CNC PRODUCTION
Routing Tools

CNC ROUTING MACHINERY

We Point You In The Right Direction

SINOGRIND

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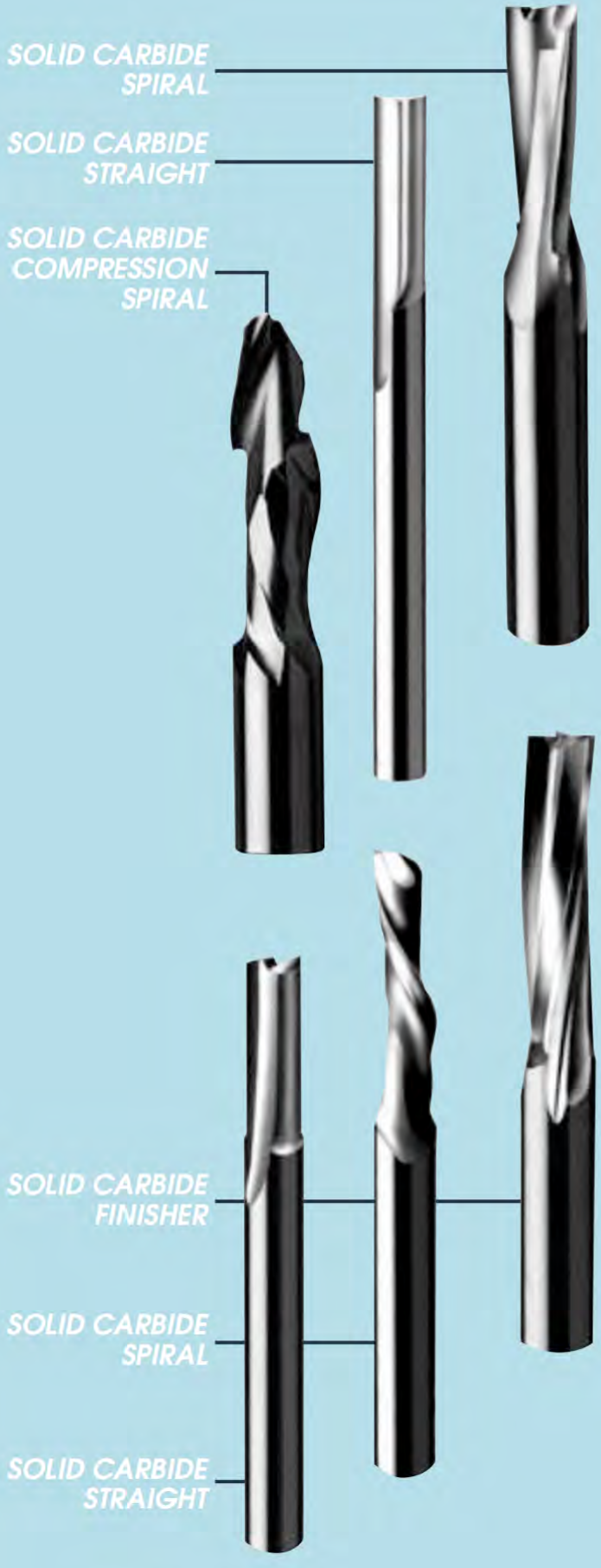

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Solid Carbide Three-Edge Rougher

Application:
For extremely fast routing of hard woods and wood composites.

Primary Use:
Plywood/MDF

Secondary Use:
Hardwoods

PART#	CED	CEL	SHK DIA	OAL
Upcut for Fast Chip Removal				
60-037	9.5mm	28mm	9.5mm	89mm
PCL35411	9.5mm	35mm	9.5mm	89mm
60-051	12.7mm	41mm	12.7mm	101mm
Downcut for Better Hold Down				
60-038	9.5mm	28mm	9.5mm	89mm
60-052	12.7mm	41mm	12.7mm	101mm

Solid Carbide Two-Edge Chipbreaker/Finisher

Application:
For faster feed rates than a conventional two flute with a smooth finish.

Primary Use:
Hardwoods/MDF

Secondary Use:
Plywood

PART#	CED	CEL	SHK DIA	OAL
Upcut for Fast Chip Removal				
60-307	9.5mm	28mm	9.5mm	76mm
60-313	12.7mm	41mm	12.7mm	89mm
60-315	12.7mm	55mm	12.7mm	101mm

Solid Carbide Three-Edge High Helix Rougher

Application:
Unique scalloped cutting edge design for extremely fast routing or hogging.

Primary Use:
Hardwoods

Secondary Use:
Plywood/MDF

PART#	CED	CEL	SHK DIA	OAL
Upcut for Fast Chip Removal				
60-001	9.5mm	28mm	9.5mm	89mm
60-007	12.7mm	41mm	12.7mm	101mm
PCL562274	16mm	55mm	16mm	120mm
60-015	18mm	60mm	18mm	120mm

Solid Carbide Three-Edge Chipbreaker/Finisher

Application:
For additional balance at fast feed rates with a smooth finish.

Primary Use:
Hardwoods and wood composites

Secondary Use:
Plywood/MDF

PART#	CED	CEL	SHK DIA	OAL
Upcut for Fast Chip Removal				
60-337	9.5mm	28mm	9.5mm	76mm
60-351	12.7mm	28mm	12.7mm	76mm
60-353	12.7mm	41mm	12.7mm	89mm

Solid Carbide Two Edge Compression Cutter

Application:
A good quality compression cutter for general use.

Primary Use:
Hardwoods and wood composites

Secondary Use:
Plywood/MDF

PART#	CED	CEL	SHK DIA	OAL	UPCUT LEN
Double Edge					
T2ESRM08	6.35mm	22mm	6.35mm	63mm	8mm
T2ESRM8M	8mm	25mm	8mm	63mm	8mm
T2ESRM10M	10mm	28mm	10mm	75mm	8mm

Solid Carbide
High Velocity 4 Flute Upcut

Application:
Combined roughing and finishing cut with upcut cutting action in one tool for rapid feed rates with a good finish.

Primary Use:
Double-Sided Laminated and Veneered Wood Composites, Soft Wood, Hard Wood

PART#	CED	CEL	SHK DIA	OAL
Upcut for Fast Chip Removal				
60-711	12.7mm	28mm	12.7mm	89mm
60-715	12.7mm	41mm	12.7mm	101mm
60-719	12.7mm	55mm	12.7mm	114mm

Solid Carbide
Three-Edge Finisher

Application:
Designed for perfect balance and smooth finish over a wide speed range.

Primary Use:
Hardwoods and wood composites

Secondary Use:
Plywood, MDF, Corian, Acrylic, Nylon, HDPE, Polyethelene

PART#	CED	CEL	SHK DIA	OAL
Upcut for Fast Chip Removal				
60-241	6.35mm	22mm	6.35mm	76mm
60-243	9.5mm	15.8mm	9.5mm	76mm
60-245	9.5mm	28.5mm	9.5mm	76mm
60-249	12.7mm	28.5mm	12.7mm	88mm
60-253	12.7mm	41mm	12.7mm	101mm
60-251	12.7mm	54mm	12.7mm	114mm
60-269	19.05mm	41mm	19.05mm	101mm
Downcut for Better Hold Down				
60-246	9.5mm	28mm	9.5mm	76mm
60-250	12.7mm	28mm	12.7mm	88mm

Solid Carbide
Compression Spiral Cutters

The **MAXLIFE** line of compression spirals are designed for maximum life when cutting MELAMINE, LAMINATED PANELS, or DECORATIVE PLYWOOD.
The **MAXLIFE** tools utilise unique geometries that improve the wear characteristics of the tool under abrasive applications. A unique "maximum wear" carbide was developed and contributes to these tools lasting up to 35% longer than traditional compression tools, while exhibiting superior finish.

PART#	CED	CEL	SHK DIA	OAL	UPCUT LEN
Single Edge					
60-102MW	3.175mm	9.5mm	6.35mm	63mm	5mm
60-106MW	4.76mm	15.8mm	6.35mm	63mm	7.6mm
Double Edge					
60-123MW	9.5mm	22mm	9.5mm	76mm	5mm
60-163MW	12.7mm	22mm	12.7mm	76mm	5mm
60-169MW	12.7mm	28mm	12.7mm	76mm	14mm
60-171MW	12.7mm	35mm	12.7mm	89mm	15.8mm
60-172MW	12.7mm	41mm	12.7mm	89mm	19.05mm
60-196MW	19mm	47.4mm	19mm	102mm	19.05mm
Three-Edge					
60-126MW	9.5mm	22mm	9.5mm	76mm	5mm

Coated Solid Carbide
Marathon Compression Spirals

The Marathon Compression cutter is the longest running compression tool due to advancements in cutting geometry and the addition of a unique coating.

The coating creates a tougher cutting edge and protects the edge from high temperatures generated when routing laminated and composite wood products.

PART#	CED	CEL	SHK DIA	OAL	UPCUT LEN
Double Edge					
60-123MC	9.5mm	22mm	9.5mm	76mm	5mm
60-124MC	9.5mm	28mm	9.5mm	76mm	10mm
60-163MC	12.7mm	22mm	12.7mm	76mm	5mm
60-169MC	12.7mm	28mm	12.7mm	76mm	14mm
60-171MC	12.7mm	35mm	12.7mm	89mm	15.8mm
60-172MC	12.7mm	41mm	12.7mm	89mm	19.05mm
Three-Edge					
60-126MC	9.5mm	22mm	9.5mm	76mm	5mm

Special European Single Flute Downcut Spiral Cutters with "O" Flute Geometry

Application:
Designed to rout at incredible feed rates with an outstanding finish.

Primary Use:
Plywood, MDF, hardwoods and wood composites.

Secondary Use:
Acrylic, Nylon and rigid PVC

PART#	CED	CEL	SHK DIA	OAL
Downcut for Better Hold Down				
12010	1mm	4mm	3mm	30mm
12015	1.5mm	6mm	3mm	30mm
12020	2mm	8mm	2mm	30mm
12030	3mm	10mm	3mm	30mm
12030A	3mm	10mm	3mm	60mm
12317	3.175mm	12.7mm	6.35mm	38mm
62-712	3.175mm	12.7mm	6.35mm	50.8mm
12040	4mm	12mm	4mm	50mm
* 12476	4.76mm	15mm	6.35mm	50.8mm
62-718	4.76mm	15mm	6.35mm	50.8mm
12635	6.35mm	19mm	6.35mm	50.8mm
* PCL36396	6.35mm	22mm	6.35mm	63mm
PCL36498	8mm	28mm	8mm	63mm
62-896	8mm	38mm	8mm	76mm
12080A	8mm	38mm	8mm	76mm
62-733	9.5mm	28mm	9.5mm	76mm

* highly recommended

HSD Spindles and Aggregates

Special European Single Flute Upcut Spiral Cutters with "O" Flute Geometry

Application:
Designed to rout at incredible feed rates with an outstanding finish.

Primary Use:
Plywood, MDF, hardwoods and wood composites.

Secondary Use:
Acrylic, Nylon and rigid PVC

PART#	CED	CEL	SHK DIA	OAL
Upcut for Fast Chip Removal				
13010	1mm	4mm	3mm	30mm
13015	1.5mm	6mm	3mm	30mm
13020	2mm	8mm	2mm	30mm
63-802	2mm	8mm	2mm	50mm
13020A	2mm	8mm	2mm	60mm
63-810	3mm	8mm	3mm	50mm
13030A	3mm	10mm	3mm	60mm
63-814	3mm	12mm	3mm	64mm
63-816	3mm	12mm	6mm	64mm
13317	3.175mm	12.7mm	6.35mm	38mm
63-712	3.175mm	12.7mm	6.35mm	50.8mm
13040	4mm	12mm	4mm	50mm
63-874	4mm	20mm	6mm	64mm
13040G	4mm	22mm	4mm	60mm
63-820	4mm	12mm	4mm	64mm
63-822	4mm	20mm	4mm	64mm
13476	4.76mm	15mm	6.35mm	50.8mm
63-718	4.76mm	15mm	6.35mm	50.8mm
13050	5mm	16mm	5mm	60mm
63-828	5mm	16mm	5mm	64mm
13050A	5mm	30mm	5mm	70mm
13060	6mm	20mm	6mm	60mm
63-838	6mm	20mm	6mm	64mm
13060A	6mm	30mm	6mm	70mm
63-840	6mm	30mm	6mm	76mm
13635	6.35mm	19mm	6.35mm	50.8mm
PCL36395	6.35mm	22mm	6.35mm	63mm
63-726	6.35mm	31mm	6.35mm	76mm
13635-A	6.35mm	38mm	6.35mm	76mm
PCL37061	8mm	28mm	8mm	63mm
63-846	8mm	38mm	8mm	76mm
13080	8mm	22mm	8mm	60mm
13080A	8mm	38mm	8mm	80mm
63-733	9.5mm	28mm	9.5mm	76mm
63-848	10mm	30mm	10mm	76mm
63-849	10mm	35mm	10mm	76mm
13100	10mm	30mm	10mm	76mm
13120	12mm	30mm	12mm	76mm

Solid Carbide Single Edge Straight Cutters

Application:
An economical single flute general purpose straight cutter.

Primary Use:
Plywood, MDF, hardwoods and wood composites.

Secondary Use:
Most materials

	PART#	CED	CEL	SHK DIA	OAL
	T202-S	1.6mm	5mm	6.35mm	38mm
	T202-MS	2mm	5mm	6.35mm	38mm
*	PCT36092	2.38mm	6.35mm	6.35mm	50mm
	T1804-S	3.175mm	12.7mm	6.35mm	57mm
	T1804-MS	4mm	16mm	6mm	57mm
	T1806-S	4.76mm	19mm	6.35mm	57mm
	T1805-MS	5mm	19mm	6.35mm	57mm
	T1806-MS	6mm	22mm	6.35mm	57mm
	T1808-S	6.35mm	25.4mm	6.35mm	57mm

* O Flute

Plunge Routing Tools

Application:
High speed plunge routing tool for camlock and hinge holes

Primary Use:
Kitchen and cabinet manufacture.

	PART#	CED	CEL	SHK DIA	OAL
	DPL2030-16	20mm	30mm	16mm	95mm
*	DPL3530-16	35mm	30mm	16mm	95mm
	DPP4012-16	40mm	12mm	16mm	76mm

* three edge

Replacement blades
available as single purchase or boxes of 10

CUTTER	CENTER BLADE	OUTER BLADE
DPL2030-16	10.5x10.5x1.5	30x0.9x1.5EC
DPL3530-16	V10.6x12x1.5	30x12x1.5EC
DPP4012-16	N/a	20x12x1.5EC

Solid Carbide Double Edge Cutters

Application:
An economical two flute general purpose straight cutter.

Primary Use:
Plywood, MDF, hardwoods and wood composites.

Secondary Use:
Most materials

	PART#	CED	CEL	SHK DIA	OAL
*	56-430	4mm	16mm	6mm	64mm
*	56-431	5mm	20mm	6mm	64mm
*	56-432	6mm	25mm	6mm	64mm
	56-330	9.5mm	28mm	12.7mm	76mm
	56-360	12.7mm	28mm	12.7mm	76mm
	56-654	12.7mm	44mm	12.7mm	101mm

* O Flute

Double Edge Spiral Downcut for Better Hold Down

57-910	6.35mm	22mm	6.35mm	63mm
57-923	9.5mm	28mm	9.5mm	76mm
57-365	12.7mm	41mm	12.7mm	88mm

Surface Planing Tools

DPP4012

DPP5512

Application:
Rapid planing of wide surfaces

Primary Use:
MDF, some hardwoods and plastics

	PART#	CED	CEL	SHK DIA	OAL
	Replaceable Insert Type				
*	DPP4012	40mm	12mm	16mm	76mm
**	DPP5512	55mm	12mm	12.7mm	65mm

* two edge (recommended)
** not compatible with some tool changers due to diameter

Replacement blades
available as single purchase or boxes of 10

Tool	Center Blade	Outer Blade
DPP4012	N/a	20x12x1.5 EC
DPP5512	N/a	V12x12x1.5

Core Box Cutters

Application:
Panel doors and decorative edge, molds and grooving.

Primary Use:
MDF, hardwoods, plywoods and wood composites

PART#	CED	CEL	SHK DIA	OAL
T306	4.76mm	11mm	6.35mm	38mm
T412	9.5mm	6.35mm	6.35mm	31mm
T416-1/2	12.7mm	8.7mm	12.7mm	57mm
T420-1/2	15.9mm	9.5mm	12.7mm	57mm
T424-1/2	19mm	12.7mm	12.7mm	57mm
T432-1/2	25.4mm	12.7mm	12.7mm	57mm
T440-1/2	31.8mm	19mm	12.7mm	63mm
T448-1/2	38mm	22mm	12.7mm	67mm

Range of Traditional and Profile cutters.

Application:
Panel doors and decorative edge molds, grooving and rounding over

Primary Use:
Plywood, MDF, hardwoods and wood composites.

PART#	CED	CEL	SHK DIA	OAL
TTC 8 1/2	17.4mm	12.7mm	12.7mm	57mm
TTC 16 1/2	29.3mm	16mm	12.7mm	57mm

Core box bit

Traditional classic bit

Contact us for a list of decorative edge, rounding over and drawer pull bits.

Specially Designed Engraving Tools

Application:
These specially designed engraving tools are manufactured from micrograin carbide for fine engraving with long tool life.

Primary Use:
Engraving laminate materials

PART#	TIP DIA	SHK DIA	OAL	DEG
GR94161	0.1mm	3mm	30mm	60
GR92176	0.1mm	6mm	60mm	90
GR91097	0.4mm	6mm	60mm	60
GR91101	0.5mm	6mm	60mm	30

Shelf Hole Bits

Bits for drilling shelf holes.

PART#	CED	CEL	SHK DIA	OAL
TX1804.9MS	4.9mm	19mm	6.35mm	76.2mm
TX1805MS	5mm	19mm	6.35mm	76.2mm

Dowell Drill Bits

Drills specifically designed to drill laminate board without breakout.
Typically used in multi spindle gang drill heads.

PART#	CED	CEL	SHK DIA	OAL
WD4R56	4mm	27mm	10mm	56mm
WD5L56	5mm	27mm	10mm	56mm
WD5R56	5mm	27mm	10mm	56mm
WD5L70	5mm	35mm	10mm	70mm
WD5R70	5mm	35mm	10mm	70mm
WD8L56	8mm	27mm	10mm	56mm
WD8R56	8mm	27mm	10mm	56mm
WD10L56	10mm	27mm	10mm	56mm
WD10R56	10mm	27mm	10mm	56mm
WD35R56*	35mm		10mm	56mm

* Hinge boring bit
L= left hand, R = right hand

"V" Groove Cutters

Application:
3D engraving or decorative vee grooves and chamfers in wood and wood composites, MDF, hardwoods, plywood, ductboard, acrylic and plastics.

Replaceable Insert Type

Replaceable insert cutters offer the advantage of being less expensive to run over their lifespan. The cutting blades are replaceable and often double sided providing two cutting edges on each blade.

PART#	MAX DIA	MAX DEPTH	SHK DIA	OAL	DEG
DV45-40	40mm	40mm	12.7mm	90mm	45
DV60-16	20mm	16mm	12.7mm	70mm	60
DV90-16	36mm	16mm	12.7mm	70mm	90
DV90-34	70mm	34mm	20mm	70mm	90
DV90-88	88mm	45mm	20mm	110mm	90
DV120-10	36mm	10mm	12.7mm	70mm	120

Cemented Carbide Type

Cemented carbide cutters a disposable style cutter and are a cost-effective alternative choice for grooving. They perform exceptionally well and are often available in sizes not available in replaceable insert styles.

	PART#	MAX DIA	MAX DEPTH	SHK DIA	OAL	DEG
	T6128	25mm	22mm	6.35mm	57mm	60
	T6128 1/2	25mm	22mm	6.35mm	70mm	60
*	T112WF	18mm	7.5mm	6.35mm	45mm	90
	T112	18mm	9mm	6.35mm	45mm	90
	T128	31mm	15mm	6.35mm	50.8mm	90
	T128 1/2	31mm	15mm	12.7mm	63.5mm	90
	T1230 1/2	39mm	20mm	12.7mm	86mm	90
	T1236 1/2	45mm	22mm	12.7mm	81.5mm	90
***	T1240 1/2	50.8mm	25.4mm	12.7mm	76mm	90
**	TV90WF	31mm	10.5mm	12.7mm	60mm	90
	TV1232	25.4mm	7.5mm	6.35mm	43mm	120
	TV1264 1/2	50.8mm	14.5mm	12.7mm	73mm	120

* with 3mm flat
** with 10mm flat
*** not compatible with some tool changers due to diameter

Solid Carbide Type

A disposable style cutter and are a cost-effective alternative choice for grooving. They perform exceptionally well and are often available in sizes not available in replaceable insert or cemented carbide styles. These cutters have a 0.5mm flat on their tip.

PART#	MAX DIA	MAX DEPTH	SHK DIA	OAL	DEG
TV2208	6.35mm	14mm	6.35mm	57mm	22.5
TV2216 1/2	12.7mm	30mm	12.7mm	76mm	22.5
TV3008	6.35mm	10mm	6.35mm	57mm	30
TV3016 1/2	12.7mm	22mm	12.7mm	76mm	30
TV4508	6.35mm	7mm	6.35mm	57mm	45
TV4516 1/2	12.7mm	14mm	12.7mm	76mm	45

Replacement V groove cutter blades
available as single purchase or boxes of 10

CUTTER	BLADE/INSERT
DV45-40	V45 50X12
DV60-16	V60 20X12
DV90-16	V90 30X12
DV90-34	V45 50X12
DV90-88	DV90-88 Insert set of 2
DV120-10	v120 20x12x1.5

Solid Carbide Ball Nose Cutter

Application:
For grooving panel designs such as cupboard doors.

Primary Use:
MDF, ACM, hardwoods, and most timbers

Secondary Use:
High density foams and model makers' wax

PART#	CED	CEL	SHK DIA	OAL
52-240BM	3mm	12mm	6mm	50mm
52-280BM	6mm	22mm	6mm	64mm
TSRWB8	6.35mm	19mm	6.35mm	63mm
52-280B	6.35mm	22mm	6.35mm	63mm
52-320B	9.5mm	28mm	9.5mm	76mm
52-320BM	10mm	29mm	10mm	76mm
52-360BM	12mm	29mm	12mm	76mm
52-360B	12.7mm	28mm	12.7mm	76mm

Solid Carbide Ball Nose Cutters

Application:
For model making and 3 dimensional surface applications.

Primary Use:
High density foam and model makers' wax.

Secondary Use:
MDF and most timbers

PART#	CED	CEL	SHK DIA	OAL
SCB3	3mm	7mm	6mm	57mm
SCB6	6mm	10mm	6mm	57mm
TSRWB8	6.35mm	19mm	6.35mm	63mm
SCB1/4	6.35mm	19mm	6.35mm	63mm
SCB8	8mm	16mm	8mm	63mm
SCB9.5	9.5mm	22mm	9.5mm	63mm
SCB10	10mm	19mm	10mm	72mm
SCB12	12mm	25mm	12mm	84mm
SCB12.7	12.7mm	25mm	12.7mm	76mm

Single Flute Straight Cutters with Special "O" Flute Geometry

Application:
Designed to rout at fast feed rates with a very smooth finish.

Primary Use:
Acrylic and polycarbonate. Suitable for material 2mm to 18mm

Secondary Use:
Wood composites, corflute

	PART#	CED	CEL	SHK DIA	OAL
*	PCT36092	2.38mm	6.35mm	6.35mm	50mm
*	61-041	3.175mm	8mm	6.35mm	50.8mm
	61-042	3.175mm	12mm	6.35mm	50.8mm
	PCT582109	3.175mm	15mm	6.35mm	50.8mm
*	PCT35491	4mm	8mm	6.35mm	50.8mm
	PCT35513	4mm	12.7mm	6.35mm	50.8mm
#	56-430	4mm	16mm	6mm	64mm
	61-061	4.76mm	9.5mm	6.35mm	50.8mm
*	61-062	4.76mm	16mm	6.35mm	50mm
#	56-431	5mm	20mm	6mm	64mm
#	56-432	6mm	25mm	6mm	64mm
*	61-082	6.35mm	19mm	6.35mm	63.5mm
	61-085	6.35mm	25mm	6.35mm	82mm
	61-122	9.5mm	23mm	9.5mm	65mm
	61-414	8mm	25mm	8mm	64mm

* highly recommended
# double flute cutter

D Cutter

Application:
Tapered bit for cutting acrylic & rigid PVC up to 6mm thick. 14deg included angle.

PART#	CED	CEL	SHK DIA	OAL
Dcutter	3.175mm	6mm	3.175mm	38mm

Special European Single Flute Upcut Spiral Cutters with "O" Flute Geometry

Application:
Designed to rout at high feed rates with an outstanding.

Primary Use:
Acrylic, rigid PVC. Suitable for material 4.5mm to 35mm

Secondary Use:
Wood composites, MDF, hardwoods, plywood. High pressure laminates

PART#	CED	CEL	SHK DIA	OAL
Upcut for Fast Chip Removal				
13010	1mm	4mm	3mm	30mm
13015	1.5mm	6mm	3mm	30mm
13020	2mm	8mm	2mm	30mm
63-802	2mm	8mm	2mm	50mm
13020A	2mm	8mm	2mm	60mm
63-810	3mm	8mm	3mm	50mm
13030A	3mm	10mm	3mm	60mm
63-814	3mm	12mm	3mm	64mm
63-816	3mm	12mm	6mm	64mm
13317	3.175mm	12.7mm	6.35mm	38mm
63-712	3.175mm	12.7mm	6.35mm	50.8mm
13040	4mm	12mm	4mm	50mm
63-820	4mm	12mm	4mm	64mm
63-874	4mm	20mm	6mm	64mm
63-924	4mm	20mm	6mm	64mm
63-874	4mm	20mm	6mm	64mm
PCL583034	4mm	30mm	4mm	64mm
63-822	4mm	20mm	4mm	64mm
63-718	4.76mm	15mm	6.35mm	50.8mm
13476	4.76mm	15mm	6.35mm	50.8mm
13050	5mm	16mm	5mm	60mm
63-828	5mm	16mm	5mm	64mm
13050A	5mm	30mm	5mm	70mm
PCL583281	5mm	30mm	5mm	64mm
13060D	6mm	22mm	6mm	60mm
13060E	6mm	32mm	6mm	70mm
63-938	6mm	20mm	6mm	64mm
13635	6.35mm	19mm	6.35mm	50.8mm
PCL36395	6.35mm	22mm	6.35mm	63mm
63-726	6.35mm	31mm	6.35mm	76mm
13635-A	6.35mm	38mm	6.35mm	76mm
13080	8mm	22mm	8mm	60mm
13080A	8mm	38mm	8mm	80mm
PCL37061	8mm	28mm	8mm	63mm
63-846	8mm	38mm	8mm	76mm
13100	10mm	30mm	10mm	75mm
63-848	10mm	30mm	10mm	76mm
63-849	10mm	35mm	10mm	76mm
13120	12mm	30mm	12mm	75mm

Special European Single Flute Downcut Spiral Cutters with "O" Flute Geometry

Application:
Designed to rout at high feed rates with an outstanding.

Primary Use:
Acrylic, rigid PVC. Suitable for material 4.5mm to 35mm

Secondary Use:
Wood composites, MDF, hardwoods, plywood.

	PART#	CED	CEL	SHK DIA	OAL
	Downcut for Better Hold Down				
	12010	1mm	4mm	3mm	30mm
	12015	1.5mm	6mm	3mm	30mm
	12020	2mm	8mm	2mm	30mm
	12030	3mm	10mm	3mm	30mm
	12030A	3mm	10mm	3mm	60mm
	12317	3.175mm	12.7mm	6.35mm	38mm
	62-712	3.175mm	12.7mm	6.35mm	51mm
	12040	4mm	12mm	4mm	30mm
*	12476	4.76mm	15mm	6.35mm	50.8mm
	62-840	6mm	30mm	6mm	76mm
*	12635	6.35mm	19mm	6.35mm	50.8mm
	PCL36396	6.35mm	22mm	6.35mm	63mm
	PCL36498	8mm	28mm	8mm	63mm
#	62-846	8mm	38mm	8mm	76mm
**	62-896	8mm	38mm	8mm	76mm
	62-733	9.5mm	28mm	9.5mm	76mm
	62-848	10mm	30mm	10mm	76mm

* highly recommended
** for soft plastics
# for hard plastics

Solid Carbide Single Edge Straight Cutters

Application:
An economical single flute general purpose straight cutter.

Primary Use:
Most plastics

Secondary Use:
Plywood, MDF, hardwoods and wood composites.

	PART#	CED	CEL	SHK DIA	OAL
	T202S	1.6mm	5mm	6.35mm	38mm
	T202MS	5mm	5mm	6.35mm	38mm
	T1804-S	3.175mm	12.7mm	6.35mm	57mm
#	56-430	4mm	16mm	6mm	64mm
	T1806-S	4.76mm	19mm	6.35mm	57mm
#	56-431	5mm	20mm	6mm	64mm
	T1806-MS	6mm	22mm	6.35mm	57mm
#	56-432	6mm	25mm	6mm	64mm
	T1808-S	6.35mm	25.4mm	6.35mm	57mm
	56-654	12.7mm	44mm	12.7mm	101mm

double flute cutter

Solid Carbide Saw Flush Mount

Application:
Small diameter arbor mounted saws. Saws are permanently mounted to arbors and are not reversible.

Primary Use:
Trimming and slotting plastics

Secondary Use:
Nil

	PART#	CED	WIDTH	SHK DIA	OAL	ROTATION
	70-204	25.4mm	1.58mm	12.7mm	101mm	Right Hand
	70-224	31mm	1.58mm	12.7mm	101mm	Right Hand
**	70-320	50.8mm	2.4mm	12.7mm	101mm	Right Hand
#	70-360	50.8mm	2.4mm	12.7mm	101mm	Right Hand

for hard plastics
** for soft plastics

Solid Carbide Foam Cutters

Application:
Routing polystyrene foam

PART#	CED	CEL	SHK DIA	OAL
52-554	3.175mm	28mm	6.35mm	64mm
52-564	6.35mm	57mm	6.35mm	90mm
TSF8	6.35mm	57mm	6.35mm	101mm
TSF12 3/8	9.5mm	57mm	9.5mm	101mm

Did you know?
Not all foams can be routed!
See next page for a range of oscillating and drag knife blades suitable for cutting softer foams such as insulation foams, packing foams etc.

Solid Carbide Up Spiral Cutters with Small Cut Diameters

Application:
For cutting 1mm to 3mm aluminium, brass or copper when a small daimeter cutter is required

Primary Use:
Non-ferrous metals

Secondary Use:
Wood composites and fibreglass

PART#	CED	CEL	SHK DIA	OAL
2FS-1.0	1.0mm	5mm	3.175mm	40mm
2FS-1.2	1.2mm	5mm	3.175mm	40mm
2FS-1.5	1.5mm	6mm	3.175mm	40mm
2FS-2.0	2.0mm	8mm	3.175mm	40mm
2FS-2.5	2.5mm	8mm	3.175mm	40mm
2FS-3.0	3.0mm	10mm	3.175mm	40mm
52-040	3.175mm	12.7mm	6.35mm	50mm
52-060	4.76mm	15.8mm	6.35mm	50mm

D Cutter

Application:
Tapered bit for cutting or engraving brass. 14deg included angle.

Primary Use:
Brass, acrylic, rifid PVCup to 6mm thick.

Secondary Use:
MDF, acrylic and wood

PART#	CED	CEL	SHK DIA	OAL
Dcutter	3.175mm	6mm	3.175mm	38mm

Solid Carbide Up Spiral Cutters with Geometry for cutting metals at fast feed rates.

Application:
For cutting 3mm to 12mm aluminium. Produces a very smooth edge with very good chip removal

Primary Use:
Non-ferrous metals

Secondary Use:
Wood composites , laminates and some ferrous metals

	PART#	CED	CEL	SHK DIA	OAL
	63-904	2mm	6mm	6mm	64mm
	33030	3mm	8mm	3mm	30mm
	63-912	3mm	8mm	6mm	64mm
	63-916	3mm	12mm	6mm	64mm
	63-606	3.175mm	6.35mm	6.35mm	50mm
**	63-610	3.175mm	12.7mm	6.35mm	50mm
	63-918	4mm	8mm	4mm	64mm
	33040	4mm	12mm	3mm	60mm
**	63-924	4mm	20mm	6mm	64mm
*	63-614	4.76mm	9.5mm	6.35mm	50.8mm
	63-618	4.76mm	16mm	6.35mm	50.8mm
	33050	5mm	16mm	5mm	60mm
	63-930	5mm	16mm	6mm	64mm
	63-934	6mm	8mm	6mm	64mm
	33060	6mm	15mm	6mm	50mm
*	63-938	6mm	20mm	6mm	64mm
	63-620	6.35mm	9.5mm	6.35mm	50.8mm
*	63-622	6.35mm	19mm	6.35mm	63.5mm
	63-629	7.94mm	17mm	7.94mm	64mm
	063810	8mm	10mm	8mm	60mm
	63-946	8mm	38mm	8mm	76mm
	63-948	10mm	30mm	10mm	76mm
	Downcut for Better Hold Down				
***	62-606	3.175mm	6.35mm	6.35mm	50mm
***	62-614	4.76mm	9.5mm	6.35mm	50mm

* highly recommended

** highly recommended for cutting 1mm to 3mm Aluminium when a small cut diameter is required

*** highly recommended for cutting 1mm to 2mm Aluminium with a downward cut when a small cut diameter is required

Did you know?
Mist sprayer and cold air gun attachments greatly increase tool life and cut edge quality by reducing heat associated with metal cutting.

These devices can be retrofitted to most CNC machines.

High Performance Composite Router

Application:
Designed to machine exotic composite materials & fibreglass.
Coated AlTiN
(not suitable for ACM)

PART#	CED	CEL	SHK DIA	OAL
66-915AlTiN	6.35mm	38mm	6.35mm	76mm
* TG8	6.35mm	19mm	6.35mm	76mm
* TG8 endcut	6.35mm	19mm	6.35mm	76mm
66-923AlTiN	9.5mm	25mm	9.5mm	76mm
66-931AlTiN	9.5mm	54mm	9.5mm	102mm
66-935AlTiN	12.7mm	28mm	12.7mm	76mm
66-943AlTiN	12.7mm	54mm	12.7mm	102mm

* uncoated

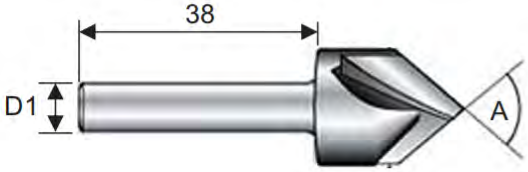
Specially Designed Solid Carbide cutters for V grooving Alucobond/Alpolic and similar composite materials

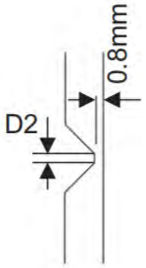
Application:
These French designed cutters are used when V groove routing ACM and similar composite materials.

Primary Use:
Alucobond/Alpolic

Secondary Use:
Composite materials Seadek

PART#	CED	D1	D2	ANGLE	OAL
99168	19mm	9.5mm	2mm	135	70mm
99167	19mm	9.5mm	3mm	90	70mm
99166	20mm	8mm	2mm	135	70mm
99165	20mm	8mm	3mm	90	70mm





M30-890 8mm Shank 90deg Vee, 3mm flat
M41-290 12mm Shank 90deg Vee, 3mm flat
M41-235 12mm Shank 135deg Vee, 3mm flat
highly recommended for solid core ACM

Blades for Multicam Tangential and Oscillating Knifes

Application:
Cutting of Foams, Cardboard, X-Board, Coreflute, Ductboard etc

PART#	CEL	BLADE TYPE	OAL
Double point - for cutting foams, fibrous and insulation material			
BT56240	40mm	Double	70mm
BT56265	65mm	Double	95mm
BT562090	90mm	Double	120mm
Round point - for cutting Dense Foam, Cardboard, Corflute, Rubber, Acoustic Mat.			
BT57275	6mm	Single	36mm
BT57267	12mm	Single	42mm
BT57265	15mm	Single	45mm
BT57268	25mm	Single	55mm
BT57269	30mm	Single	60mm
BT572050	50mm	Single	80mm
BT572065	65mm	Single	95mm
BT57270	70mm	Single	100mm
BT57290	90mm	Single	120mm
Flat point - for cutting fibrous and insulation materials.			
BT57220	20mm	Single	50mm
BT57230	30mm	Single	60mm
BT572070	70mm	Single	100mm
BT56290	90mm	Single	120mm
BT572110	110mm	Single	140mm
BT572120	120mm	Single	150mm

Sabre blade for cutting Dense Foam, Cardboard, Corflute, Polypropolene.

BT2362	double end	60 deg	50mm
BT2392	double end	90 deg	50mm
* BT13899	single end	60 deg	50mm

* 14mm cut depth

1/2" Polycrastalline Diamond (PCD) Tipped Single Flute Mortise Compression

Application:
Designed to rout composite materials or materials with hard substrates.

Primary Use:
Wood composites, abrasive materials

PART#	CED	CEL	SHK DIA	OAL
68-101	9.5mm	25.4mm	12.7mm	76mm
68-102	12.7mm	25.4mm	12.7mm	76mm

Attachments for Tangential heads that provide cutting and creasing solutions for a variety of products including cardboard, X board, corflute, foams and similar products.

Box Cutters

26029

28757

45 Degree Box Cutters

25970

28756

Replacement Box Cutter Blades		
KB03018	1.0mm	Box of 5
KB61329	0.9mm	Box of 5

Sabre Blade Cutters

28755

SABRE

For cutting Dense Foam, Cardboard, Corflute, Polypropolene

Replacement Sabre Blades				
BT2362	double end	60 deg	50mm	
BT2392	double end	90 deg	50mm	
BT13899	single end	60 deg	50mm	14mm cut depth

Rotary Blade Cutters

28758

26085

Creasing Wheels

28754

Series 2

027090	Creasing Wheel B12 For cardboard. Diameter of the wheel is 24 mm and the blade size is pt 2.
027089	Creasing Wheel B14 For cardboard. Diameter of the wheel is 24 mm and the blade size is pt 3.
027088	Creasing Wheel B16 For cardboard. Diameter of the wheel is 24 mm and the blade size is pt 4.
027087	Creasing Wheel B22 Type-E/F For corrugated cardboard. Diameter of the wheel is 24 mm with small compressing edge.
027086	Creasing Wheel B24 Type-B For corrugated cardboard. Diameter of the wheel is 24 mm with medium compressing edge.
027085	Creasing Wheel B26 Type-C For corrugated cardboard. Diameter of the wheel is 24 mm with large compressing edge.
027084	Creasing Wheel B32 For polypropylene. Diameter of the wheel is 24 mm and has a thin cutting edge.

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