

TiN Finish, Spiral Flute, Straight Shank 33UP30



High-Speed Steel Spotting Drills

Drill Bit Size	Decimal Equivalent	Flute Length	Overall Length	Shank Dia.	Brand	Item No.
Bright Finish, S	Spiral Flute			Silalik Dia.	Dianu	NU.
	e, Right Ha	nd Cutting Dire	ction 2.3% in	14 in	VEO	2211000
½ in ½ in	0.5000 0.5000	1 % in 1 % in	3 ¾ in 6 in	½ in ½ in	KEO KEO	33UR08 33UR09
3/4 in	0.7500	1 7/8 in	5 in	3/4 in	KEO	33UR14
1 in	0.2362	2 ½ in	6 in	1 in	KEO	33UR0
1 in	0.6299	2 1/4 in	10 in	1 in	KEO	33UR07
E	0.2500	3/4 in	2 ½ in	1/4 in	KEO	33UR1
0° Point Angl	e, Left Hand	l Cutting Direc	tion			
1/8 in	0.1250	3/8 in	1 1/4 in	1/8 in	KEO	33UP28
½ in	0.5000	1 in	2 in	½ in	KE0	33UL67
1/8 in	0.1250	nd Cutting Dire ¾ in	1 1/4 in	1/8 in	KEO	1DBU7
3/16 in	0.1875	½ in	1 3/8 in	3/16 in	KEO	1DBU8
5/16 in	0.3125 0.3750	5⁄8 in	1 ½ in	5/46 in	KEO	1DBV1
3⁄8 in	0.3750	1 in	2 in	3% in	KEO KEO	1DBV2
3/8 IN	0.3750	1 1/8 in	3 1/8 in	3/8 IN	KEO	1MCA9
3/8 in	0.3750 0.3750	1 1/8 in	5 in 7 in	3% in	KEO	1MCB1
3∕8 in	0.3750	1 1/8 IN	7 in	3⁄8 in	KEO	1MCB2
7/16 in	0.4375	1 in	2 in	7/16 in	KEO	33UP55
½ in	0.5000 0.5000	1 in	2 in	½ in	KEO	1DBV3
½ in	0.5000	1 % in	3 ¾ in	½ in	KE0	1MCB3
½ in	0.5000	1 3/s in	6 in	½ in	KE0	1MCB4
½ in % in	0.5000 0.2500	1 3% in 5% in	8 in 1 ½ in	½ in ¼ in	KEO KEO	1MCB5 1DBU9
5/8 in	0.2500	98 III 1 1/8 in	2 ½ in	5/8 in	KE0	1DB09
5% in	0.6250	1 5% in	4 % in	% in	KEO	1MCB6
5/8 in	0.6250	1 5% in	9 in	5/8 in	KEO	12J377
3/4 in	0.7500	1 1/8 in	2 1/4 in	3/4 in	KEO	1DBV5
3/4 in	0.7500	1 % in	5 in	3⁄4 in	KEO	1MCB7
3/4 in	0.7500	1 % in	10 in	3/4 in	KEO	12J373
1 ¾ in	1.7500	2 ¾ in	5 ½ in	1 ¾ in	KEO	33UP87
1 in	1.0000 0.2362	2 1/4 in	6 in	1 in	KEO	1MCB8
6.00 mm	0.2362	20.00 mm	72.00 mm	6 mm	OSG	34ZT31
10.00 mm	0.3937	30.00 mm	93.00 mm	10 mm	OSG	34ZT33
20.00 mm	0.7874 0.2500 0.2500	53.00 mm	132.00 mm 2 ½ in	20 mm	OSG	34ZT36
E	0.2500	3/4 in	2 ½ IN	1/4 in	KEO	1MCA6
E	0.2500	3/4 in	4 in 6 in	1/4 in 1/4 in	KE0	1MCA7
18° Point And	u.2300	¾ in nd Cutting Dire	ction	74 III	KEO	1MCA8
2/16 IN	0.3125	5⁄8 in	1 ½ in	5∕16 in	KEO	33UP39
3% in	0.3750	1 in	2 in	3% in	KEO	33UP47
½ in	0.5000	1 in	2 in	1/2 in	KEO	33UP24
5⁄8 in	0.6250	1 1/8 in	2 1/4 in	5⁄8 in	KEO	33UP51
18° Point Ang	jle, Right Ha	and Cutting Dir	ection			
1/8 in	0.1250	3/8 in	1 1/4 in	½ in	KEO	1DBV8
3/16 in	0.1875	½ in	1 % in	3/16 in	KE0	1DBV9
5∕16 in 1⁄2 in	0.3125 0.5000	5% in 1 in	1 ½ in 2 in	5⁄16 in 1∕2 in	KEO KEO	1DBW2 1DBW4
5/8 in	0.2500	5/8 in	1 ½ in	½ III ¼ in	KEO	1DBW4
3/4 in	0.2500	1 1/8 in	2 ½ in	3/4 in	KEO	1DBW1
20° Point And	ile Right H	and Cutting Dir	ection	74 111	KLU	IDDW
3/8 in	0.3750	1 1/8 in	3 1/8 in	3⁄8 in	KEO	1MCC3
½ in	0.5000	1 3/8 in	3 ¾ in	½ in	KEO	1MCC6
1/2 in	0.5000	1 3/8 in	8 in	1/2 in	KEO	1MCC8
3/4 in	0.7500	1 ⅓ in	5 in	3/4 in	KEO	1MCD1
<u>E</u>	0.2500	3/4 in	2 ½ in	1/4 in	KEO	1MCB9
E	0.2500	3/4 in	4 in	1/4 in	KE0	1MCC1
'iN Finish, Spi	rai Flute o Dight Ho	nd Cutting Diro	ction			
12 00 mm	0 4724	36 00 mm	108.00 mm	12 mm	OSG	34ZT25
O° Point Anal	e, Right Ha	nd Cutting Dire 36.00 mm nd Cutting Dire	ction	12 111111		
⅓ ın	0.1250	% IN	1 1/4 IN	1/8 in	KEO	33UP26
3/16 in	0.1250 0.1875	½ in	1 % in	3/16 in	KEO KEO	33UP26 33UP30
3/8 in	0.3750	1 in	2 in	3% in	KEO	33UP46
⅓ in	0.3750 0.5000	1 1/8 in	3 1/8 in	⅓ in	KEO	12Y273
1/2 in	0.5000	1 in	2 in	1∕2 in	KEO	33UP23
½ in	0.5000	1 % in	3 ¾ in	½ in	KE0	12Y264
½ in	0.5000 0.2500	1 % in	6 in	½ in	KEO	12Y265
5/8 in	0.2500	5% in 1 7% in	1 ½ in	1/4 in	KEO KEO	33UP34 12Y270
3/4 in 12.00 mm	0.7500 0.4724	36.00 mm	5 in 108.00 mm	3/4 in 12 mm	OSG	34ZT42
16.00 mm	0.4724	41.00 mm	118.00 mm	16 mm	OSG	34ZT42
20.00 mm	0.0233	53.00 mm	132.00 mm	20 mm	OSG	34ZT44
25.00 mm	0.9843	60.00 mm	151.00 mm	25 mm	OSG	34ZT28
E	0.2500	3/4 in	4 in	1/4 in	KEO	12Y268
18° Point Ang	jle, Right Ha	and Cutting Dir	ection			
1/8 in	0.1250 0.3125	3∕8 in	1 1/4 in	½ in	KEO KEO	33UP25
5/16 in	0.3125	5/8 in	1 ½ in	5/16 in	KEO	33UP37
3/8 in	0.3750	1 in	2 in	3% in	KEO	33UP45
1/2 in	0.5000	1 in	2 in	½ in	KEO	33UP22
	0.5625	1 in	2 in	9/16 in	KE0	33UP64
%6 in	do Dieks II.	ana Gultina Vif	CULUII	3/8 in	KEO	12Y291
20° Point Ang	ıle. Riaht Ha	1 1/6 in			NEU	14149
20° Point Ang % in	ıle. Riaht Ha	1 1/8 in	5 /8 III	3/8 in	KFO	127202
20° Point Ang 3% in 3% in	le, Right Ha 0.3750 0.3750	1 ½ in 1 ½ in	3 1/8 in 5 in 6 in	3⁄8 in	KEO KEO KEO	12Y292
3/8 in 3/8 in 3/8 in 1/2 in	le, Right Ha 0.3750 0.3750 0.5000	1 ½ in 1 ½ in 1 ¾ in	6 in	3⁄8 in 1∕2 in	KEO	12Y292 12Y283
3/8 in 3/8 in 3/8 in 1/2 in 1/2 in	le, Right Ha 0.3750 0.3750 0.5000	1 1/8 in 1 1/8 in 1 3/8 in 1 3/8 in	6 in 8 in	3% in 1/2 in 1/2 in	KEO KEO KEO	12Y292 12Y283 12Y284
20° Point Ang 3% in 3% in 1/2 in	o.3750 0.3750 0.3750 0.5000 0.5000 0.6250	1 1/8 in 1 1/8 in 1 3/8 in 1 3/8 in 1 5/8 in 20.00 mm	6 in	3⁄8 in 1∕2 in	KEO KEO KEO	12Y292 12Y283 12Y284 12Y296 34ZT49
20° Point Ang 3% in 3% in 1½ in 1½ in 5% in	le, Right Ha 0.3750 0.3750 0.5000	1 1/8 in 1 1/8 in 1 3/8 in 1 3/8 in	6 in 8 in 9 in	3% in 1/2 in 1/2 in 5% in	KEO KEO	12Y292 12Y283 12Y284 12Y296 34ZT49 34ZT55 12Y286

For more informat	ion on Drill Bits	s, see page 2137
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MICRO 100 WILTER						
Carbide Spotting Drills		AITIN Finish, Spiral Flute, Straight Shank 45XY78				
Drill Bit Siz Bright Finis	Decimal e Equivalent sh, Spiral Flute	Flute Length	Overall Length	Shank Dia.	Brand	Ttem No.
82° Point A	ngle	3⁄4 in	2 ½ in	1/4 in		45XY6
½ in	0.5000	1 ½ in	3 in	½ in		45XY4
90° Point A 1/8 in	0.1250 0.1250	3% in	1 ½ in	1/8 in	KEO	1MBY
1/8 in 3/16 in	0.1250 0.1875	9/8 III	Z III	½ IN		45XY7 45YC3
½₁ in	0.2500	3/4 in	2 ½ in	1/4 in		45XY6
9/16 I∏ 3/s in	0.3125	3/4 in 3/4 in	2 ½ in 2 ½ in	5/16 in 3/8 in	KEO KEO	1MBZ
	0.3750 0.5000	1 in	2 ½ in	3% in	KEO	45YC5
½ III ½ in	0.5000	1 in 1 ½ in	2 in 2 ½ in 2 ½ in 2 ½ in 2 ½ in 2 ½ in 3 in 3 in	½ in ½ in		1MBZ/ 45XY5
⅓ in E	0.6250 0.2500	1 in ¾ in	3 ½ in 2 ½ in	5⁄8 in 1∕4 in	KEO KEO	1MBZ
100° Point	Angle				KLU	
1/4 in 1/2 in	0.5000	3/4 in 1 1/4 in	2 ½ in 3 in	½ in ½ in		45XY6 45XY4
120° Point	0.1250	3% in	1 ½ in	1/8 in	KEO	1MBZ
1/8 in 3/16 in	0.1250 0.1875	5/8 in 9/16 in	2 in 2 in	1/8 in 3/16 in	KE0	45XY7 1MBZ
3/8 in	0.3750	3⁄₄ in	2 ½ in	3% in	KEO	1MCA:
3⁄8 in 3∕8 in	0.2500 0.3750	3/4 in 1 in	2 ½ in 2 ½ in	1/4 in 3/8 in		45XY6 45YC5
½ in	0.5000	1 ¼ in	3 in	½ in	KE0	45XY4
½ in % in	0.6250	1 in 1 in	3 in 3 ½ in	½ in % in	KEO	1MCA:
140° Point	Angle 0.1875	3/4 in	2 in	3/16 in		45YC3
9/16 III	0.3125	1 111	2 ½ in	5∕16 in		45YE2
3% in 1/2 in	0.5000	1 in 1 ¼ in	2 ½ in 3 in	% in ½ in		45YC5 45XY4
142° Point 3/16 in	Angle 0 1875	%16 in	2 in	3/16 in	KEO	12J39
9∕8 IN	0.3750	3/4 in 1 in	2 ½ III	9/8 III	NEU	12J39
5⁄8 in 3∕4 in	0.6250 0.7500 0.2500	1 1/8 in	3 ½ in 4 in	5⁄8 in 3∕4 in	KEO KEO	12J39 12J39
E	0.2500 n, Spiral Flute	3/4 in	2 ½ in	1/4 in	KEO	12J39
90° Point A	ngle	£/ !	0 !	1/ !		AFVV7
1/8 in 3/16 in	0.1250 0.1875	5/8 in 3/4 in	2 in 2 in	⅓ in ⅓₁6 in		45XY7 45YC3
1/4 in 3/8 in	0.2500 0.3750	3/4 in 1 in	2 ½ in 2 ½ in	1/4 in 3/8 in		45XY6 45YC5
½ in	0.5000	1 1/4 in	3 in	½ in		45XY5
120° Point 1/8 in		5⁄8 in	2 in	1/8 in		45XY7
3/16 in	0.1875	3∕₄ in	2 in	3∕16 in	_	45YC2
3/8 in 3/8 in	0.2500 0.3750	3/4 in 1 in	2 ½ in 2 ½ in	3∕8 IN		45XY6 45YC5
½ in 140° Point	0.5000	1 1/4 in	3 in	½ in		45XY4
3/16 in	0.1875	3/4 in	2 in 2 ½ in 2 ½ in	3∕16 in		45YC3
1/4 in 3/8 in	0.2500 0.3750	9/4 IN 1 in	2 ½ in 2 ½ in 3 in	1/4 in 3/8 in		45XY6 45YC5
½ in	0.3750 0.5000 Spiral Flute	1 1/4 in	3 in	1/2 in		45XY4
90° Point A	ngle	2/1			1/50	
1/8 in 3/16 in	0.1250 0.1875	3/8 in 9/16 in	1 ½ in 2 in	⅓ in ⅓₁6 in	KEO KEO	12Y30 12Y30
E 120° Point	0.2500	3/4 in	2 ½ in	1/4 in	KEO	12Y29
1/8 in	0.1250	3% in	1 ½ in	1/8 in	KEO	12Y30
½ in % in	0.5000 0.6250	1 in 1 in	3 in 3 ½ in	½ in % in	KEO KEO	12Y29 33UR0
E	0.2500 inish, Spiral Flu	3/4 in	2 ½ in	1/4 in	KEO	12Y30
82° Point A	ngle		4 47 1	47.1	I/EC	001:
1/8 in 3/16 in	0.1250 0.1875	3/8 in 9/16 in	1 ½ in 2 in	1/8 in 3/16 in	KEO KEO	33UP9 33UP9
3/8 in 1/2 in	0.3750 0.5000	3/4 in 1 in	2 ½ in 2 ½ in	3⁄8 in 1∕2 in	KEO Micro 100	33UR0 16R64
½ in	0.5000	1 in	3 in	½ in	KEO	33UP9
5% in E	0.6250 0.2500	1 1/8 in 3/4 in	2 ½ in 2 ½ in	5% in 1⁄4 in	Micro 100 KEO	16R64 33UP9
90° Point A 5/16 in	ngle 0.3125	3/4 in	2 ½ in	5/16 in	Micro 100	16R62
¾ in	0.3750	1.0236 in	3 ½ in	9.5 mm	Walter Titex	49L62
½ in ½ in	0.5000 0.5000	1 in 1.1811 in	2 ½ in 4 1/64 in	½ in ½ in	Micro 100 Walter Titex	16R64 49L62
3/4 in	0.7500	1 1/8 in	2 ½ in 2 ½ in 55.00 mm	3/4 in		16R64
1 in 4.00 mm	1.0000 0.1575 0.2362	1 ¼ in 17.00 mm	∠ ½ III 55.00 mm	1 in 4 mm	Micro 100 Walter Titex Walter Titex Walter Titex Walter Titex Walter Titex	16R62 49L61
6.00 mm 10.00 mm	0.2362	20.00 mm 31.00 mm	66.00 mm 89.00 mm	6 mm 10 mm	Walter Titex Walter Titey	49L61 49L62
E	0.3937 0.2500	31.00 mm 0.7087 in	70.00 mm	1/4 in	Walter Titex	49L62
E 100° Point	0.2500 Angle	3/4 in	2 ½ in	1/4 in	Micro 100	16R62
3/8 in 1/2 in	0.3750 0.5000	1 in 1 in	2 ½ in 2 ½ in	3% in 1∕2 in	Micro 100 Micro 100	16R63 16R64
3/4 in	0.7500	1 1/8 in	2 ½ in	3/4 in	Micro 100	16R65
E 120° Point	0.2500 Angle	3/4 in	2 ½ in	1/4 in	Micro 100	16R62
	0.3750	1.0236 in	3 ½ in	9.5 mm	Walter Titex	49L63
3⁄8 in	0.5000		2 1/5 in	1/5 in		
3/8 in 1/2 in 3/4 in 3.00 mm	0.3750 0.5000 0.7500 0.1181	1 in 1 1/8 in 12.50 mm	2 ½ in 2 ½ in 46.00 mm	½ in ¾ in 3 mm	Micro 100 Micro 100 Walter Titex	16R64 16R65 49L62