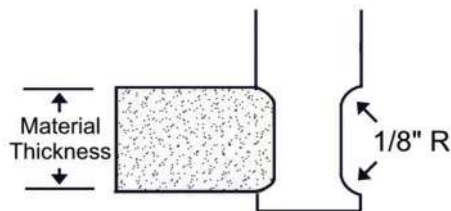


Series 3600

TWO FLUTE EASED EDGE PROFILE SPIRAL

This solid carbide two flute upcut double eased edge profile bit will provide extremely clean finishes in shallow profiles with a maximum depth of 1/8". Specially manufactured and designed for the furniture industry. Can be used on all types of wood materials.



PART #	SM DIA	SHK DIA	OAL	RADIUS	OPENING	MATERIAL THICKNESS
3640	1/2	3/4	4	1/8	0.531	1/2
3650	1/2	3/4	4	1/8	0.656	5/8
3660	1/2	3/4	4	1/8	0.781	3/4
3670	1/2	3/4	4	1/8	1.045	1
3680	1/2	3/4	4	1/8	1.156	1 1/8

Series 3700

SOLID CARBIDE VEINING BITS

Solid carbide veining bits are designed to make decorative cuts in a wide variety of materials. Tools are end cutting so they can plunge and be used to groove material while rounding the top edges of the slot.



Solid Carbide Veining Bits
3710 - 3730

PART #	SMALL DIA	RADIUS	SHK DIA	OAL
3710	.094	.125	1/4	2
3720	.094	.187	1/4	2
3730	.125	.250	3/8	3

SOLID CARBIDE ENGRAVING BITS

These half round engraving tools offer a wide range of tip sizes and angles to accommodate many engraving styles.



Solid Carbide Engraving Bits
3731 - 3745

PART #	TIP DIAMETER	ANGLE	SHK DIA	OAL
3731	.020	30°	1/4	2
3733	.040	30°	1/4	2
3735	.060	30°	1/4	2
3740	.020	60°	1/4	2
3743	.040	60°	1/4	2
3745	.060	60°	1/4	2

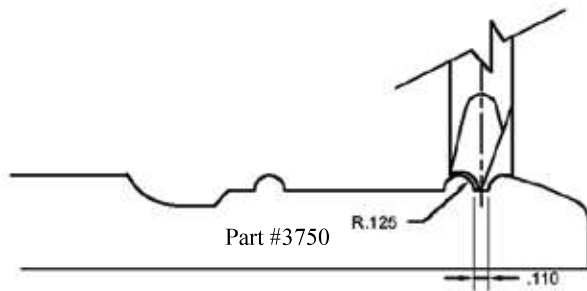
Series 3700

SOLID CARBIDE BEADING BITS

Beading bits are designed to cut decorative beads in a wide variety of materials.



PART #	SMALL DIA	RADIUS	SHK DIA	OAL
3750	.110	.125	1/2	3
3760	.110	.187	1/2	3
3770	.110	.250	1/2	3



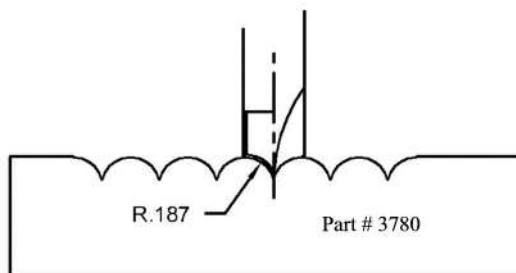
Solid Carbide Point Cutting

ROUND OVERS

Point cutting round over bits are used for decorative trimming and lettering.



PART #	RADIUS	SHK DIA	OAL
3775	.125	3/8	3
3780	.187	3/8	3
3785	.250	1/2	3



Series 3800

SOLID CARBIDE V-POINT BITS

These tools are designed for v-grooving or beveling of natural wood, wood composites, laminated and veneered materials, plastics or solid surface. They are available in 60 and 90 degree angles and are manufactured with slight shear angle for chip removal.



90° Angle Shown

PART #	DIAMETER	ANGLE	CEL	SHK DIA	OAL
3830	1/4	60°	1/2	1/4	3
3835	1/4	90°	1/2	1/4	3
3840	3/8	60°	5/8	3/8	3
3845	3/8	90°	5/8	3/8	3
3850	1/2	60°	5/8	1/2	3
3855	1/2	90°	5/8	1/2	3
3860	6mm	60°	12mm	6mm	64mm
3865	6mm	90°	12mm	6mm	64mm
3870	12mm	60°	16mm	12mm	76mm
3875	12mm	90°	16mm	12mm	76mm

SOLID CARBIDE V-POINT BITS WITH FLAT

Designed for cutting aluminum/plastic sandwich materials like Alucobond, Dibond, etc. with a 90 degree angle and flat bottom.



PART #	LARGE DIAMETER	SMALL DIAMETER	ANGLE	DEPTH OF CUT	SHK DIA	OAL
3880	1/2	.090	90°	13/64	1/2	3

Series 3900

SOLID CARBIDE COMPRESSION DOOR BIT

This door bit is favored by customers cutting lock set and light openings on wood veneered and wood core doors using a CNC, point to point, or KVAL machine. This tool is designed to cleanly cut the top and bottom edge on all common wood door cores: particle core, stave core, LVL core and even mineral core doors. Not for use in Steel Doors.



PART #	CEL	SHK DIA	OAL
3950	2 1/2	1/2	5 1/2

Upcut length 1.250"

Series 4000

DOUBLE EDGE STRAIGHT "Z" FLUTE

Straight flute tools combine the rigidity of solid carbide tooling with traditional straight flute geometry. A popular tool design for general purpose routing. Used when you don't want the axial force or thrust of an upcut or downcut spiral.



RIGHT HAND PART #	LEFT HAND PART #	CED	CEL	SHK DIA	OAL
4005	--	4mm	16mm	6mm	64mm
4006	--	5mm	20mm	6mm	64mm
4008	--	6mm	25mm	6mm	64mm
4010	--	1/8	1/2	1/4	2
4020	4020L	3/16	3/4	1/4	2
4022	--	8mm	25mm	8mm	76mm
4030	--	1/4	7/8	1/4	2 1/2
4033	4033L	1/4	1 1/8	1/4	3
4037	--	3/8	1	3/8	3
4040	4040L	3/8	1 1/4	3/8	3
4046	--	10mm	35mm	10mm	76mm
4047	--	1/2	1	1/2	3
4050	--	1/2	1 1/4	1/2	3
4053	--	12mm	35mm	12mm	88mm
4070	--	5/8	2 1/8	5/8	4
4080	--	3/4	2 1/8	3/4	4

Series 4200 & 4300

TWO FLUTE LOW HELIX FINISHERS

Our double edge low helix spirals are recommended for cutting hard plastics, such as acrylics and phenolics. The lower helix angle produces less “lifting” and “fluttering” on plastic materials. Tools are extremely sharp, producing very clean edges that require little secondary work. These bits also provide great finishes in hardwoods and are recommended for “open cell” foam applications.



Upcut - Series 4200



Downcut - Series 4300

UPCUT PART #	DOWNCUT PART #	CED	CEL	SHK DIA	OAL
4208	4308	6mm	20mm	6mm	64mm
4220	4320	3/16	5/8	1/4	2 1/2
4230	4330	1/4	3/8	1/4	3
4230L	--	1/4	3/8	1/4	3
4233	4333	1/4	3/4	1/4	3
4235	4335	5/16	1	5/16	3
4240	4340	3/8	1	3/8	3
4245	4345	1/2	1	1/2	3 & 3 1/2
4246	4346	10mm	25mm	10mm	76mm
4250	4350	1/2	1 1/4	1/2	3 1/2
4253	4353	12mm	35mm	12mm	88mm
--	4350L	1/2	1 1/4	1/2	3 1/2
4260	4360	1/2	1 3/4	1/2	4
4260L	--	1/2	1 3/4	1/2	4
4280	4380	3/4	2 1/2	3/4	5 & 6

L = Left Hand Rotation

Series 4400 & 4500

THREE FLUTE LOW HELIX FINISHERS

The combination of the low helix angle and flute geometry makes these tools razor sharp. They are recommended as a super finishing tool for acrylic, phenolic, UHMW, solid surface and dense hardwoods. The three flute geometry provides faster feed rate capabilities, while producing ultra smooth finishes.



Upcut - Series 4400



Downcut - Series 4500

UPCUT PART #	DOWNCUT PART #	CED	CEL	SHK DIA	OAL
4430	4530	1/4	3/8	1/4	3
4433	4533	1/4	3/4	1/4	3
4435	4535	5/16	1	5/16	3
4438	4538	3/8	5/8	3/8	3
4440	4540	3/8	1	3/8	3
4445	4545	1/2	1	1/2	3 & 3 1/2
4450	4550	1/2	1 1/4	1/2	3 1/2
4460	4560	1/2	1 3/4	1/2	4
4460L	4560L	1/2	1 3/4	1/2	4
4480	4580	3/4	2 1/2	3/4	5 & 6

L = Left Hand Rotation