Additional die sizes and materials are available on Grainger.com.



Black Oxide Metric Coarse, Semi-Bottoming, **Modified Bottoming** 427X71

Thread Size	Thread Length	Overall Length		Thread Limit	Brand	Item No.
Black Oxide		Lengin	Drill Size	/ Glass of Fit	Drailu	NU.
		Bottom, Semi	-Rottomina			
M3x0.5	9.00 mm	56.00 mm	2.50 mm	6HX / 6HX	Walter Prototyp	427X66
M3.5x0.6	11.00 mm	56.00 mm	2.90 mm	6HX / 6HX	Walter Prototyp	427X67
M4x0.7	12.00 mm	63.00 mm	3.30 mm	6HX / 6HX	Walter Prototyp	427X68
M5x0.8	13.00 mm	70.00 mm	4.20 mm	6HX / 6HX	Walter Prototyp	427X69
M6x1	15.00 mm	80.00 mm	5.00 mm	6HX / 6HX	Walter Prototyp	427X70
M8x1.25	18.00 mm	90.00 mm	Н	6HX / 6HX	Walter Prototyp	427X71
M10x1.5	20.00 mm	100.00 mm	8.50 mm	6HX / 6HX	Walter Prototyp	427X65
Bright (Unc					•	
	se, Bottomin	g				
M4x0.7	3/4 in	2 1/8 in	3.30 mm		OSG	6WGH4
M8x1.25	1 1/8 in	2 23/32 in	Н		ÖSĞ	6WGJ2
M10x1.5	1 1/4 in	2 15/16 in	8.50 mm		OSG	6WGJ5
M12x1.75	1 ²¹ /32 in	3 ¾ in	7∕16 in		OSG	6WGJ7
	to <u>ming</u> , Tape	10.00	0.75	D.F.	MC C OTD	400044
M3x0.5	7.95 mm 9.53 mm	49.28 mm 54.10 mm	2.75 mm	D5 D6	Widia GTD Widia GTD	13X314 13X313
M4x0.7 M6x1	15.88 mm	63.50 mm	3.65 mm			
M8x1.25	17.48 mm	69.09 mm	5.50 mm	D8 D9	Widia GTD Widia GTD	13X311 13X310
UNC, Bottor		09.09 111111		Da	Widia GTD	197910
#2-56	7/16 in	1 3/4 in	1.73 mm	2B	OSG	6WGC3
#2-56	7/16 in	1 ¾ in	1.95 mm	H2 / 2B	Cleveland	435V96
#4-40	9/16 in	1 % in	2.20 mm	2B	OSG	6WGC7
#6-32	3/8 in	2 in	3.10 mm	H3	Widia GTD	2XUA8
#6-32	3% in	2 in	3.10 mm	H5 / 2B-3B	Greenfield Threading	15K001
#8-32	3/8 in	2 1/8 in	3.75 mm	H3 / 2B	Cleveland	435W07
#10-24	½ in	2 % in	4.27 mm	H6 / 2B-3B	Cleveland	435W13
1/4"-20	5⁄8 in	2 ½ in	5.70 mm	H4	Widia GTD	2XUC6
1/4"-20	5⁄8 in	2 ½ in	5.70 mm	H4 / 2B	Cleveland	435W19
1/4"-20	5⁄8 in	2 ½ in	5.70 mm	H6 / 2B	Cleveland	435W21
1/4"-20	1 in	2 ½ in	5.70_mm	2B	OSG	6WGE1
5/16"-18	1 1/8 in	2 ²³ / ₃₂ in	F.	2B	OSG	6WGE7
3/8"-16	3/4 in	2 15/16 in	11/32 in	H5	Widia GTD	2XUD1
3/8"-16	1 1/4 in	2 15/16 in	5/16 in	2B	OSG	6WGF3
7/16"-14	1 7/16 in	3 5/32 in	U :	2B 2B	OSG	6WGF9
1/2"-13	1 21/32 in	3 % in	27/64 in 12.05 mm	2B	OSG	6WGG5
½"-20 5/8"-11	15/16 in 1 1/16 in	3 % in 3 13/16 in	37/64 in	H5 H7	Widia GTD Widia GTD	2XUD4 2XUD5
78-11	1 716 III	3 ·916 III	5764 III	П/	vviuid GTD	21000









General Purpose Chip-Free Thread-Forming Taps

Right-hand thread direction

General purpose chip-free taps are made from high-speed steel and can create threads in a wide range of materials.

Thread Size UNC. Plug	Thread Length	Overall Length	75% Thread Drill Size	Thread Limit / Class of Fit	Brand	Item No.
#4-40	5/16 in	1 % in		H3 / 2B	Cleveland	435V97
#10-24	½ in	2 3/8 in	4.27 mm	H4 / 2B	Greenfield Threading	15J976
UNC, Plug, 1	Taner	2 /0 111	1.27 111111	1147 20	droomioid mirodding	100010
#4-40	5/16 in	1 % in	2.52 mm	H3	Widia GTD	2XTX7
#6-32	3/8 in	2 in	3.10 mm	H3	Widia GTD	2XTY1
5/8"-11	1 ½16 in	3 13/16 in	37/64 in	H7	Widia GTD	2XUA1
UNC, UNJC,	Bottoming, T	aper				
#6-32	3⁄8 in	2 in	3.10 mm	H3	Widia GTD	13X307
#12-24	½ in	2 ¾ in	4.95 mm	H4	Widia GTD	13X406
1/4"-20	5⁄8 in	2 ½ in	5.70 mm	H4	Widia GTD	13X282
3/8"-16	3/4 in	2 15/16 in	11/32 in	H7	Widia GTD	13X265
1/2"-13	15/16 in	3 % in	11.70 mm	H5	Widia GTD	13X258
1/2"-13	15/16 in	3 ¾ in	11.70 mm	H7	Widia GTD	13X259
UNF, Plug, T	aper				WWW OFF	
#10-32	½ in	2 3/8 in	4.40 mm	H4	Widia GTD	2XTY5
3/8⁼-24	3/4 in	2 ¹⁵ ⁄16 in	9.00 mm	H8	Widia GTD	2XTZ3
TICN						
Metric, Both	to <u>ming</u> , Tapeı	10.00	0.75	DE	W. F. OTD	405004
M3x0.5	7.95 mm	49.28 mm	2.75 mm	D5	Widia GTD	12E991
M4x0.7	9.53 mm	54.10 mm	3.65 mm	D6 D7	Widia GTD	12F134 12F132
M5x0.8	12.70 mm	60.45 mm	4.60 mm		Widia GTD	
M6x1 M8x1.25	15.88 mm 17.48 mm	63.50 mm 69.09 mm	5.50 mm	D8 D9	Widia GTD Widia GTD	12E988 12F128
UNC, Botton	17.40 111111	09.09 111111	L	ра	Widia GTD	IZFIZO
#3-48	1/2 in	1 13/16 in	2.00 mm	2B	OSG	6WGC6
#6-32	3/8 in	2 in	3.10 mm	H3	Widia GTD	12F004
#6-32	11/16 in	2 in	3.10 mm	2B	OSG	6WGD1
#8-32	3/4 in	2 ½ in	3.40 mm	2B	OSG	6WGD4
#10-24	74 III 78 in	2 3/8 in	4.27 mm	2B	OSG	6WGD7
1/4"-20	5% in	2 ½ in	5.70 mm	H4	Widia GTD	12E997
UNC, Botton	ning Taner	2 /2 111	3.70 111111	117	Widia GTD	ILLUGI
#6-32	3/8 in	2 in	3.10 mm	H5	Widia GTD	12F184
#10-24	½ in	2 3/8 in	4.27 mm	HĂ	Widia GTD	12F170
3/8"-16	3/4 in	2 15/16 in	11/32 in	H7	Widia GTD	12F146
1/2"-13	15/16 in	3 13/16 in	11.70 mm	H5	Widia GTD	12F139
UNF. Bottom		7.4.111			TTIGIQ GTD	
#0-80	5/16 in	1 % in	1.20 mm	2B	OSG	6WGC2
#10-32	½ in	2 % in	4.40 mm	H4	Widia GTD	12E998
7/16"-20 #10-32	1 7/16 in	3 5/32 in	9.95 mm	2B 2B	OSG	6WGG4
#10-32	7∕8 in	2 3/8 in	4.40 mm	2B	ÖSĞ	6WGE0





High-Performance Chip-Free Thread-Forming Taps

- Right-hand flute direction

High-performance chip-free taps are harder and more wear-resistant than general purpose chip-free taps. They provide better precision and accuracy than general purpose taps when used in designated materials.

		•					
Thread Length	Overall Length	Thread Limit / Class of Fit	Tap Material	Brand	Item No.		
aterial Tapp	ing, Metric C	oarse, TiCN, DI	N/ANSI				
rse, Bottomi	ing	D = / 011					
5.00 mm				OSG	54MC89		
				086	54MD28		
12.00 mm	80.00 mm			OSG	54MD32		
			Cobait	USG	54MD62		
rse, Modifie	a Rottom, Se	mi-Rottoming	0-1-4	000	33VU54		
20.00 mm	110.00 mm			086	33VU39		
	180.00 mm	פוע	Copait	056	54MD91		
	40.00 mm	DE / GU	Cohalt	000	54MC94		
	110 00 mm	D3 / 6H		086	54MD55		
toriol Tonni	ing IINC Dri	nbt (lineacted)	CODAIL	USU	34111033		
ied Rottom	Semi-Rotton	yiit (viicvatcu) iinn					
3% in	1 3/4 in	H5	Cohalt	nsc	2TTU1		
	2 in	H3 / 3B		OSG	2TTZ5		
	2 23/64 in			OSG	33WH02		
	2 ½ in	H2	Cohalt	ÖSĞ	33WH58		
3/4 in	2 15/16 in			OSG	33WL28		
7/8 in	3 3/8 in		Cobalt	ÖSĞ	33WN20		
7/8 in	3 % in		Cobalt	OSG	33WX20		
1 in	3 37/64 in	H6	Cobalt	ÖSĞ	33WP17		
1 1/16 in	3 13/16 in	H6	Cobalt	OSG	33WR14		
1 ½16 in	3 13/16 in	H5	Cobalt	ÖSĞ	33WR10		
1 3/16 in	4 1/4 in	H6	Cobalt	OSG	33WT02		
1/4 in		H3 / 3B	Cobalt	OSG	2TTY8		
				OSG	33WL44		
1 in	3 37/64 in	H7 / 3B	Cobalt	OSG	33WP45		
	4 1/4 in	H10 / 2B			2TTN3		
1 ¾16 in	4 ¼ in		Cobalt	OSG	33WY68		
Multiple Material Tapping, UNC, TiCN, DIN/ANSI							
ning							
	4 ²¹ /64 in	H8 / 2B		OSG	54MC40		
	4 ²¹ / ₆₄ in	H7 / 3B		OSG	54MC58		
	4 ²¹ / ₆₄ in	H10 / 2B	Cobalt	USG	54MC51		
	Length state in Lapy is se. Bottom 5,00 mm 1,000 mm 12,00 mm 12,00 mm 20,00 mm 20,00 mm 17,00	Length Length aterial Tapping, Metric C se. Bottoming. 5.00 mm 40.00 mm 10.00 mm 10.00 mm 80.00 mm 12.00 mm 80.00 mm 12.00 mm 110.00 mm 80.00 mm 10.00 mm 110.00 mm 12.00 mm 110.00 mm 180.00 mm 17.00 mm 110.00 mm 180.00 mm 17.00 mm 12.00 mm 180.00 mm 180.0	Length Length / Class of Fit aterial Tapping, Metric Coarse, TiCN, DI se. Bottoming. 5.00 mm 40.00 mm D5 / 6H 10.00 mm 80.00 mm D8 12.00 mm 80.00 mm D12 / 6H 12.00 mm 10.00 mm D12 / 6H 12.00 mm 10.00 mm D12 / 6H 12.00 mm 10.00 mm D15 / 6H 17.00 mm 180.00 mm D15 / 6H 17.00 mm 180.00 mm D17 / 6H 17.00 mm 180.00 mm D18 / 6H 17.00 mm 180.00 mm D18 / 6H 17.00 mm 190.00 mm D18 / 6H 17.00 mm D19 / 6H	Length Length /Class of Fit Tap Material tapping, Metric Coarse, TiCN, DIN/ANSI see. Bottoming	Length Length Class of Fit Tap Material Brand		

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Multiple Material
Tapping,
UNF, TICN,
DIN/ANSI
UNF, Plug
54MC84

Inread	Inread	Uveraii	Inread Limit			item
Size	Length	Length	/ Class of Fit	Tap Material	Brand	No.
		Semi-Botton	ing	0.1.11	000	0011707
5/16"-18	½ in	3 17/32 in	H5 / 3B	Cobalt	OSG	33VT67
1 1/4"-7	13⁄16 in	7 5/64 in	H13 / 2B	Cobalt	OSG	54MC71
UNC, Plug		0.477				
5/16"-18	½ in	3 17/32 in	H7 / 2B	Cobalt	OSG	54MC28
1/2"-13	3/4 in	4 21/64 in	H8 / 2B	Cobalt	OSG	54MC41
9/16"-12	13/16 in	4 21/64 in	H7 / 3B	Cobalt	OSG	54MC59
5%"-11	7/8 iņ	4 ²¹ / ₆₄ in	H10 / 2B	Cobalt	OSG	54MC50
1"-8	1 1/4 in	6 19/64 in	H11 / 2B	Cobalt	OSG	54MC80
Multiple Ma	ateriai lappi	ing, UNC, TiN				
UNC, Botto		d 55/ :	117	0-1-14	000	2011/054
#4-40	½ in	1 55/64 in	H7	Cobalt	OSG OSG	33WG51
#10-24 1/4"-20	½ in	2 ²³ / ₆₄ in	H6 / 2B	Cobalt	056	33WG39
	5% in	2 ½ in	H6 / 2B	Cobalt	OSG	2TTV5
#4-40		Semi-Botton		0-1-1	000	OTTDO
#4-40	1/4 in 3/8 in	1 55/64 in 2 in	H3 / 3B H6	Cobalt	OSG OSG	2TTP2 4APW4
#6-32	3/8 in	2 in	по Н8	Cobalt		33WA65
#8-32	3/8 in	2 1/8 in	о Н9	Cobalt	OSG OSG	33WC90
#0-32 #10-24	1/2 in	2 ²³ / ₆₄ in	п9 Н7	Cobalt Cobalt		33WE06
#10-24 1/4"-20	5/8 in	2 ½ in	H7	Cobalt	OSG OSG	33WH64
1/4"-20	5/8 in	2 ½ in	H6 / 2B	Cobalt	OSG	2TTV8
5/16"-18	5/8 in	2 23/32 in	H3	Cobalt	OSG	211V0
5/16"-18	98 III 5/8 in	2 ²³ / ₃₂ in	H5 / 3B	Cobalt	OSG	2TTU6
3/8"-16	98 III 3/4 in	2 15/16 in	H6	Cobalt	OSG	33WL34
5/8"-11	1 ½16 in	3 13/16 in	H10 / 2B	Cobalt	OSG	33WX94
5/8"-11	1 ½16 in	3 13/16 in	H6	Cobalt	OSG	33WR16
3/4"-10	1 3/16 in	4 1/4 in	H8	Cobalt	OSG	33WT12
UNC. Plug	1 7 10 111	4 74 111	110	OUDAIL	000	33 W I IZ
#6-32	3/8 in	2 in	H10	Cobalt	OSG	33WG75
		ing, UNF, TiC		CODAIL	030	33WU13
UNF. Bottor	ateriai rappi nina	ing, our, rio	n, Din/Andi			
³ / ₄ "-16	1 in	4 21/64 in	H10 / 2B	Cobalt	OSG	54MC83
IINE Modifi		Semi-Bottom	ina	Oobait	000	04111000
#10-32	½ in	2 ¾ in	H4 / 3B	Cobalt	OSG	33VT58
UNF. Plug	72 111	2 /4 111	1117 00	OODUIL	000	001100
3/4"-16	1 in	4 21/64 in	H10 / 2B	Cobalt	OSG	54MC84
	na Metric Co	oarse, Black	Oxide	OODUIT		0 111100 1
Metric Coa	rse. Modifie	d Bottom, Se	mi-Bottoming			
M1.2x0.25	5.50 mm	40.00 mm	6HX / 5HX	High Speed Steel	Walter Prototyp	427X42
M1.4x0.3	7.00 mm	40.00 mm	6HX / 5HX 6HX / 6HX	High Speed Steel	Walter Prototyp	427X43
M1.6x0.35	8.00 mm	40.00 mm	6HX / 6HX	High Speed Steel High Speed Steel	Walter Prototyp	
M2x0.4	6.00 mm	45.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	427X46
M2.5x0.45	8.00 mm	50.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	427X47
M3x0.5	9.00 mm	56.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	
M4x0.7	12.00 mm	63.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	427X49
M5x0.8	13.00 mm	70.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	427X50
M6x1	15.00 mm	80.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	427X51
M8x1.25	18.00 mm	90.00 mm	6HX / 6HX 6HX / 6HX	High Speed Steel	Walter Prototyp	427X52
M10x1.5	20.00 mm	100.00 mm	6HX / 6HX	High Speed Steel	Walter Prototyp	427X45

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