■ 16	M1.2 ■ 13	M2.1 ■ 13
M2.2 ■ 13	K1.1 ■ 39	K1.2 ■ 30	K1.3 ■ 23	K2.1 ■ 33	K2.2 ■ 26	K2.3 ■ 20	K3.1 ■ 30	K3.2 ■ 23	K3.3 ■ 16	K4.1 ■ 26	K4.2 ■ 20	K4.3 ■ 13	K4.4 ■ 13
K4.5 ■ 10	K5.1 ■ 30	K5.2 ■ 23	K5.3 ■ 16	N1.1 ■ 39	N1.2 ■ 30	N1.3 ■ 20	N2.1 ■ 92	N2.2 ■ 82	N2.3 ■ 59	N3.1 ■ 112	N3.2 ■ 66	N3.3 ■ 33	N4.1 ■ 26
N4.2 ■ 13													

Product series replaces the Bottoming Lead Hand Taps for ISO-Metric Thread of the 1700(M) series.

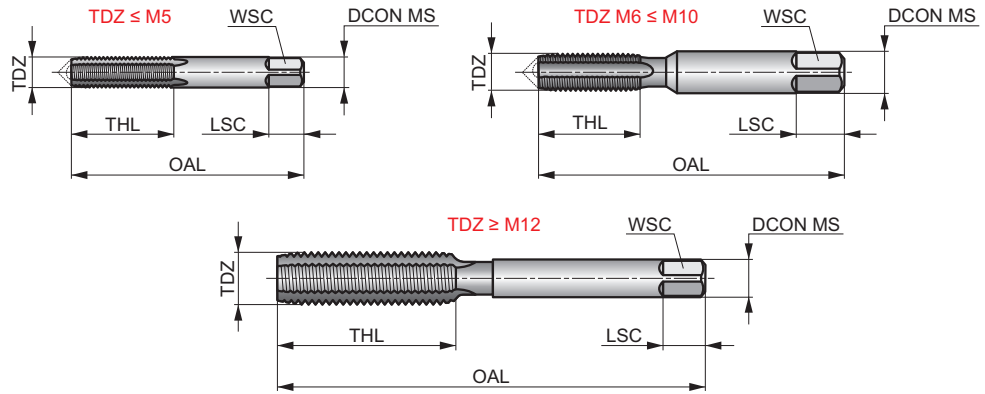
Product	TDZ	TP	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
		(mm)	(inch)	(inch)	(inch)	(inch)	(inch)					
E061M3N03	3	0.50	1.15/16	.512	.141	.110	.188	3	D3	SB	1	8764990
E061M3.5N03	3.5	0.60	2"	.512	.141	.110	.188	3	D4	SB	1	8764991
E061M4N03	4	0.70	2.1/8	.591	.168	.131	.250	3	D4	SB	1	8764992
E061M4.5D4N03	4.5	0.75	2.3/8	.791	.194	.152	.250	3	D4	SB	1	8764993
E061M5N03	5	0.80	2.3/8	.791	.194	.152	.250	3	D4	SB	1	8764994
E061M6N03	6	1.00	2.1/2	.634	.255	.191	.313	3	D5	SB	1	8764995
E061M7N03	7	1.00	2.23/32	.752	.318	.238	.375	3	D5	SB	1	8764996
E061M8N03	8	1.25	2.23/32	.752	.318	.238	.375	3	D5	SB	1	8764997
E061M10N03	10	1.50	2.15/16	.791	.381	.286	.438	3	D6	SB	1	8764998
E061M12N03	12	1.75	3.3/8	.906	.367	.275	.438	3	D6	SB	1	8764999
E061M14N03	14	2.00	3.19/32	.984	.429	.322	.500	4	D7	SB	1	8765000
E061M16N03	16	2.00	3.13/16	.984	.480	.360	.563	4	D7	SB	1	8765001
E061M18N03	18	2.50	4.1/32	1.161	.542	.406	.625	4	D7	SB	1	8765002
E061M20N03	20	2.50	4.15/32	1.161	.652	.489	.688	4	D7	SB	1	8765003
E061M22N03	22	2.50	4.11/16	1.161	.697	.523	.750	4	D7	SB	1	8765004
E061M24N03	24	3.00	4.29/32	1.398	.760	.570	.750	4	D8	SB	1	8765005
E061M30N03	30	3.50	5.7/16	1.713	1.021	.766	1.000	4	D9	SB	1	8765006

E061NO6(M)



Set of 3 Straight Flute Hand Taps, Metric, ANSI Standard

The most versatile taps for hand use or machine tapping through or blind holes in medium strength, medium carbon and alloy steel. Set including taps with 3 different chamfer lengths; taper lead which is ideally for short through holes, plug perfect for deeper through holes and bottoming best suited for blind holes.



	ANSI	2B 3B
	1.5x D	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ■ 13	P3.1 ■ 13	P3.2 ■ 13	P3.3 ■ 10	P4.1 ■ 10	P4.2 ■ 7	M1.1 ■ 16	M1.2 ■ 13	M2.1 ■ 13
M2.2 ■ 13	K1.1 ■ 39	K1.2 ■ 30	K1.3 ■ 23	K2.1 ■ 33	K2.2 ■ 26	K2.3 ■ 20	K3.1 ■ 30	K3.2 ■ 23	K3.3 ■ 16	K4.1 ■ 26	K4.2 ■ 20	K4.3 ■ 13	K4.4 ■ 13
K4.5 ■ 10	K5.1 ■ 30	K5.2 ■ 23	K5.3 ■ 16	N1.1 ■ 39	N1.2 ■ 30	N1.3 ■ 20	N2.1 ■ 92	N2.2 ■ 82	N2.3 ■ 59	N3.1 ■ 112	N3.2 ■ 66	N3.3 ■ 33	N4.1 ■ 26
N4.2 ■ 13													

Hand Taps up through M10 with Taper or Plug lead are with pointed end at the front.

Product series replaces the Sets of 3 Hand Taps for ISO-Metric Thread of the 1700(M) series.

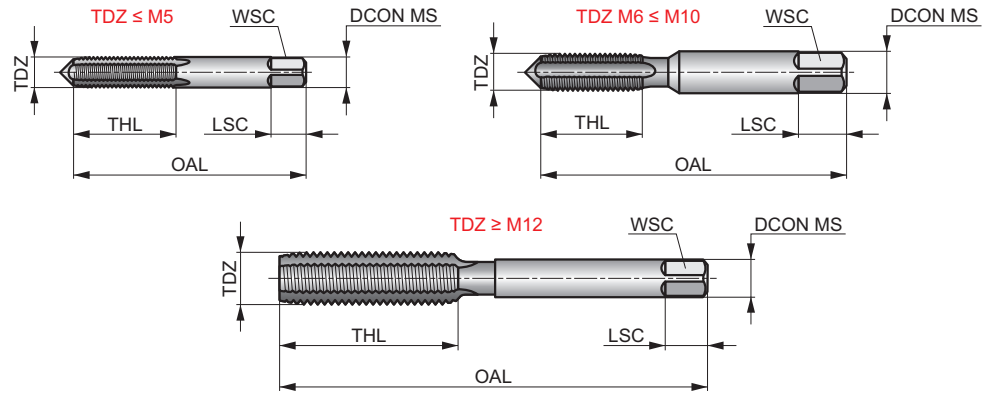
Product	TDZ	TP	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
		(mm)	(inch)	(inch)	(inch)	(inch)	(inch)					
E061M3N06	3	0.50	1.15/16	.512	.141	.110	.188	3	D3	Set of 3	1	8765007
E061M3.5N06	3.5	0.60	2"	.512	.141	.110	.188	3	D4	Set of 3	1	8765008
E061M4N06	4	0.70	2.1/8	.591	.168	.131	.250	3	D4	Set of 3	1	8765009
E061M4.5D4N06	4.5	0.75	2.3/8	.791	.194	.152	.250	3	D4	Set of 3	1	8765010
E061M5N06	5	0.80	2.3/8	.791	.194	.152	.250	3	D4	Set of 3	1	8765011
E061M6N06	6	1.00	2.1/2	.634	.255	.191	.313	3	D5	Set of 3	1	8765012
E061M7N06	7	1.00	2.23/32	.752	.318	.238	.375	3	D5	Set of 3	1	8765013
E061M8N06	8	1.25	2.23/32	.752	.318	.238	.375	3	D5	Set of 3	1	8765014
E061M10N06	10	1.50	2.15/16	.791	.381	.286	.438	3	D6	Set of 3	1	8765015
E061M12N06	12	1.75	3.3/8	.906	.367	.275	.438	3	D6	Set of 3	1	8765016
E061M14N06	14	2.00	3.19/32	.984	.429	.322	.500	4	D7	Set of 3	1	8765017
E061M16N06	16	2.00	3.13/16	.984	.480	.360	.563	4	D7	Set of 3	1	8765018
E061M18N06	18	2.50	4.1/32	1.161	.542	.406	.625	4	D7	Set of 3	1	8765019
E061M20N06	20	2.50	4.15/32	1.161	.652	.489	.688	4	D7	Set of 3	1	8765020

E061NO1(MF)



Straight Flute Taper Lead Hand Tap, Metric-Fine, ANSI Standard

Versatile tap design for hand use or machine tapping in medium strength, medium carbon and alloy steel. With a taper lead chamfer which produces the thinnest chips providing a very gradual and smooth cutting action. Considered to be the best choice for producing short through holes up to 1.5xD.



	ANSI	2B 3B
	1.5xD	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ■ 13	P3.1 ■ 13	P3.2 ■ 13	P3.3 ■ 10	P4.1 ■ 10	P4.2 ■ 7	M1.1 ■ 16	M1.2 ■ 13	M2.1 ■ 13
M2.2 ■ 13	K1.1 ■ 39	K1.2 ■ 30	K1.3 ■ 23	K2.1 ■ 33	K2.2 ■ 26	K2.3 ■ 20	K3.1 ■ 30	K3.2 ■ 23	K3.3 ■ 16	K4.1 ■ 26	K4.2 ■ 20	K4.3 ■ 13	K4.4 ■ 13
K4.5 ■ 10	K5.1 ■ 30	K5.2 ■ 23	K5.3 ■ 16	N1.1 ■ 39	N1.2 ■ 30	N1.3 ■ 20	N2.1 ■ 92	N2.2 ■ 82	N2.3 ■ 59	N3.1 ■ 112	N3.2 ■ 66	N3.3 ■ 33	N4.1 ■ 26
N4.2 ■ 13													

Product series replaces the Taper Lead Hand Taps for ISO-Metric Fine Thread of the 1700(M) series.

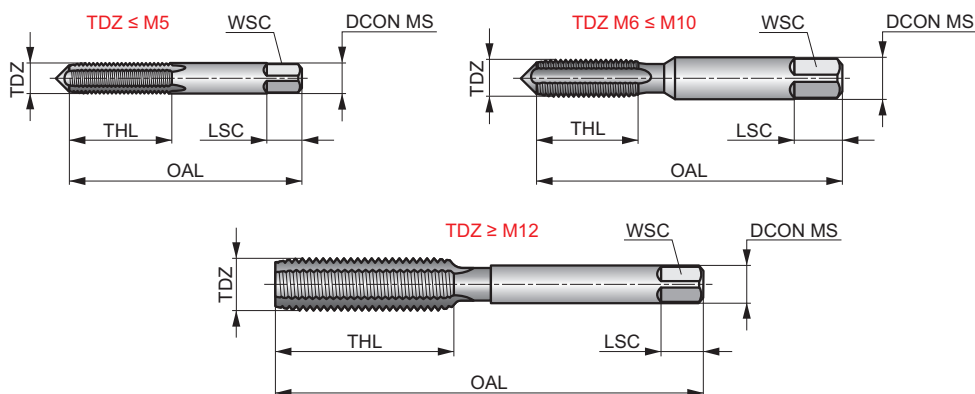
Product	TDZ	TP	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
		(mm)	(inch)	(inch)	(inch)	(inch)	(inch)					
E061M8X1.0D5N01	8	1.00	2.23/32	.752	.318	.238	.375	3	D5	T	1	8765021
E061M10X1.25N01	10	1.25	2.15/16	.791	.381	.286	.438	3	D5	T	1	8765022
E061M12X1.25N01	12	1.25	3.3/8	.906	.367	.275	.438	3	D5	T	1	8765023
E061M14X1.5D6N01	14	1.50	3.19/32	.984	.429	.322	.500	4	D6	T	1	8765024
E061M16X1.5D6N01	16	1.50	3.13/16	.984	.480	.360	.563	4	D6	T	1	8765025
E061M18X1.5D6N01	18	1.50	4.1/32	1.161	.542	.406	.625	4	D6	T	1	8765026
E061M20X1.5D6N01	20	1.50	4.15/32	1.161	.652	.489	.688	4	D6	T	1	8765027
E061M22X1.5D6N01	22	1.50	4.11/16	1.161	.697	.523	.750	4	D6	T	1	8765028
E061M24X2.0D7N01	24	2.00	4.29/32	1.398	.760	.570	.750	4	D7	T	1	8765029

E061NO2(MF)



Straight Flute Plug Lead Hand Tap, Metric-Fine, ANSI Standard

Versatile tap design for hand use or machine tapping in medium strength, medium carbon and alloy steel. With a plug lead chamfer which gives the tap a gradual cutting action. Great for producing through holes, as they are almost as easy as taper lead taps to start, yet also offer a more complete set of threads.



MF	ANSI	2B 3B
	1.5×D	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ▧ 13	P3.1 ■ 13	P3.2 ▧ 13	P3.3 ▧ 10	P4.1 ▧ 10	P4.2 ▧ 7	M1.1 ▧ 16	M1.2 ▧ 13	M2.1 ▧ 13
M2.2 ▧ 13	K1.1 ▧ 39	K1.2 ▧ 30	K1.3 ▧ 23	K2.1 ▧ 33	K2.2 ▧ 26	K2.3 ▧ 20	K3.1 ▧ 30	K3.2 ▧ 23	K3.3 ▧ 16	K4.1 ▧ 26	K4.2 ▧ 20	K4.3 ▧ 13	K4.4 ▧ 13
K4.5 ▧ 10	K5.1 ▧ 30	K5.2 ▧ 23	K5.3 ▧ 16	N1.1 ▧ 39	N1.2 ▧ 30	N1.3 ▧ 20	N2.1 ▧ 92	N2.2 ▧ 82	N2.3 ▧ 59	N3.1 ▧ 112	N3.2 ▧ 66	N3.3 ▧ 33	N4.1 ▧ 26
N4.2 ▧ 13													

Product series replaces the Plug Lead Hand Taps for ISO-Metric Fine Thread of the 1700(M) series.

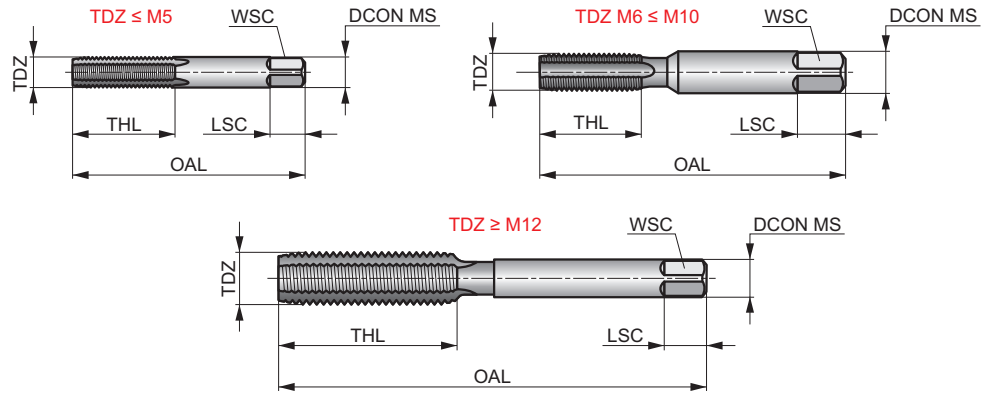
Product	TDZ	TP	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
		(mm)	(inch)	(inch)	(inch)	(inch)	(inch)					
E061M8X1.0D5N02	8	1.00	2.23/32	.752	.318	.238	.375	3	D5	P	1	8765030
E061M10X1.25N02	10	1.25	2.15/16	.791	.381	.286	.438	3	D5	P	1	8765031
E061M12X1.25N02	12	1.25	3.3/8	.906	.367	.275	.438	3	D5	P	1	8765032
E061M14X1.5D6N02	14	1.50	3.19/32	.984	.429	.322	.500	4	D6	P	1	8765033
E061M16X1.5N02	16	1.50	3.13/16	.984	.480	.360	.563	4	D6	P	1	8765034
E061M18X1.5N02	18	1.50	4.1/32	1.161	.542	.406	.625	4	D6	P	1	8765035
E061M20X1.5N02	20	1.50	4.15/32	1.161	.652	.489	.688	4	D6	P	1	8765036
E061M22X1.5D6N02	22	1.50	4.11/16	1.161	.697	.523	.750	4	D6	P	1	8765037
E061M24X2.0D7N02	24	2.00	4.29/32	1.398	.760	.570	.750	4	D7	P	1	8765038

E061NO3(MF)



Straight Flute Bottoming Lead Hand Tap, Metric-Fine, ANSI Standard

Versatile tap for medium strength carbon and alloy steel. With bottoming lead, which though it is hard to start threading with is capable of cutting thread almost all of the way to the bottom of a blind hole. Best used as machine tap or if by hand in sequence after taper and plug lead or starter and intermediate serial tap.



	ANSI	2B 3B
	1.5xD	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ■ 13	P3.1 ■ 13	P3.2 ■ 13	P3.3 ■ 10	P4.1 ■ 10	P4.2 ■ 7	M1.1 ■ 16	M1.2 ■ 13	M2.1 ■ 13
M2.2 ■ 13	K1.1 ■ 39	K1.2 ■ 30	K1.3 ■ 23	K2.1 ■ 33	K2.2 ■ 26	K2.3 ■ 20	K3.1 ■ 30	K3.2 ■ 23	K3.3 ■ 16	K4.1 ■ 26	K4.2 ■ 20	K4.3 ■ 13	K4.4 ■ 13
K4.5 ■ 10	K5.1 ■ 30	K5.2 ■ 23	K5.3 ■ 16	N1.1 ■ 39	N1.2 ■ 30	N1.3 ■ 20	N2.1 ■ 92	N2.2 ■ 82	N2.3 ■ 59	N3.1 ■ 112	N3.2 ■ 66	N3.3 ■ 33	N4.1 ■ 26
N4.2 ■ 13													

Product series replaces the Bottoming Lead Hand Taps for ISO-Metric Fine Thread of the 1700(M) series.

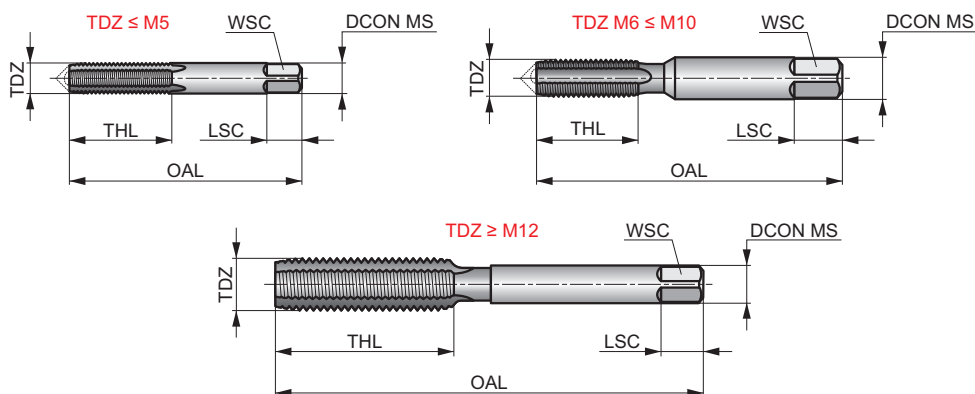
Product	TDZ	TP	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
		(mm)	(inch)	(inch)	(inch)	(inch)	(inch)					
E061M8X1.0D5N03	8	1.00	2.23/32	.752	.318	.238	.375	3	D5	SB	1	8765039
E061M10X1.25N03	10	1.25	2.15/16	.791	.381	.286	.438	3	D5	SB	1	8765040
E061M12X1.25N03	12	1.25	3.3/8	.906	.367	.275	.438	3	D5	SB	1	8765041
E061M14X1.5D6N03	14	1.50	3.19/32	.984	.429	.322	.500	4	D6	SB	1	8765042
E061M16X1.5N03	16	1.50	3.13/16	.984	.480	.360	.563	4	D6	SB	1	8765043
E061M18X1.5N03	18	1.50	4.1/32	1.161	.542	.406	.625	4	D6	SB	1	8765044
E061M20X1.5N03	20	1.50	4.15/32	1.161	.652	.489	.688	4	D6	SB	1	8765045
E061M22X1.5D6N03	22	1.50	4.11/16	1.161	.697	.523	.750	4	D6	SB	1	8765046
E061M24X2.0D7N03	24	2.00	4.29/32	1.398	.760	.570	.750	4	D7	SB	1	8765047

E061NO6(MF)



Set of 3 Straight Flute Hand Taps, Metric-Fine, ANSI Standard

The most versatile taps for hand use or machine tapping through or blind holes in medium strength, medium carbon and alloy steel. Set including taps with 3 different chamfer lengths; taper lead which is ideally for short through holes, plug perfect for deeper through holes and bottoming best suited for blind holes.



MF	ANSI	2B 3B
	1.5×D	HSS
		Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ■ 13	P3.1 ■ 13	P3.2 ■ 13	P3.3 ■ 10	P4.1 ■ 10	P4.2 ■ 7	M1.1 ■ 16	M1.2 ■ 13	M2.1 ■ 13
M2.2 ■ 13	K1.1 ■ 39	K1.2 ■ 30	K1.3 ■ 23	K2.1 ■ 33	K2.2 ■ 26	K2.3 ■ 20	K3.1 ■ 30	K3.2 ■ 23	K3.3 ■ 16	K4.1 ■ 26	K4.2 ■ 20	K4.3 ■ 13	K4.4 ■ 13
K4.5 ■ 10	K5.1 ■ 30	K5.2 ■ 23	K5.3 ■ 16	N1.1 ■ 39	N1.2 ■ 30	N1.3 ■ 20	N2.1 ■ 92	N2.2 ■ 82	N2.3 ■ 59	N3.1 ■ 112	N3.2 ■ 66	N3.3 ■ 33	N4.1 ■ 26
N4.2 ■ 13													

Hand Taps up through M10 with Taper or Plug lead are with pointed end at the front.

Product series replaces the Sets of 3 Hand Taps for ISO-Metric Fine Thread of the 1700(M) series.

Product	TDZ	TP	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
		(mm)	(inch)	(inch)	(inch)	(inch)	(inch)					
E061M8X1.0D5N06	8	1.00	2.23/32	.752	.318	.238	.375	3	D5	Set of 3	1	8765048
E061M10X1.25N06	10	1.25	2.15/16	.791	.381	.286	.438	3	D5	Set of 3	1	8765049
E061M12X1.25N06	12	1.25	3.3/8	.906	.367	.275	.438	3	D5	Set of 3	1	8765050
E061M14X1.5D6N06	14	1.50	3.19/32	.984	.429	.322	.500	4	D6	Set of 3	1	8765051
E061M16X1.5D6N06	16	1.50	3.13/16	.984	.480	.360	.563	4	D6	Set of 3	1	8765052
E061M18X1.5D6N06	18	1.50	4.1/32	1.161	.542	.406	.625	4	D6	Set of 3	1	8765053
E061M20X1.5D6N06	20	1.50	4.15/32	1.161	.652	.489	.688	4	D6	Set of 3	1	8765054
E061M22X1.5D6N06	22	1.50	4.11/16	1.161	.697	.523	.750	4	D6	Set of 3	1	8765055
E061M24X2.0D7N06	24	2.00	4.29/32	1.398	.760	.570	.750	4	D7	Set of 3	1	8765056

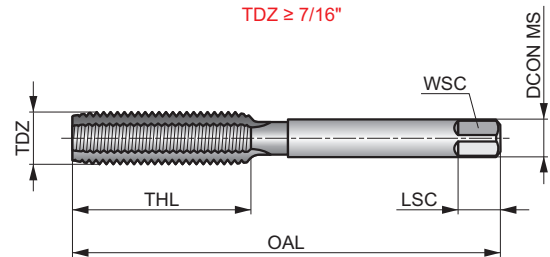
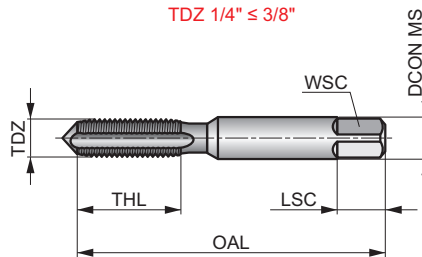
E062NO2(UNC)



Straight Flute Plug Lead Hand Tap, UNC, ANSI Standard, Left Hand thread

Versatile tap design for hand use or machine tapping in medium strength, medium carbon and alloy steel. With a plug lead chamfer which gives the tap a gradual cutting action. Great for producing through holes. For left hand threads, which when viewed axially, wind in a counter-clockwise and receding direction.

	ANSI	3B
	1.5xD	HSS
	L	Bright



Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ▧ 13	P3.1 ■ 13	P3.2 ▧ 13	P3.3 ▧ 10	P4.1 ▧ 10	P4.2 ▧ 7	M1.1 ▧ 16	M1.2 ▧ 13	M2.1 ▧ 13
M2.2 ▧ 13	K1.1 ▧ 39	K1.2 ▧ 30	K1.3 ▧ 23	K2.1 ▧ 33	K2.2 ▧ 26	K2.3 ▧ 20	K3.1 ▧ 30	K3.2 ▧ 23	K3.3 ▧ 16	K4.1 ▧ 26	K4.2 ▧ 20	K4.3 ▧ 13	K4.4 ▧ 13
K4.5 ▧ 10	K5.1 ▧ 30	K5.2 ▧ 23	K5.3 ▧ 16	N1.1 ▧ 39	N1.2 ▧ 30	N1.3 ▧ 20	N2.1 ▧ 92	N2.2 ▧ 82	N2.3 ▧ 59	N3.1 ▧ 112	N3.2 ▧ 66	N3.3 ▧ 33	N4.1 ▧ 26
N4.2 ▧ 13													

Product series replaces the Plug Lead Hand Taps of the 1500L(UNC) series.

Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0621/4X20H3N02	1/4	20	2.1/2	.634	.255	.191	.313	4	H3	P	1	8765057
E0625/16X18H3N02	5/16	18	2.23/32	.752	.318	.238	.375	4	H3	P	1	8765058
E0623/8X16H3N02	3/8	16	2.15/16	.791	.381	.286	.438	4	H3	P	1	8765059
E0627/16X14H3N02	7/16	14	3.5/32	.906	.323	.242	.406	4	H3	P	1	8765060
E0621/2X13H3N02	1/2	13	3.3/8	.906	.367	.275	.438	4	H3	P	1	8765061
E0629/16X12H3N02	9/16	12	3.19/32	.984	.429	.322	.500	4	H3	P	1	8765062
E0625/8X11H3N02	5/8	11	3.13/16	.984	.480	.360	.563	4	H3	P	1	8765063
E0623/4X10H3N02	3/4	10	4.1/4	1.161	.590	.442	.688	4	H3	P	1	8765064
E0627/8X9H4N02	7/8	9	4.11/16	1.161	.697	.523	.750	4	H4	P	1	8765065
E0621X8H4N02	1	8	5.1/8	1.398	.800	.600	.813	4	H4	P	1	8765066

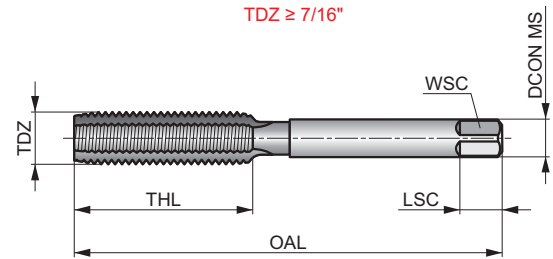
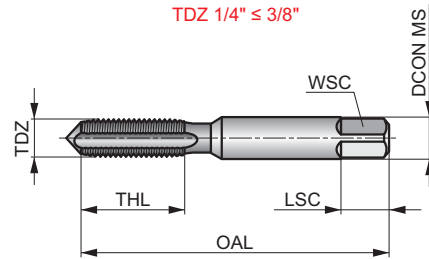
E062NO2(UNF)



Straight Flute Plug Lead Hand Tap, UNF, ANSI Standard, Left Hand thread

Versatile tap design for hand use or machine tapping in medium strength, medium carbon and alloy steel. With a plug lead chamfer which gives the tap a gradual cutting action. Great for producing through holes. For left hand threads, which when viewed axially, wind in a counter-clockwise and receding direction.

	ANSI	3B
	1.5xD	HSS
	L	Bright



Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	M1.1	M1.2	M2.1
■ 23	■ 23	■ 26	■ 20	■ 16	■ 13	■ 13	■ 13	■ 10	■ 10	■ 7	■ 16	■ 13	■ 13
M2.2	K1.1	K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K4.1	K4.2	K4.3	K4.4
■ 13	■ 39	■ 30	■ 23	■ 33	■ 26	■ 20	■ 30	■ 23	■ 16	■ 26	■ 20	■ 13	■ 13
K4.5	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3	N2.1	N2.2	N2.3	N3.1	N3.2	N3.3	N4.1
■ 10	■ 30	■ 23	■ 16	■ 39	■ 30	■ 20	■ 92	■ 82	■ 59	■ 112	■ 66	■ 33	■ 26
N4.2													
■ 13													

Product series replaces the Plug Lead Hand Taps of the 1500L(UNF) series.

Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0621/4X28H3N02	1/4	28	2.1/2	.634	.255	.191	.313	4	H3	P	1	8765067
E0625/16X24H3N02	5/16	24	2.23/32	.752	.318	.238	.375	4	H3	P	1	8765068
E0623/8X24H3N02	3/8	24	2.15/16	.791	.381	.286	.438	4	H3	P	1	8765069
E0627/16X20H3N02	7/16	20	3.5/32	.906	.323	.242	.406	4	H3	P	1	8765070
E0621/2X20H3N02	1/2	20	3.3/8	.906	.367	.275	.438	4	H3	P	1	8765071
E0629/16X18H3N02	9/16	18	3.19/32	.984	.429	.322	.500	4	H3	P	1	8765072
E0625/8X18H3N02	5/8	18	3.13/16	.984	.480	.360	.563	4	H3	P	1	8765073
E0623/4X16H3N02	3/4	16	4.1/4	1.161	.590	.442	.688	4	H3	P	1	8765074
E0627/8X14H4N02	7/8	14	4.11/16	1.161	.697	.523	.750	4	H4	P	1	8765075
E0621X12H4N02	1	12	5.1/8	1.398	.800	.600	.813	4	H4	P	1	8765076

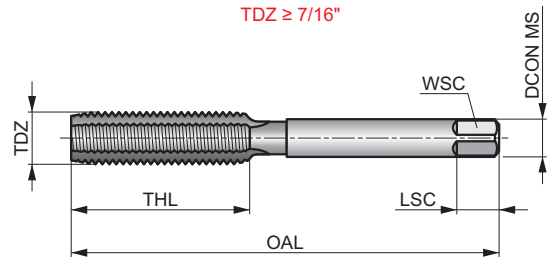
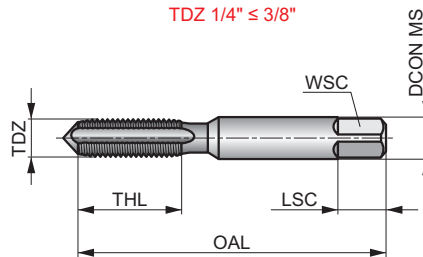
E063NO2(UNC)



Straight Flute Plug Lead Hand Tap, UNC, ANSI Standard, Steam Tempered

Versatile tap design for hand use or machine tapping, steam oxide treated to reduce wear and chip welding in harder ferrous materials. With a plug lead chamfer which gives the tap a gradual cutting action. Great for producing through holes.

	ANSI	3B
	1.5xD	HSS
	R	ST



Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ■ 13	P3.1 ■ 13	P3.2 ■ 13	P3.3 ■ 10	P4.1 ■ 10	P4.2 ■ 7	M1.1 ■ 16	M1.2 ■ 13	M2.1 ■ 13
M2.2 ■ 13	K1.1 ■ 39	K1.2 ■ 30	K1.3 ■ 23	K2.1 ■ 33	K2.2 ■ 26	K2.3 ■ 20	K3.1 ■ 30	K3.2 ■ 23	K3.3 ■ 16	K4.1 ■ 26	K4.2 ■ 20	K4.3 ■ 13	K4.4 ■ 13
K4.5 ■ 10	K5.1 ■ 30	K5.2 ■ 23	K5.3 ■ 16	N1.1 ■ 39	N1.2 ■ 30	N1.3 ■ 20	N2.1 ■ 92	N2.2 ■ 82	N2.3 ■ 59	N3.1 ■ 112	N3.2 ■ 66	N3.3 ■ 33	N4.1 ■ 26
N4.2 ■ 13													

Product series replaces the Plug Lead Hand Taps of the 1500A(UNC) series.

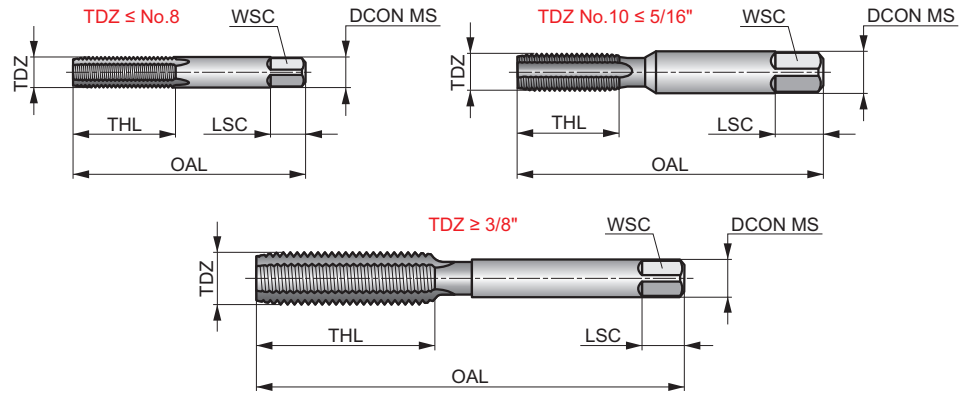
Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0631/4X20H3N02	1/4	20	2.1/2	.634	.255	.191	.313	4	H3	P	1	8765077
E0635/16X18H3N02	5/16	18	2.23/32	.752	.318	.238	.375	4	H3	P	1	8765078
E0633/8X16H3N02	3/8	16	2.15/16	.791	.381	.286	.438	4	H3	P	1	8765079
E0637/16X14H3N02	7/16	14	3.5/32	.906	.323	.242	.406	4	H3	P	1	8765080
E0631/2X13H3N02	1/2	13	3.3/8	.906	.367	.275	.438	4	H3	P	1	8765081
E0639/16X12H3N02	9/16	12	3.19/32	.984	.429	.322	.500	4	H3	P	1	8765082
E0635/8X11H3N02	5/8	11	3.13/16	.984	.480	.360	.563	4	H3	P	1	8765083
E0633/4X10H3N02	3/4	10	4.1/4	1.161	.590	.442	.688	4	H3	P	1	8765084
E0637/8X9H4N02	7/8	9	4.11/16	1.161	.697	.523	.750	4	H4	P	1	8765085
E0631X8H4N02	1	8	5.1/8	1.398	.800	.600	.813	4	H4	P	1	8765086

E067NO3(STI-UNC)



Straight Flute Bottoming Lead Hand Tap for Screw Thread Inserts Thread

Tap with bottoming lead for hand use or machine tapping of thread for wire Screw Thread Inserts. STIs are inserted into a threaded hole, produced with this tap, to reinforce the original or repair damaged ones. The tap thread diameter size is the STI's internal thread size, thus a larger premachined hole diameter is needed.



	ANSI	2B 3B
	1.5×D	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ■ 13	P3.1 ■ 13	P3.2 ■ 13	P3.3 ■ 10	P4.1 ■ 10	P4.2 ■ 7	M1.1 ■ 16	M1.2 ■ 13	M2.1 ■ 13
M2.2 ■ 13	K1.1 ■ 39	K1.2 ■ 30	K1.3 ■ 23	K2.1 ■ 33	K2.2 ■ 26	K2.3 ■ 20	K3.1 ■ 30	K3.2 ■ 23	K3.3 ■ 16	K4.1 ■ 26	K4.2 ■ 20	K4.3 ■ 13	K4.4 ■ 13
K4.5 ■ 10	K5.1 ■ 30	K5.2 ■ 23	K5.3 ■ 16	N1.1 ■ 39	N1.2 ■ 30	N1.3 ■ 20	N2.1 ■ 92	N2.2 ■ 82	N2.3 ■ 59	N3.1 ■ 112	N3.2 ■ 66	N3.3 ■ 33	N4.1 ■ 26
N4.2 ■ 13													

Product series replaces the Bottoming Lead Hand Taps of the 1572(UNC) series.

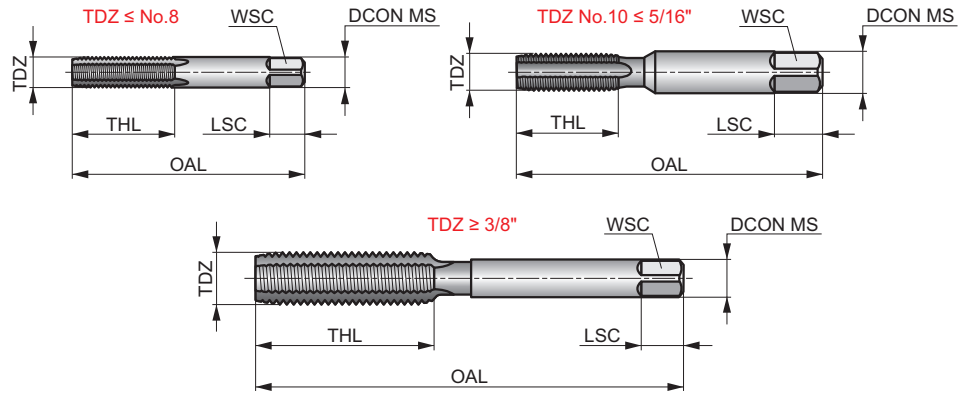
Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0674X40H2N03	4	40	2"	.512	.141	.110	.188	3	H2	SB	1	8765087
E0676X32H3N03	6	32	2.3/8	.791	.194	.152	.250	3	H3	SB	1	8765088
E0678X32H3N03	8	32	2.3/8	.791	.220	.165	.281	3	H3	SB	1	8765089
E06710X24H2N03	10	24	2.1/2	.634	.255	.191	.313	3	H2	SB	1	8765090
E0671/4X20H3N03	1/4	20	2.23/32	.752	.318	.238	.375	3	H3	SB	1	8765091
E0675/16X18H3N03	5/16	18	2.15/16	.791	.381	.286	.438	3	H3	SB	1	8765092
E0673/8X16H3N03	3/8	16	3.3/8	.906	.367	.275	.438	3	H3	SB	1	8765093
E0677/16X14H3N03	7/16	14	3.19/32	.984	.429	.322	.500	4	H3	SB	1	8765094
E0671/2X13H3N03	1/2	13	3.13/16	.984	.480	.360	.563	4	H3	SB	1	8765095

E067NO3(STI-UNF)



Straight Flute Bottoming Lead Hand Tap for Screw Thread Inserts Thread

Tap with bottoming lead for hand use or machine tapping of thread for wire Screw Thread Inserts. STIs are inserted into a threaded hole, produced with this tap, to reinforce the original or repair damaged ones. The tap thread diameter size is the STI's internal thread size, thus a larger premachined hole diameter is needed.



	ANSI	2B 3B
	1.5xD	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ▧ 13	P3.1 ■ 13	P3.2 ▧ 13	P3.3 ▧ 10	P4.1 ▧ 10	P4.2 ▧ 7	M1.1 ▧ 16	M1.2 ▧ 13	M2.1 ▧ 13
M2.2 ▧ 13	K1.1 ▧ 39	K1.2 ▧ 30	K1.3 ▧ 23	K2.1 ▧ 33	K2.2 ▧ 26	K2.3 ▧ 20	K3.1 ▧ 30	K3.2 ▧ 23	K3.3 ▧ 16	K4.1 ▧ 26	K4.2 ▧ 20	K4.3 ▧ 13	K4.4 ▧ 13
K4.5 ▧ 10	K5.1 ▧ 30	K5.2 ▧ 23	K5.3 ▧ 16	N1.1 ▧ 39	N1.2 ▧ 30	N1.3 ▧ 20	N2.1 ▧ 92	N2.2 ▧ 82	N2.3 ▧ 59	N3.1 ▧ 112	N3.2 ▧ 66	N3.3 ▧ 33	N4.1 ▧ 26
N4.2 ▧ 13													

Product series replaces the Bottoming Lead Hand Taps of the 1572(UNF) series.

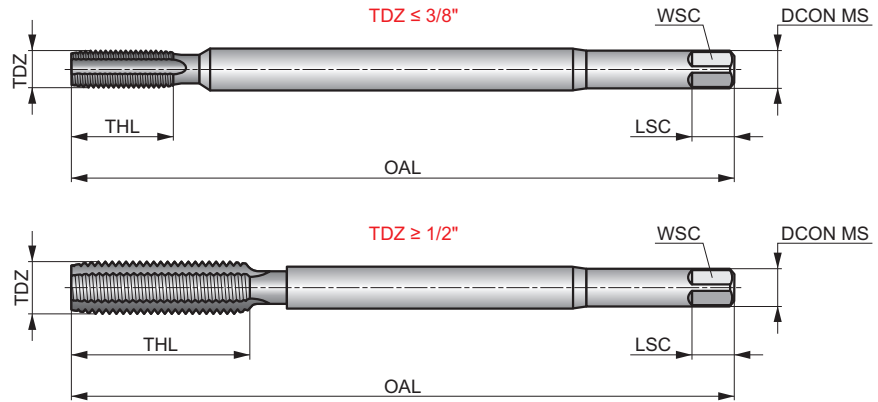
Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E06710X32H2N03	10	32	2.1/2	.634	.255	.191	.313	3	H2	SB	1	8765096
E06710X32H3N03	10	32	2.1/2	.634	.255	.191	.313	3	H3	SB	1	8765097
E06714X28H3N03	1/4	28	2.23/32	.752	.318	.238	.375	3	H3	SB	1	8765098
E067716X20H3N03	7/16	20	3.3/8	.906	.367	.275	.438	4	H3	SB	1	8765099

E068NO2(UNC)



Straight Flute Pulley Tap, Plug lead, UNC, ANSI Standard

Tap with extended length to provide more reach and a shank diameter close to the thread diameter to act as alignment guide reaching through a pulley hub. Yet, the long shank permits tapping other long reach applications as well, providing the actual tapping depth doesn't exceed the usable length (LU).



UNC	ANSI	3B
	1.5×D	HSS
	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	M1.1	M1.2	M2.1
■ 23	■ 23	■ 26	■ 20	■ 16	▧ 13	■ 13	▧ 13	▧ 10	▧ 10	▧ 7	▧ 16	▧ 13	▧ 13
M2.2	K1.1	K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K4.1	K4.2	K4.3	K4.4
▧ 13	▧ 39	▧ 30	▧ 23	▧ 33	▧ 26	▧ 20	▧ 30	▧ 23	▧ 16	▧ 26	▧ 20	▧ 13	▧ 13
K4.5	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3	N2.1	N2.2	N2.3	N3.1	N3.2	N3.3	N4.1
▧ 10	▧ 30	▧ 23	▧ 16	▧ 39	▧ 30	▧ 20	▧ 92	▧ 82	▧ 59	▧ 112	▧ 66	▧ 33	▧ 26
N4.2													
▧ 13													

Product series replaces the Plug Lead Hand Taps of the 1519(UNC) series.

Product	TDZ	TPI	OAL	THL	DCON MS	WSC	LSC	NOF	Limits	Chamfer	Pack Qty	MID
			(inch)	(inch)	(inch)	(inch)	(inch)					
E0681/4X20X6N02	1/4	20	6"	.634	.255	.191	.313	4	H3	P	1	8765100
E0681/4X20X8N02	1/4	20	8"	.634	.255	.191	.313	4	H3	P	1	8765101
E0685/16X18X6N02	5/16	18	6"	.791	.318	.238	.375	4	H3	P	1	8765102
E0685/16X18X8N02	5/16	18	8"	.791	.318	.238	.375	4	H3	P	1	8765103
E0683/8X16X6N02	3/8	16	6"	.787	.381	.286	.438	4	H3	P	1	8765104
E0683/8X16X8N02	3/8	16	8"	.787	.381	.286	.438	4	H3	P	1	8765105
E0683/8X16X10N02	3/8	16	10"	.787	.381	.286	.438	4	H3	P	1	8765106
E0681/2X13X6N02	1/2	13	6"	.906	.507	.380	.563	4	H3	P	1	8765107
E0681/2X13X8N02	1/2	13	8"	.906	.507	.380	.563	4	H3	P	1	8765108
E0681/2X13X10N02	1/2	13	10"	.906	.507	.380	.563	4	H3	P	1	8765109
E0685/8X11X6N02	5/8	11	6"	.984	.633	.475	.688	4	H3	P	1	8765110
E0685/8X11X8N02	5/8	11	8"	.984	.633	.475	.688	4	H3	P	1	8765111
E0685/8X11X10N02	5/8	11	10"	.984	.633	.475	.688	4	H3	P	1	8765112
E0683/4X10X10N02	3/4	10	10"	1.161	.759	.569	.750	4	H3	P	1	8765113

Thread form (THFT)														
Basic standard group (BSG)		ANSI B94.9	ANSI B94.9	ANSI B94.9	ANSI B94.9	ANSI B94.9	ANSI B94.9							
Thread tolerance class (TCTR)		Normal	Normal	Normal	Normal	Normal	Normal							
Threading application														
Usable length (ULDR)		1.5×D	1.5×D	1.5×D	1.5×D	1.5×D	1.5×D							
Material code (BMC)		HSS	HSS	HSS	HSS	HSS-E PM	HSS							
Tap chamfer style (TCS)		C 2-3	C 2-3	C 2-3	C 2-3	C 2-3	C 2-3							
Flute Geometry (FDC)														
Hand (Cutting direction)														
Coating		Bright	Bright	Bright	TIN	Bright	Bright							
Product Family Code		E710	E708	E712	E721	E714	E711	E709						
PSF cutting diameters range		1/16 - 2"	1/8 - 1"	1/16 - 1.1/4	1/8 - 1"	1/8 - 1"	1/8 - 1.1/2	1/8 - 3/4						
		37	38	39	40	41	42	43						
P	P1	■	■	■	■	■	■	■						
	P2	■	■	■	■	■	■	■						
	P3	■	■	■	■	■	■	■						
	P4	■	■	■	■	■	■	■						
M	M1													
	M2													
	M3													
	M4													
K	K1	■	■	■	■	■	■	■						
	K2	■	■	■	■	■	■	■						
	K3	■	■	■	■	■	■	■						
	K4	■	■	■	■	■	■	■						
	K5	■	■	■	■	■	■	■						
N	N1													
	N2	■	■	■	■	■	■	■						
	N3	■	■	■	■	■	■	■						
	N4	■	■	■	■	■	■	■						
	N5													
S	S1													
	S2													
	S3													
	S4													
H	H1													
	H2													
	H3													
	H4													

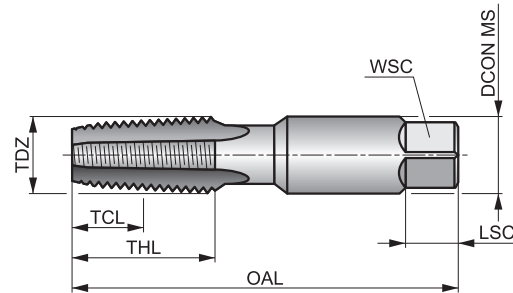
E710



HSS Straight Flute Serial Hand Tap, NPT, ANSI Standard

Ideal for hand tapping tough materials. The straight flute design makes it ideal for both through and blind holes. Available as a single finishing tap or as a set of two serial taps, which should be used one after the other to create the full thread.

	ANSI B94.9	Normal
	1.5xD	HSS
C 2-3		
Bright		



Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ▣ 13	P3.1 ■ 13	P3.2 ▣ 13	P4.1 ▣ 10	K1.1 ▣ 20	K1.2 ▣ 13	K1.3 ▣ 10	K2.1 ▣ 23	K2.2 ▣ 20
K3.1 ▣ 23	K3.2 ▣ 16	K4.1 ▣ 20	K4.2 ▣ 16	K5.1 ▣ 23	K5.2 ▣ 16	N1.3 ▣ 26	N2.1 ▣ 36	N2.2 ▣ 33	N2.3 ▣ 23	N3.1 ■ 56	N3.2 ■ 33	N3.3 ▣ 16	N4.2 ▣ 16
N4.3 ▣ 10													

Product series replaces the Pipe Taps of the 1541(NPT) series.

Product series is an alternative for the Pipe Taps of the 6541 series.

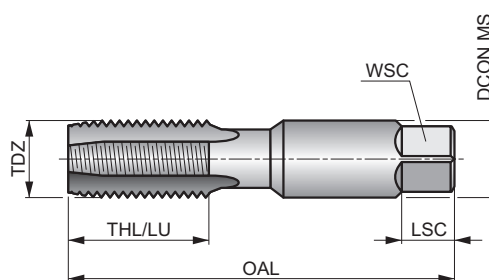
Product	TDZ	TPI	TD	OAL	THL	TCL	DCON MS	WSC	LSC	NOF	PHD	Pack Qty	MID
			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)		
E7101	1"	11.5	33.40	115.0	43	29.40	28.60	21.40	21	5	29.00	1	5977609
E7101.1/2	1.1/2	11.5	48.26	135.0	43	28.90	38.10	28.60	25	7	44.00	1	5977612
E7101.1/4	1.1/4	11.5	42.16	125.0	43	27.70	33.30	25.00	24	5	38.00	1	5977615
E7101/16N03	1/16	27	7.94	65.0	17	11.70	8.10	6.00	8	4	6.30	1	5977618
E7101/2	1/2	14	21.34	100.0	35	22.70	17.50	13.10	16	4	18.00	1	5977622
E7101/2N07	1/2	14	21.34	100.0	35	22.70	17.50	13.10	16	4	18.00	1	5977625
E7101/4	1/4	18	13.72	75.0	27	17.60	14.30	10.70	11	4	11.00	1	5977628
E7101/4N07	1/4	18	13.72	75.0	27	17.60	14.30	10.70	11	4	11.00	1	5977631
E7101/8	1/8	27	10.29	70.0	19	11.90	11.10	8.30	10	4	8.50	1	5977634
E7101/8N07	1/8	27	10.29	70.0	19	11.90	11.10	8.30	10	4	8.50	1	5977637
E7102	2"	11.5	60.33	145.0	43	26.60	47.60	35.70	29	7	56.00	1	5977643
E7103/4	3/4	14	26.67	105.0	35	24.40	23.00	17.20	17	5	23.00	1	5977646
E7103/4N07	3/4	14	26.67	105.0	35	24.40	23.00	17.20	17	5	23.00	1	5977649
E7103/8	3/8	18	17.15	80.0	27	19.50	17.80	13.50	13	4	14.50	1	5977652
E7103/8N07	3/8	18	17.15	80.0	27	19.50	17.80	13.50	13	4	14.50	1	5977653

E708



HSS Straight Flute Machine Tap, NPSM, ANSI Standard

General purpose straight flute machine tap for through and blind holes. Bright finish to produce more accurate and cleaner threads, preventing the workpiece material from sticking to the cutting edges.



	ANSI B94.9	Normal
	1.5×D	HSS
C 2-3		
Bright		

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ▣ 13	P3.1 ■ 13	P3.2 ▣ 13	P4.1 ▣ 10	K1.1 ▣ 20	K1.2 ▣ 13	K1.3 ▣ 10	K2.1 ▣ 23	K2.2 ▣ 20
K3.1 ▣ 23	K3.2 ▣ 16	K4.1 ▣ 20	K4.2 ▣ 16	K5.1 ▣ 23	K5.2 ▣ 16	N1.3 ▣ 26	N2.1 ▣ 36	N2.2 ▣ 33	N2.3 ▣ 23	N3.1 ■ 56	N3.2 ■ 33	N3.3 ▣ 16	N4.2 ▣ 16
N4.3 ▣ 10													

Product series replaces the Pipe Taps of the 1542(NPS) series.

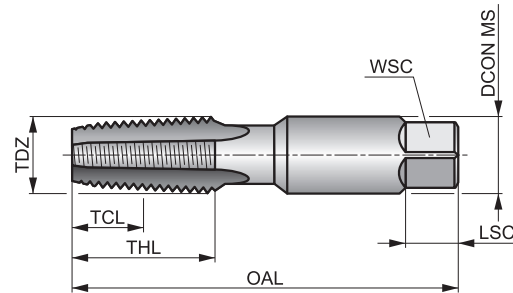
Product	TDZ	TPI	TD	OAL	THL	LU	DCON MS	WSC	LSC	NOF	PHD	Pack Qty	MID
			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)		
E7081	1"	11.5	33.40	115.0	43	—	28.60	21.40	21	5	30.50	1	5977549
E7081/2	1/2	14	21.33	100.0	35	—	17.50	13.10	16	4	19.00	1	5977553
E7081/4	1/4	18	13.72	75.0	27	27.00	14.30	10.70	11	4	12.00	1	5977557
E7081/8	1/8	27	10.29	70.0	19	19.00	11.10	8.30	10	4	9.10	1	5977560
E7083/4	3/4	14	26.67	105.0	35	—	23.00	17.20	17	5	24.50	1	5977564
E7083/8	3/8	18	17.15	80.0	27	27.00	17.80	13.50	13	4	15.50	1	5977572

E712



HSS Straight Flute Hand Tap, NPTF, ANSI Standard

A versatile tool, suitable for machine and also hand tapping. With a straight flute design and bottoming lead for blind and through holes. Bright finish to produce more accurate and cleaner threads, preventing the workpiece material from sticking to the cutting edges.



	ANSI B94.9	Normal
	1.5xD	HSS
C 2-3		
Bright		

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ▣ 13	P3.1 ■ 13	P3.2 ▣ 13	P4.1 ▣ 10	K1.1 ▣ 20	K1.2 ▣ 13	K1.3 ▣ 10	K2.1 ▣ 23	K2.2 ▣ 20
K3.1 ▣ 23	K3.2 ▣ 16	K4.1 ▣ 20	K4.2 ▣ 16	K5.1 ▣ 23	K5.2 ▣ 16	N1.3 ▣ 26	N2.1 ▣ 36	N2.2 ▣ 33	N2.3 ▣ 23	N3.1 ■ 56	N3.2 ■ 33	N3.3 ▣ 16	N4.2 ▣ 16
N4.3 ▣ 10													

Product series replaces the Pipe Taps of the 1543(NPT) series.

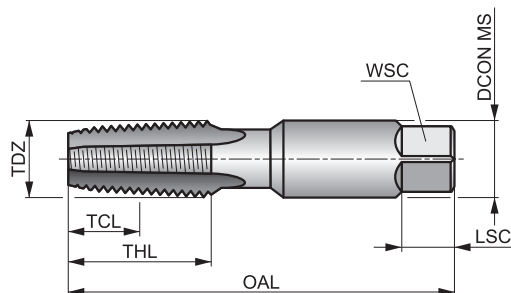
Product	TDZ	TPI	TD	OAL	THL	TCL	DCON MS	WSC	LSC	NOF	PHD	Pack Qty	MID
			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)		
E7121	1"	11.5	33.40	115.0	43	29.40	28.60	21.40	21	5	29.00	1	5977585
E7121.1/4	1.1/4	11.5	42.16	125.0	43	27.70	33.40	24.90	23	5	37.75	1	5977619
E7121/16	1/16	27	7.94	65.0	17	11.70	8.10	6.00	8	4	6.20	1	5977651
E7121/2	1/2	14	21.34	100.0	35	22.70	17.50	13.10	16	4	17.75	1	5977677
E7121/4	1/4	18	13.72	75.0	27	17.60	14.30	10.70	11	4	10.90	1	5977685
E7121/8	1/8	27	10.29	70.0	19	11.90	11.10	8.30	10	4	8.40	1	5977688
E7123/4	3/4	14	26.67	105.0	35	24.40	23.00	17.20	17	5	23.00	1	5977691
E7123/8	3/8	18	17.15	80.0	27	19.50	17.80	13.50	13	4	14.25	1	5977694

E721



HSS Straight Flute Hand Tap with TiN Coating, NPT, ANSI Standard

A versatile tool, suitable for machine and also hand tapping. With a straight flute design and bottoming lead for blind and through holes. TiN coated to improve performance and extend tool life.



	ANSI B94.9	Normal
	1.5×D	HSS
C 2-3		

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ▣39	P1.2 ▣43	P1.3 ■43	P2.1 ▣39	P2.2 ■36	P2.3 ▣30	P3.1 ▣23	P3.2 ■20	P3.3 ▣13	P4.1 ■16	P4.2 ▣10	K1.1 ■39	K1.2 ■30	K1.3 ■23
K2.1 ■39	K2.2 ■33	K3.1 ■36	K3.2 ■26	K4.1 ■33	K4.2 ■26	K5.1 ■36	K5.2 ■30	N1.3 ▣33	N2.1 ▣56	N2.2 ▣49	N2.3 ■36	N3.1 ■62	N3.2 ■36
N3.3 ▣20	N4.2 ▣23	N4.3 ▣16											

Product series replaces the Pipe Taps of the TN1541 series.

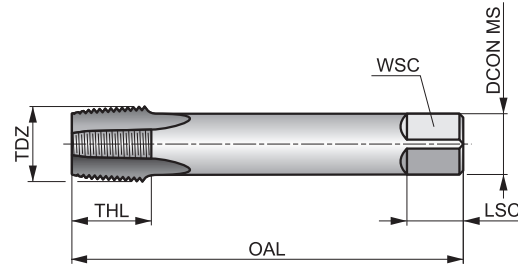
Product series is an alternative for the Pipe Taps of the 1544(NPT) series.

Product	TDZ	TPI	TD	OAL	THL	TCL	DCON MS	WSC	LSC	NOF	PHD	Pack Qty	MID
			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)		
E7211	1"	11.5	33.40	115.0	43	29.40	28.60	21.40	21	5	29.00	1	5977592
E7211/2	1/2	14	21.34	100.0	35	22.70	17.50	13.10	16	4	18.00	1	5977595
E7211/4	1/4	18	13.72	75.0	27	17.60	14.30	10.70	11	4	11.00	1	5977598
E7211/8	1/8	27	10.29	70.0	19	11.90	11.10	8.30	10	4	8.50	1	5977601
E7213/4	3/4	14	26.67	105.0	35	24.40	23.00	17.20	17	5	23.00	1	5977604
E7213/8	3/8	18	17.15	80.0	27	19.50	17.80	13.50	13	4	14.50	1	5977607

E714

HSS-E-PM Straight Flute Machine Tap, NPT, ANSI Standard

General purpose straight flute machine tap for through and blind holes. Bright finish to produce more accurate and cleaner threads, preventing the workpiece material from sticking to the cutting edges.



		Normal
	1.5×D	HSS-E-PM
	C 2-3	
	Bright	

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P3.3	P4.1	P4.2	K1.1	K1.2	K1.3
■ 26	■ 30	■ 30	■ 23	■ 20	▧ 16	■ 13	▧ 13	▧ 10	■ 10	▧ 7	▧ 20	▧ 13	▧ 10
K2.1	K2.2	K3.1	K3.2	K4.1	K4.2	K5.1	K5.2	N1.3	N2.1	N2.2	N2.3	N3.1	N3.2
▧ 23	▧ 20	▧ 23	▧ 16	▧ 20	▧ 16	▧ 23	▧ 16	▧ 30	▧ 39	▧ 36	▧ 26	■ 59	■ 36

Product series replaces the Pipe Taps of the 1545(NPT) series.

Product series is an alternative for the Pipe Taps of the 1545A(NPT) series.

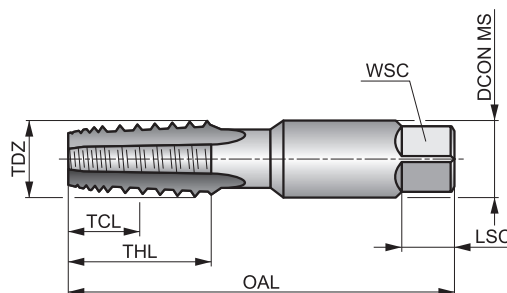
Product	TDZ	TPI	TD	OAL	THL	DCON MS	WSC	LSC	NOF	PHD	Pack Qty	MID
			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)		
E7141	1"	11.5	33.20	150.0	31	28.00	22.00	25	5	29.00	1	5977548
E7141/2	1/2	14	21.20	125.0	26	18.00	14.50	17	4	18.00	1	5977552
E7141/4	1/4	18	13.60	100.0	20	14.00	11.00	14	3	11.00	1	5977556
E7141/8	1/8	27	10.23	90.0	14	11.00	9.00	12	3	8.50	1	5977559
E7143/4	3/4	14	26.54	140.0	26	22.00	18.00	21	5	23.00	1	5977563
E7143/8	3/8	18	17.04	110.0	20	16.00	12.00	15	4	14.50	1	5977566

E711



HSS Straight Flute Interrupted Thread Hand Tap, NPT, ANSI Standard

A versatile tool, suitable for machine and also hand tapping. Interrupted threads lessen the damaging effects of chip wedging on both forward and reverse rotation and reduce friction, permit better lubrication and allow more space for the passage of chips. The reduced shank increases the reach of the tap.



	ANSI B94.9	Normal
	1.5×D	HSS
C 2-3		
Bright		

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ▣23	P1.2 ▣23	P1.3 ▣26	P2.1 ▣20	P2.2 ▣16	P2.3 ▣13	P3.1 ▣13	P3.2 ▣13	P4.1 ▣10	K1.1 ▣20	K1.2 ▣13	K1.3 ▣10	K2.1 ▣23	K2.2 ▣20
K3.1 ▣23	K3.2 ▣16	K4.1 ▣20	K4.2 ▣16	K5.1 ▣23	K5.2 ▣16	N1.3 ▣26	N2.1 ▣36	N2.2 ▣33	N2.3 ▣23	N3.1 ▣56	N3.2 ▣33	N3.3 ▣16	N4.2 ▣16
N4.3 ▣10													

Product series replaces the Pipe Taps of the 1568(NPT) series.

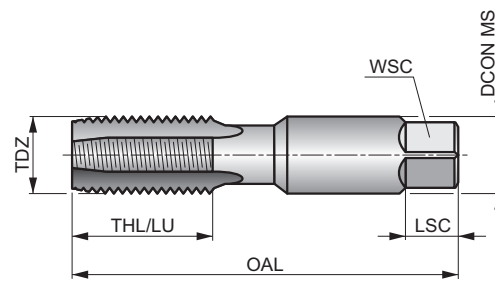
Product	TDZ	TPI	TD	OAL	THL	TCL	DCON MS	WSC	LSC	NOF	PHD	Pack Qty	MID
			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)		
E7113/8	3/8	18	17.15	80.0	27	19.50	17.80	13.50	13	5	14.50	1	5977542
E7111	1"	11.5	33.40	115.0	43	29.40	28.60	21.40	21	5	29.00	1	5977656
E7111.1/2	1.1/2	11.5	48.26	135.0	43	28.90	38.10	28.60	25	7	44.00	1	5977658
E7111/2	1/2	14	21.33	100.0	35	22.70	17.50	13.10	16	5	18.00	1	5977660
E7111/4	1/4	18	13.72	75.0	27	17.60	14.30	10.70	11	5	11.00	1	5977662
E7111/8	1/8	27	10.29	70.0	19	11.90	11.10	8.30	10	5	8.50	1	5977664
E7113/4	3/4	14	26.67	105.0	35	24.40	23.00	17.20	17	5	23.00	1	5977669

E709



HSS Straight Flute Machine Tap, NPSF, ANSI Standard

General purpose straight flute machine tap for through and blind holes. Bright finish to produce more accurate and cleaner threads, preventing the workpiece material from sticking to the cutting edges.



NPSF	ANSI B94.9	Normal
	1.5×D	HSS
C 2-3		
Bright		

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1 ■ 23	P1.2 ■ 23	P1.3 ■ 26	P2.1 ■ 20	P2.2 ■ 16	P2.3 ▧ 13	P3.1 ■ 13	P3.2 ▧ 13	P4.1 ▧ 10	K1.1 ▧ 20	K1.2 ▧ 13	K1.3 ▧ 10	K2.1 ▧ 23	K2.2 ▧ 20
K3.1 ▧ 23	K3.2 ▧ 16	K4.1 ▧ 20	K4.2 ▧ 16	K5.1 ▧ 23	K5.2 ▧ 16	N1.3 ▧ 26	N2.1 ▧ 36	N2.2 ▧ 33	N2.3 ▧ 23	N3.1 ■ 56	N3.2 ■ 33	N3.3 ▧ 16	N4.2 ▧ 16
N4.3 ▧ 10													

Product series replaces the Pipe Taps of the 1592(NPSF) series.

Product	TDZ	TPI	TD	OAL	THL	LU	DCON MS	WSC	LSC	NOF	PHD	Pack Qty	MID
			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)		(mm)		
E7091/2	1/2	14	21.34	100.0	35	—	17.50	13.10	16	4	18.25	1	5977575
E7091/4	1/4	18	13.72	75.0	27	27.00	14.30	10.70	11	4	11.30	1	5977582
E7091/8	1/8	27	10.29	70.0	19	19.00	11.10	8.30	10	4	8.70	1	5977590
E7093/4	3/4	14	26.67	105.0	35	—	23.00	17.20	17	5	23.50	1	5977597
E7093/8	3/8	18	17.15	80.0	27	27.00	17.80	13.50	13	4	14.75	1	5977600

Thread form (THFT)																		
Basic standard group (BSG)					ANSI													
Thread tolerance class (TCTR)		2B	Medium	6H	Normal													
Usable length (ULDR)		1.5×D	1.5×D	1.5×D	1.5×D													
Material code (BMC)		HSS	HSS	HSS	HSS													
Tap chamfer style (TCS)		C 2-3	C 2-3	C 2-3														
Flute Geometry (FDC)																		
Flute helix angle (FHA)		λ 30°	λ 30°	λ 30°	λ 27°													
Hand (Cutting direction)																		
Coating					Bright													
					Bright													
Product Family Code		E651	E654	E650	E653													
PSF cutting diameters range		No.6 - 5/8	No.8 - 5/8	M3 - M16	1/8 - 1"													
		45	46	47	48													
P	P1	■	■	■	■													
	P2	▣	▣	▣	▣													
	P3	▣	▣	▣	▣													
	P4																	
M	M1																	
	M2																	
	M3																	
	M4																	
K	K1																	
	K2																	
	K3																	
	K4																	
	K5																	
N	N1	▣	▣	▣	▣													
	N2																	
	N3	▣	▣	▣	▣													
	N4	▣	▣	▣	▣													
	N5																	
S	S1																	
	S2																	
	S3																	
	S4																	
H	H1																	
	H2																	
	H3																	
	H4																	

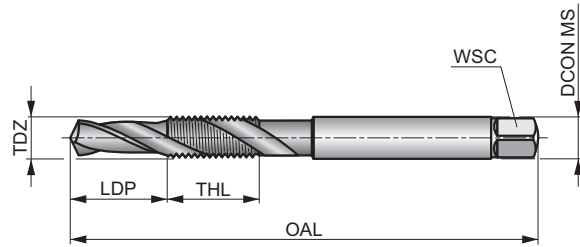
E651



HSS Drill-Tap Combination Tool with 30° Spiral Flute, UNC, DIN Standard

Combination of a core-hole drill and tap to produce a thread in one pass. This significantly reduces the time needed to produce the thread on site with the use of a hand-held power tool. There is no need for a tap wrench or tool change. Steam tempered surface acts to retain the lubricant and provide smoother cutting.

		2B
	1.5×D	HSS
C 2-3		λ 30°



Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1	P1.2	P1.3	P2.1	P2.2	P3.1	P3.2	N1.2	N1.3	N3.1	N3.2	N4.1
■ 59	■ 66	■ 72	■ 66	■ 59	■ 49	■ 39	■ 46	■ 30	■ 66	■ 49	■ 82

Product series replaces the Drill Taps of the 1994(UNC) series.

Product	TDZ	TPI	TD	OAL	THL	LDP	DCON MS	WSC	NOF	Pack Qty	MID
			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)			
E6516-32	6	32	2.85	56.9	12	6.00	3.50	2.90	2	1	5978374
E6518-32	8	32	3.50	64.0	12	8.00	4.50	3.55	2	1	5978380
E65110-24	10	24	3.90	72.0	15	10.00	5.00	4.00	2	1	5978357
E65112-24	12	24	4.50	77.0	15	11.00	5.60	4.50	2	1	5978360
E6511/4	1/4	20	5.10	83.0	17	13.00	6.30	5.00	2	1	5978353
E6515/16	5/16	18	6.60	94.0	21	16.00	8.00	6.30	2	1	5978365
E6513/8	3/8	16	8.00	107.0	23	19.00	10.00	8.00	2	1	5978362
E6517/16	7/16	14	9.40	107.0	25	22.00	8.00	6.30	2	1	5978377
E6511/2	1/2	13	10.80	114.0	29	25.00	9.00	7.10	2	1	5978350
E6515/8	5/8	11	13.50	134.0	31	32.50	12.50	10.00	2	1	5978368

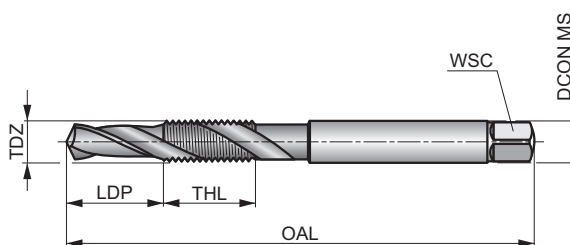
E654



HSS Drill-Tap Combination Tool with 30° Spiral Flute, UNF, DIN Standard

Combination of a core-hole drill and tap to produce a thread in one pass. This significantly reduces the time needed to produce the thread on site with the use of a hand-held power tool. There is no need for a tap wrench or tool change. Steam tempered surface acts to retain the lubricant and provide smoother cutting.

		Medium
	1.5×D	HSS
		λ 30°



Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1	P1.2	P1.3	P2.1	P2.2	P3.1	P3.2	N1.2	N1.3	N3.1	N3.2	N4.1
■ 59	■ 66	■ 72	■ 66	■ 59	■ 49	■ 39	■ 46	■ 30	■ 66	■ 49	■ 82

Product series replaces the Drill Taps of the 1994(UNF) series.

Product	TDZ	TPI	TD	OAL	THL	LDP	DCON MS	WSC	NOF	Pack Qty	MID
			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)			
E6548-36	8	36	3.50	64.0	13	8.00	4.50	3.55	2	1	5978426
E65410-32	10	32	4.10	72.0	16	10.00	5.00	4.00	2	1	5978409
E65412-28	12	28	4.70	77.0	17	11.00	5.60	4.50	2	1	5978411
E6541/4	1/4	28	5.50	83.0	19	13.00	6.30	5.00	2	1	5978407
E6545/16	5/16	24	6.90	94.0	22	16.00	8.00	6.30	2	1	5978417
E6543/8	3/8	24	8.50	104.0	24	19.00	10.00	8.00	2	1	5978414
E6547/16	7/16	20	9.90	107.0	25	22.00	8.00	6.30	2	1	5978423
E6541/2	1/2	20	11.50	114.0	29	25.00	9.00	7.10	2	1	5978405
E6545/8	5/8	18	14.50	134.0	32	32.00	12.50	10.00	2	1	5978420

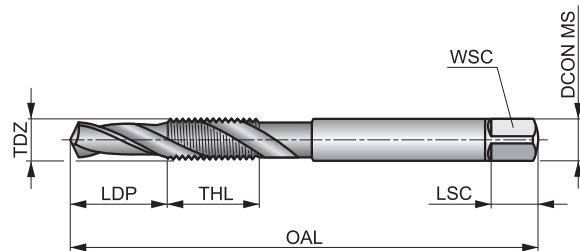
E650



HSS Drill-Tap Combination Tool with 30° Spiral Flute, Metric, ISO Standard

Combination of a core-hole drill and tap to produce a thread in one pass. This significantly reduces the time needed to produce the thread on site with the use of a hand-held power tool. There is no need for a tap wrench or tool change. Steam tempered surface acts to retain the lubricant and provide smoother cutting.

M		6H
	1.5×D	HSS
C 2-3		λ 30°
R		



Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1	P1.2	P1.3	P2.1	P2.2	P3.1	P3.2	N1.2	N1.3	N3.1	N3.2	N4.1
■ 59	■ 66	■ 72	■ 66	■ 59	■ 49	■ 39	■ 46	■ 30	■ 66	■ 49	■ 82

Products from this series are also available in set. Please see L126.

Product	TDZ	TP	TD	OAL	THL	LDP	DCON MS	WSC	LSC	NOF	Pack Qty	MID
		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)			
E650M3	3	0.50	2.50	56.0	10	6.00	3.15	2.50	5	2	1	5978325
E650M4	4	0.70	3.30	65.0	12	8.00	4.00	3.15	6	2	1	5978330
E650M5	5	0.80	4.20	69.0	15	10.00	5.00	4.00	7	2	1	5978339
E650M6	6	1.00	5.00	84.0	18	12.00	6.30	5.00	8	2	1	5978342
E650M8	8	1.25	6.80	96.0	21	16.00	8.00	6.30	9	2	1	5978347
E650M10	10	1.50	8.50	108.0	22	20.00	10.00	8.00	11	2	1	5978304
E650M12	12	1.75	10.20	113.0	29	24.00	9.00	7.10	10	2	1	5978308
E650M14	14	2.00	12.00	123.0	30	28.00	11.20	9.00	12	2	1	5978313
E650M16	16	2.00	14.00	134.0	32	32.00	12.50	10.00	13	2	1	5978320

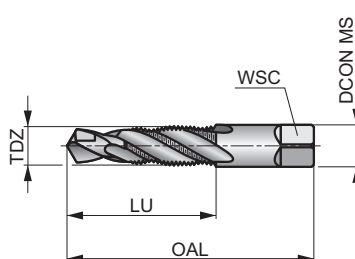
E653



HSS Drill-Tap Combination Tool with 27° Spiral Flute, NPT, ANSI Standard

Combination of a core-hole drill and tap to produce a thread in one pass. This significantly reduces the time needed to produce the thread on site with the use of a hand-held power tool. There is no need for a tap wrench or tool change. Bright finish to prevent the work-material from sticking to the cutting edges.

	ANSI	Normal
	1.5×D	HSS
	λ 27°	



Workpiece material group suitability and starting values for cutting speed (ft/min).

	P1.1	P1.2	P1.3	P2.1	P2.2	P3.1	P3.2	N1.2	N1.3	N3.1	N3.2	N4.1
	■ 59	■ 66	■ 72	■ 66	▣ 59	▣ 49	▣ 39	▣ 46	▣ 30	▣ 66	▣ 49	▣ 82
Product	TDZ	TPI	TD	OAL	LU	DCON MS	WSC	NOF	Pack Qty	MID		
			(inch)	(inch)	(inch)	(inch)	(inch)					
E6531/8	1/8	27	.335	2.7/8	3/4	.437	.328	4	1	5978397		
E6531/4	1/4	18	.433	3.5/16	1.1/16	.562	.421	4	1	5978395		
E6533/8	3/8	18	.571	3.1/2	1.1/16	.700	.531	4	1	5978403		
E6531/2	1/2	14	.709	4.3/8	1.3/8	.687	.515	4	1	5978392		
E6533/4	3/4	14	.905	4.9/16	1.3/8	.906	.679	6	1	5978399		
E6531	1"	11.5	1.142	5.3/8	1.3/4	1.125	.843	6	1	5978386		

Thread form (THFT)							
Basic standard group (BSG)		BS 1127:1950	BS 1127:1950	BS 1127:1950	BS 1127:1950	ANSI	ANSI
Thread tolerance class (TCTR)						2A	2A
Die chamfer to pitch ratio (DCPR)		1.75 XP	1.75 XP	1.75 XP	1.75 XP	1.75 XP	1.75 XP
Material code (BMC)		HSS	HSS	HSS	HSS	HSS	HSS
Hand (Cutting direction)							
Coating							
Product Family Code		F320	F330	F300	F380	F422	F432
PSF cutting diameters range		No.4 - 1.1/4	No.4 - 1.1/2	M2 - M36	1/8 - 1/2	1/4 - 1.1/2	1/4 - 1.1/2
		51	52	53	54	55	56
P	P1	■	■	■	■	■	■
	P2	■	■	■	■	■	■
	P3	■	■	■	■	■	■
	P4	■	■	■	■	■	■
M	M1	■	■	■	■	■	■
	M2	■	■	■	■	■	■
	M3	■	■	■	■	■	■
	M4	■	■	■	■	■	■
K	K1	■	■	■	■	■	■
	K2	■	■	■	■	■	■
	K3	■	■	■	■	■	■
	K4	■	■	■	■	■	■
	K5	■	■	■	■	■	■
N	N1	■	■	■	■	■	■
	N2	■	■	■	■	■	■
	N3	■	■	■	■	■	■
	N4	■	■	■	■	■	■
	N5	■	■	■	■	■	■
S	S1	■	■	■	■	■	■
	S2	■	■	■	■	■	■
	S3	■	■	■	■	■	■
	S4	■	■	■	■	■	■
H	H1	■	■	■	■	■	■
	H2	■	■	■	■	■	■
	H3	■	■	■	■	■	■
	H4	■	■	■	■	■	■

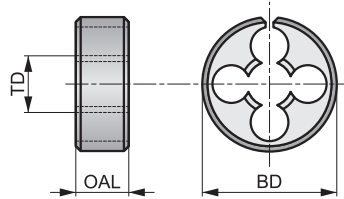
■ Primary use ■ Possible use

F320



HSS Adjustable Split Hand Die, UNC, Right Hand

Split die to produce external thread by hand in multiple passes, adjusting each pass. By tightening the die stock holder, different classes of thread fit can be achieved - tight, regular or loose fit. Slightly tightened in the holder it can be used to clean up or produce a partial thread.



UNC	BS 1127:1950	1.75 XP
HSS	R	Bright

Workpiece material group suitability.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P4.1	M1.1	M1.2	M2.1	M2.2	K1.1
■	■	■	■	■	■	■	■	■	■	■	■	■	■
K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3
■	■	■	■	■	■	■	■	■	■	■	■	■	■
N2.1	N2.2	N2.3	N3.1	N3.2	N3.3	N4.1	N4.2	N4.3					
■	■	■	■	■	■	■	■	■					

Product series replaces the Split Dies of the 2510(UNC) series.

Product series is an alternative for the Split Dies of the 2010(UNC) series.

Product	TDZ	TPI	TD	BD	OAL	Pack Qty	MID
			(mm)	(inch)	(inch)		
F3204-40X13/16	4	40	2.85	13/16	1/4	1	5978041
F3205-40X13/16	5	40	3.18	13/16	1/4	1	5978045
F3206-32X13/16	6	32	3.51	13/16	1/4	1	5978080
F3208-32X13/16	8	32	4.17	13/16	1/4	1	5978869
F3208-32X1	8	32	4.17	1"	3/8	1	5978846
F32010-24X13/16	10	24	4.83	13/16	1/4	1	5978007
F32010-24X1	10	24	4.83	1"	3/8	1	5978004
F32012-24X13/16	12	24	5.49	13/16	1/4	1	5978010
F3201/4X13/16	1/4	20	6.35	13/16	1/4	1	5977996
F3201/4X1	1/4	20	6.35	1"	3/8	1	5977987
F3201/4X1.5/16	1/4	20	6.35	1.5/16	7/16	1	5977993
F3201/4X1.1/2	1/4	20	6.35	1.1/2	1/2	1	5977990
F3205/16X1	5/16	18	7.94	1"	3/8	1	5978050
F3205/16X1.1/2	5/16	18	7.94	1.1/2	1/2	1	5978055
F3203/8X1	3/8	16	9.53	1"	3/8	1	5978027
F3203/8X1.5/16	3/8	16	9.53	1.5/16	7/16	1	5978036
F3203/8X1.1/2	3/8	16	9.53	1.1/2	1/2	1	5978031

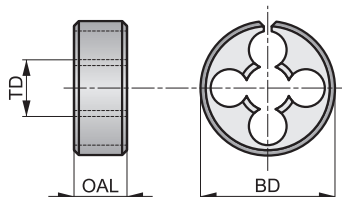
Product	TDZ	TPI	TD	BD	OAL	Pack Qty	MID
			(mm)	(inch)	(inch)		
F3203/8X2	3/8	16	9.53	2"	5/8	1	8789383
F3207/16X1	7/16	14	11.11	1"	3/8	1	8789384
F3207/16X1.5/16	7/16	14	11.11	1.5/16	7/16	1	5978787
F3207/16X1.1/2	7/16	14	11.11	1.1/2	1/2	1	5978746
F3201/2X1.5/16	1/2	13	12.70	1.5/16	7/16	1	5977978
F3201/2X1.1/2	1/2	13	12.70	1.1/2	1/2	1	5977975
F3201/2X2	1/2	13	12.70	2"	5/8	1	5977981
F3209/16X1.1/2	9/16	12	14.29	1.1/2	1/2	1	5978875
F3205/8X1.1/2	5/8	11	15.88	1.1/2	1/2	1	5978065
F3205/8X2	5/8	11	15.88	2"	5/8	1	5978069
F3203/4X1.1/2	3/4	10	19.05	1.1/2	1/2	1	5978013
F3203/4X2	3/4	10	19.05	2"	5/8	1	5978016
F3207/8X2	7/8	9	22.23	2"	5/8	1	5978821
F3201X2	1"	8	25.40	2"	5/8	1	5978001
F3201.1/8X3	1.1/8	7	28.58	3"	7/8	1	5977972
F3201.1/4X3	1.1/4	7	31.75	3"	7/8	1	5977968

F330



HSS Adjustable Split Hand Die, UNF, Right Hand

Split die to produce external thread by hand in multiple passes, adjusting each pass. By tightening the die stock holder, different classes of thread fit can be achieved - tight, regular or loose fit. Slightly tightened in the holder it can be used to clean up or produce a partial thread.



UNF	BS 1127:1950	1.75 XP
HSS	R	Bright

Workpiece material group suitability.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P4.1	M1.1	M1.2	M2.1	M2.2	K1.1
■	■	■	■	■	■	■	■	■	■	■	■	■	■
K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3
■	■	■	■	■	■	■	■	■	■	■	■	■	■
N2.1	N2.2	N2.3	N3.1	N3.2	N3.3	N4.1	N4.2	N4.3					
■	■	■	■	■	■	■	■	■					

Product series replaces the Split Dies of the 2510(UNF) series.

Product series is an alternative for the Split Dies of the 2010(UNF) series.

Product	TDZ	TPI	TD	BD	OAL	Pack Qty	MID
			(mm)	(inch)	(inch)		
F3304-48X13/16	4	48	2.85	13/16	1/4	1	5978804
F3305-44X13/16	5	44	3.18	13/16	1/4	1	5978807
F3306-40X13/16	6	40	3.51	13/16	1/4	1	5978830
F3308-36X13/16	8	36	4.17	13/16	1/4	1	5978840
F33010-32X13/16	10	32	4.83	13/16	1/4	1	5978776
F33010-32X1	10	32	4.83	1"	3/8	1	5978772
F33012-28X13/16	12	28	5.49	13/16	1/4	1	5978779
F3301/4X13/16	1/4	28	6.35	13/16	1/4	1	5978765
F3301/4X1	1/4	28	6.35	1"	3/8	1	5978757
F3301/4X1.1/2	1/4	28	6.35	1.1/2	1/2	1	5978761
F3305/16X1	5/16	24	7.94	1"	3/8	1	5978810
F3305/16X1.5/16	5/16	24	7.94	1.5/16	7/16	1	5978816
F3305/16X1.1/2	5/16	24	7.94	1.1/2	1/2	1	5978813
F3303/8X1	3/8	24	9.53	1"	3/8	1	5978794
F3303/8X1.5/16	3/8	24	9.53	1.5/16	7/16	1	5978801
F3303/8X1.1/2	3/8	24	9.53	1.1/2	1/2	1	5978798

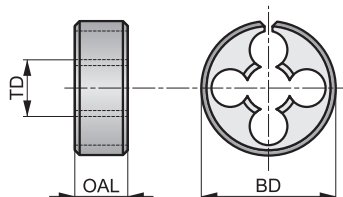
Product	TDZ	TPI	TD	BD	OAL	Pack Qty	MID
			(mm)	(inch)	(inch)		
F3307/16X1	7/16	20	11.11	1"	3/8	1	5978832
F3307/16X1.5/16	7/16	20	11.11	1.5/16	7/16	1	5978836
F3307/16X1.1/2	7/16	20	11.11	1.1/2	1/2	1	5978834
F3301/2X1.5/16	1/2	20	12.70	1.5/16	7/16	1	5978753
F3301/2X1.1/2	1/2	20	12.70	1.1/2	1/2	1	5978750
F3309/16X1.5/16	9/16	18	14.29	1.5/16	7/16	1	5978844
F3309/16X1.1/2	9/16	18	14.29	1.1/2	1/2	1	5978842
F3305/8X1.1/2	5/8	18	15.88	1.1/2	1/2	1	5978825
F3305/8X2	5/8	18	15.88	2"	5/8	1	5978827
F3307/8X2	7/8	14	22.23	2"	5/8	1	5978838
F3303/4X1.1/2	3/4	16	19.05	1.1/2	1/2	1	5978783
F3303/4X2	3/4	16	19.05	2"	5/8	1	5978791
F3301X2	1"	12	25.40	2"	5/8	1	5978768
F3301.1/8X3	1.1/8	12	28.58	3"	7/8	1	5978884
F3301.1/4X3	1.1/4	12	31.75	3"	7/8	1	5978881
F3301.1/2X3	1.1/2	12	38.10	3"	7/8	1	5978878

F300



HSS Adjustable Split Hand Die, Metric, Right Hand

Split die to produce external thread by hand in multiple passes, adjusting each pass. By tightening the die stock holder, different classes of thread fit can be achieved - tight, regular or loose fit. Slightly tightened in the holder, it can be used to clean up or produce a partial thread.



	BS 1127:1950	1.75 XP
HSS		Bright

Workpiece material group suitability.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P4.1	M1.1	M1.2	M2.1	M2.2	K1.1
■	■	■	■	■	■	■	■	■	■	■	■	■	■
K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3
■	■	■	■	■	■	■	■	■	■	■	■	■	■
N2.1	N2.2	N2.3	N3.1	N3.2	N3.3	N4.1	N4.2	N4.3					
■	■	■	■	■	■	■	■	■					

Product series replaces the Split Dies of the 2710M series.

Product	TD	TP	BD	OAL	Pack Qty	MID
	(mm)	(mm)	(inch)	(inch)		
F300M2X13/16	2.00	0.40	13/16	1/4	1	5978745
F300M2.5X13/16	2.50	0.45	13/16	1/4	1	5978743
F300M3X13/16	3.00	0.50	13/16	1/4	1	5978777
F300M3.5X13/16	3.50	0.60	13/16	1/4	1	5978769
F300M4X13/16	4.00	0.70	13/16	1/4	1	5978788
F300M5X13/16	5.00	0.80	13/16	1/4	1	5978797
F300M6X13/16	6.00	1.00	13/16	1/4	1	5978806
F300M6X1	6.00	1.00	1"	3/8	1	5978800
F300M7X13/16	7.00	1.00	13/16	1/4	1	5978815
F300M7X1	7.00	1.00	1"	3/8	1	5978809
F300M8X1	8.00	1.25	1"	3/8	1	5978459
F300M8X1.5/16	8.00	1.25	1.5/16	7/16	1	5978490
F300M9X1	9.00	1.25	1"	3/8	1	5978525
F300M9X1.5/16	9.00	1.25	1.5/16	7/16	1	5978579

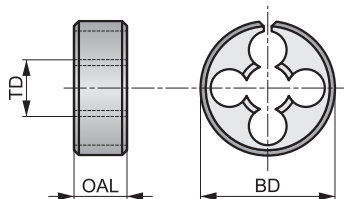
Product	TD	TP	BD	OAL	Pack Qty	MID
	(mm)	(mm)	(inch)	(inch)		
F300M10X1	10.00	1.50	1"	3/8	1	5978718
F300M10X1.5/16	10.00	1.50	1.5/16	7/16	1	5978722
F300M11X1.5/16	11.00	1.50	1.5/16	7/16	1	5978723
F300M12X1	12.00	1.75	1"	3/8	1	8789382
F300M12X1.5/16	12.00	1.75	1.5/16	7/16	1	5978727
F300M14X1.5/16	14.00	2.00	1.5/16	7/16	1	5978732
F300M16X1.1/2	16.00	2.00	1.1/2	1/2	1	5978733
F300M18X1.1/2	18.00	2.50	1.1/2	1/2	1	5978739
F300M20X1.1/2	20.00	2.50	1.1/2	1/2	1	5978748
F300M22X2	22.00	2.50	2"	5/8	1	5978755
F300M24X2	24.00	3.00	2"	5/8	1	5978759
F300M27X3	27.00	3.00	3"	7/8	1	5978763
F300M30X3	30.00	3.50	3"	7/8	1	5978780
F300M36X3	36.00	4.00	3"	7/8	1	5978785

F380



HSS Adjustable Split Hand Die for NPT Thread, BS standard

Split die to produce external thread by hand in multiple passes, adjusting each pass. By tightening the die stock holder, different classes of thread fit can be achieved - tight, regular or loose fit. Slightly tightened in the holder, it can be used to clean up or produce a partial thread. Fractional size body diameter and height.



	BS 1127:1950	1.75 XP
HSS		Bright

Workpiece material group suitability.

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P4.1	M1.1	M1.2	M2.1	M2.2	K1.1
■	■	■	■	■	■	■	■	■	■	■	■	■	■
K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3
■	■	■	■	■	■	■	■	■	■	■	■	■	■
N2.1	N2.2	N2.3	N3.1	N3.2	N3.3	N4.1	N4.2	N4.3					
■	■	■	■	■	■	■	■	■					

Product series is an alternative for the Split Dies of the 2010(NPT) series.

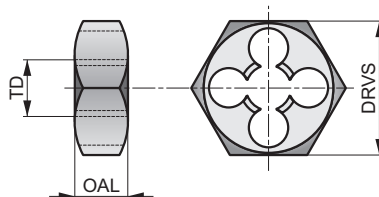
Product	TDZ	TPI	BD (inch)	OAL (inch)	Pack Qty	MID
F3801/8X1	1/8	27	1"	3/8	1	8789385
F3801/4X1.1/2	1/4	18	1.1/2	1/2	1	8789386
F3803/8X1.1/2	3/8	18	1.1/2	1/2	1	8789387
F3801/2X2	1/2	14	2"	5/8	1	8789388

F422



HSS Die Nut for UNC Thread, ANSI standard

Hexagon die nut designed to repair or clean out damaged external threads by re-cutting the original thread form by hand. A wrench or spanner can be used to rotate the die nut around the outside of the bolt, thus it can be used in difficult to access locations. With a width across flats for fractional size wrenches.



	ANSI	1.75 XP
HSS		Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P4.1	M1.1	M1.2	M2.1	M2.2	K1.1
K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3
N2.1	N2.2	N2.3	N3.1	N3.2	N3.3	N4.1	N4.2	N4.3					

Product series is an alternative for the Die Nuts of the 2025(UNC) series.

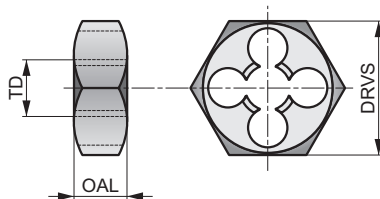
Product	TDZ	TPI	DRVS	OAL	Pack Qty	MID
			(inch)	(inch)		
F4221/4X20	1/4	20	19/32	1/2	1	8789406
F4225/16X18	5/16	18	11/16	5/16	1	8789407
F4223/8X16	3/8	16	25/32	3/8	1	8789408
F4227/16X14	7/16	14	7/8	7/16	1	8789409
F4221/2X13	1/2	13	1.1/16	1/2	1	8789410
F4229/16X12	9/16	12	1.1/16	1/2	1	8789411
F4225/8X11	5/8	11	1.1/4	5/8	1	8789412
F4223/4X10	3/4	10	1.7/16	3/4	1	8789413
F4227/8X9	7/8	9	1.5/8	7/8	1	8789414
F4221X8	1	8	1.13/16	1"	1	8789415
F4221.1/8X7	1.1/8	7	2"	1"	1	8789416
F4221.1/4X7	1.1/4	7	2.3/16	1"	1	8789417
F4221.3/8X6	1.3/8	6	2.3/8	1"	1	8789418
F4221.1/2X6	1.1/2	6	2.9/16	1"	1	8789419

F432



HSS Die Nut for UNF Thread, ANSI standard

Hexagon die nut designed to repair or clean out damaged external threads by re-cutting the original thread form by hand. A wrench or spanner can be used to rotate the die nut around the outside of the bolt, thus it can be used in difficult to access locations. With a width across flats for fractional size wrenches.



UNF	ANSI	1.75 XP
HSS	R	Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P4.1	M1.1	M1.2	M2.1	M2.2	K1.1
■	■	■	■	■	■	■	■	■	■	■	■	■	■
K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3
■	■	■	■	■	■	■	■	■	■	■	■	■	■
N2.1	N2.2	N2.3	N3.1	N3.2	N3.3	N4.1	N4.2	N4.3					
■	■	■	■	■	■	■	■	■					

Product series is an alternative for the Die Nuts of the 2025(UNF) series.

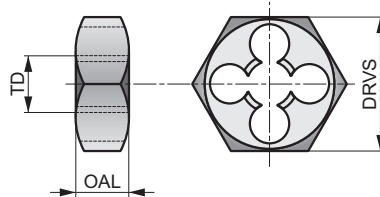
Product	TDZ	TPI	DRVS	OAL	Pack Qty	MID
			(inch)	(inch)		
F4321/4X28	1/4	28	19/32	1/2	1	8789421
F4325/16X24	5/16	24	11/16	5/16	1	8789422
F4323/8X24	3/8	24	25/32	3/8	1	8789423
F4327/16X20	7/16	20	7/8	7/16	1	8789424
F4321/2X20	1/2	20	1.1/16	1/2	1	8789425
F4329/16X18	9/16	18	1.1/16	1/2	1	8789426
F4325/8X18	5/8	18	1.1/4	5/8	1	8789427
F4323/4X16	3/4	16	1.7/16	3/4	1	8789428
F4327/8X14	7/8	14	1.5/8	7/8	1	8789429
F4321X12	1	12	1.13/16	1"	1	8789430
F4321.1/8X12	1.1/8	12	2"	1"	1	8789431
F4321.1/4X12	1.1/4	12	2.3/16	1"	1	8789432
F4321.3/8X12	1.3/8	12	2.3/8	1"	1	8789433
F4321.1/2X12	1.1/2	12	2.9/16	1"	1	8789434

F422(UNS)



HSS Die Nut for UNS Thread, ANSI standard

Hexagon die nut designed to repair or clean out damaged external threads by re-cutting the original thread form by hand. A wrench or spanner can be used to rotate the die nut around the outside of the bolt, thus it can be used in difficult to access locations. With a width across flats for fractional size wrenches.



	ANSI	1.75 XP
HSS		Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P4.1	M1.1	M1.2	M2.1	M2.2	K1.1
■	■	■	■	■	▣	■	▣	▣	■	■	■	▣	■
K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3
■	▣	■	■	▣	■	■	▣	■	■	▣	▣	▣	▣
N2.1	N2.2	N2.3	N3.1	N3.2	N3.3	N4.1	N4.2	N4.3					
▣	▣	▣	■	▣	▣	▣	▣	▣					

Product series is an alternative for the Die Nuts of the 2025(UNS) series.

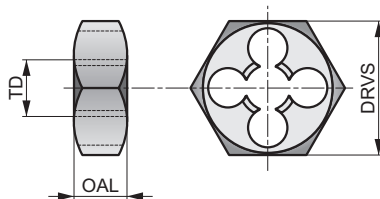
Product	TDZ	TPI	DRVS	OAL	Pack Qty	MID
			(inch)	(inch)		
F4221X14	1	14	1.13/16	1"	1	8789420

F402



HSS Die Nut for Metric Thread, ANSI standard

Hexagon die nut designed to repair or clean out damaged external threads by re-cutting the original thread form by hand. A wrench or spanner can be used to rotate the die nut around the outside of the bolt, thus it can be used in difficult to access locations. With a width across flats for fractional size wrenches.



	ANSI	1.75 XP
HSS		Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P4.1	M1.1	M1.2	M2.1	M2.2	K1.1
■	■	■	■	■	▣	■	▣	▣	■	■	■	▣	■
K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3
■	▣	■	■	▣	■	■	▣	■	■	▣	▣	▣	▣
N2.1	N2.2	N2.3	N3.1	N3.2	N3.3	N4.1	N4.2	N4.3					
▣	▣	▣	■	▣	▣	▣	▣	▣					

Product series is an alternative for the Die Nuts of the 2325(M) series.

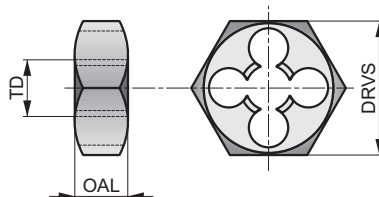
Product	TDZ	TP (mm)	DRVS (inch)	OAL (inch)	Pack Qty	MID
F402M6	6	1.00	19/32	1/4	1	8789389
F402M8	8	1.25	11/16	5/16	1	8789400
F402M10	10	1.50	7/8	7/16	1	8789401
F402M12	12	1.75	1.1/16	1/2	1	8789402
F402M14	14	2.00	1.1/16	1/2	1	8789403
F402M16	16	2.00	1.1/4	5/8	1	8789404
F402M20	20	2.50	1.7/16	3/4	1	8789405

F482



HSS Die Nut for NPT Thread, ANSI standard

Hexagon die nut designed to repair or clean out damaged external threads by re-cutting the original thread form by hand. A wrench or spanner can be used to rotate the die nut around the outside of the bolt, thus it can be used in difficult to access locations. With a width across flats for fractional size wrenches.



	ANSI	1.75 XP
HSS		Bright

Workpiece material group suitability and starting values for cutting speed (ft/min).

P1.1	P1.2	P1.3	P2.1	P2.2	P2.3	P3.1	P3.2	P4.1	M1.1	M1.2	M2.1	M2.2	K1.1
■	■	■	■	■	▣	■	▣	▣	■	■	■	▣	■
K1.2	K1.3	K2.1	K2.2	K2.3	K3.1	K3.2	K3.3	K5.1	K5.2	K5.3	N1.1	N1.2	N1.3
■	▣	■	■	▣	■	■	▣	■	■	▣	▣	▣	▣
N2.1	N2.2	N2.3	N3.1	N3.2	N3.3	N4.1	N4.2	N4.3					
▣	▣	▣	■	▣	▣	▣	▣	▣					

Product series is an alternative for the Die Nuts of the 2025(NPT) series.

Product	TDZ	TPI	DRVS	OAL	Pack Qty	MID
			(inch)	(inch)		
F4821/8X27	1/8	27	1.1/16	3/8	1	8789435
F4821/4X18	1/4	18	1.1/4	5/8	1	8789436
F4823/8X18	3/8	18	1.1/16	5/8	1	8789437
F4821/2X14	1/2	14	1.5/8	3/4	1	8789438
F4823/4X14	3/4	14	2"	13/16	1	8789439
F4821X11.1/2	1	11.5	2.3/8	1"	1	8789440

L112

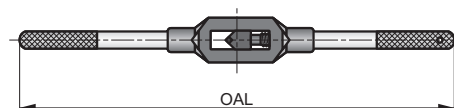
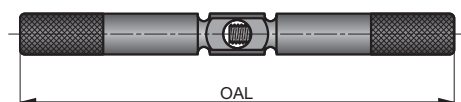


Tap Wrench

Adjustable, so one tap wrench can be used to hold several different tap sizes. The square end of the tap is inserted into the wrench which is then tightened to hold the tap securely. The two metal bars on either side of the wrench are used to rotate the tap in the hole of the workpiece to create the thread.

BT1-BT2

NO0-NO7



Product series replaces the tap Wrenches of the 3850 series.

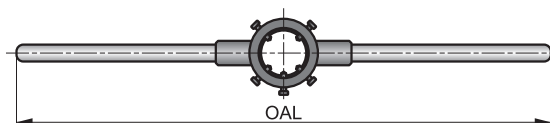
Product	Nr.	OAL	WSCN	WSCX	WSCN	WSCX	Tap Range (M)	Tap Range (Inch)	Pack Qty	MID
		(mm)	(mm)	(mm)	(inch)	(inch)				
L112BT1	BT1	105.0	1.00	6.50	.0394	.2559	M1 - M8	No. 0 - 5/16	1	7320377
L112BT2	BT2	162.0	1.00	10.00	.0394	.3937	M1 - M14	No. 0 - 5/8	1	7320378
L112N00	No. 0	130.0	2.00	5.00	.0787	.1969	M1 - M5	No. 0 - 1/4	1	7320379
L112N01.1/2	No. 1.1/2	205.0	2.10	8.00	.0827	.3150	M2.2 - M12	No. 0 - 1/2	1	7320390
L112N03	No. 3	380.0	4.90	12.00	.1929	.4724	M5 - M20	5/16 - 3/4	1	7320391
L112N04	No. 4	500.0	5.50	16.00	.2165	.6299	M7 - M30	5/16 - 1"	1	7320392
L112N06	No. 6	1000.0	11.00	24.00	.4331	.9449	M18 - M42	3/4 - 1.1/2	1	7320393
L112N07	No. 7	1250.0	16.00	32.00	.6299	1.2598	M27 - M48	1.1/8 - 2"	1	7320394

L110



Die Stock

The die stock is an accessory to make it easy to use dies by hand. The die is held securely in the metal ring, whilst the arms at either end are used to rotate the die around the outside of the metal cylinder to be threaded. The L110 series comes in an extensive range to hold all sizes of round dies.



Products from this series are also available in set with taps and dies. Please see L120.

Product	Nr.	OAL (mm)	Die BD x Die OAL	Pack Qty	MID
L1101	1"	160.0	16 x 5	1	5978506
L1102A	2a	200.0	20 x 5	1	5978542
L1102B	2b	200.0	20 x 7	1	5978547
L1103	3	224.0	25 x 9	1	5978556
L1104	4"	280.0	30 x 11	1	5978566
L1105	5	315.0	38 x 14	1	5978576
L1105F	5f	315.0	38 x 10	1	5978581
L1106	6	450.0	45 x 18	1	5978589
L1106F	6f	450.0	45 x 14	1	5978749
L1107	7	560.0	55 x 22	1	5978792
L1107F	7f	560.0	55 x 16	1	5978826
L1108	8	630.0	65 x 25	1	5978850
L1108F	8f	630.0	65 x 18	1	5978876
L1109	9	800.0	75 x 30	1	5978882
L1109F	9f	800.0	75 x 20	1	5978885
L11010	10	900.0	90 x 36	1	5978522
L11010F	10f	900.0	90 x 22	1	5978526
L11013/16	—	200.0	13/16 x 1/4	1	5978531
L1101INCH	—	224.0	1 x 3/8	1	5978518
L1101.5/16	—	270.0	1.5/16 x 7/16	1	5978514
L1101.1/2	—	315.0	1.1/2 x 1/2	1	5978511
L1102INCH	—	560.0	2 x 5/8	1	5978552
L1102.1/4	—	560.0	2.1/4 x 11/16	1	5978539
L1103INCH	—	900.0	3 x 7/8	1	5978562
L1104INCH	—	1000.0	4 x 1	1	5978571

Description	Previous Union Butterfield PSF	Chamfer lead or set	Replacement Dormer Pramet PSF
Pipe taps	1541(NPT)		E710(NPT)
Standard machine taps	1585(UNC)	Plug lead	E656(UNC)
Hand taps	1500(UNC)	Semi-bottoming lead	E061NO3(UNC)
Hand taps	1500(UNC)	Taper lead	E061NO1(UNC)
Hand taps	1500(UNC)	Plug lead	E061NO2(UNC)
Hand taps	1700(M)	Plug lead	E061NO2(M)
Standard machine taps	1785M		E656(M)
Hand taps	1519(UNC)	Plug lead	E068NO2(UNC)
High performance machine taps	1676AP(UNC)		E698(UNC)
Hand taps	1700(M)	Semi-bottoming lead	E061NO3(M)
Hand taps	1500S(UNC)	Set of 3	E061NO6(UNC)
Standard machine taps	1534(UNC)	Plug lead	E656(UNC)
Hand taps	1700(M)	Taper lead	E061NO1(M)
High performance roll taps	1681AP(UNC)		E894(UNC)
High performance machine taps	1672AP(UNC)		E697(UNC)
Hand taps	1500(UNF)	Plug lead	E071NO2(UNF)
Standard machine taps	1534NR(UNC)	Plug lead	N/A
Hand taps	1500(UNF)	Semi-bottoming lead	E071NO3(UNF)
Hand taps	1500(UNF)	Taper lead	E071NO1(UNF)
Die nuts	2025(UNC)		F422(UNC)
High performance roll taps	1687AP(M)		E894(M)
Hand taps	1700S	Set of 3	E061NO6(M)
Hand taps	1528(UNC)	Taper lead	E061NO1(UNC)
Drill taps	1994(UNC)		E651(UNC)
Standard machine taps	TN1585(UNC)		E676(UNC)
High performance machine taps	1677AP(M)		E698(M)
Standard machine taps	1585(UNF)	Plug lead	E656(UNF)
Pipe taps	1568(NPT)		E711(NPT)
Pipe taps	6541		E710(NPT)
Standard machine taps	1534(UNF)	Plug lead	E656(UNF)
Standard machine taps	1585NR(UNC)	Plug lead	N/A
Hand taps	1528(UNC)	Plug lead	E061NO2(UNC)
Standard machine taps	1785NR		N/A
Die stocks and tap wrenches	3850		N/A
Pipe taps	1543(NPTF)		E712(NPTF)
Die nuts	2025(UNF)		F432(UNF)
Hand taps	1505(UNS)	Semi-bottoming lead	E061NO3(UNS)
Hand taps	1500S(UNF)	Set of 3	E071NO6(UNF)
Die nuts	2025(NPT)		F482(NPT)
Standard machine taps	1534NE(UNC)		N/A
Standard machine taps	TN1785		E676(M)
High performance roll taps	1641(UNC)		E894(UNC)
Pipe taps	1544(NPT)		E721(NPT)
High performance machine taps	1673AP(M)		E697(M)
Standard machine taps	1534NR(UNF)	Plug lead	N/A
High performance roll taps	1671(M)		E894(M)
Hand taps	1528(UNC)	Semi-bottoming lead	E061NO3(UNC)
Hand taps	1505(UNS)	Plug lead	E061NO2(UNS)
Pipe taps	1542(NPS)		E708(NPSM)
Pipe taps	1567(NPTF)		N/A
Adjustable split dies	2710M		F300(M)
Standard machine taps	TN1534(UNC)		E676(UNC)
High performance cool feed machine taps	1679(M)		N/A

Description	Previous Union Butterfield PSF	Chamfer lead or set	Replacement Dormer Pramet PSF
Standard machine taps	1788(M)	Semi-bottoming lead	E007(M)
High performance roll taps	1681AP(UNF)		E894(UNF)
High performance machine taps	1676AP(UNF)		E698(UNF)
Standard machine taps	1985(UNC)		N/A
Standard machine taps	1585A(UNC)		E666(UNC)
Hand taps	1528(UNF)	Taper lead	E071NO1(UNF)
Standard machine taps	1588(UNC)	Semi-bottoming lead	E027(UNC)
Die stocks and tap wrenches	1215		N/A
High performance cool feed machine taps	1678(UNC)		N/A
Hand taps	1505(UNS)	Taper lead	E061NO1(UNS)
High performance machine taps	1672AP(UNF)		E697(UNF)
Standard machine taps	TN1543		N/A
Pipe taps	1548(NPT)		N/A
Hand taps	1528S(UNC)	Set of 3	E061NO6(UNC)
Standard roll taps	3300(UNC)	Semi-bottoming lead	N/A
High performance cool feed roll taps	1691AP(UNC)		N/A
Hand taps	1528(UNF)	Plug lead	E071NO2(UNF)
Hand taps	1528(UNF)	Semi-bottoming lead	E071NO3(UNF)
Hand taps	1500L(UNF)		E062NO2(UNF)
Standard machine taps	1588(UNC)	Plug lead	N/A
Hand taps	1500(UNS)	Plug lead	E071NO2(UNS)
Drill taps	1994(UNF)		E654(UNF)
Hand taps	1500A(UNC)		E063NO2(UNC)
High performance machine taps	1677AP(MF)		E698(MF)
Standard machine taps	1587(UNC)	Semi-bottoming lead	E027(UNC)
Pipe taps	1592(NPSF)		E709(NPSF)
Die nuts	2325M		F402(M)
Pipe taps	TN1541		E721(NPT)
Pipe taps	1545A(NPT)		N/A
Hand taps	1599(M)	Semi-bottoming lead	N/A
Hand taps	1508(UNC)	Plug lead	E061NO2(UNC)
Standard machine taps	1585OV(UNC)		E656(UNC)
Standard machine taps	1585NR(UNF)	Plug lead	N/A
Hand taps	1500L(UNC)		E062NO2(UNC)
Drill taps	229SET		N/A
Standard roll taps	3300(UNC)	Plug lead	N/A
Hand taps	1500(UNS)	Taper lead	E071NO1(UNS)
Standard machine taps	TN1534(UNF)		E676(UNF)
Hand taps	1500(UNS)	Semi-bottoming lead	E071NO3(UNS)
Hand taps	1528S(UNF)	Set of 3	E071NO6(UNF)
Standard machine taps	1591(UNC)	Semi-bottoming lead	E028(UNC)
Hand taps	1600(UNC)	Semi-bottoming lead	N/A
Standard machine taps	1585(UNC)	Semi-bottoming lead	N/A
Pipe taps	1549(NPTF)		N/A
Standard roll taps	1580(UNC)	Semi-bottoming lead	N/A
Standard roll taps	3300(M)	Plug lead	N/A
Standard machine taps	1534NR(UNC)	Semi-bottoming lead	N/A

Description	Previous Union Butterfield PSF	Chamfer lead or set	Replacement Dormer Pramet PSF
Standard machine taps	1587(UNC)	Plug lead	N/A
High performance machine taps	1673AP(MF)		E697(MF)
Standard machine taps	1587(UNF)	Semi-bottoming lead	E037(UNF)
Hand taps	1500OV(UNC)		E061NO2(UNC)
Standard roll taps	3300(UNF)	Plug lead	N/A
Standard roll taps	3306E(UNC)		N/A
Standard machine taps	1588(UNF)	Semi-bottoming lead	E037(UNF)
Standard machine taps	1593(UNC)		E656(UNC)
Hand taps	1508(UNC)	Semi-bottoming lead	E061NO3(UNC)
High performance cool feed machine taps	1674(UNC)		N/A
Standard machine taps	1985(UNF)		N/A
High performance roll taps	1641(UNF)		E894(UNF)
High performance cool feed roll taps	1697AP(M)		N/A
Standard roll taps	3300(M)	Semi-bottoming lead	N/A
Standard machine taps	1588(UNF)	Plug lead	N/A
Standard machine taps	1788(M)	Plug lead	N/A
Pipe taps	1545(NPT)		E714(NPT)
Hand taps	1599(UNC)	Semi-bottoming lead	N/A
High performance roll taps	1687AP(MF)		N/A
Standard machine taps	1586(UNC)	Plug lead	N/A
Adjustable split dies	2010(NPT)		F380(NPT)
Die nuts	2025(UNS)		F422(UNS)
Standard machine taps	1586(UNC)	Semi-bottoming lead	E657(UNC)
Standard machine taps	1534(UNC)	Semi-bottoming lead	N/A
High performance cool feed roll taps	1697AP(MF)		N/A
Standard machine taps	TN1585(UNF)		E676(UNF)
Hand taps	TN1500(UNC)	Plug lead	N/A
Standard machine taps	1585A(UNF)		E666(UNF)
Standard machine taps	1634(UNC)		E025(UNC)
Hand taps	1595(UNC)	Plug lead	N/A
Hand taps	1599(UNC)	Plug lead	N/A
Standard roll taps	3300(UNF)	Semi-bottoming lead	N/A
Hand taps	1600(UNF)	Semi-bottoming lead	N/A
Standard machine taps	1578(UNC)		N/A
Standard machine taps	1534NE(UNF)		N/A
Hand taps	1508(UNF)	Plug lead	E071NO2(UNF)
Hand taps	TN1500(UNC)	Semi-bottoming lead	N/A
Hand taps	1572(UNC)	Semi-bottoming lead	E067NO3(UNC)
Hand taps	1572(UNC)	Plug lead	N/A
High performance cool feed roll taps	1691AP(UNF)		N/A
Standard roll taps	1580(UNC)	Plug lead	N/A
Standard machine taps	1534NR(UNF)	Semi-bottoming lead	N/A
Hand taps	1599(UNF)	Semi-bottoming lead	N/A
Hand taps	1500A(UNF)		E071NO3(UNF)
Hand taps	1599(M)	Plug lead	N/A

Description	Previous Union Butterfield PSF	Chamfer lead or set	Replacement Dormer Pramet PSF
Standard machine taps	1534(UNF)	Semi-bottoming lead	N/A
Standard machine taps	1587(UNF)	Plug lead	N/A
Standard machine taps	1591(UNC)	Plug lead	N/A
Hand taps	1572(UNF)	Plug lead	N/A
Standard roll taps	1580(M)	Plug lead	N/A
Standard roll taps	1580(M)	Semi-bottoming lead	N/A
Hand taps	1595(UNC)	Semi-bottoming lead	N/A
Standard machine taps	1586(UNF)	Semi-bottoming lead	E657(UNF)
High performance cool feed machine taps	1675(M)		N/A
Standard machine taps	1582(UNC)	Plug lead	N/A
Hand taps	1600(UNF)	Plug lead	N/A
Hand taps	1600(UNC)	Plug lead	N/A
Standard machine taps	1634(UNF)		E035(UNF)
Hand taps	TN1500(UNF)	Plug lead	N/A
Hand taps	TN1500(UNF)	Semi-bottoming lead	N/A
Standard machine taps	1582(UNC)	Semi-bottoming lead	E657(UNC)
Standard machine taps	1585NR(UNC)	Semi-bottoming lead	N/A
Standard machine taps	1585(UNF)	Semi-bottoming lead	N/A
Standard machine taps	1590(UNF)	Semi-bottoming lead	E038(UNF)
Standard roll taps	1580(UNF)	Plug lead	N/A
Hand taps	1599(UNF)	Plug lead	N/A
Standard machine taps	1582(UNF)	Plug lead	N/A
Standard machine taps	1582(UNF)	Semi-bottoming lead	E657(UNF)
Standard roll taps	1580(UNF)	Semi-bottoming lead	N/A
Standard machine taps	1593(UNF)		E656(UNF)
Hand taps	1572(UNF)	Semi-bottoming lead	E067NO3(UNF)
Standard machine taps	1578(UNF)		N/A
High performance cool feed machine taps	1674(UNF)		N/A
Standard machine taps	1590(UNC)	Semi-bottoming lead	E028(UNC)
Hand taps	1595(UNF)	Plug lead	N/A
Standard machine taps	1591(UNF)	Semi-bottoming lead	E038(UNF)
High performance cool feed machine taps	1678(UNF)		N/A
Standard machine taps	1590(UNC)	Plug lead	N/A
Standard machine taps	1586(UNF)	Plug lead	N/A
Standard machine taps	1591(UNF)	Plug lead	N/A
Hand taps	1595(UNF)	Semi-bottoming lead	N/A
Hand taps	1508(UNF)	Semi-bottoming lead	E071NO3(UNF)
Standard machine taps	1585NR(UNF)	Semi-bottoming lead	N/A
Standard machine taps	1590(UNF)	Plug lead	N/A



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