

carbide **BURS**



Made in USA



carbide BURS

GROBET BEAR BURS These double cut burs were designed to substantially cut manufacturers production costs. The design and cut removes more material per hour, engineered for heavy duty applications, more durable due to the depth of the teeth, more resistant to chipping, wider teeth makes longer chips so it breaks up easier, and the profile of the teeth are less prone to filling up with chips.

CYLINDER PLAIN



Head Dia.	Head Length	Overall Length	Shank	SCTI	Bear Cut	Description
1/4"	5/8"	2"	1/4"	SA1	32.546SY	Cyl/Plain
3/8"	3/4"	2 1/2"	1/4"	SA3	32.552SY	Cyl/Plain
7/16"	1"	2 3/4"	1/4"	SA4	32.55320SY	Cyl/Plain
* 1/2"	1"	2 3/4"	1/4"	SA5	32.555SY	Cyl/Plain
5/8"	1"	2 3/4"	1/4"	SA6	32.558SY	Cyl/Plain



* = Tools in kit

CYLINDER RADIUS



Head Dia.	Head Length	Overall Length	Shank	SCTI	Bear Cut	Description
3/8"	3/4"	2 1/2"	1/4"	SC3	32.618SY	Cyl/Radius
7/16"	1"	2 3/4"	1/4"	SC4	32.61912SY	Cyl/Radius
* 1/2"	1"	2 3/4"	1/4"	SC5	32.621SY	Cyl/Radius
5/8"	1"	2 3/4"	1/4"	SC6	32.624SY	Cyl/Radius

1/4" SHANK GROBET BEAR BURS

Consists of eight 1/4" shank rotary files in a wood box: 32.693SY, 32.726SY, 32.621SY, 32.555SY, 32.708SY, 32.705SY, 32.729SY, 32.666SY. Wood case measures 3 3/16" x 3 3/16" x 3 3/8". **No. 32.931SY**

CONE POINTED



Head Dia.	Head Length	Overall Length	Shank	SCTI	Bear Cut	Description
3/8"	3/4"	2 1/2"	1/4"	SM4	32.747SY	28° Angle
1/2"	1"	2 3/4"	1/4"	SM5	32.750SY	28° Angle
5/8"	1 1/8"	2 7/8"	1/4"	SM6	32.753SY	31° Angle

TREE RADIUS



Head Dia. (1/4" Shank)	Head Length	Overall Length	Shank	SCTI	Bear Cut	Description
* 3/8"	3/4"	2 1/2"	1/4"	SF3	32.705SY	Tree/Radius
7/16"	1"	2 3/4"	1/4"	SF4	32.70602SY	Tree/Radius
1/2"	3/4"	2 1/2"	1/4"	SF13	32.70610SY	Tree/Radius
* 1/2"	1"	2 3/4"	1/4"	SF5	32.708SY	Tree/Radius
5/8"	1"	2 3/4"	1/4"	SF6	32.711SY	Tree/Radius

OVAL



Head Dia.	Head Length	Overall Length	Shank	SCTI	Bear Cut	Description
3/8"	19/32"	2 11/32"	1/4"	SE3	32.663SY	Oval
* 1/2"	7/8"	2 5/8"	1/4"	SE5	32.666SY	Oval
5/8"	1"	2 3/4"	1/4"	SE6	32.669SY	Oval

TREE POINTED



Head Dia.	Head Length	Overall Length	Shank	SCTI	Bear Cut	Description
3/8"	3/4"	2 1/2"	1/4"	SG3	32.687SY	Tree/Pointed
1/2"	3/4"	2 1/2"	1/4"	SG13	32.690SY	Tree/Pointed
* 1/2"	1"	2 3/4"	1/4"	SG5	32.693SY	Tree/Pointed
5/8"	1"	2 3/4"	1/4"	SG6	32.696SY	Tree/Pointed

CONE RADIUS



Head Dia.	Head Length	Overall Length	Shank	SCTI	Bear Cut	Description
* 3/8"	1 1/16"	2 13/16"	1/4"	SL3	32.726SY	Cone/Radius
* 1/2"	1 1/8"	2 7/8"	1/4"	SL4	32.729SY	Cone/Radius
5/8"	1 3/16"	2 15/16"	1/4"	SL5	32.73002SY	Cone/Radius
5/8"	1 5/16"	3 1/16"	1/4"	SL6	32.732SY	Cone/Radius

BALL



Head Dia.	Head Length	Overall Length	Shank	SCTI	Bear Cut	Description
3/8"	5/16"	2 1/16"	1/4"	SD3	32.645SY	Ball
7/16"	3/8"	2 1/8"	1/4"	SD4	32.64602SY	Ball
1/2"	7/16"	2 3/16"	1/4"	SD5	32.648SY	Ball
5/8"	9/16"	2 5/16"	1/4"	SD6	32.651SY	Ball

* = Tools in kit

CYLINDRICAL - Plain end



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/8"	1/2"	2"	1/4"	SA11	32.540	32.541
1/8"	5/8"	2"	1/4"	SA12	32.54102	32.54103
5/32"	5/8"	2"	1/4"	SA13	32.54110	32.54111
3/16"	5/8"	2"	1/4"	SA14	32.543	32.544
1/4"	5/8"	2"	1/4"	SA1	32.546	32.547
1/4"	1"	2"	1/4"	SA1L	32.54702	32.54703
5/16"	3/4"	2 1/2"	1/4"	SA2	32.549	32.550
3/8"	3/4"	2 1/2"	1/4"	SA3	32.552	32.553
3/8"	1"	2 3/4"	1/4"	SA3L	32.55302	32.55303
3/8"	1 1/2"	3 1/4"	1/4"	SA3X	32.55310	32.55311
7/16"	1"	2 3/4"	1/4"	SA4	32.55320	32.55321
1/2"	1"	2 3/4"	1/4"	SA5	32.555	32.556
5/8"	1"	2 3/4"	1/4"	SA6	32.558	32.559
3/4"	1 1/2"	2 1/4"	1/4"	SA15	32.55902	32.55903
3/4"	3/4"	2 1/2"	1/4"	SA16	32.561	32.562
3/4"	1"	2 3/4"	1/4"	SA7	32.564	32.565
7/8"	1"	2 3/4"	1/4"	SA8	32.56502	32.56503
1"	1"	2 3/4"	1/4"	SA9	32.567	32.568

CYLINDRICAL - End cut



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/8"	1/2"	2"	1/4"	SB11	32.573	32.574
1/8"	5/8"	2"	1/4"	SB12	32.57402	32.57403
5/32"	5/8"	2"	1/4"	SB13	32.57410	32.57411
3/16"	5/8"	2"	1/4"	SB14	32.576	32.577
1/4"	5/8"	2"	1/4"	SB1	32.579	32.580
1/4"	1"	2"	1/4"	SB1L	32.58002	32.58003
5/16"	3/4"	2 1/2"	1/4"	SB2	32.582	32.583
3/8"	3/4"	2 1/2"	1/4"	SB3	32.585	32.586
3/8"	1"	2 3/4"	1/4"	SB3L	32.58602	32.58603
3/8"	1 1/2"	3 1/4"	1/4"	SB3X	32.58611	32.58612
7/16"	1"	2 3/4"	1/4"	SB4	32.58621	32.58622
1/2"	1"	2 3/4"	1/4"	SB5	32.588	32.589
5/8"	1"	2 3/4"	1/4"	SB6	32.591	32.592
3/4"	1 1/2"	2 1/4"	1/4"	SB15	32.59202	32.59203
3/4"	3/4"	2 1/2"	1/4"	SB16	32.594	32.595
3/4"	1"	2 3/4"	1/4"	SB7	32.597	32.598
7/8"	1"	2 3/4"	1/4"	SB8	32.59802	32.59803
1"	1"	2 3/4"	1/4"	SB9	32.600	32.601

CYLINDRICAL - Radius end



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/8"	1/2"	2"	1/4"	SC11	32.606	32.607
1/8"	5/8"	2"	1/4"	SC12	32.60702	32.60703
5/32"	5/8"	2"	1/4"	SC13	32.60710	32.60711
3/16"	5/8"	2"	1/4"	SC14	32.609	32.610
1/4"	5/8"	2"	1/4"	SC1	32.612	32.613
1/4"	1"	2"	1/4"	SC1L	32.61302	32.61303
5/16"	3/4"	2 1/2"	1/4"	SC2	32.615	32.616
3/8"	3/4"	2 1/2"	1/4"	SC3	32.618	32.619
3/8"	1"	2 3/4"	1/4"	SC3L	32.61902	32.61903
3/8"	1 1/2"	3 1/4"	1/4"	SC3X	32.61910	32.61911
7/16"	1"	2 3/4"	1/4"	SC4	32.61912	32.61913
1/2"	1"	2 3/4"	1/4"	SC5	32.621	32.622
5/8"	1"	2 3/4"	1/4"	SC6	32.624	32.625
3/4"	1 1/2"	2 1/4"	1/4"	SC15	32.62502	32.62503
3/4"	3/4"	2 1/2"	1/4"	SC16	32.62510	32.62511
3/4"	1"	2 3/4"	1/4"	SC7	32.627	32.628
1"	1"	2 3/4"	1/4"	SC9	32.62802	32.62803

BALL



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/8"	1/8"	2"	1/4"	SD11	32.633	32.634
3/16"	1/4"	2"	1/4"	SD14	32.636	32.637
1/4"	7/32"	2"	1/4"	SD1	32.639	32.640
5/16"	5/16"	2 1/16"	1/4"	SD2	32.642	32.644
3/8"	5/16"	2 1/16"	1/4"	SD3	32.645	32.646
7/16"	3/8"	2 1/8"	1/4"	SD4	32.64602	32.64603
1/2"	7/16"	2 3/16"	1/4"	SD5	32.648	32.649
5/8"	9/16"	2 5/16"	1/4"	SD6	32.651	32.652
3/4"	1 1/16"	2 7/16"	1/4"	SD7	32.654	32.655
1"	1 5/16"	2 11/16"	1/4"	SD9	32.65502	32.65503

carbide BURS

CONE - Radius nose 14° taper



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/4"	5/8"	2"	1/4"	SL1	32.720	32.721
5/16"	7/8"	2 5/8"	1/4"	SL2	32.723	32.724
3/8"	1 1/16"	2 3/4"	1/4"	SL3	32.726	32.727
1/2"	1 1/8"	2 7/8"	1/4"	SL4	32.729	32.730
5/8"	1 3/16"	2 5/4"	1/4"	SL5	32.73002	32.73003
5/8"	1 5/16"	3 1/16"	1/4"	SL6	32.732	32.733
3/4"	1 1/2"	3 1/4"	1/4"	SL7	32.73302	32.73303

CONE



Head Dia.	Head Length	Overall Length	Angle	Shank	SCTI	Standard	Double Cut
1/4"	1/2"	2"	22°	1/4"	SM1	32.738	32.739
1/4"	3/4"	2"	14°	1/4"	SM2	32.741	32.742
1/4"	1"	2"	12°	1/4"	SM3	32.744	32.745
3/8"	3/4"	2 1/2"	28°	1/4"	SM4	32.747	32.748
1/2"	1"	2 3/4"	28°	1/4"	SM5	32.750	32.751
5/8"	1 1/8"	2 7/8"	31°	1/4"	SM6	32.753	32.754

TREE RADIUS



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/4"	1/2"	2"	1/4"	SF11	32.70102	32.70103
1/4"	5/8"	2"	1/4"	SF1	32.702	32.703
3/8"	3/4"	2 1/2"	1/4"	SF3	32.705	32.706
7/16"	1"	2 3/4"	1/4"	SF4	32.70602	32.70603
1/2"	3/4"	2 1/2"	1/4"	SF13	32.70610	32.70611
1/2"	1"	2 3/4"	1/4"	SF5	32.708	32.709
5/8"	1"	2 3/4"	1/4"	SF6	32.711	32.712
3/4"	1"	2 3/4"	1/4"	SF7	32.71202	32.71203
3/4"	1 1/4"	3"	1/4"	SF14	32.714	32.715
3/4"	1 1/2"	3 1/4"	1/4"	SF15	32.71502	32.71503

TREE POINTED



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/4"	5/8"	2"	1/4"	SG1	32.684	32.685
5/16"	3/4"	2 1/2"	1/4"	SG2	32.68502	32.68503
3/8"	3/4"	2 1/2"	1/4"	SG3	32.687	32.688
1/2"	3/4"	2 1/2"	1/4"	SG13	32.690	32.691
1/2"	1"	2 3/4"	1/4"	SG5	32.693	32.694
5/8"	1"	2 3/4"	1/4"	SG6	32.696	32.697
3/4"	1"	2 3/4"	1/4"	SG7	32.69702	32.69703
3/4"	1 1/2"	3 1/4"	1/4"	SG15	32.69710	32.69711

OVAL



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
3/16"	5/16"	2"	1/4"	SE11	32.65902	32.65903
1/4"	3/8"	2"	1/4"	SE1	32.660	32.661
3/8"	19/32"	2 11/32"	1/4"	SE3	32.663	32.664
1/2"	7/8"	2 5/8"	1/4"	SE5	32.666	32.667
5/8"	1"	2 3/4"	1/4"	SE6	32.669	32.670
3/4"	1"	2 3/4"	1/4"	SE7	32.67002	32.67003

INVERTED CONE - Plain end



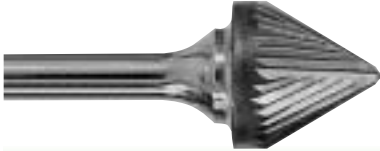
Head Dia.	Head Length	Overall Length	Angle	Shank	SCTI	Standard	Double Cut
1/4"	1/4"	2"	10°	1/4"	SN1	32.759	32.760
3/8"	3/8"	2 1/8"	13°	1/4"	SN2	32.761	32.76102
1/2"	1/2"	2 1/2"	14°	1/4"	SN4	32.762	32.763
5/8"	3/4"	2 1/2"	18°	1/4"	SN6	32.76302	32.76303
3/4"	5/8"	2 5/8"	30°	1/4"	SN7	32.76310	32.76311

INVERTED CONE - End cut



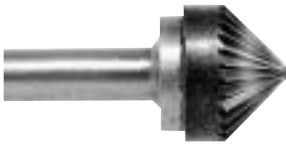
Head Dia.	Head Length	Overall Length	Angle	Shank	SCTI	Standard	Double Cut
1/4"	1/4"	2"	10°	1/4"	SN1	32.768	32.769
1/2"	1/2"	2 1/2"	14°	1/4"	SN4	32.771	32.772

DEBURRING 60°



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/4"	3/16"	2"	1/4"	SJ1	32.777	32.778
3/8"	5/16"	2 1/16"	1/4"	SJ3	32.780	32.781
1/2"	7/16"	2 3/16"	1/4"	SJ5	32.783	32.784
5/8"	9/16"	2 5/16"	1/4"	SJ6	32.78402	32.78403
3/4"	1 1/16"	2 7/16"	1/4"	SJ7	32.78410	32.78411
1"	1 5/16"	2 1 1/16"	1/4"	SJ9	32.78420	32.78421

DEBURRING 90°



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/4"	1/8"	2"	1/4"	SK1	32.789	32.790
3/8"	3/16"	1 15/16"	1/4"	SK3	32.792	32.793
1/2"	1/4"	2"	1/4"	SK5	32.795	32.796
5/8"	5/16"	2 1/16"	1/4"	SK6	32.798	32.799
3/4"	3/8"	2 1/8"	1/4"	SK7	32.801	32.802
1"	1/2"	2 1/4"	1/4"	SK9	32.804	32.805

FLAME



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/4"	5/8"	2"	1/4"	SH1	32.673	32.674
5/16"	3/4"	2 1/2"	1/4"	SH2	32.675	32.676
1/2"	1 1/4"	3"	1/4"	SH5	32.678	32.679
5/8"	1 1/16"	3 3/16"	1/4"	SH6	32.67902	32.67903
3/4"	1 5/8"	3 3/8"	1/4"	SH7	32.67910	32.67911

CARBIDE SETS



1/4" SHANK - No. 32.924

Consists of eight standard cut 1/4" shank rotary files in a wood box: 32.555, 32.612, 32.618, 32.645, 32.666, 32.684, 32.708, 32.795. Wood case measures 3 3/16" x 3 3/16" x 3 3/8".

1/4" SHANK - No. 32.925

Consists of eight double cut 1/4" shank rotary files in a wood box: 32.556, 32.613, 32.619, 32.646, 32.667, 32.685, 32.709, 32.796. Wood case measures 3 3/16" x 3 3/16" x 3 3/8".



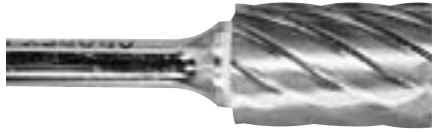
1/8" SHANK - No. 32.926 - Consists of twelve standard cut 1/8" shank rotary files in a wood box: 32.835, 32.838, 32.847, 32.850, 32.856, 32.859, 32.883, 32.895, 32.898, 32.904, 32.907, 32.910. Wood case measures 3 5/8" x 2 5/8" x 2 1/8".

1/8" SHANK - No. 32.929 - Consists of twelve double cut 1/8" shank rotary files in a wood box: 32.836, 32.839, 32.848, 32.851, 32.857, 32.860, 32.884, 32.896, 32.899, 32.905, 32.908, 32.911. Wood case measures 3 5/8" x 2 5/8" x 2 1/8".

ALUMNA CUT

For use on aluminum, magnesium, soft steel and non-ferrous materials such as hard plastic, rubber and wood. Provides easy chip flow and faster stock removal with little or no clogging.

CYLINDRICAL - Plain end



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard
1/4"	5/8"	2"	1/4"	SA-1NF	32.95002
3/8"	3/4"	2 1/2"	1/4"	SA-3NF	32.95011
1/2"	1"	2 3/4"	1/4"	SA-5NF	32.95017
5/8"	1"	2 3/4"	1/4"	SA-6NF	32.95020
3/4"	1"	2 3/4"	1/4"	SA-7NF	32.95023

OVAL



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard
3/8"	5/8"	2 11/32"	1/4"	SE-3NF	32.95411
1/2"	7/8"	2 5/8"	1/4"	SE-5NF	32.95417
5/8"	1"	2 3/4"	1/4"	SE-6NF	32.95420
3/4"	1"	2 3/4"	1/4"	SE-7NF	32.95423

CYLINDRICAL - Radius end



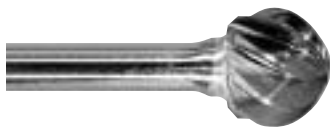
Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard
1/4"	5/8"	2"	1/4"	SC-1NF	32.95102
3/8"	3/4"	2 1/2"	1/4"	SC-3NF	32.95111
1/2"	1"	2 3/4"	1/4"	SC-5NF	32.95117
5/8"	1"	2 3/4"	1/4"	SC-6NF	32.95120
3/4"	1"	2 3/4"	1/4"	SC-7NF	32.95123

TREE RADIUS



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard
1/4"	3/4"	2"	1/4"	SF-1NF	32.95705
3/8"	3/4"	2 1/2"	1/4"	SF-3NF	32.95711
1/2"	1"	2 3/4"	1/4"	SF-5NF	32.95717
5/8"	1"	2 3/4"	1/4"	SF-6NF	32.95720
3/4"	1 1/4"	3"	1/4"	SF-14NF	32.95744

BALL



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard
1/4"	7/32"	2"	1/4"	SD-1NF	32.95305
3/8"	5/16"	2 1/16"	1/4"	SD-3NF	32.95311
1/2"	7/16"	2 3/16"	1/4"	SD-5NF	32.95317
5/8"	9/16"	2 5/16"	1/4"	SD-6NF	32.95320
3/4"	1 1/16"	2 7/16"	1/4"	SD-7NF	32.95323

CONE - Radius nose 14° taper



Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard
3/8"	1 1/16"	2 13/16"	1/4"	SL-3NF	32.95811
1/2"	1 1/8"	2 7/8"	1/4"	SL-4NF	32.95814
5/8"	1 3/16"	2 15/16"	1/4"	SL-5NF	32.95817
5/8"	1 5/16"	3 1/16"	1/4"	SL-6NF	32.95820
3/4"	1 1/2"	3 1/4"	1/4"	SL-7NF	32.95823



CYLINDRICAL
Plain end



CYLINDRICAL
End cut



CYLINDRICAL
Double end



CYLINDRICAL
Radius end



BALL



OVAL



FLAME

CYLINDRICAL - Plain end

Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/16"	1/4"	1 1/2"	3/32"	SA61	32.80902	32.80903
5/64"	5/16"	1 1/2"	3/32"	SA62	32.810	32.811
3/32"	3/8"	1 1/2"	3/32"	SA63	32.814	32.815

Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/16"	1/4"	1 1/2"	1/8"	SA41	32.81502	32.81503
3/32"	1/2"	1 1/2"	1/8"	SA42	32.832	32.833
1/8"	1/2"	1 1/2"	1/8"	SA43	32.835	32.836
1/4"	1/2"	2"	1/8"	SA51	32.838	32.839

CYLINDRICAL - End cut

Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/8"	9/16"	1 1/2"	1/8"	SB43	32.83902	32.83903
1/4"	3/16"	2"	1/8"	SB51	32.83910	32.83911

CYLINDRICAL - Double end

Head Dia.	Overall Length	Shank	SCTI	Standard
1/8"	2"	1/8"	SBECO	32.841

CYLINDRICAL - Radius end

Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
3/32"	3/8"	1 1/2"	3/32"	SC61	32.817	32.818

Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
3/32"	1/2"	1 1/2"	1/8"	SC41	32.844	32.845
1/8"	1/2"	1 1/2"	1/8"	SC42	32.847	32.848
1/4"	1/2"	2"	1/8"	SC51	32.850	32.851

FLAME

Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/8"	1/4"	1 1/2"	1/8"	SH41	32.868	32.869

BALL

Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
3/32"	1/8"	1 1/2"	3/32"	SD61	32.820	32.821

Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
3/32"	1/8"	1 1/2"	1/8"	SD41	32.853	32.854
1/8"	1/8"	1 1/2"	1/8"	SD42	32.856	32.857
3/16"	3/16"	1 1/4"	1/8"	SD53	32.858	32.861
1/4"	1/4"	1 3/4"	1/8"	SD51	32.859	32.860

OVAL

Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
3/32"	1/8"	1 1/2"	3/32"	SE61	32.86102	32.86103

Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/8"	7/32"	1 1/2"	1/8"	SE41	32.862	32.863
1/4"	3/8"	1 7/8"	1/8"	SE51	32.865	32.866



DEBURRING
Double end



TREE POINTED



TREE RADIUS



INVERTED CONE
Plain end



CONE
Radius end



CONE

DEBURRING - Double end

Head Dia.	Head Length	Overall Length	Angle	Shank	SCTI	Standard	Double Cut
1/8"	3/32"	1 1/2"	60°	1/8"	SJ42	32.871	32.872
1/8"	1/16"	1 1/2"	90°	1/8"	SK42	32.874	32.875

INVERTED CONE - Plain end

Head Dia.	Head Length	Overall Length	Angle	Shank	SCTI	Standard	Double Cut
3/32"	1/8"	1 1/2"	10°	3/32"	SN61	32.823	32.824
3/32"	1/8"	1 1/2"	10°	1/8"	SN41	32.901	32.902
1/8"	1/8"	1 1/2"	14°	1/8"	SN42	32.904	32.905
1/4"	1/4"	1 3/4"	10°	1/8"	SN51	32.907	32.908

TREE POINTED

Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
3/32"	1/4"	1 1/2"	3/32"	SG61	32.87902	31.87903

Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/8"	1/4"	1 1/2"	1/8"	SG41	32.880	32.881
1/8"	5/16"	1 1/2"	1/8"	SG42	32.88102	32.88103
1/8"	3/8"	1 1/2"	1/8"	SG43	32.883	32.884
1/8"	1/2"	1 1/2"	1/8"	SG44	32.88402	32.88403
1/4"	1/2"	2"	1/8"	SG51	32.886	32.887

CONE - Radius end

Head Dia.	Head Length	Overall Length	Angle	Shank	SCTI	Standard	Double Cut
1/8"	3/8"	1 1/2"	6°	1/8"	SL41	32.89702	32.89703
1/8"	1/2"	1 1/2"	7°	1/8"	SL42	32.898	32.899

TREE RADIUS

Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
3/32"	1/4"	1 1/2"	3/32"	SF61	32.88802	32.88803

Head Dia.	Head Length	Overall Length	Shank	SCTI	Standard	Double Cut
1/8"	1/4"	1 1/2"	1/8"	SF41	32.889	32.890
1/8"	1/2"	1 1/2"	1/8"	SF42	32.892	32.893
1/4"	1/2"	2"	1/8"	SF51	32.895	32.896

CONE

Head Dia.	Head Length	Overall Length	Angle	Shank	SCTI	Standard	Double Cut
3/32"	5/16"	1 1/2"	10°	3/32"	SM61	32.826	32.827
1/8"	3/8"	1 1/2"	14°	1/8"	SM41	32.913	32.914
1/8"	1/2"	1 1/2"	12°	1/8"	SM42	32.916	32.917
1/8"	5/8"	1 1/2"	9°	1/8"	SM43	32.919	32.920
1/4"	1/2"	2"	22°	1/8"	SM51	32.910	32.911

6" EXTENDED SHANKS

CYLINDRICAL - Plain end



Head Dia.	Head Length	Shank	SCTI	Standard	Double Cut
1/4"	5/8"	1/4"	SA1L6	32.93522	32.93523
3/8"	3/4"	1/4"	SA3L6	32.93537	32.93538
1/2"	1"	1/4"	SA5L6	32.93557	32.93558

FLAME



Head Dia.	Head Length	Shank	SCTI	Standard	Double Cut
5/16"	3/4"	1/4"	SH2L6	32.94007	32.94008
1/2"	1 1/4"	1/4"	SH5L6	32.94012	32.94013

CYLINDRICAL - Radius End



Head Dia.	Head Length	Shank	SCTI	Standard	Double Cut
1/4"	5/8"	1/4"	SC1L6	32.93722	32.93723
3/8"	3/4"	1/4"	SC3L6	32.93737	32.93738
1/2"	1"	1/4"	SC5L6	32.93757	32.93758

TREE POINTED



Head Dia.	Head Length	Shank	SCTI	Standard	Double Cut
1/4"	5/8"	1/4"	SG1L6	32.94102	32.94103
3/8"	3/4"	1/4"	SG3L6	32.94112	32.94113
1/2"	1"	1/4"	SG5L6	32.94122	32.94123

BALL



Head Dia.	Head Length	Shank	SCTI	Standard	Double Cut
1/4"	7/32"	1/4"	SD1L6	32.93812	32.93813
3/8"	5/16"	1/4"	SD3L6	32.93822	32.93823
1/2"	7/16"	1/4"	SD5L6	32.93832	32.93833

TREE RADIUS



Head Dia.	Head Length	Shank	SCTI	Standard	Double Cut
1/4"	5/8"	1/4"	SF1L6	32.94207	32.94208
3/8"	3/4"	1/4"	SF3L6	32.94212	32.94213
1/2"	1"	1/4"	SF5L6	32.94227	32.94228

OVAL



Head Dia.	Head Length	Shank	SCTI	Standard	Double Cut
1/4"	3/8"	1/4"	SE1L6	32.93907	32.93908
3/8"	19/32"	1/4"	SE3L6	32.93912	32.93913
1/2"	7/8"	1/4"	SE5L6	32.93917	32.93918

CONE - Radius nose 14° taper



Head Dia.	Head Length	Shank	SCTI	Standard	Double Cut
1/4"	5/8"	1/4"	SL1L6	32.94302	32.94303
3/8"	1 1/16"	1/4"	SL3L6	32.94312	32.94313
1/2"	1 1/8"	1/4"	SL4L6	32.94317	32.94318

Note: All above burs with 1/4" diameter shanks and 1/4" diameter heads (solid carbide) are 6" overall.

