









Tree - Pointed (SG)

Tree - Radius (SF)

Carbide Burs

Ma	Dia	Length of Cut	Shank Size	Overall Length	Max. Speed	Sing Brand	le Cut Item No.	Dou Brand	ble Cut Item No.
SE-1 SE-1 SE-1 SE-3 SE-3 SE-3	1/4"	3/8 in	1/4"	2 in	65,000 RPM		22XZ11	_	22YC15
SE-1	1/4" 1/4"	3/8 in 3/8 in	1/4"	2 in 2 in 2 % in	30,000 RPM		+=-	Widia	2RPU7 19D860
SF-3	3/8"	5/8 in	1/4"	2 3% in	30,000 NFIVI		$\pm \equiv -$	Widia	1Z399
SE-3	3/8"	⅓ in	1/4"	21/8 in	60,000 RPM	_	22XZ12	-	22YC16
SE-3	3/8"	5∕8 in	1/4"	211/32 in	60,000 RPM 40,000 RPM			_	19D863
SE-5 SE-5 SE-5		1 in	1/4" 1/4"	2 ¾ in 2 ⅓ in		Widia	6KJJ0 †	Widia	1Z401
SF-5	1/2"	7/8 in 7/8 in	1/4"	25/8 in	50,000 RPM		22XZ13	vviula —	22YC17
SE-5	1/2"	7∕8 in	1/4"	2- 1/8 in	40,000 RPM	_	19D709	_	19D859
SF-6	5/8"	1 in	1/4" 1/4"	2¾ in	50 000 RPM		22XZ14		22YC18
SE-6 SE-7	5/8" 3/4"	1 in	1/4"	2- ¾ in 2¾ in	25,000 RPM		22V716		19D866 22YC20
SE-7 SE-7	3/4"	1 in 1 in	1/4"	2-3/4 in	35,000 RPM 20,000 RPM		22XZ16 19D715		19D865
SE-11	3/16"	5∕16 in	1/4"	2- ³ / ₄ in 2 in	75,000 RPM	_	22YE08 *		22YE09
SE-41	1/8"	7∕32 in	1/8"	1 ½ in	_	_	_	Widia	2RPU5
SE-41 SE-41	1/8"	7∕32 in	1/8"	1½ in	90,000 RPM 70,000 RPM		22XZ06 *		22YC10
SE-51	1/8" 1/4"	⅓₂ in ¾₃ in	1/8"	1½ in 1¾ in	70,000 KPIVI		+=-	Widia	19D862 2RPU6
SE-51	1/4"	3/8 in	1/8"	11//s in	65,000 RPM		22XZ10 *	- vvidia	22YC14
SE-51 SE-53	3/16"	9∕32 in	1/8"	1 ½ in	_	_	_	Widia	6KJN6
SE-53	3/16"	9∕32 in	1/8"	111/16 in	75,000 RPM		22XZ08 *		22YC12
Iame SH-1	1/4"	5/8 in	1/4"	2 in	65,000 RPM		22XZ54 *	_	22YC59
SH-2	5/16"	3/4 in	1/4"	2 1/2 in	-	Widia	6KJG3		
SH-2 SH-5	5/16"	3/4 in	1/4"	2½ in 3 in	60,000 RPM		22XZ50 22XZ51	_	22YC55
SH-5	1/2"	11/4 in	1/4" 1/4"	3 in	50,000 RPM		22XZ51	Widia	22YC56
5H-5	1/2"	1 ¼ in	1/4"	3 in 3 in	40 000 RPM		19D735	vviula	2RPV2 19D911
SH-5 SH-5 SH-6	5/8"	11/4 in 17/16 in	1/4"	3¾16 in	40,000 RPM 50,000 RPM		22XZ52		22YC57
SH-7	3/4"	15% in	1/4"	3¾6 in 2¾ in	35,000 RPM	_	22XZ53	_	_
SH-7 H-41	3/4" 1/8"	15% in	1/4"	Z 72 III	35,000 RPM		2RPY7 *		22YC58
H-41	1/8"	1/4 in 1/4 in	1/8"	1 ½ in 1½ in	90,000 RPM	Widia	22XZ48 *	Widia	1Z296 22YC53
H-53	3/16"	3/8 in	1/8"	1 ½ in	-	Widia	6KJG2 *		
H-53 H-53	3/16"	3/8 in	1/8"	111/16 in	75,000 RPM		22XZ49 *		22YC54
iverted	1/4"	5∕16 in	1/4"	2 in	65,000 RPM		22YA03 *		22YD08
SN-1 SN-2	3/8"	3/8 in	1/4"	21/8 in	65,000 RPM		22YA07		22YD12
SN-4	1/2"	½ in	1/4"	21/4 in	65,000 RPM	_	22YA04	_	22YD09
SN-6	5/8"	3/4 in	1/4"	2½ in	65,000 RPM		22YA05	_	22YD10
SN-7 SN-41	3/4" 3/32"	5/8 in 1/8 in	1/4"	2% in 1½ in	65,000 RPM 70,000 RPM		22YA06 19D786		22YD11
N-41	3/32"	1/8 in	1/8"	1½ in	90,000 RPM		22XZ97 *		22YD03
N-42	1/8"	3∕16 in	1/8"	1½ in	90,000 RPM	_	22XZ98 *	_	22YD04
N-42	1/8"	3∕16 in	1/8"	1½ in	70,000 RPM				19D929
N-51 N-53	1/4" 3/16"	1/4 in 1/4 in	1/8"	1¾ in 11½6 in	90,000 RPM 90,000 RPM	=	22YA02 * 22XZ99 *		22YD07 22YD05
ointed				1 /10 111	30,000 111 101		LLKLJJ		LLIDOO
SM-1 SM-1	1/4"	½ in	1/4"	2 in				Widia	2RPV7
SM-1 SM-1	1/4"	½ IN	1/4"	2 in 2 in	30,000 RPM		227700 *		19D901
M-2	1/4"	½ in ¾ in	1/4"	2 III 2 in	65,000 RPM 65,000 RPM		22XZ90 * 22XZ91 *		22YC95 22YC96
SM-2 SM-2	1/4"	3/4 in	1/4"	2 in 2 in		Widia	2RPY8	Widia	1Z386
M-2	1/4"	3/4 in	1/4"	2 in	30,000 RPM	_	_	_	19D902
M-3 M-3	1/4" 1/4"	1 in	1/4"	2 in	CE 000 DDM		227702 *	Widia	2RPV8 22YC97
M-3	1/4"	1 in 1 in	1/4"	2 in	65,000 RPM 40,000 RPM		22XZ92 *		19D903
M-4	3/8"	5/8 in	1/4"	2 in 2 ½ in				Widia	1Z390
SM-4	3/8"	5∕8 in	1/4"	23/8 in	60,000 RPM	_	22XZ93	_	22YC98
M-4	3/8"	5/8 in	1/4" 1/4"	2½ in 2¾ in	40,000 RPM		19D745		19D908
M-5 M-5	1/2"	7/8 in 7/8 in	1/4"	2 % in	50,000 RPM	Widia	2RPZ1 22XZ94	Widia	1Z392 22YC99
M-5	1/2"	7/8 in	1/4"	2¾ in	40,000 RPM	_			19D899
M-6	5/8"	1 in	1/4"	2 1/8 in		_		Widia	6KJP9
M-6	5/8"	1 in	1/4"	2¾ in	50,000 RPM		22XZ95		22YD01
M-6 M-41	5/8" 1/8"	1 in 3% in	1/4"	2½ in 1½ in	25,000 RPM		19D747	Widia	19D909 2RPV3
M-41 M-41	1/8"	3/8 in	1/8"	1½ in	70,000 RPM		19D742 *	- vvidia	_
M-41	1/8"	11/32 in	1/8"	1½ in	90,000 RPM		22Y782 *		22YC88
M-42 M-42	1/8"	7∕16 in 7∕16 in	1/8"	1 ½ in 1½ in	90,000 RPM	Widia	6KJG9 * 22XZ84 *	Widia	1Z304 22YC89
M-43	1/8"	5/8 in	1/8"	1 ½ in		Widia	6KJH0 *	Widia	2RPV5
M-43	1/8"	5/8 in	1/8"	1½ in 1½ in	90,000 RPM		22XZ87 *	_	22YC92 2RPV6
M-51	1/4"	1/2 in	1/8"	1 % in	_	_	_	Widia	2RPV6
IVI-51	1/4" 1/4"	1/2 in	1/8" 1/8"	2 in	65,000 RPM		22XZ89 *		22YC94
M-43 M-51 M-51 M-51 M-53	3/16"	½ in ½ in	1/8"	2 in 11½16 in	40,000 RPM 75,000 RPM		22XZ88 *		19D904 22YC93
aper - F	Radius				2,223 111 181				
SL-1 SL-1	1/4" 1/4"	5/8 in	1/4" 1/4"	2 in	20.000.004	_	_	Widia	6KJP6
SL-1	1/4"	5/8 in 5/8 in	1/4"	2 in 2 in	30,000 RPM 65,000 RPM		22XZ75 *		19D918 22YC80
SL-1 SL-2 SL-2	5/16"	7/8 in	1/4" 1/4"	2 ¾ in				Widia	6KJP7
	5/16"	7∕8 in		25% in	60.000 RPM				

. .	0	1 "	01-	0 "	Me	Single Cut		Double Cut	
Trade No.	Cutter Dia.	Length of Cut	Shank Size	Overall Length	Max. Speed	Brand	Item No.	Brand	Item No.
SL-2	5/16"	⅓ in	1/4"	23/4 in	40,000 RPM			_	19D919
SL-3	3/8" 3/8"	1 15/16 in	1/4"	2 15/16 in 2 13/16 in			22XZ77	Widia	5ET16 * 22YC82
SL-3 SL-3	3/8"	1½6 in 1½6 in	1/4"	215/16 in	60,000 RPM 40,000 RPM		19D774		19D920
SL-4	1/5"	11/8 in	1/4"	2% in	50,000 RPM	_	22XZ78	_	22YC83
SL-4	1/2"	1 1/8 in	1/4"	3 in		Widia	6KJJ3 †		_
SL-4	1/2"	1 1/4 in 11/8 in	1/4" 1/4"	3 in	40 000 DDM			Widia	5ET18 *
SL-4 SL-5	5/8"	1 1/8 III 13/16 in	1/4"	31/32 in 215/16 in	40,000 RPM 50,000 RPM		22XZ80		19D921 22YC85
SL-6	5/8"	1 5/16 in	1/4"	3 3/16 in				Widia	6KJP8
SL-6	5/8"	15/16 in	1/4"	31/16 in	50,000 RPM				22YC74
SL-6 SL-6	5/8" 5/8"	15/16 in	1/4" 1/4"	33/16 in 33/16 in	50,000 RPM	=	22XZ69	=	100024
SL-7	3/4"	15/16 in 11/2 in	1/4"	31/4 in	25,000 RPM 35,000 RPM		22XZ81		19D924
SL-7	3/4"	1½ in	1/4"	31/4 in	50.000 RPM				22YC86
SL-7 SL-7	3/4"	1½ in	1/4"	31/4 in 33/8 in	20,000 RPM				19D925
SL-41 SL-41	1/8"	3/8 in	1/8" 1/8"	1 ½ in 1½ in				Widia	6KJP4 * 22YC75 *
SL-41	1/8"	3/8 in 1/2 in	78 1/8"	1 ½ in	90,000 RPM	Widia	22XZ70 * 6KJG5 *	Widia	6K.IP5 *
SL-42	1/9"	½ in	1/8"	1½ in	90.000 RPM	-	22XZ71 *	-	6KJP5 * 22YC76 *
SL-53	3/16"	½ in	1/8"	111/16 in	75,000 RPM		22XZ73 *	_	22YC78 *
Tree - P	ointed	6/ !	1/4"	0 :	CE 000 DDM		007700 +		000040 +
SG-1 SG-1	1/4" 1/4"	5⁄8 in 5∕8 in	1/4"	2 in 2 in	65,000 RPM	Widia	22XZ38 * 6KJF9	Widia	22YC42 * 1Z378
SG-1	1/4"	5/8 in	1/4" 1/4"	2 in	30,000 RPM	- vviuia	19D753	- vviuia	19D880
SG-2	5/16"	3/4 in	1/4"	2½ in	65,000 RPM		22XZ39	_	22YC43
SG-3 SG-3	3/8"	3/4 in	1/4" 1/4"	2 ½ in				Widia	6KJP1
SG-3	3/8"	3/4 in 3/4 in	1/4"	2½ in 2½ in	65,000 RPM 40,000 RPM		22XZ40 19D758		22YC44 19D885
SG-5	1/2"	1 in	1/4"	2 ¾ in	40,000 III W		-	Widia	1Z382
SG-5	1/2"	1 in	1/4"	2¾ in	65,000 RPM	_	22XZ42	_	22YC46
SG-5	1/2"	1 in	1/4"	2- 3/4 in	40,000 RPM				19D891
SG-6 SG-6	5/8" 5/8"	1 in 1 in	1/4" 1/4"	2¾ in 2- ¾ in	65,000 RPM 25,000 RPM		22XZ43 19D768		22YC47
SG-7	3/4"	1 in	1/4"	2¾ in	65,000 RPM		22XZ44		22YC48
SG-13	1/2"	3/4 in	1/4"	2½ in	65,000 RPM	=	22XZ41	_	22YC45
SG-13	1/2"	3/4 in	1/4"	2½ in	40,000 RPM		19D754		
SG-15	3/4" 3/4"	1½ in 1½ in	1/4" 1/4"	31/4 in	65,000 RPM 20,000 RPM		22XZ45 19D755		22YC49
SG-15 SG-41	1/8"	1/4 in	1/8"	3¼ in 1½ in			- 130733	Widia	6KJN9 *
SG-41	1/8"	1/4 in	1/8"	1½ in	90,000 RPM		22XZ32 *	_	22YC36 *
SG-41 SG-42	1/8"	1/4 in	1/8"	1½ in	70,000 RPM 90,000 RPM		19D760 *	_	_
SG-42 SG-42	1/8"	5/16 in 5/16 in	1/8"	1½ in 1½ in	70,000 RPM		22XZ33 * 19D761 *		22YC37 *
SG-43	1/8"	3/8 in	1/6"	1 ½ in	70,000 IN IVI	Widia	6KJF6 *		
SG-43 SG-43	1/8"	3⁄8 in	1/8"	1½ in	90,000 RPM	_	22XZ34 *		22YC38 *
SG-44	1/8"	½ in	1/8"	1 ½ in		Widia	6KJF7 *	Widia	6KJP0 *
SG-44 SG-51	1/8" 3/16"	½ in ½ in	1/8"	1½ in 1½ in	90,000 RPM 40,000 RPM		22XZ46 * 19D766		22YC50 *
SG-51	1/4"	½ in	1/8"	2 in	90,000 RPM		22XZ37 *		22YC41 *
SG-51 SG-53	1/4"	½ in	1/8"	2 in	40,000 RPM	_	_	_	19D892
SG-53	3/16"	½ in	1/8"	1½ in	90,000 RPM		22XZ35 *		22YC39 *
Tree - R SF-1	adius 1/4"	5⁄8 in	1/4"	2 in	30 000 DDM		100712		19D867
SF-1	1/4"	5/8 in	1/4"	2 in	30,000 RPM		19D718	Widia	1Z366
SF-1	1/4"	5⁄8 in	1/4"	2 in	65,000 RPM	_	22XZ23 *	_	22YC27 *
SF-3	3/8"	3/4 in	1/4"	2 ½ in		Widia	6KJJ1 †		
SF-3 SF-3	3/8" 3/8"	3/4 in 3/4 in	1/4" 1/4"	2 ½ in 2½ in	65,000 RPM	Widia	2RPY5 22XZ24	Widia	1Z368 22YC28
SF-3	3/8"	3/4 in	1/4"	2½ in	40,000 RPM		19D722		19D871
SF-4	7/16"	1 in	1/4"	23/16 in	65,000 RPM	_	22XZ25		22YC29
SF-5	1/2"	1 in	1/4"	2 ¾ in		Widia	6KJJ2 †	Widia	1Z372
SF-5 SF-5	1/2"	1 in 1 in	1/4" 1/4"	2¾ in 2-¾ in	65,000 RPM		22XZ27 19D726		22YC31 19D875
SF-6	5/8"	1 in	1/4"	2 3/4 in	40,000 RPM		190720	Widia	1Z374 *
SF-6	5/8"	1 in	1/4"	23/4 in	65,000 RPM		22XZ28	-	22YC32
SF-6	5/8"	1 in	1/4"	2- 3/4 in	25,000 RPM		19D729		
SF-7 SF-7	3/4" 3/4"	1 in	1/4"	2 ¾ in			22XZ29	Widia	6KJN8
SF-7 SF-11	1/8"	1 in ½ in	1/4"	2¾ in 2 in	65,000 RPM 65,000 RPM		22XZ19 *	_=	22YC33 22YC23 *
	1/5"	3/4 in	1/4"	2 ½ in	— US,000 III W		- LEKETS	Widia	6KJN7
SF-13	1/5"	3/4 in	1/4"	2½ in	40,000 RPM	_	19D719		_
SF-13		3∕4 in	1/4"	2½ in	65,000 RPM		22XZ26		22YC30
SF-13 SF-13	1/2"		74	3 in	65,000 RPM 20,000 RPM		22XZ30		22YC34 19D869
SF-13 SF-13 SF-14	3/4"	11/4 in	1/4"					_	120003
SF-13 SF-13	3/4" 3/4" 3/4"	1 1/4 in 11/4 in 11/2 in	1/4" 1/4"	3 in 3¼ in	20,000 RPM		_		19D870
SF-13 SF-14 SF-14 SF-15 SF-15	3/4" 3/4" 3/4" 3/4"	1½ in 1½ in 1½ in	1/4" 1/4"	31/4 in 31/2 in	20,000 RPM 65,000 RPM		 22XZ31		22YC35
SF-13 SF-14 SF-14 SF-15 SF-15	3/4" 3/4" 3/4" 3/4" 1/8"	11/4 in 11/2 in 11/2 in 11/4 in	1/4" 1/4" 1/8"	31/4 in 31/2 in 11/2 in	20,000 RPM 65,000 RPM	— Widia	2RPY3 *	— Widia	22YC35 1Z306 *
SF-13 SF-14 SF-14 SF-15 SF-15 SF-41 SF-41	3/4" 3/4" 3/4" 3/4" 1/8"	1½ in 1½ in 1½ in ½ in ¼ in	1/4" 1/4" 1/8"	3½ in 3½ in 1½ in 1½ in	20,000 RPM	Widia	2RPY3 * 22XZ17 *	_	22YC35 1Z306 * 22YC21 *
SF-13 SF-14 SF-14 SF-15 SF-15 SF-15 SF-41 SF-41 SF-42	3/4" 3/4" 3/4" 3/4" 1/8" 1/8" 1/8"	1½ in 1½ in 1½ in ½ in ¼ in ½ in	1/4" 1/4" 1/8" 1/8" 1/8"	3½ in 3½ in 1½ in 1½ in 1½ in 1½ in	20,000 RPM 65,000 RPM — 90,000 RPM		2RPY3 * 22XZ17 * 6KJF3 *	Widia — Widia	22YC35 1Z306 * 22YC21 * 2RPU9 *
SF-13 SF-14 SF-14 SF-15 SF-15 SF-41 SF-41 SF-42 SF-42 SF-51	3/4" 3/4" 3/4" 3/4" 1/8" 1/8" 1/8" 1/8" 1/8"	1¼ in 1½ in 1½ in 1½ in ¼ in ½ in ½ in ½ in	1/4" 1/4" 1/8" 1/8" 1/8" 1/8"	3¼ in 3½ in 1½ in 1½ in 1½ in 1½ in 1½ in 1¾ in	20,000 RPM 65,000 RPM 	Widia	2RPY3 * 22XZ17 * 6KJF3 * 22XZ18 * 6KJF4	_	22YC35 1Z306 * 22YC21 * 2RPU9 * 22YC22 *
SF-13 SF-14 SF-14 SF-15 SF-15 SF-15 SF-41 SF-41 SF-42	3/4" 3/4" 3/4" 3/4" 1/8" 1/8" 1/8"	1½ in 1½ in 1½ in ½ in ¼ in ½ in ½ in	1/4" 1/4" 1/8" 1/8" 1/8" 1/8"	3½ in 3½ in 1½ in 1½ in 1½ in 1½ in	20,000 RPM 65,000 RPM — 90,000 RPM	Widia Widia	2RPY3 * 22XZ17 * 6KJF3 * 22XZ18 *	Widia	22YC35 1Z306 * 22YC21 * 2RPU9 * 22YC22 *

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