For more information on Drill Bits, see page 2137.







## **Taper-Length High-Speed Steel Drill Bits**

Drill Bit Size	Decimal Equivalent	Flute Length	Shank Dia.	Overall Length	Brand	Item No.
	le Finish, Spira	l Flute. No	n-Coolant Th			
118° Point	Angle, Conver	ntional Poi	nt	iougii, iupoi	• Humin	
½ in	0.5000	4 3/8 in	MT2	8 1/4 in	Chicago-Latrobe	1N735
17/32 in	0.5312	4 5/8 in	MT2	8 ½ in	Chicago-Latrobe	1N765
%16 in	0.5625	4 1/8 in	MT2	8 ¾ in	Chicago-Latrobe	1N769
39/64 in	0.6094	4 1/8 in	MT2	8 ¾ in	Chicago-Latrobe	4HAR2
5/8 in	0.6250	4 1/8 in	MT2	8 ¾ in	Chicago-Latrobe	1N777
<sup>21</sup> / <sub>32</sub> in	0.6562	5 1/8 in	MT2	9 in	Chicago-Latrobe	1N781
11/16 in	0.6875	5 % in	MT2	9 1/4 in	Chicago-Latrobe	1N799
3/4 in	0.7500	5 1/8 in	18.00mm	9 ¾ in	Westward	5TVF8
3/4 in	0.7500	5 % in	MT2	9 ¾ in	Chicago-Latrobe	1N807
13/16 in	0.8125	6 1/8 in	0.9484"	10 ¾ in	Westward	5TVG0
13/16 in	0.8125	6 1/8 in	MT3	1 ¾ in	Chicago-Latrobe	1N815
7∕8 in	0.8750	6 1/8 in	MT3	1 ¾ in	Chicago-Latrobe	1N823
7∕8 in	0.8750	6 1/8 in	MT3	1 ¾ in	Cle-Line	50AZ40
15/16 in	0.9375	6 1/8 in	MT3	1 ¾ in	Chicago-Latrobe	1N831
63/64 in	0.9844	6 % in	MT3	11 in	Chicago-Latrobe	4HAT5
1 in	1.0000	6 % in	MT3	11 in	Chicago-Latrobe	1N839
1½16 in	1.0625	6 5/8 in	MT3	11 ¼ in	Chicago-Latrobe	1N847
17/64 in	1.1094	7 1/8 in	MT4	12 ¾ in	Chicago-Latrobe	4HAT9
11/8 in	1.1250	7 1/8 in	MT4	12 ¾ in	Chicago-Latrobe	1N855
15/32 in	1.1562	2 1/8 in	1.2446"	12 % in	Westward	5TVH0
13/16 in	1.1875	7 % in	MT4	13 in	Chicago-Latrobe	1N863
11/4 in	1.2500	7 % in	1.2446"	13 ½ in	Westward	5TVH2
11/4 in	1.2500	7 1/8 in	MT3	12 ½ in	Cleveland	439G64
11/4 in	1.2500	7 1/8 in	MT4	13 ½ in	Chicago-Latrobe	1N871
15/16 in	1.3125	8 % in	1.2446"	14 1/4 in	Westward	5TVH3
111/32 in	1.3438	8 ¾ in	MT4	14 ¾ in	Cleveland	439G51
1% in	1.3750	8 1/8 in	MT4	14 ½ in	Chicago-Latrobe	1N887
117/32 in	1.5312	9 ¾ in	MT4	15 in	Cleveland	439G65
1% in	1.6250	10 in	MT5	17 in	Chicago-Latrobe	1N905
111/16 in	1.6875	1 1/8 in	MT5	17 1/8 in	Chicago-Latrobe	4HAV2
13/4 in	1.7500	1 1/8 in	MT5	17 1/8 in	Chicago-Latrobe	1N907
2 in	2.0000	1 3/8 in	MT5	17 ¾ in	Chicago-Latrobe	1N911







TiN Finish

## **Screw-Machine Length Cobalt Drill Bits**

					· · · · · · · · · · · · · · · · · · ·	
Drill	Decimal	Flute	_	Overall		Item
Bit Size	Equivalent	Length	Shank Dia.	Length	Brand	No.
Straw/Bro	nze Finish, Spi	iral Flute, N	on-Coolant Tl	hrough, Straig	jht Shank	
135° Point	t Angle, Split F	Point				
1/8 in	0.1250	⅓ in	1/8 in	1 1/8 in	Chicago-Latrobe	1TNT6
%4 in	0.1406	15/16 in	%4 in	1 15/16 in	Chicago-Latrobe	1TNT7
5∕32 in	0.1562	10 in	5∕32 in	2 1/16 in	Chicago-Latrobe	1TNT8
3∕16 in	0.1875	1 1/8 in	3∕16 in	2 ¾16 in	Chicago-Latrobe	1TNU1
13/64 in	0.2031	1 ¾16 in	13/64 in	2 1/4 in	Chicago-Latrobe	1TNU2
7∕32 in	0.2188	1 1/4 in	7∕32 in	2 % in	Chicago-Latrobe	1TNU3
1/4 in	0.2500	1 3/8 in	1⁄4 in	2 ½ in	Chicago-Latrobe	1TNU5
1/4 in	0.2500	1 3/8 in	1/4 in	2 ½ in	Westward	5TVU1
5∕16 in	0.3125	1 % in	5∕16 in	2 13/16 in	Chicago-Latrobe	1TNU9
3⁄8 in	0.3750	1 13/16 in	3⁄8 in	3 1/8 in	Chicago-Latrobe	1TNV4
3/8 in	0.3750	1 13/16 in	3⁄8 in	3 1/8 in	Cleveland	439W38
13/32 in	0.4062	1 15/16 in	13/32 in	3 5/16 in	Chicago-Latrobe	1TNV6
27/64 in	0.4219	2 in	27/64 in	3 ¾ in	Chicago-Latrobe	1TNV7
7∕16 in	0.4375	2 1/16 in	7∕16 in	3 7/16 in	Chicago-Latrobe	1TNV8
½ in	0.5000	2 1/4 in	½ in	3 ¾ in	Chicago-Latrobe	1TNW3
½ in	0.5000	2 1/4 in	½ in	3 ¾ in	Cleveland	439W53
#7	0.2010	1 ¾16 in	3∕16 in	2 1/4 in	Chicago-Latrobe	4CNV2
#10	0.1935	1 ¾16 in	3∕16 in	2 1/4 in	Cleveland	439V93
#30	0.1285	15/16 in	1/8 in	1 15/16 in	Chicago-Latrobe	4CNX7
F	0.2570	1 7/16 in	1/4 in	2 % in	Chicago-Latrobe	4CNP2
0	0.3160	1 11/16 in	5∕16 in	2 15/16 in	Chicago-Latrobe	4CNR2
Q	0.3320	1 11/16 in	<sup>21</sup> / <sub>64</sub> in	3 in	Chicago-Latrobe	4CNR4
U	0.3680	1 13/16 in	<sup>23</sup> ⁄64 in	3 1/8 in	Chicago-Latrobe	4CNR8
V	0.3770	1 1/8 in	3/8 in	3 1/4 in	Chicago-Latrobe	4CNR9
W	0.3860	1 7/8 in	3∕8 in	3 1/4 in	Chicago-Latrobe	4CNU1
Y	0.4040	1 15/16 in	<sup>25</sup> ⁄64 in	3 5/16 in	Chicago-Latrobe	4CNU3
TIAIN Finis	sh, Parabolic I	Flute, Non-C	Coolant Throu	gh, Straight S	hank	
135° Point	t Ángle, Split F	Point				
1/8 in	0.1250	7∕8 in	1/8 in	1 1/8 in	Cleveland	2VUJ4
½ in	0.2500	1 % in	1/4 in	2 ½ in	Cleveland	2VUK3
5/16 in	0.3125	1 5/8 in	5/16 in	2 13/16 in	Cleveland	2VUK7

135° Point	Angle, Split	Point		3 ,		
1/8 in	0.1250	⅓ in	1/8 in	1 1/8 in	Cleveland	2VUJ4
1/4 in	0.2500	1 % in	1/4 in	2 ½ in	Cleveland	2VUK3
5/16 in	0.3125	1 5/8 in	5∕16 in	2 13/16 in	Cleveland	2VUK7
23/64 in	0.3594	1 ¾ in	<sup>23</sup> / <sub>64</sub> in	3 1/16 in	Cleveland	2VUL1
3/8 in	0.3750	1 13/16 in	⅓ in	3 1/8 in	Cleveland	2VUL2
9/16 in	0.5625	2 ½ in	9⁄16 in	4 in	Cleveland	439X55
5⁄8 in	0.6250	2 ¾ in	5⁄8 in	4 1/4 in	Cleveland	439X59
#21	0.1590	1 1/16 in	5∕32 in	2 1/8 in	Cleveland	2VUR4
#26	0.1470	10 in	%4 in	2 1/16 in	Cleveland	2VUR9
TiN Finish.	Spiral Flute.	Non-Coolant	Through, S	traight Shank		

#26	0.1470	10 IN	9∕64 IN	2 1/16 IN	Cieveland	2VUK9
			Through,	Straight Shank		
130° Point	t Angle, Notcl	hed Point				
1/8 in	0.1250	⅓ in	3∕16 in	2 5/16 in	OSG	2MFA3
11/64 in	0.1719	1 ½16 in	3∕16 in	2 ½ in	OSG	2MFC5
1/4 in	0.2500	1 3/8 in	1/4 in	2 ½ in	OSG	2MFE2
3⁄8 in	0.3750	1 13/16 in	3⁄8 in	3 % in	OSG	2MFF9
1/2 in	0.5000	2 1/4 in	½ in	4 11/32 in	OSG	2MFH2
T	0.3580	1 ¾ in	3⁄8 in	3 1/16 in	OSG	3CHP2
	t Angle, Split					
1/8 in	0.1250	⅓ in	1/8 in	1 1/8 in	Chicago-Latrobe	439J95
5∕32 in	0.1562	10 in	5∕32 in	2 1/16 in	Chicago-Latrobe	439J97
3∕16 in	0.1875	1 1/8 in	3∕16 in	2 ¾16 in	Chicago-Latrobe	439J99
1/4 in	0.2500	1 3/8 in	1/4 in	2 ½ in	Chicago-Latrobe	439K04
3/8 in	0.3750	1 13/16 in	3⁄8 in	3 1/8 in	Chicago-Latrobe	439K12
1/2 in	0.5000	2 1/4 in	½ in	3 ¾ in	Chicago-Latrobe	439K20





118° Point Angle 2PPK5

## **Screw-Machine Length Carbide Drill Bits**

B			•			
Drill Bit Size	Decimal	Clute Length	Chank Dia	Overall	Brand	ltem No.
	Equivalent	Flute Length Ite, Non-Coolar	SHAHK DIA.	Length	Drailu	NU.
110° Doin	t Angle, 4 Fac	ILE, NUII-GUUIAI	ıı ınrougn, sı	raight Shank		
3/32 in	0.0938	3/4 in	3/32 in	1 ¾ in	OSG	2PPK5
1/8 in	0.1250	1 1/4 in	1/8 in	2 1/4 in	OSG	2PPL2
5/32 in	0.1563	10 in	5/32 in	2 ½ in	OSG	2PPL6
3/16 in	0.1875	1 % in	3/16 in	2 ¾ in	OSG	2PPL8
1/4 in	0.2500	1 3/8 in	1/4 in	2 ½ in	OSG	2PPN5
1/4 in	0.2500	10 in	1/4 in	2 ½ in	Chicago-Latrobe	6ZRT7
9/32 in	0.2813	2 1/8 in	9/32 in	3 ½ in	OSG	3CLJ6
5/16 in	0.3125	1 1/4 in	5/16 in	2 ½ in	Chicago-Latrobe	6ZCT9
5/16 in	0.3125	2 % in	5/16 in	3 ¾ in	OSG	2PPN8
11/32 in	0.3438	2 ½ in	11/32 in	4 in	OSG	2PPN9
3/8 in	0.3750	1 1/4 in	3/8 in	2 ¾ in	Chicago-Latrobe	6TDD3
3/8 in	0.3750	1 13/16 in	3/8 in	3 1/8 in	OSG	2PPP2
25/64 in	0.3906	1 1/4 in	25/64 in	2 ¾ in	Chicago-Latrobe	6TDD4
25/64 in	0.3906	2 % in	25/64 in	4 ½ in	OSG	3CLG4
13/32 in	0.4062	1 1/4 in	13/32 in	2 ¾ in	Chicago-Latrobe	6TDD5
13/32 in	0.4063	2 % in	13/32 in	4 ½ in	OSG	2PPP3
27/64 in	0.4219	2 % in	27/64 in	4 ½ in	OSG	2PPP4
7/16 in	0.4375	1 1/4 in	7/16 in	2 ¾ in	Chicago-Latrobe	6TDD7
15/32 in	0.4688	3 in	15/32 in	4 3/4 in	OSG	3CLF7
1/2 in	0.5000	1 1/4 in	½ in	3 in	Chicago-Latrobe	6TDE1
1/2 in	0.5000	3 in	½ in	4 ¾ in	OSG	2PPP6
	t Angle, 4 Fac					
1/8 in	0.1250	7⁄8 in	1/8 in	1 1/8 in	_	36XK19
1/8 in	0.1250	7∕8 in	1/8 in	1 1/8 in	OSG	2PPG4
5∕32 in	0.1562	10 in	5∕32 in	2 1/16 in		36XK23
5∕32 in	0.1563	10 in	5∕32 in	2 ½ in	OSG	2PPG8
3/16 in	0.1875	1 1/8 in	3/16 in	2 3/16 in		36XK27
3∕16 in	0.1875	1 1/8 in	3/16 in	2 ¾16 in	OSG	2PPH1
1/4 in	0.2500	1 % in	1/4 in	2 ½ in		36XK35
1/4 in	0.2500	1 % in	1/4 in	2 ½ in	OSG	2PPH7
5∕16 in	0.3125	1 % in	5/16 in	2 13/16 in		36XK43
5/16 in	0.3125	1 % in	5/16 in	2 13/16 in	OSG	2PPJ1
11/32 in	0.3438	1 11/16 in	11/32 in	3 in	OSG	2PPJ2
3/8 in	0.3750	1 13/16 in	3% in	3 1/8 in		36XK51
3/8 in	0.3750	1 13/16 in	3% in	3 1/8 in	OSG	2PPJ4
13/32 in	0.4063	1 15/16 in	13/32 in	3 5/16 in	OSG	2PPJ5
7/16 in	0.4375	2 ½ in	7/16 in	3 7/16 in	OSG	2PPJ7
½ in	0.5000	2 ½ in	½ in	3 ¾ in		36XK67
½ in	0.5000	2 1/4 in	½ in	3 ¾ in	OSG	2PPJ8











Parabolic Flute 441H96

## Screw-Machine Length High-Speed Steel Drill Bits

Drill   Decimal   Equivalent	High	-Spee	a Ste	ei Uriii	I BITS		
Bit Size   Equivalent   Length   Shank Dia.   Length   Brand   No.							Item
118° Point Angle, Conventional Point   36½ in   13½ in							
\$\frac{\chicago}{\chick} \text{in}  \frac{\chicago}{\chicago} \	<b>Bright Fini</b>	ish, Spiral Flu	rte, Non-Cool	ant Through,	Straight Shank		
1914   1914							
196   197   196   197   196   197							
1							
Main   0.2500   1 \( \frac{1}{2} \) in   Main   2 \( \frac{1}{2} \) in   Cleveland   4391.30							
25% in   0.3906   1 ½ in   25% in   3 ½ in   Chicago-Latrobe   10P164   \$\frac{4}{5}\times in   0.8250   2 ¾ in   ½ in   1¾ in   Cleveland   439L75   \$\frac{4}{4}\times 0   0.0980   1¾ in   ½ in   1¾ in   Cleveland   439L75   \$\frac{4}{3}\times 0   0.0980   1¾ in   ½ in   1¾ in   Chicago-Latrobe   10U242     30° Point Angle, Conical Point     \$\frac{4}{1}\times 0   0.1660   5½ in   4.22 mm   55.00 mm   Walter Titex   441.196     \$\frac{4}{2}\times 0   1495   5½ in   3.80 mm   55.00 mm   Walter Titex   441.196     \$\frac{4}{4}\times 0   0.0980   3½ in   2.44 mm   43.00 mm   Walter Titex   441.194     \$\frac{4}{4}\times 0   0.0980   3½ in   2.44 mm   43.00 mm   Walter Titex   441.192     \$\frac{4}{3}\times 0   0.0980   3½ in   2.44 mm   43.00 mm   Walter Titex   441.192     \$\frac{3}{3}\times 0   0.1181   ¾ in   3.50 mm   52.00 mm   Walter Titex   441.661     \$\frac{3}{3}\times 0   0.138   2½ in   3.40 mm   52.00 mm   Walter Titex   441.670     \$\frac{3}{3}\times 0   0.1378   2½ in   3.50 mm   52.00 mm   Walter Titex   441.610     \$\frac{5}{3}\times 0   0.0087   1½ in   5.50 mm   66.00 mm   Walter Titex   441.610     \$\frac{5}{3}\times 0   0.2559   1½ in   6.50 mm   70.00 mm   Walter Titex   441.610     \$\frac{1}{3}\times 0   0.2386   1½ in   6.50 mm   70.00 mm   Walter Titex   441.610     \$\frac{1}{3}\times 0   0.2656   1½ in   6.75 mm   74.00 mm   Walter Titex   441.610     \$\frac{1}{3}\times 0   0.2656   1½ in   6.75 mm   74.00 mm   Walter Titex   441.610     \$\frac{1}{3}\times 0   0.3325   1½ in   0.754 mm   79.00 mm   Walter Titex   441.610     \$\frac{1}{3}\times 0   0.3025   1½ in   0.322 mm   89.00 mm   Walter Titex   441.610     \$\frac{1}{3}\times in   0.2656   1½ in   0.322 mm   89.00 mm   Walter Titex   441.610     \$\frac{1}{3}\times in   0.2500   1¾ in   ¼ in   0.2500   1¾ in   ¼ in   0.2500   1¾ in   ¼ in   0.0500   2½ in   0.000     \$\frac{1}{3}\times in   0.1250   ½ in   0.000   0.000   0.000     \$\frac{1}{3}\times in   0.1250   ½ in   0.000   0.000   0.000     \$\frac{1}{3}\times in   0.1250   ½ i			1 % IN				
Section   Sect					2 ½ in		
#40 0.0980 19/6 in 3/2 in 119/6 in Chicago-Latrobe 100242 Bright Finish, Parabolic Flute, Non-Coolant Through, Straight Shank 130° Point Angle, Conical Point 19 0.1660 39/64 in 4.22 mm 55.00 mm Walter Titex 4411,04 440 0.0980 39/64 in 2.49 mm 43.00 mm Walter Titex 441,04 440 0.0980 39/64 in 2.49 mm 43.00 mm Walter Titex 441,04 441 30.00 mm 0.1181 56 in 3.00 mm 46.00 mm Walter Titex 441,02 3.00 mm 0.1181 56 in 3.00 mm 46.00 mm Walter Titex 441,02 3.00 mm 0.1339 29/22 in 3.40 mm 52.00 mm Walter Titex 441,066 3.40 mm 0.1339 29/22 in 3.40 mm 52.00 mm Walter Titex 441,066 3.50 mm 0.2087 19/22 in 3.50 mm 52.00 mm Walter Titex 441,066 5.50 mm 0.2087 19/22 in 5.50 mm 66.00 mm Walter Titex 441,066 6.50 mm 0.2559 19/22 in 6.50 mm 70.00 mm Walter Titex 441,066 6.50 mm 0.2559 19/22 in 6.50 mm 70.00 mm Walter Titex 441,066 6.50 mm 0.3386 19/6 in 8.60 mm 70.00 mm Walter Titex 441,00 walter Titex 441,00 mm Walter Titex 4							
Bright Finish, Parabolic Flute, Non-Coolant Through, Straight Shank   #19							
130° Point Angle, Conical Point   4196   5150 mm   422 mm   55.00 mm   Walter Titex   4411466   425   0.1486   5564 in   3.80 mm   55.00 mm   Walter Titex   441104   440   0.0980   5564 in   3.80 mm   55.00 mm   Walter Titex   441104   440   0.0980   5564 in   2.49 mm   43.00 mm   Walter Titex   441121   441   0.0980   5564 in   2.44 mm   43.00 mm   Walter Titex   441122   3.00 mm   0.1181   56 in   3.00 mm   46.00 mm   Walter Titex   441122   3.00 mm   0.1181   56 in   3.00 mm   46.00 mm   Walter Titex   441127   441666   3.40 mm   0.1339   2562 in   3.50 mm   52.00 mm   Walter Titex   441671   3.50 mm   0.1378   2562 in   3.50 mm   52.00 mm   Walter Titex   441647   45.00 mm   0.2165   1362 in   5.50 mm   62.00 mm   Walter Titex   441164   5.50 mm   0.2165   1362 in   5.50 mm   62.00 mm   Walter Titex   441146   6.50 mm   0.3386   1366 in   8.60 mm   84.00 mm   Walter Titex   441144   430° Point Angle, Conventional Point   7.54 mm   79.00 mm   Walter Titex   441144   730° Point Angle, Conventional Point   7.54 mm   79.00 mm   Walter Titex   4411647   7.54 in   0.2656   1362 in   7.54 mm   79.00 mm   Walter Titex   441647   7.54 in   0.2656   1362 in   7.54 mm   79.00 mm   Walter Titex   441647   7.54 in   0.2656   1362 in   7.54 mm   79.00 mm   Walter Titex   441647   7.54 in   0.3125   1362 in   7.94 mm   79.00 mm						Unicago-Latrobe	100242
#19				Jourant Inrou	gn, straignt si	ank	
#25 0.1495 \$\frac{\$\frac{5}{8}\text{si in}}{8}\$4 in 3.80 mm 55.00 mm Walter Titex 441J24 #41 0.0960 \$\frac{3}{8}\text{si in}}{4}\$141 0.0960 \$\frac{3}{8}\text{si in}}{6}\$ in 2.44 mm 43.00 mm Walter Titex 441J22 \$3.00 mm 0.1181 \$\frac{5}{8}\text{ si in}}{6}\$ in 3.00 mm 46.00 mm Walter Titex 441G26 \$3.00 mm 0.1389 \$\frac{2}{8}\text{si in}}{8}\$ 3.40 mm 52.00 mm Walter Titex 441G670 \$3.50 mm 0.1378 \$\frac{2}{8}\text{si in}}{8}\$ 3.50 mm 52.00 mm Walter Titex 441G70 \$3.50 mm 0.2087 \$1\text{si in}}{8}\$ 5.50 mm 62.00 mm Walter Titex 441G71 \$5.00 mm 0.2165 \$1\text{si in}}{5.50 mm 0.2165 \$1\text{si in}}{1\text{si in}}\$ 5.50 mm 66.00 mm Walter Titex 441H46 \$5.00 mm 0.2559 \$1\text{si in}}{8.60 mm 0.3386 \$1\text{si in}}\$ 8.60 mm 84.00 mm Walter Titex 441H46 \$6.50 mm 0.3286 \$1\text{si in}}{8.60 mm 0.3386 \$1\text{si in}}\$ 8.60 mm 84.00 mm Walter Titex 441H46 \$1.00 mm \$1.00 mm Walter Titex 441G47 \$1.00 mm \$1.00 mm \$1.00 mm Walter Titex 441G47 \$1.00 mm			55%, in	4.22 mm	55 00 mm	Maltar Titay	441406
#40 0.0980 \$\frac{3\psi_64 \text{ in }}{6.41} \ 2.49 \text{ mm} \ 43.00 \text{ mm} \ Walter Titex \ 441\text{ 121} \ 441\text{ mm} \ 43.00 \text{ mm} \ Walter Titex \ 441\text{ 441}\text{ 22} \ 3.00 \text{ mm} \ 0.1389 \$\frac{2\psi_64 \text{ in }}{2\psi_62 \text{ in }} \ 3.40 \text{ mm} \ 43.00 \text{ mm} \ Walter Titex \ 441\text{ 626} \ 3.40 \text{ mm} \ 0.1339 \$\frac{2\psi_64 \text{ in }}{2\psi_62 \text{ in }} \ 3.50 \text{ mm} \ 52.00 \text{ mm} \ Walter Titex \ 441\text{ 616} \ 3.50 \text{ mm} \ 0.200 \text{ mm} \ Walter Titex \ 441\text{ 616} \ 3.50 \text{ mm} \ 0.200 \text{ mm} \ Walter Titex \ 441\text{ 616} \ 3.50 \text{ mm} \ 0.200 \text{ mm} \ Walter Titex \ 441\text{ 616} \ 3.50 \text{ mm} \ 0.200 \text{ mm} \ Walter Titex \ 441\text{ 616} \ 3.50 \text{ mm} \ 0.2559 \ 1\psi_2 \text{ in } \ 5.50 \text{ mm} \ 6.00 \text{ mm} \ Walter Titex \ 441\text{ 616} \ 3.60 \text{ mm} \ 0.3326 \ 1\psi_6 \text{ in } \ 5.50 \text{ mm} \ 6.00 \text{ mm} \ Walter Titex \ 441\text{ 641} \ 430\text{ 65} \ 3.60 \text{ mm} \ 7.00 \text{ mm} \ Walter Titex \ 441\text{ 641} \ 430\text{ 65} \ 12\psi_6 \text{ in } \ 6.75 \text{ mm} \ 7.90 \text{ mm} \ Walter Titex \ 441\text{ 641} \ 43\text{ 641} \ 3\psi_6 \text{ in } \ 0.2656 \ 12\psi_6 \text{ in } \ 6.75 \text{ mm} \ 79.00 \text{ mm} \ Walter Titex \ 441\text{ 641} \ 43\text{ 641} \ 3\text{ 62} \text{ in } \ 0.3025 \ 12\psi_6 \text{ in } \ 0.75\text{ mm} \ 79.00 \text{ mm} \ Walter Titex \ 441\text{ 641} \ 43\text{ 641} \ 3\text{ 627} \ 3\text{ 62} \text{ in } \ 0.3125 \ 12\psi_6 \text{ in } \ 0.325 \ mm \ 7.94 \text{ mm} \ 79.00 \text{ mm} \ Walter Titex \ 441\text{ 641} \ 41\text{ 647} \ 3\text{ 62} \text{ in } \ 0.3125 \ 12\psi_6 \text{ in } \ 0.325 \ 1\psi_6 \text{ in } \ 0.2500 \ 1\psi_6 \text{ in } \ 1\psi_6 \text{ in } \ 0.2500 \ 1\psi_6 \text{ in } \ 1\psi_6 \text{ in } \ 0.2500 \ 1\psi_6 \text{ in } \ 0.2500 \ 1\psi_6 \text{ in } \ 0.2500 \ 1\psi_6 \text{ in } \ 0.000000000000000000000000000000000			55/c4 in				
#41 0.0960 *\$64 in 2.44 mm 43.00 mm Walter Titex 441J22 3.00 mm 0.1181							
3.00 mm							
3.40 mm							441322
3.50 mm							
5.30 mm         0.2087         1 ½s in         5.30 mm         62.00 mm         Walter Titex         441H06           5.50 mm         0.2165         1 ½z in         6.50 mm         70.00 mm         Walter Titex         441H06           6.50 mm         0.3386         1 ½s in         6.50 mm         70.00 mm         Walter Titex         441H06           1.30* Point Angle, Conventional Point         1½s in         0.2656         1 ½s in         6.75 mm         74.00 mm         Walter Titex         441641           1½s in         0.2686         1 ½s in         6.75 mm         79.00 mm         Walter Titex         441641           1½s in         0.2989         1 ½s in         10.32 mm         89.00 mm         Walter Titex         441627           ½s in         0.3125         1 ½s in         7.94 mm         79.00 mm         Walter Titex         441617           18 in         0.3125         1½s in         10.32 mm         89.00 mm         Walter Titex         441H11           18 in         0.3125         1½s in         10.32 mm         89.00 mm         Walter Titex         441H11           18 in         0.1250         ½s in         ½s in         1½s in         Chicago-Latrobe         100267           ½	3.40 IIIII		25/so in				
5.50 mm         0.2165         1 ½z in         5.50 mm         66.00 mm         Walter Titex         441H06           6.50 mm         0.2559         1 ½z in         6.50 mm         70.00 mm         Walter Titex         441H06           8.60 mm         0.3386         1 ½s in         8.60 mm         84.00 mm         Walter Titex         441H04           130° Point Angle, Conventional Point         1½s in         6.75 mm         74.00 mm         Walter Titex         441G41           1½s in         0.2656         1 ½s in         7.54 mm         79.00 mm         Walter Titex         441G47           ½s in         0.4062         1 ½s in         7.94 mm         79.00 mm         Walter Titex         441G47           ½s in         0.3125         1 ½s in         7.94 mm         79.00 mm         Walter Titex         441G47           11N Finish, Spiral Fluter, Mon-Coolant Through, Straight Shank         118° Point Angle, Spiral Fluter, Mon-Coolant Through, Straight Shank         118° Point Angle, Spiral Fluter, Mon-Coolant Through, Straight Shank         100 mm         1 ½s in         Chicago-Latrobe         100267           13° Point Angle, Spiral Fluter, Mon-Coolant Through, Straight Shank         118° in         1½s in         Chicago-Latrobe         100275         100275         100275         100275 <t< td=""><td></td><td></td><td>1 1/64 in</td><td></td><td></td><td></td><td></td></t<>			1 1/64 in				
6.50 mm 0.2559 1 1/½2 in 6.50 mm 70.00 mm Walter Titex 441H20 8.60 mm 0.3386 1 1½6 in 8.60 mm 84.00 mm Walter Titex 441H44 130° Point Angle, Conventional Point 1/¼4 in 0.2656 1 ½¼4 in 6.75 mm 74.00 mm 1½4 in 0.2656 1 ½¼4 in 7.54 mm 79.00 mm Walter Titex 441G47 1½42 in 0.4062 1 ½¼4 in 7.54 mm 79.00 mm Walter Titex 441G47 1¾2 in 0.4062 1 ½¼4 in 10.32 mm 89.00 mm Walter Titex 441G47 1¾2 in 0.3125 1 ½¼4 in 7.94 mm 79.00 mm Walter Titex 441G47 1¾4 in 0.3125 1 ½¼4 in 7.94 mm 79.00 mm Walter Titex 441H11 11N Finish, Spiral Flute, Non-Coolant Through, Straight Shank 118 Point Angle, Conventional Point 1¼ in 0.2500 1 ¾4 in ¼4 in 2 ½4 in Chicago-Latrobe 100275 1¼4 in 0.3125 1 ⅓4 in ¼46 in 2 ½4 in Chicago-Latrobe 100275 1√4 in 0.3125 1 ⅓4 in ¼46 in 2 ½4 in Chicago-Latrobe 100275 1√5 Point Angle, 4 Facet Point 1.50 mm 0.3150 37.00 mm 8.00 mm 81.00 mm 0SG 2PNK5 1.50 0 mm 0.5906 56.00 mm 16.00 mm 116.00 mm 0SG 2PNT1 135 Point Angle, Split Point 1¾6 in 0.1250 1 ¼6 in ¼6 in 1 ¼6 in Chicago-Latrobe 439H31 1¼6 in 0.2500 1 ¼6 in ¼6 in 3 ¼6 in Chicago-Latrobe 439H31 1¼6 in 0.4375 2 ¼6 in ¼6 in 3 ¼6 in Chicago-Latrobe 439H31 1¼6 in 0.5000 2 ¼4 in ¼6 in 1 ¼6 in Chicago-Latrobe 439H31 1¾43 0.0890 ¾4 in ¼6 in 1 ¼6 in Chicago-Latrobe 439H37 1¾43 0.0890 ¾4 in ¼6 in 1 ¼6 in Chicago-Latrobe 439H37 1¾55 0.0670 11¼6 in 1¼6 in 1 ¼6 in Chicago-Latrobe 439H37 1¾43 0.0890 ¾4 in ¼6 in 1 ¼6 in Chicago-Latrobe 439H37 1¾43 0.0890 ¾4 in ¼6 in 1 ¼6 in Chicago-Latrobe 439H37 1¾55 0.0670 11¼6 in 1¼6 in 1¼6 in Chicago-Latrobe 439H37 1¾56 10.0670 11¼6 in 1¼6 in 1 ¼6 in Chicago-Latrobe 439H37 1¾56 10.0670 11¼6 in 1¼6 in 1 ¼6 in Chicago-Latrobe 439H37 1¾43 0.0890 ¼6 in ¼6 in 1 ¼6 in 1 1¼6 in Chicago-Latrobe 439H37 1¾56 10.0670 11¼6 in 1¼6 in 1 ¼6 in Chicago-Latrobe 439H37 1¾56 10.0670 11¼6 in 1¼6 in 1 ¼6 in Chicago-Latrobe 439H37 1¾570 11 1¼6 in Chicago-Latrobe 1 1¼6 in Chicago-Latrobe 1 1 1 1¼6 in Chicago-Latrobe 1 1 1 1¼6 in Chicago-Latrobe 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
8.60 mm							
130° Point Angle, Conventional Point   1/94 in   0.2656   1 21/94 in   0.75 mm   74.00 mm   Walter Titex   441G41   1/94 in   0.2969   1 28/94 in   7.54 mm   79.00 mm   Walter Titex   441G47   1/94 in   0.3125   1 28/94 in   7.94 mm   79.00 mm   Walter Titex   441G47   1/94 in   0.3125   1 28/94 in   7.94 mm   79.00 mm   Walter Titex   441G47   1/94 in							
1/96 in   0.2656   1.2½6 in   6.75 mm   74.00 mm   Valter Titex   441641					04.00 111111	Walter Fitex	4411144
1964 in   0.2969   1 2964 in   7.54 mm   79.00 mm   Walter Titex   441647					74 00 mm	Walter Titey	441G41
19½2 in   0.4062   1 1½4 in   10.32 mm   89.00 mm   Walter Titex   441627			1 29/64 in				
Walter Titex							
TIN Finish, Spiral Flute, Non-Coolant Through, Straight Shank	5/16 in						
118° Point Angle, Conventional Point   1/6 in	TiN Finish		Non-Coolant			Walter Hitex	4411111
19							
5/6 in   0.3125   1 % in   5/6 in   2 \(^{13/6}\) in   Chicago-Latrobe   10U279		0.1250		1/8 in	1 % in	Chicago-Latrobe	10U267
120° Point Angle, 4 Facet Point   8.00 mm   81.00 mm   0.56   2PNK5	1/4 in	0.2500				Chicago-Latrobe	10U275
8.00 mm         0.3150         37.00 mm         8.00 mm         81.00 mm         OSG         2PNK5           15.00 mm         0.5906         56.00 mm         16.00 mm         116.00 mm         OSG         2PNT1           135° Point Angle, Spitt Point         ½ in         ½ in         Chicago-Latrobe         439H43           ¼ in         0.2500         1 ½ in         ¼ in         2 ½ in         Chicago-Latrobe         439H43           ¼ in         0.4375         2 ½ in         ¼ in         3 ½ in         Chicago-Latrobe         439H63           ½ in         0.5900         2 ¼ in         ½ in         3 ¾ in         Chicago-Latrobe         439H67           #43         0.0890         ¾ in         ¼ in         1 ¼ in         Chicago-Latrobe         439H67           #51         0.0670         1½ in         ½ in         1 ½ in         Chicago-Latrobe         439J44	5/16 in	0.3125	1 5% in	5/16 in	2 13/16 in	Chicago-Latrobe	10U279
15.00 mm	120° Point	Angle, 4 Fac	et Point				
135° Point Angle, Sulit Point           ½ in         ½ in         ½ in         Chicago-Latrobe         439H43           ¼ in         0.2500         1 % in         ¼ in         2 ½ in         Chicago-Latrobe         439H51           ¼ in         0.4375         2 ½ in         ½ in         Chicago-Latrobe         439H51           ½ in         0.5000         2 ¼ in         ½ in         3 ¼ in         Chicago-Latrobe         439H67           #43         0.0890         ¾ in         ¾ in         1 ¾ in         Chicago-Latrobe         439J36           #51         0.0670         1 ½ in         1 ½ in         Chicago-Latrobe         439J36							
15				16.00 mm	116.00 mm	OSG	2PNT1
¼ in         0.2500         1 % in         ¼ in         2 ½ in         Chicago-Latrobe         439H51           ¼ in         0.4375         2 ¼ in         ¼ in         3 ¼ in         Chicago-Latrobe         439H51           ½ in         0.5000         2 ¼ in         ½ in         3 ¼ in         Chicago-Latrobe         439H67           #43         0.0890         ¾ in         ¾ in         1 ¼ in         Chicago-Latrobe         439J36           #51         0.0670         1 ¼ in         ½ in         1 ½ in         Chicago-Latrobe         439J36							
V/6 in         0.4375         2 ½/6 in         ½/6 in         3 ½/6 in         Chicago-Latrobe         439H63           ½ in         0.5000         2 ¼ in         ½ in         3 ¾ in         Chicago-Latrobe         439H67           #43         0.0890         ¾ in         ½/6 in         1 ¾ in         Chicago-Latrobe         439J64           #51         0.0670         ½/6 in         ½/6 in         1 ½/6 in         Chicago-Latrobe         439J44			7∕8 in				
½ in         0.5000         2 ¼ in         ½ in         3 ¾ in         Chicago-Latrobe         439H67           #43         0.0890         ¾ in         ½ in         1 ¾ in         Chicago-Latrobe         439J64           #51         0.0670         ½ in         ½ in         1 ½ in         Chicago-Latrobe         439J44							
#43 0.0890 ¾4 in ¾64 in 1 ¾4 in Chicago-Latrobe <b>439J36</b> #51 0.0670 11/6 in 1/6 in 1 11/6 in Chicago-Latrobe <b>439J44</b>					3 7/16 in		
#51 0.0670 11/16 in 1/16 in 1 11/16 in Chicago-Latrobe 439J44							
U U.368U 1 13/16 In 23/64 In 3 1/6 In Chicago-Latrobe 439H87				½16 in			
	U	0.3680	1 13/16 IN	23/64 IN	3 1/8 IN	Unicago-Latrobe	439H87

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