

Advanced Materials **INDEX**

Advanced Materials

Offering a comprehensive range of circular saws, cutters and router bits for processing solid surface materials, aluminum, composites, high-pressure laminates, plastics and sandwich panels.

- Tools for sizing, carved routing and surface engraving in plastics
- Sizing and carve-routing in aluminum
- Tools for cutting and routing solid surface materials
- Special tools engineered for long life and accuracy in machining composite materials (reinforcing fibers and polymer matrix)

Important factors such as carbide-type, tool geometry, grinding process and cutting edge finish, greatly influence the success of working with advanced materials. Dimar provides a superior solution featuring longer tool life and excellent cutting quality.

Plastic	320	-	328
Solid Surface Materials	329	-	338
Aluminum	339	-	343
ACM	342	-	343
Composites	344	-	349



Plastic



Solid Surface Materials



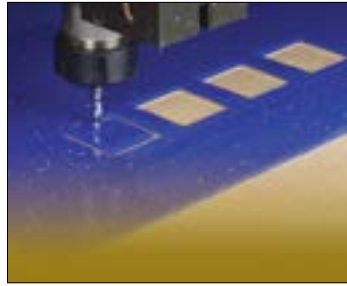
Aluminum



Composites

Advanced Materials

Plastic



Saw Blades	#SCPL	#1927	#G185	#SC	#SCR		
321 - 322	323	323	324 - 327	328	328		

Generic name for materials made from Polymer chains

There is enormous variety of plastics. Various combinations of Polymer structures & sizes could create new mechanical properties. Those different materials are spread over the complete scale of each property (very soft to very hard, clear to blank, heat sensitivity to heat resistance, e.g.). No doubt it is difficult to define the exact cutting condition of rotation speed in related to the cutting feed.

Kindly, refer to a couple guidelines to optimize cutting process:

- The larger the chip size, the larger the tool lifetime.
- For "elastic/soft" material, we highly recommend to work with a minimal number of cutting edges; For Instance, it is preferable to work with 1 flute, not with 2 flutes.
- For "hard/breakable" material, it is preferable to use with additional cutting edges; for instance: Using 300 diameter saw with 96 teeth, not 60 teeth.
- Tools for use in plastics are characterized by extremely sharp cutting angles. Carbide tips is required to support an angle in order not to crumble during cutting.

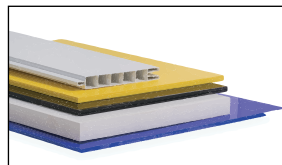
In order to define the material it is recommended to use the table below:

Polymer	Tensile Strength MPa	(%) Elongation	Tensile Modulus MPa
HDPE	21-35	15-100	700-1400
LDPE	7-21	50-800	100-250
PP	30-40	150-600	1150-1550
PS	33-35	1-4	2400-3350
PVC	35-63	2-30	2000-4200
ABS	35-48	15-80	1750-2500
PA 6/6	84	60-100	2070-3245
PA 6/12	62	150-340	2100
PC	63	110	2400
PMMA	55-75	5	2400-3100
Polyester	56	300	2400
Polysulfones	70.3	5-6	2482
PEEK	100	40	3900
PET	45-145		2300-10300
PVDC	19	350	345-552
Cellulosics	14-15	6-60	690-2100
PAI	125-185	5-12	710-4900
Polyacrylates	69	50	2400-16600
PPO	55	50	2484-2622
Polyimides	69	50	3588

The property of the tensile modulus and the elongation can give a good idea where the material belongs: is it more breakable or is it considered to be soft?

As the tensile modulus gets bigger and the elongation gets smaller, the material becomes harder and more cutting edges can be used.

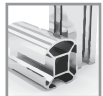
This table can also give a perspective of a new material regarding a material that is already known.



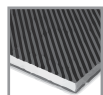
Plastic



Solid Surface Materials



Aluminum

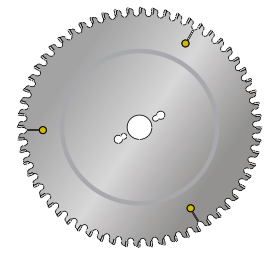
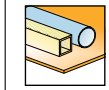
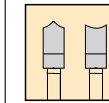
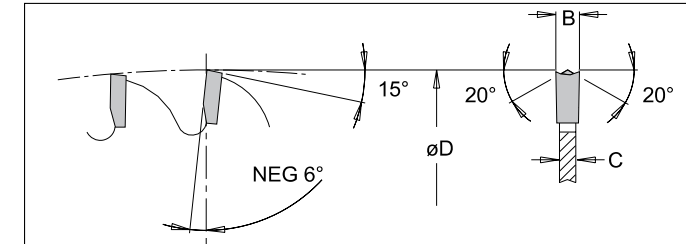


Composites

Advanced Materials

Plastic

Carbide Tipped Special Purpose Saw Blades

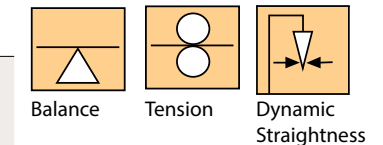


Tool no.	Dia.	Teeth	Kerf	Bore	Style	For
220-42 HGN	220mm	42	.130" (3.3mm)	30mm	Hollow, Ground, Negative	Holz-Her
*220-64 TCG	220mm	64	.118" (3.0mm)	30mm+2 PH	TCG, Positive	Holz-Her
253-48 HGN	253mm	48	.130" (3.3mm)	30mm	Hollow, Ground, Negative	
304-60 HGN	304mm	60	.130" (3.3mm)	30mm	Hollow, Ground, Negative	

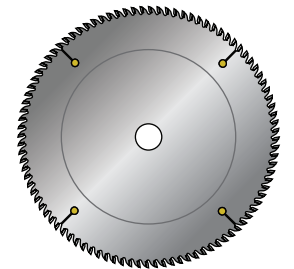
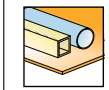
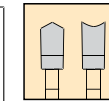
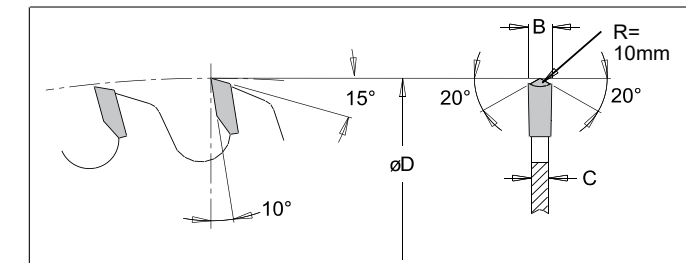
Trimming and sizing of laminated boards on two sides. No grabbing design. Superb finish. Can be supplied with 5/8" and 1" bore (with bushings).

* Not as per line art above.

Manufacturing Technology:



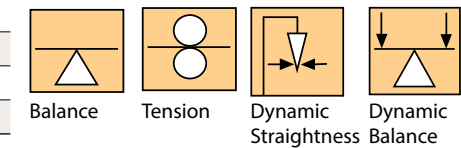
Carbide Tipped Hollow Ground Saw Blades



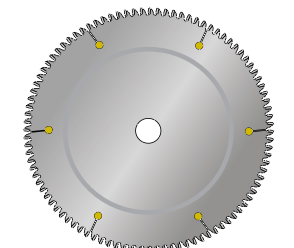
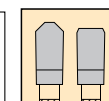
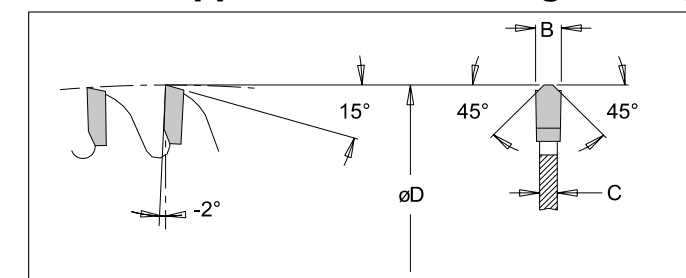
Tool no.	Dia.	Teeth	Kerf	Bore
7 1/4-36 HG	7 1/4"	36	.126" (3.2mm)	5/8"
8-40 HG	8"	40	.126" (3.2mm)	5/8"
9-40 HG	9"	40	.126" (3.2mm)	5/8"
10-48 HG	10"	48	.126" (3.2mm)	5/8"
12-60 HG	12"	60	.126" (3.2mm)	1"
14-72 HG	14"	72	.126" (3.2mm)	1"

Trimming and sizing in panel materials with or without lamination. Superior finished cut on Melamines, veneers, vinyls.

Manufacturing Technology:



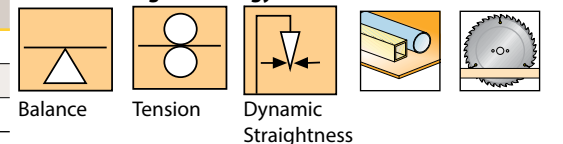
Carbide Tipped Plastic Trimming & Sizing Saw Blades



Tool no.	Dia.	Teeth	Kerf	Bore
10-80 PL	10"	80	.098" (2.5mm)	5/8"
12-96 PL	12"	96	.130" (3.3mm)	1"
14-108 PL	14"	108	.145" (3.7mm)	1"

Trimming and sizing plastic sheets in stacks, thermoplastic boards and profiles. Triple chip tooth grind with negative hook for no melting, and chip free cutting.

Manufacturing Technology:



Plastic



Solid Surface Materials



Aluminum

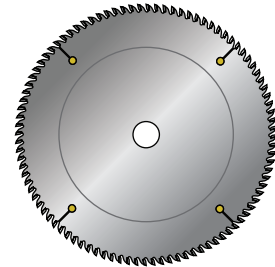
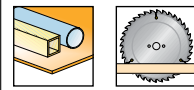
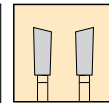
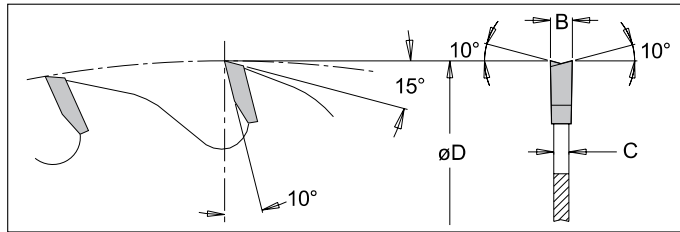


Composites

Advanced Materials

Plastic

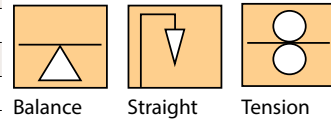
Carbide Tipped Thin Saw Blades (ATB)



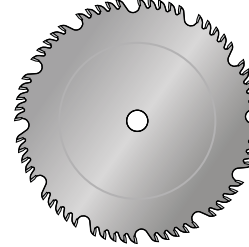
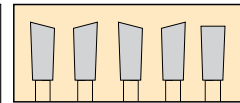
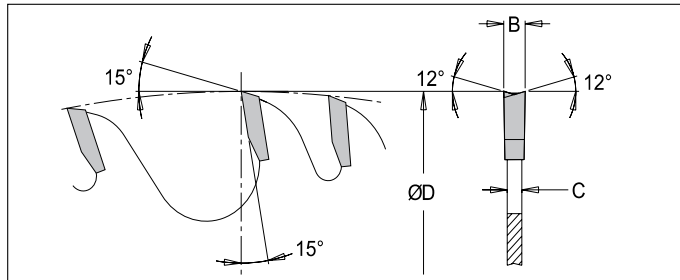
Tool no.	Dia.	Teeth	Kerf	Bore
8-34 THIN-A	8"	34	.090" (2.3mm)	5/8"
8-64 THIN-A	8"	64	.094" (2.4mm)	5/8"
10-40 THIN-A	10"	40	.090" (2.3mm)	5/8"
10-80 THIN-A	10"	80	.094" (2.4mm)	5/8"
12-48 THIN-A	12"	48	.090" (2.3mm)	1"
12-96 THIN-A	12"	96	.094" (2.4mm)	1"
14-54 THIN-A	14"	54	.090" (2.3mm)	1"
14-108 THIN-A	14"	108	.090" (2.3mm)	1"

Thin kerf saw designed for finish work on expensive wood where stock loss must be kept to a minimum. Recommended for use with large flange and stock thickness of a maximum of 3/4

Manufacturing Technology:



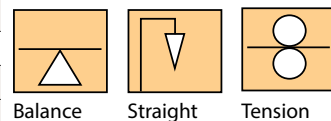
Carbide Tipped Combination Saw Blades (COM)



Tool no.	Dia.	Teeth	Kerf	Bore
8-40 COM	8"	40	.126" (3.2mm)	5/8"
9-40 COM	9"	40	.126" (3.2mm)	5/8"
10-50 COM	10"	50	.134" (3.4mm)	5/8"
*10-50 CL	10"	50	.126" (3.2mm)	5/8"
12-60 COM	12"	60	.149" (3.8mm)	1"
14-70 COM	14"	70	.149" (3.8mm)	1"
16-80 COM	16"	80	.157" (4.0mm)	1"

All purpose blade designed for ripping, cutting along and across the grain for easy feed in softwood, hardwood, plywood, chipboard and particle board. The fifth raker tooth is designed to give a clean medium quality cut. For radial arm and table saws.

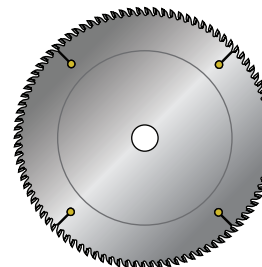
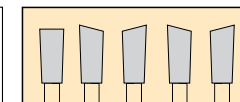
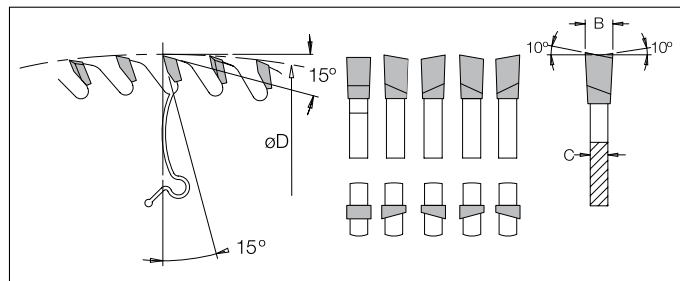
Manufacturing Technology:



* Chip Limitation for Radial Arm Saw

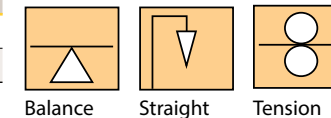
Trimming and Cross Cut for Hard & Exotic Wood Saw Blade

NEW



Tool no.	Dia.	Teeth	Kerf	Bore
10-100 ATB-R	10"	100	.118" (3.0mm)	30mm
10-120 ATB-R	10"	120	.118" (3.0mm)	30mm

Manufacturing Technology:



Advanced Materials

Plastic

Solid Carbide "O" Flute Spiral Router Bits for Plastic

NEW

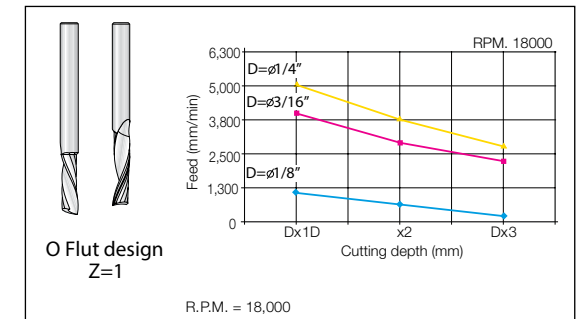
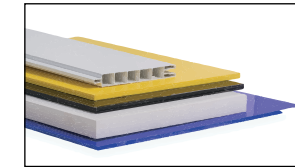
Dimar's plastic cutting solid carbide spiral O'Flute router bits are designed for use in various plastic materials such as Plexiglas, and Lucite, nylon, ABS, PE, Acetal, PET, HDPE, UHMW, polycarbonates, polypropylene, wood and solid surfaces.

Dimar's O'Flute design allows the cutting chips to form naturally and follow the natural flow of the cutting geometry without hitting sharp corners that would otherwise slow their exit from the cutting passage.

These special bits feature a mirror finish that will guarantee you a clean, smooth cut in the most difficult acrylic materials. Designed for use in most CNC machines.

Great For Cutting:

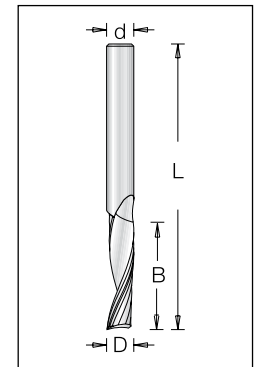
- Plastic / Acrylic
- Solid Surface
- Wood
- Polycarbonate
- Foam Board
- Corrugated Polypropylene
- PE/Aceta/Nylon



Single Spiral "O" Flute Upcut Shear Angle Mirror Finish, 1 Flute

Upcut spiral for optimum chip flow and improved finish on the bottom of the board. Suitable for fine 'finishing' cuts in soft and hard plastic with upward chip removal.

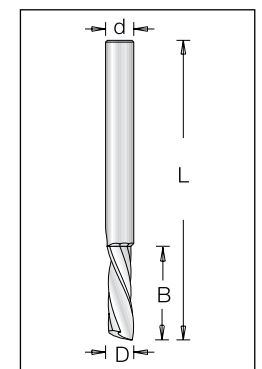
Tool no	Dia.	Shank	B	Length
SCPL43	1/8"	1/8"	1/2"	2"
SCPL45	3/16"	3/16"	5/8"	2"
SCPL45X	3/16"	1/4"	5/8"	2 1/2"
SCPL463	1/4"	1/4"	3/4"	2"
SCPL46	1/4"	1/4"	1"	2 1/2"



Single Spiral "O" Flute, Downcut Shear Angle, Mirror Finish, 1 Flute

Downcut spiral for improved finish on the top of the board. Suitable for fine 'finishing' cuts in soft and hard plastic with downward chip removal.

Tool no	Dia.	Shank	B	Length
SCPL43DC	1/8"	1/8"	1/2"	2"
SCPL45DC	3/16"	3/16"	5/8"	2"
SCPL463DC	1/4"	1/4"	3/4"	2"
SCPL46DC	1/4"	1/4"	1"	2 1/2"

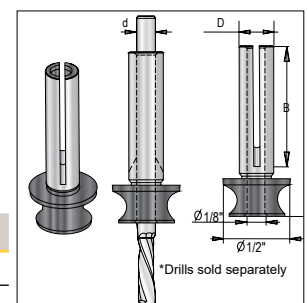


Adapter for 1/8" Shank Bits

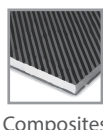
A unique adapter specifically designed to accept 1/8" diameter bits.

The easy-grip adapter will ensure that bits are fixed firmly and properly inserted into the collet. We recommend that you opt for a "unified" shank and cutting diameter as this will ensure optimum strength during the routing operation.

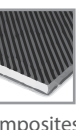
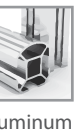
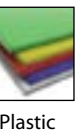
Tool no	d	D	B	Length
1927124	1/8"	1/4"	7/8"	1 1/4"

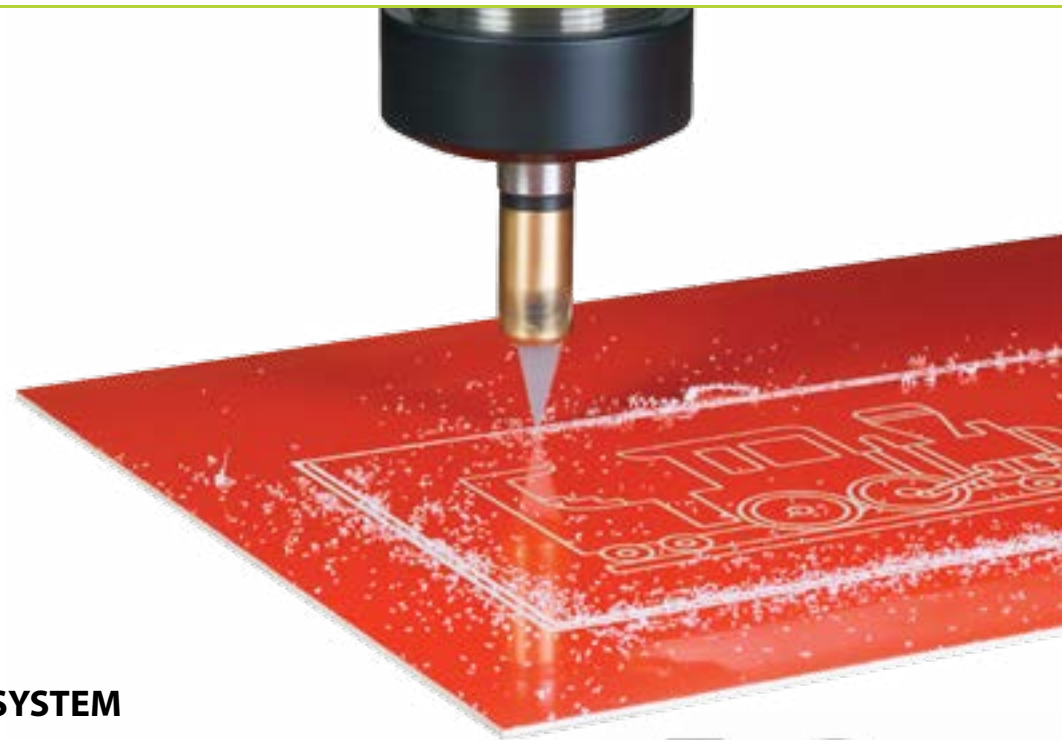


Advanced Materials

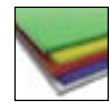


Advanced Materials





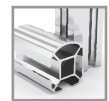
ENGRAVING SYSTEM



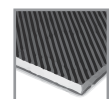
Plastic



Solid Surface Materials



Aluminum



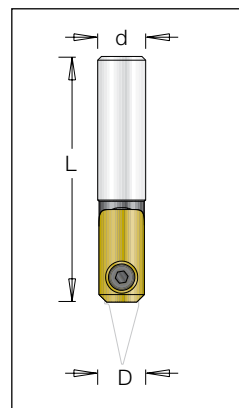
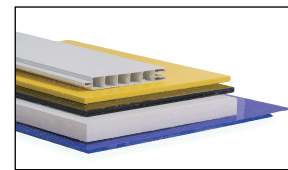
Composites



The versatile Engraving Insert System features one tool body with 40 unique insert knives of the highest industrial quality, to ensure cleaner cuts and longer life than most other standard solid router bits.

Designed for a wide variety of applications including straight cut, core box, round corner, V-groves and cutting & chamfering. Ideal for cutting laminated materials, veneers, MDF, plastics, wood and solid surfaces.

The system was specially engineered to enable a quick, easy exchange of inserts while mounted in CNC machines; eliminating setup-time while maintaining consistent cutting accuracy. The balanced design minimizes vibration resulting in superior cutting.



Code No.	D	L	ød
G1853X04*	12mm	1/4"	65mm
G1853X08*	12mm	1/2"	65mm

*Body only.



Allen screw
1938070
M4x6

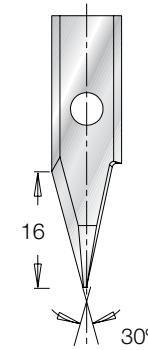


Allen key
1940030
S3



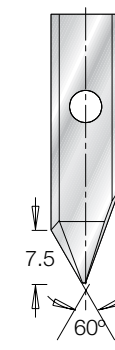
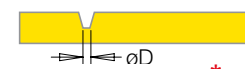
Engraving System Insert Knives

Scale -1:1



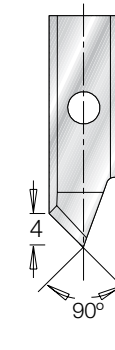
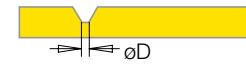
"V" Groove 30°

Code No.	D
* 3185005	0.12mm
* 3185006	0.24mm
3185007	0.5mm
3185008	0.75mm
3185009	1.0mm
3185010	1.5mm
3185011	2.25mm



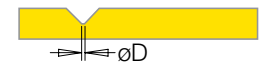
"V" Groove 60°

Code No.	D
* 3185018	0.12mm
* 3185019	0.25mm
3185020	0.5mm
3185021	0.75mm
3185022	1.0mm
3185023	1.5mm
3185024	2.25mm

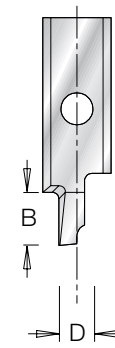


"V" Groove 90°

Code No.	D
3185014	0.12mm
3185015	0.24mm
3185016	0.5mm
3185017	1.0mm

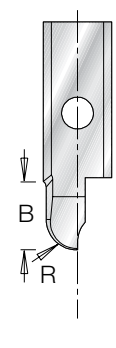


* Only for use with controllable feed rate machines.



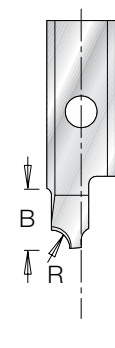
Straight

Code No.	D	B
3185032	3.2mm	5mm
3185033	4.76mm	6mm
3185034	6.35mm	7mm
3185035	7.94mm	8mm



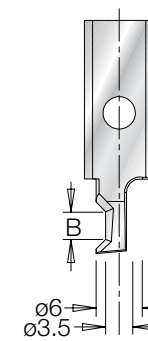
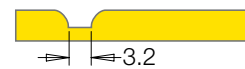
Core Box

Code No.	R	B
3185028	1.6mm	5mm
3185029	2.4mm	6mm
3185030	3.2mm	7mm
3185031	4.0mm	8mm



Corner Round

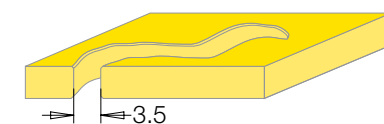
Code No.	R	B
3185025	1.6mm	8mm
3185026	2.4mm	8mm
3185027	3.2mm	8mm



Cutting and Chamfering

Code No.	B	Code No.	B
3185040	0.5mm	3185043	4.3mm
3185036	1.0mm	3185013	4.6mm
3185002	1.5mm	* 3185003	5mm
3185037	1.8mm	* 3185044	5.5mm
3185041	2.3mm	* 3185038	6.3mm
3185042	3.3mm	* 3185039	8.3mm
3185012	3.6mm		

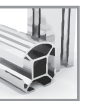
* Only for Chamfer operation.



Plastic



Solid Surface Materials



Aluminum

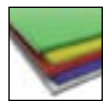
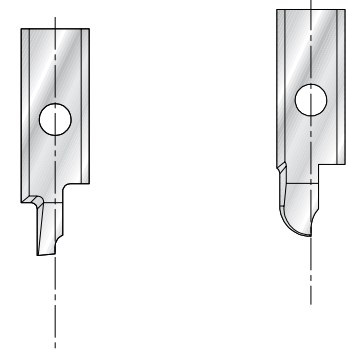


Composites

Engraving System Feed rates

Straight and core box max feed Vars. RPM (cutting depth 1D) mm/min

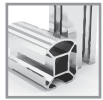
Head diameter (mm)	3.2	4.76	6.35	7.93
Rotation speed (RPM)	Recommended feed rate (mm/min)			
6000	600	780	900	1080
7000	700	910	1050	1260
8000	800	1040	1200	1440
9000	900	1170	1350	1620
10000	1000	1300	1500	1800
11000	1100	1430	1650	1980
12000	1200	1560	1800	2160
13000	1300	1690	1950	2340
14000	1400	1820	2100	2520
15000	1500	1950	2250	2700
16000	1600	2080	2400	2880
17000	1700	2210	2550	3060
18000	1800	2340	2700	3240
19000	1900	2470	2850	3420
20000	2000	2600	3000	3600
21000	2100	2730	3150	3780
22000	2200	2860	3300	3960
23000	2300	2990	3450	4140
24000	2400	3120	3600	4320
25000	2500	3250	3750	4500
26000	2600	3380	3900	4680
27000	2700	3510	4050	4860
28000	2800	3640	4200	5040



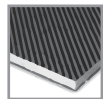
Plastic



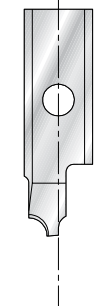
Solid Surface Materials



Aluminum



Composites



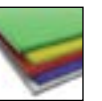
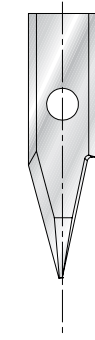
Round corner recommended feed Vars. RPM mm/min

Knife radius (mm)	1.6	2.4	3.2
Rotation speed (RPM)	Recommended feed rate (mm/min)		
6000	1500	1320	1200
7000	1750	1540	1400
8000	2000	1760	1600
9000	2250	1980	1800
10000	2500	2200	2000
11000	2750	2420	2200
12000	3000	2640	2400
13000	3250	2860	2600
14000	3500	3080	2800
15000	3750	3300	3000
16000	4000	3520	3200
17000	4250	3740	3400
18000	4500	3960	3600
19000	4750	4180	3800
20000	5000	4400	4000
21000	5250	4620	4200
22000	5500	4840	4400
23000	5750	5060	4600
24000	6000	5280	4800
25000	6250	5500	5000
26000	6500	5720	5200
27000	6750	5940	5400
28000	7000	6160	5600

Engraving System Feed rates

V-groove routing recommended max feed vars. RPM (inch/min)

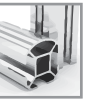
Head diameter (D) mm	0.1	0.25	0.5	0.75	1	1.5
Rotation speed (RPM)	Max. feed rate mm/min					
6000	480	1200	2400	3600	NO LIMIT	
7000	560	1400	2800	NO LIMIT		
8000	640	1600	3200	NO LIMIT		
9000	720	1800	3600	NO LIMIT		
10000	800	2000	4000	NO LIMIT		
11000	880	2200	NO LIMIT			
12000	960	2400	NO LIMIT			
13000	1040	2600	NO LIMIT			
14000	1120	2800	NO LIMIT			
15000	1200	3000	NO LIMIT			
16000	1280	3200	NO LIMIT			
17000	1360	3400	NO LIMIT			
18000	1440	3600	NO LIMIT			
19000	1520	3800	NO LIMIT			
20000	1600	NO LIMIT				
21000	1680	NO LIMIT				
22000	1760	NO LIMIT				
23000	NO LIMIT					
24000	1920	NO LIMIT				
25000	2000	NO LIMIT				
26000	2080	NO LIMIT				
27000	2160	NO LIMIT				
28000	2240	NO LIMIT				



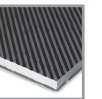
Plastic



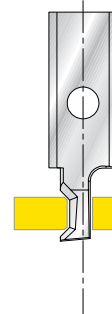
Solid Surface Materials



Aluminum



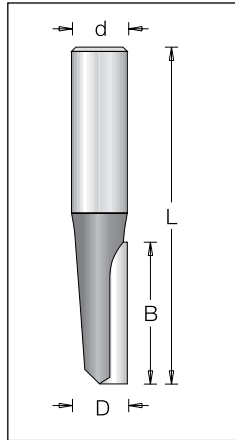
Composites



Sizing and chamfering recommended feed Vars. RPM mm/min Chamfering only

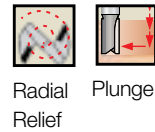
Material thickness (mm)	2	3	4.6	5.6	6	7.2	8
Rotation speed (RPM)	Recommended feed rate (mm/min)						
6000	1500	1320	1200	1080	1500	1320	1200
7000	1750	1540	1400	1260	1750	1540	1400
8000	2000	1760	1600	1440	2000	1760	1600
9000	2250	1980	1800	1620	2250	1980	1800
10000	2500	2200	2000	1800	2500	2200	2000
11000	2750	2420	2200	1980	2750	2420	2200
12000	3000	2640	2400	2160	3000	2640	2400
13000	3250	2860	2600	2340	3250	2860	2600
14000	3500	3080	2800	2520	3500	3080	2800
15000	3750	3300	3000	2700	3750	3300	3000
16000	4000	3520	3200	2880	4000	3520	3200
17000	4250	3740	3400	3060	4250	3740	3400
18000	4500	3960	3600	3240	4500	3960	3600
19000	4750	4180	3800	3420	4750	4180	3800
20000	5000	4400	4000	3600	5000	4400	4000
21000	5250	4620	4200	3780	5250	4620	4200
22000	5500	4840	4400	3960	5500	4840	4400
23000	5750	5060	4600	4140	5750	5060	4600
24000	6000	5280	4800	4320	6000	5280	4800
25000	6250	5500	5000	4500	6250	5500	5000
26000	6500	5720	5200	4680	6500	5720	5200
27000	6750	5940	5400	4860	6750	5940	5400
28000	7000	6160	5600	5040	7000	6160	5600

Plunge Bits, 1 Flute

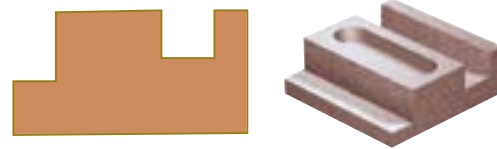


Tool no	Dia.	Shank	B	Length
107R8-6S/F	1/4"	1/2"	3/4"	2 1/2"
107RL8-6S/F	1/4"	1/2"	1"	2 1/2"
107RL8-8S/F	5/16"	1/2"	1"	2 3/4"
107R8-10S/F	3/8"	1/2"	1"	2 1/2"
107RL8-10S/F	3/8"	1/2"	1 1/4"	3"
107R8-12S/F	1/2"	1/2"	1"	2 1/2"
107RL8-12S/F	1/2"	1/2"	1 1/4"	2 7/8"
107RLS8-12SF	1/2"	1/2"	1 1/2"	3 1/8"
107RLSW8-12S	1/2"	1/2"	2"	4 1/4"
107RL8-14S/F	9/16"	1/2"	1 1/4"	2 7/8"

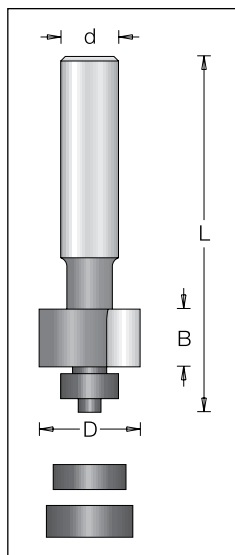
Tool no	Dia.	Shank	B	Length
107R6-6S/F	1/4"	3/8"	3/4"	2 1/4"
107R6-10S/F	3/8"	3/8"	1"	2 11/16"
107RL6-10S/F	3/8"	3/8"	1 1/4"	2 5/8"



Radial Relief Plunge

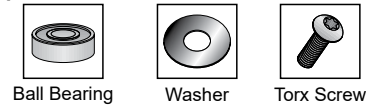


Face Inlay Bits, 2 Flutes

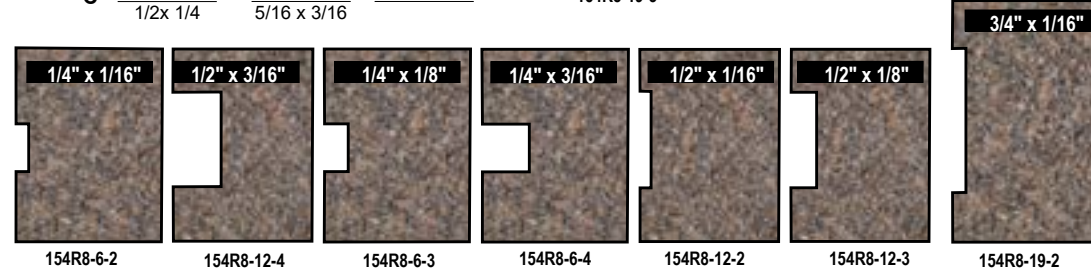
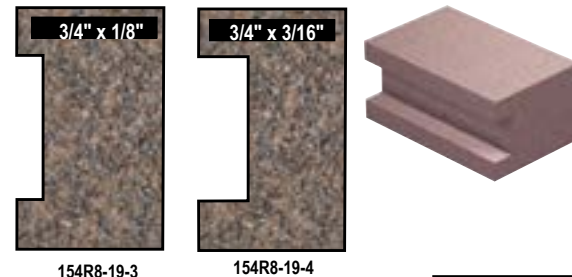


Tool no	Dia.	Shank	B	E	Length	PARTS
154R8-6-2	7/8"	1/2"	1/4"	1/16"	3 1/16"	A
154R8-6-3	7/8"	1/2"	1/4"	1/8"	3"	B
154R8-6-4	7/8"	1/2"	1/4"	3/16"	3"	C
154R8-12-2	7/8"	1/2"	1/2"	1/16"	3 1/4"	A
154R8-12-3	7/8"	1/2"	1/2"	1/8"	3 1/4"	B
154R8-12-4	7/8"	1/2"	1/2"	3/16"	3 1/4"	C
154R8-19-2	7/8"	1/2"	3/4"	1/16"	3 7/16"	A
154R8-19-3	7/8"	1/2"	3/4"	1/8"	3 1/2"	B
154R8-19-4	7/8"	1/2"	3/4"	3/16"	3 1/2"	C

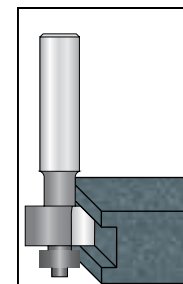
Replacement Parts:



	Ball Bearing	Washer	Torx Screw
A	BB-19 3/4 x 1/4	1920040 5/16 x 3/16	1930080
B	BB-16 5/8 x 1/4	1920040 5/16 x 3/16	1930080
C	BB-12A 1/2 x 1/4	1920040 5/16 x 3/16	1930080



154R8-6-2 154R8-12-4 154R8-6-3 154R8-6-4 154R8-12-2 154R8-12-3 154R8-19-2



Plastic

Solid Surface Materials

Aluminum

Composites

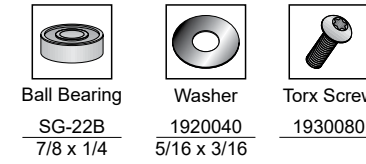
Inlay Trimming Bit with Ball Bearing Guide, 2 Flutes

Tool no	Dia	Shank	B	Length
101RK8-22	3/4"	1/2"	1"	3"

Over-Hang 1/16", 5 Degree rough-out



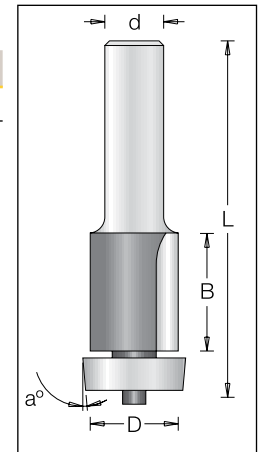
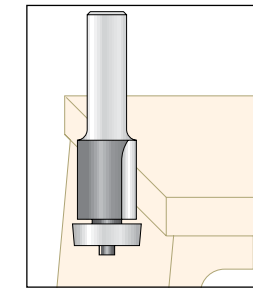
Replacement Parts:



	Ball Bearing	Washer	Torx Screw
	SG-22B 7/8 x 1/4	1920040 5/16 x 3/16	1930080



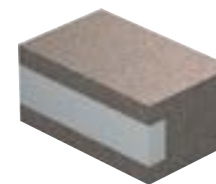
Radial Relief



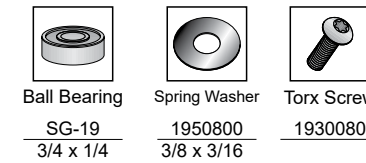
Inlay Trimming Bit with Ball Bearing Guide, 2 Flutes

Tool no	Dia	Shank	B	Length
101RK8-19	3/4"	1/2"	1"	3"

Flush Trim 0 Degrees



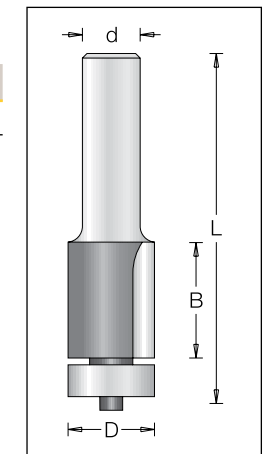
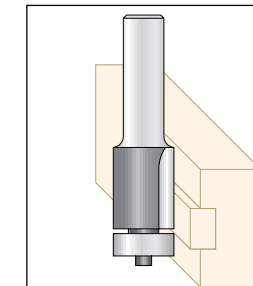
Replacement Parts:



	Ball Bearing	Spring Washer	Torx Screw
	SG-19 3/4 x 1/4	1950800 3/8 x 3/16	1930080



Radial Relief

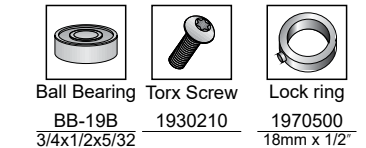


Down Shear Straight Bits with Centre Ball Bearing Guide, 2 Flutes.

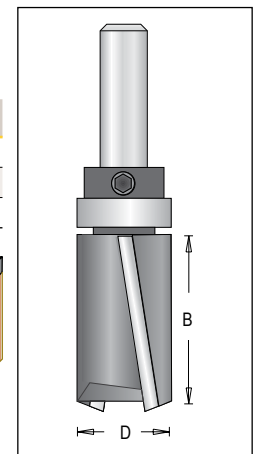
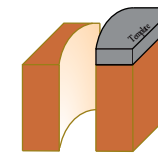
Tool no	Dia.	Shank	B	Length
101RCL8-19	3/4"	1/2"	1 1/4"	3 5/16"
101RCL8-19	3/4"	1/2"	1 1/2"	3 1/2"
* 101RCLSW8-19	3/4"	1/2"	2"	4"

For tear free finish on laminated boards.
* Assembled with two ball bearings

Replacement Parts:



	Ball Bearing	Torx Screw	Lock ring
	BB-19B 3/4x1/2x5/32	1930210	1970500 18mm x 1/2"



Compression Bits with Centre Ball Bearing Guide, 2 Flutes

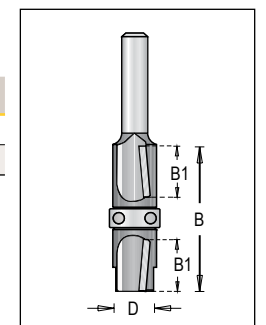
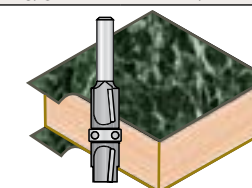
Used for flushing double sided laminated boards.

Tool no	Dia.	Shank	B	B1	Length
101RCD4-12	1/2"	1/4"	1 3/8"	1/2"	2 9/16"
101RCD8-12	1/2"	1/2"	1 3/8"	1/2"	3 1/16"

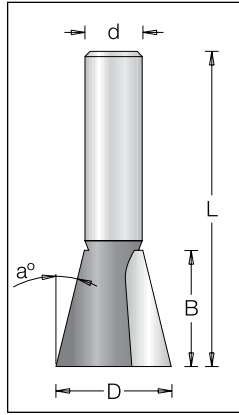
Replacement Parts:



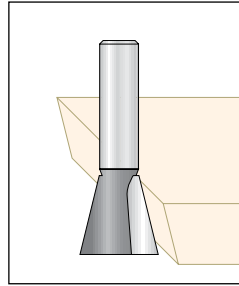
	Ball Bearing
	BB-12A 1/2x1/4x3/16



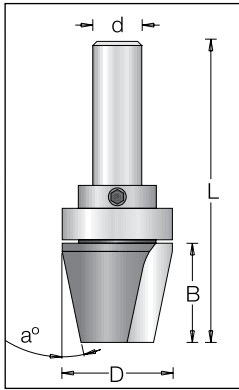
Spline Glue Joint Bits, 2 Flutes



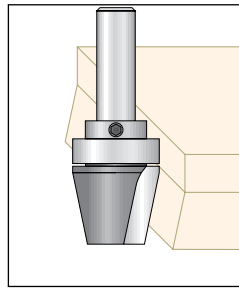
Tool no	Dia	Shank	B	a	Length
104R8-22-14	7/8"	1/2"	7/8"	14°	2 5/8"



Topmounted Bowl & Countertop Bits, 2 Flutes



Tool no	Dia	Shank	B	a	Length
104RCR8-28	1 1/8"	1/2"	1"	12°	3 1/8"

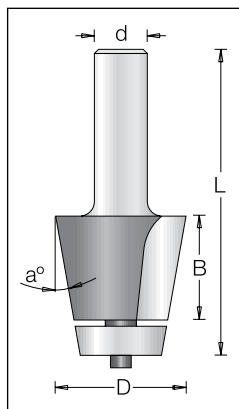


Replacement Parts:

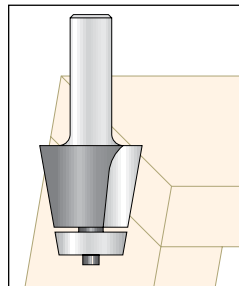
Ball Bearing BB-28 1 1/8 x 1/2	Lock ring 1970200 21mm x 1/2"	Torx Screw 1930210



Bevel Undermount Bowl Bit, 2 Flutes



Tool no	Dia	Shank	B	a	Length
151R8-22	1 1/4"	1/2"	1"	12°	3 3/16"

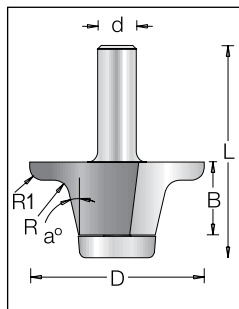


Replacement Parts:

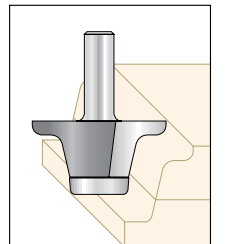
Ball Bearing SG-22A 7/8 x 1/4	Spring Washer 1950800 3/8 x 3/16	Torx Screw 1930080



Undermount Bowl Bit, 2 Flutes



Tool no	Dia	Shank	B	R	R1	a	Length
153R8-57B	2 1/4"	1/2"	15/16"	13/64"	5/32"	13°	2 51/64"



Replacement Parts:

Ball Bearing SG-25 25mm x 1/4"	Spring Washer 1920040 5/16 x 3/16	Torx Screw 1930085



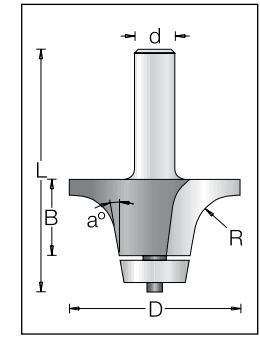
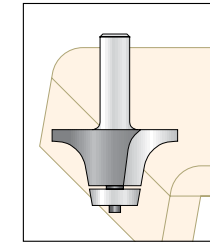
Rounding Over Undermount Bowl Bits, 2 Flutes

Tool no	Dia.	Shank	B	R	a	Length
153R8-54	2 1/8"	1/2"	1"	1/2"	18°	3 1/16"
153R8-57	2 1/4"	1/2"	1 1/4"	9/16"	18°	3 5/16"



Replacement Parts:

Ball Bearing SG-22A 7/8 x 1/4	Spring Washer 1950800 3/8 x 3/16	Torx Screw 1930080



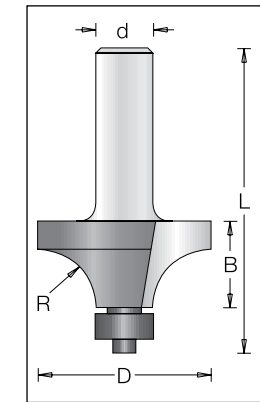
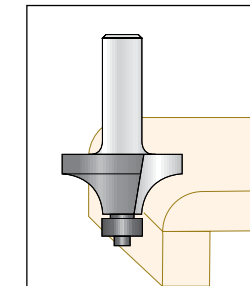
Round Over Bit, 2 Flutes

Tool no	Dia.	Shank	B	R	Length
109RC8-8	1 1/8"	1/2"	1/2"	5/16"	2 5/16"
109RC8-10	1 1/4"	1/2"	5/8"	3/8"	2 7/16"
109RC8-12	1 1/2"	1/2"	3/4"	1/2"	2 9/16"
109RC8-19	2"	1/2"	1"	3/4"	2 3/4"



Replacement Parts:

Ball Bearing SG-12 1/2 x 3/16	Washer 1920040 5/16 x 3/16	Torx Screw 1930010



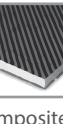
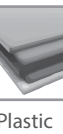
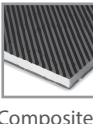
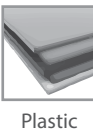
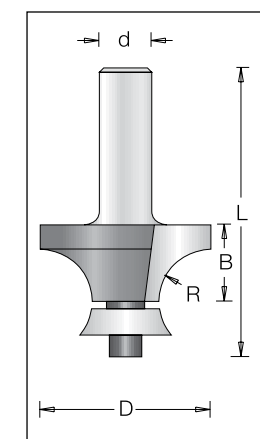
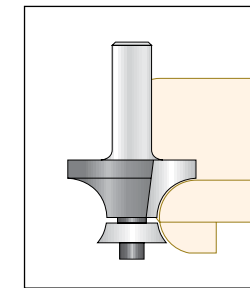
Corner Rounding Bits with Radius Bearing, 2 Flutes

Tool no	Dia.	Shank	B	R	Length	Parts
109RD8-12	1 5/8"	1/2"	47/64"	1/2"	2 1/16"	A
109RD8-19	2 1/8"	1/2"	63/64"	3/4"	2 29/32"	B
109RD8-25	2 5/8"	1/2"	1 15/64"	1"	2 1/16"	C



Replacement Parts:

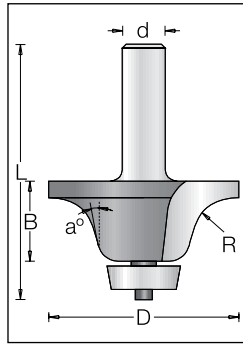
Ball Bearing A SG-22C 21.4mm x 1/4	Washer 1920040 5/16 x 3/16	Torx Screw 1930080
B SG-22D 19.4mm x 1/4	1920040 5/16 x 3/16	1930080
C SG-22E 18.5mm x 1/4	1920040 5/16 x 3/16	1930080



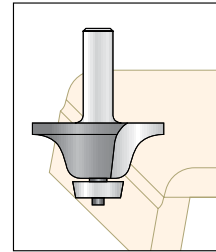
Advanced Materials

Solid Surface Materials

Roman Ogee Undermount Bowl Bits, 2 Flutes



Tool no	Dia.	Shank	B	R	a	Length
152R8-54	2 1/8"	1/2"	1"	1/2"	15°	3"
152R8-57	2 3/8"	1/2"	1 1/4"	9/16"	15°	3 3/8"

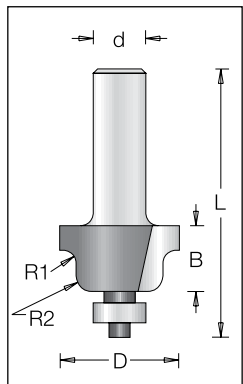


Replacement Parts:

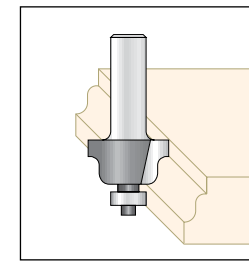
Ball Bearing	Spring Washer	Torx Screw
SG-22A 7/8 x 1/4	1950800 3/8 x 3/16	1930080



Roman Ogee Bit, 2 Flutes



Tool no	Dia.	Shank	B	R1	R2	Length
113R8-29	1 1/8"	1/2"	5/8"	1/8"	5/32"	2 9/16"

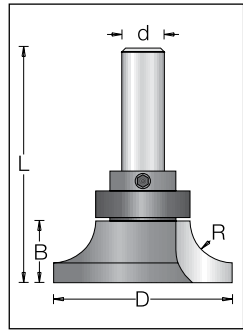


Replacement Parts:

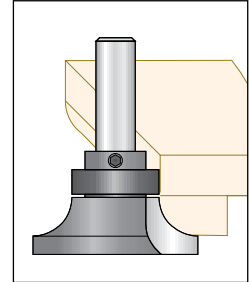
Ball Bearing	Spring Washer	Torx Screw
BB-10A 3/8" x 1/8"	1920010 3/8" x 1/8"	1930070



Inverted (Under-Cut) Round Over Bits, 2 Flutes



Tool no	Dia.	Shank	B	R	Length
159R8-12	2 1/8"	1/2"	3/4"	1/2"	2 7/8"
159R8-19	2 5/8"	1/2"	1"	3/4"	3"

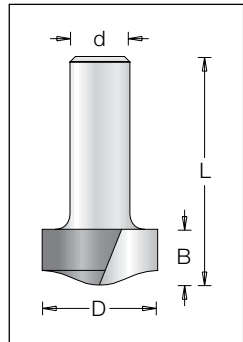


Replacement Parts:

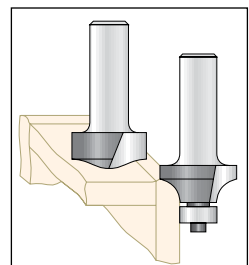
Ball Bearing	Lock ring	Torx Screw
SG-28.5 1 1/8 x 15mm	1970200 21mm x 1/2"	1930210



Corner Top Bit - No Drip



Tool no	Dia.	Shank	B	Length
130R8-25	1"	1/2"	1/2"	2 1/8"



Advanced Materials

Solid Surface Materials

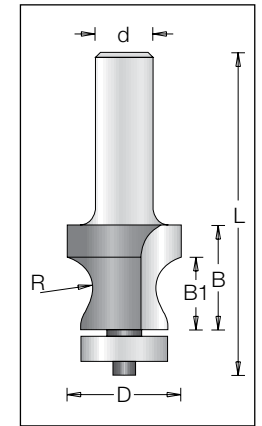
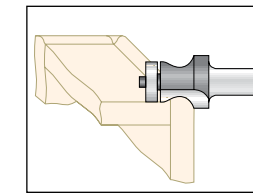
Corner Top Bit - No Drip

Tool no	Dia.	Shank	B	B1	R	Length
155R8-25	1"	1/2"	7/8"	5/8"	5/16"	2 7/8"
155R8-26	1"	1/2"	1 1/8"	15/16"	5/16"	3 1/16"



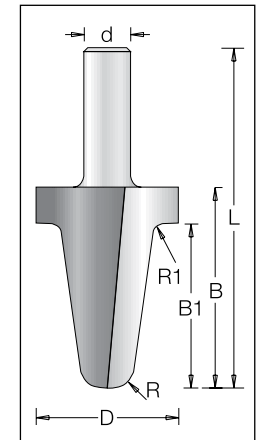
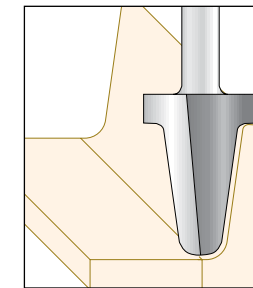
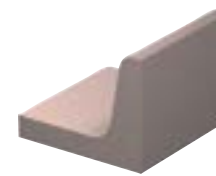
Replacement Parts:

Ball Bearing	Spring Washer	Torx Screw
SG-19 3/4" x 1/4"	1950800 3/8" x 3/16"	1930080



Upright / Corner Cove Bits, 2 Flutes

Tool no	Dia.	Shank	B	B1	R	R1	Length
155R8-39A	1 17/32"	1/2"	1 37/64"	1 3/16"	15/64"	1/8"	3 1/16"
155R8-39B	1 17/32"	1/2"	2 5/32"	1 25/32"	15/64"	1/8"	3 11/16"



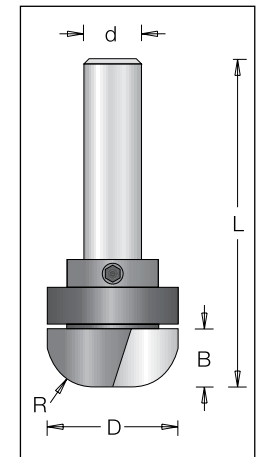
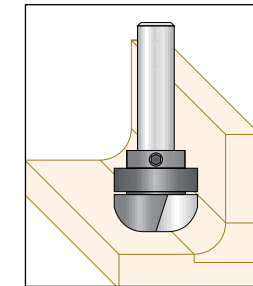
Coving / Core Box Bit, 2 Flutes

Tool no	Dia.	Shank	B	R	Length
106RC8-10	1 1/8"	1/2"	1/2"	25/64"	2 7/8"

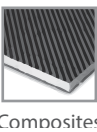
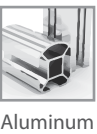
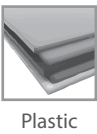


Replacement Parts:

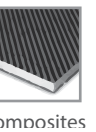
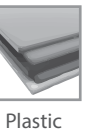
Ball Bearing	Lock ring	Torx Screw
SG-28.5 1 1/8 x 15mm	1970200 21mm x 1/2"	1930210



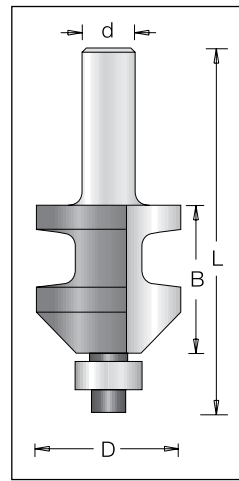
Advanced Materials



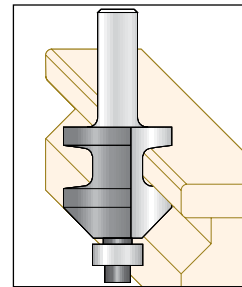
Advanced Materials



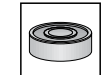
Bevel Hob Bit



Tool no	Dia.	Shank	B	R	Length
155R8-35	1 3/8"	1/2"	1 27/64"	1/8"	2 7/8"



Replacement Parts:



Ball Bearing
BB-16
5/8 x 1/4



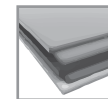
Washer
1920310
3/8 x 1/4



Torx Screw
1930080



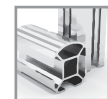
Under Mount Profile Bowl Bit, 2 Flutes



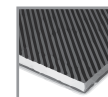
Plastic



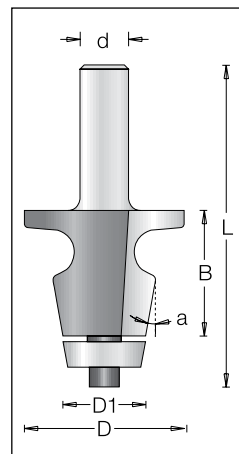
Solid Surface Materials



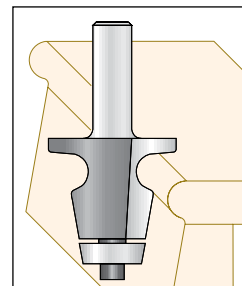
Aluminum



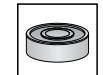
Composites



Tool no	Dia.	D1	Shank	B	R	a	Length
155R8-42	1 3/8"	7/8"	1/2"	1 5/16"	15/64"	10°	3 5/16"



Replacement Parts:



Ball Bearing
SG-22A
7/8 x 1/4



Washer
1920040
5/16 x 3/16

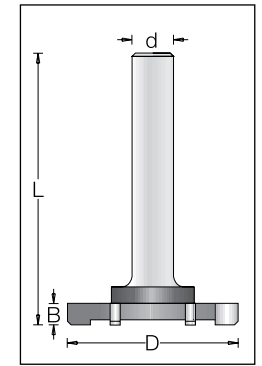
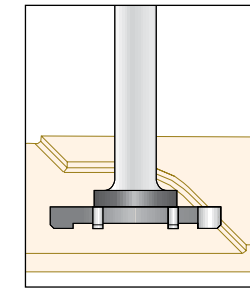
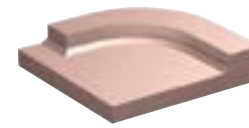


Torx Screw
1930080



Six Wing Trimmer

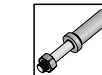
Tool no	Dia.	Shank	B	Length
163R8-52	2 1/16"	1/2"	1/4"	3 5/16"



Tongue & Groove - Jointing Set

Tool no	Dia.	Shank	B	B1	B2	Length
143R8-48	1 7/8"	1/2"	3/8"	5/32"	5/64"	3"

Replacement Parts:



Arbour & Nut
1900048
Dia 5/16"



Super Guide Bearing
SG-40
40mm x 5/16"



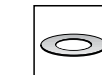
Super Guide Bearing
SG-43
43mm x 5/16"



2 Groovers
108R3-4
B = 5/32"



Groover
108R3-2
B = 5/64"



Shim
1920160
6mm



Shim
1920400
3.15mm



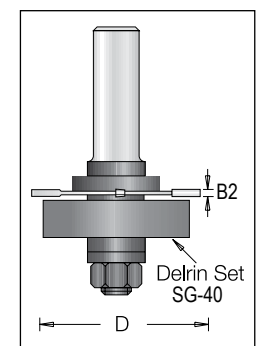
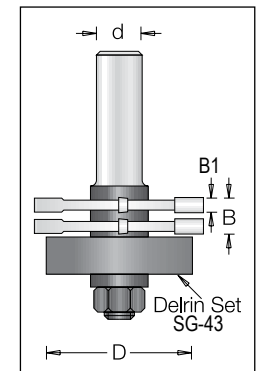
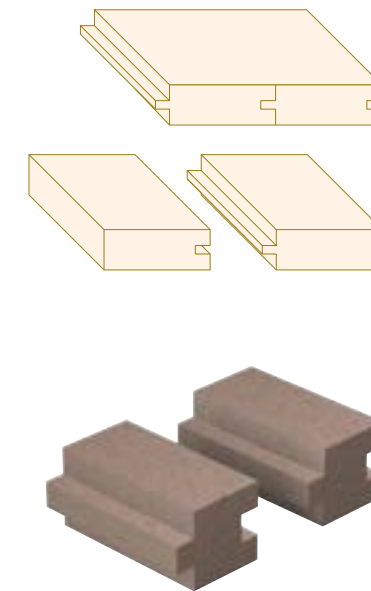
2 Shims
1920110
1mm



Shim
1921000
0.1mm

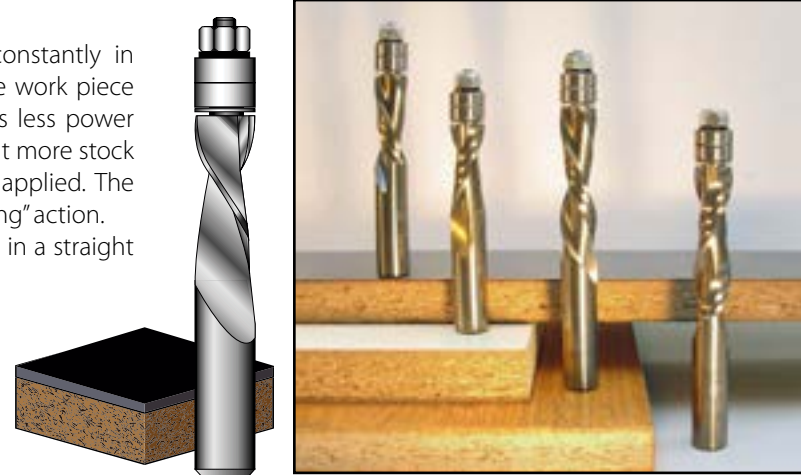


Shim
1920500
0.05mm



2 Flute Spiral - Upcut & Downcut Solid Carbide Router Bits with Ball Bearing Guides

Spiral bits have a cutting edge that is constantly in contact with the material. The load on the work piece and the bit is constant, uniform and draws less power than the conventional straight bit. As a result more stock can be removed and faster feed rates can be applied. The cut is a "peeling" action rather than a "chipping" action. Spiral bits perform best at higher feed rates in a straight line and require more hold-down pressure.



2 Flute Spiral - Upcut Solid Carbide Router Bits

For the ultimate, chip-free finish in laminate, melamine, solid surface and fragile veneers, and for template work of all kinds. The twin ball-bearing pilot enhances the stability of the tool. Upcut spiral for optimum chip flow and improved finish on the bottom of the board.

For use on routers with or without CNC control.

Tool no	Dia.	Shank	B	Length
SCB812	1/2"	1/2"	1 1/4"	3 3/4"
SCB812B	1/2"	1/2"	2"	4 3/4"

Replacement Parts:

Ball Bearing	Washer	Lock Nut	Washer
BB-12 1/2 x 3/16	1920070 1/2 x 3/16	1981210 NC8-32	1950800 3/8 x 3/16

2 Flute Spiral - Downcut Solid Carbide Router Bits

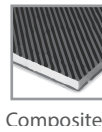
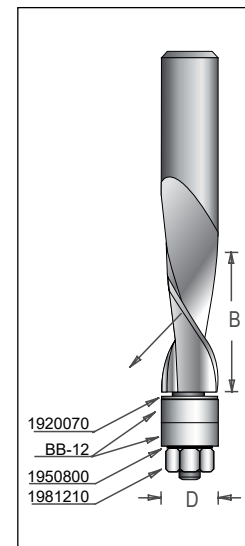
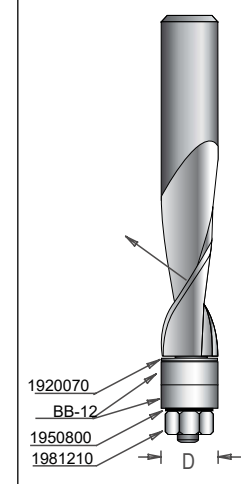
For the ultimate, chip-free finish in laminate, melamine, solid surface and fragile veneers, and for template work of all kinds. The twin ball-bearing pilot enhances the stability of the tool. Downcut for better clamping when machining small work pieces and improved finish on the top of the board.

For use on routers with or without CNC control.

Tool no	Dia.	Shank	B	Length
SCB812DC	1/2"	1/2"	1 1/4"	3 3/4"
SCB812BDC	1/2"	1/2"	2"	4 3/4"

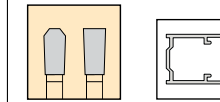
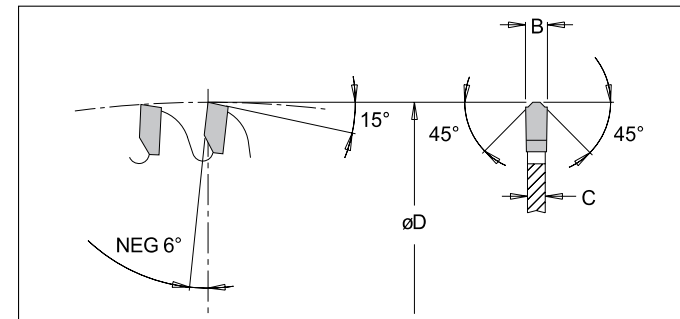
Replacement Parts:

Ball Bearing	Washer	Lock Nut	Washer
BB-12 1/2 x 3/16	1920070 1/2 x 3/16	1981210 NC8-32	1950800 3/8 x 3/16

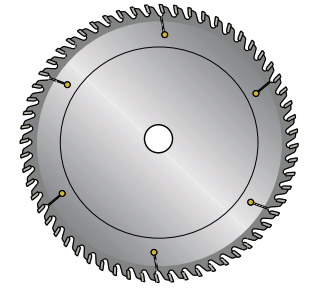


For Non Ferrous Metal	Aluminum Bars	For Miter Saw Machines	Metal Cutting/ Wood/ PVC/ Aluminum	"O" Flute Spiral Router Bits		
339	340	340	340	341		

Carbide Tipped Saws for Non Ferrous Metal



For cutting aluminum sheets, tubing extrusions and other non ferrous metals such as copper, brass, lead and magnesium. For smooth cutting, use lots of lubricant and a clamping device.



Tool No.	Dia.	Teeth	Kerf	Body Kerf
6 1/4-48 N/F	6 1/4"	48	.110" (2.8mm)	5/8"
♦ 7 1/4-48 N/F	7 1/4"	48	.110" (2.8mm)	5/8"
7 1/4-58 N/F	7 1/4"	58	.110" (2.8mm)	5/8"
8-48 N/F	8"	48	.110" (2.8mm)	5/8"
8-64 N/F	8"	64	.110" (2.8mm)	5/8"
8.5-64 N/F	8 1/2"	64	.110" (2.8mm)	5/8"
9-60 N/F	9"	60	.110" (2.8mm)	5/8"
10-60 N/F	10"	60	.126" (3.2mm)	5/8"
10-80 N/F	10"	80	.126" (3.2mm)	5/8"
10-100 N/F	10"	100	.126" (3.2mm)	5/8"
12-72 N/F	12"	72	.126" (3.2mm)	1"
12-96 N/F	12"	96	.126" (3.2mm)	1"
* 12-96 N/F-40	12"	96	.126" (3.2mm)	40mm + 4PH 12mm x 64CC
13-80 N/F-32	13"	80	.126" (3.2mm)	32mm +2PH
13-102 N/F	13"	102	.126" (3.2mm)	1"
13-102 N/F-32	13"	102	.126" (3.2mm)	32mm
14-84 N/F	14"	84	.126" (3.2mm)	1"
14-108 N/F	14"	108	.126" (3.2mm)	1"
15-100 N/F	15"	100	.110" (2.8mm)	1"
15-100 N/F-32	15"	100	.110" (2.8mm)	32mm + 2 PH
16-96 N/F	16"	96	.149" (3.8mm)	1"
16-120 N/F	16"	120	.149" (3.8mm)	1"
18-108 N/F	18"	108	.157" (4.0mm)	1"
18-120 N/F	18"	120	.157" (4.0mm)	1"
20-120 N/F	20" (500mm)	120	.173" (4.4mm)	1"
20-120 N/F-32	20" (500mm)	120	.157" (4.0mm)	32mm
20-120 N/FTHIN	20" (500mm)	120	.142" (3.6mm)	1"

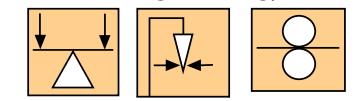
* For Scotchman model: CPO 315 HPA NF

Note: The material must be clamped firmly to the table on both sides during cutting operation. The use of coolant is very important.

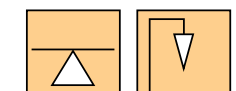


♦ Diamond Knockout

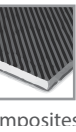
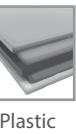
Manufacturing Technology:



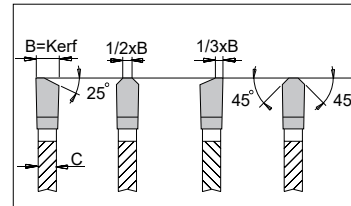
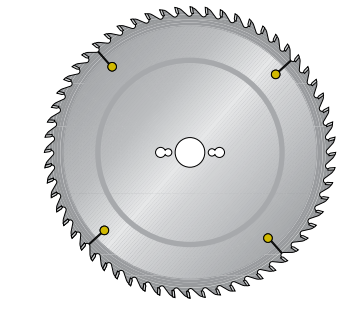
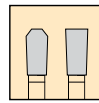
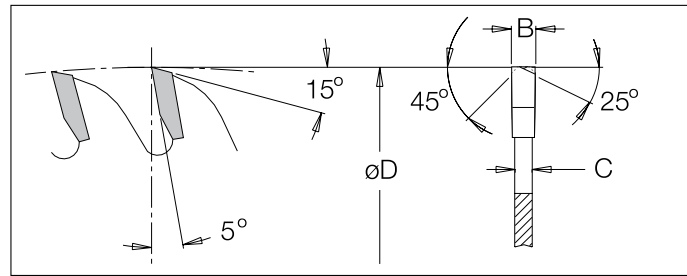
Dynamic Balance Dynamic Straightness Tension



Balance Straight



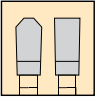
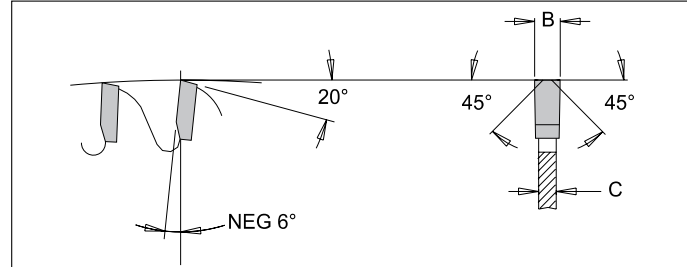
Aluminum Bars Saw Blade



Tool no.	Dia.	Style	Teeth	Kerf
22-120 N/F-30	22" (550mm)	120	.173" (4.4mm)	30mm

Note: The material must be clamped firmly to the table on both sides during cutting operation. The use of coolant is very important.

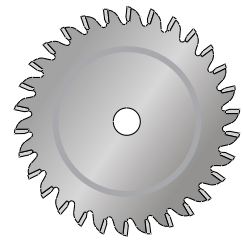
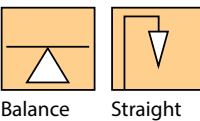
Carbide Tipped Saws for Miter Saw Machines



Used for milling, clean up and grooving of aluminum welds and cutting out welding tacks. Used mainly in the boat building industry.

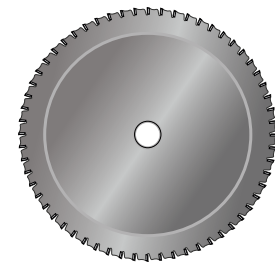
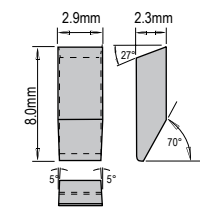
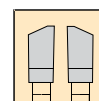
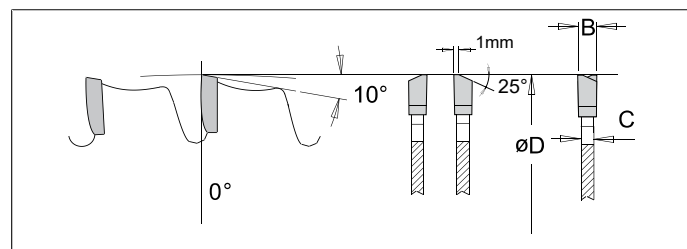
Used with hand held grinder

Manufacturing Technology:



Tool no.	Dia.	Style	Teeth	Kerf
4-24 N/F	100mm	24	.154" (3.9mm)	5/8"
4-30 N/F	100mm	30	.154" (3.9mm)	5/8"
4 1/2-24 N/F	115mm	24	.154" (3.9mm)	7/8"
4 1/2-30 N/F	115mm	30	.154" (3.9mm)	7/8"

Carbide Tipped Metal Cutting/Wood/PVC/Aluminum Saw Blades



★ 6000 MAX. RPM
★ 7000 MAX. RPM

Multi purpose metal cutting saw blades. For cutting ferrous metals (up to 25 Hrc), Aluminum, wood and composite material. Used with Cut Off machines at high RPM.

Suitable for above metal cutting saw blades.

Tool no.	Dia.	Teeth	Kerf	Bore
8-40 MET	8"	40	.086" (2.2mm)	5/8"
10-48 MET	10"	48	.094" (2.4mm)	5/8"
★ 12-60 MET	12"	60	.094" (2.4mm)	1"
★ 12-80 MET	12"	80	.094" (2.4mm)	1"
★ 14-90 MET	14"	90	.094" (2.4mm)	1"

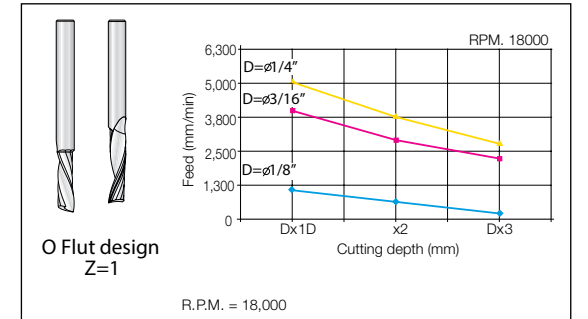
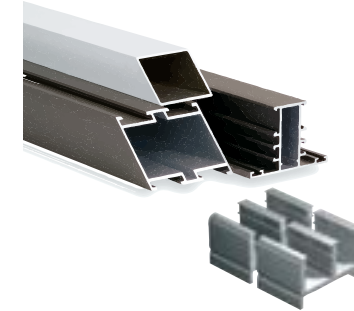
Tool no.	Description
TIPS-MET	premium carbide tips for metal cutting saw blades

Solid Carbide "O" Flute Spiral Router Bits for Aluminum NEW

Dimar's aluminum cutting solid carbide spiral O Flute router bits are designed for use in various nonferrous materials such as aluminum, brass and copper. Dimar's O'Flute design allows the cutting chips to form naturally and follow the natural flow of the cutting geometry without hitting sharp corners that would otherwise slow their exit from the cutting passage. These special bits feature a mirror finish that will guarantee you a clean, smooth cut in the most difficult non-ferrous materials. Designed for use in most CNC machines.

Great For Cutting:

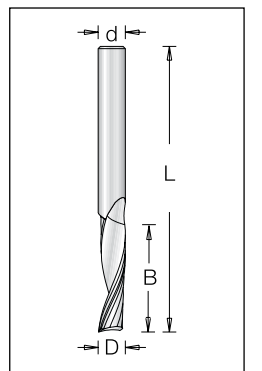
- Aluminum
- Brass
- Copper
- Non-Ferrous Metals



"O" Flute Spiral-Upcut Solid Carbide- for Aluminum, Mirror Finish, 1 Flute

Upcut spiral for optimum chip flow and improved finish on the bottom of the board. Suitable for fine 'finishing' cuts in aluminum with upward chip removal.

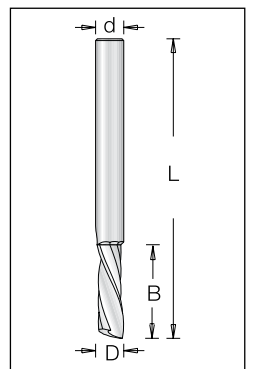
Tool no	Dia.	Shank	B	Length
SCNF43	1/8"	1/8"	5/16"	1 1/2"
SCNF45	3/16"	1/4"	1/2"	2"
SCNF463	1/4"	1/4"	5/8"	2"



"O" Flute Spiral - Downcut Solid Carbide - for Aluminum, Mirror Finish, 1 Flute

Downcut spiral for improved finish on the top of the board. Suitable for fine 'finishing' cuts in aluminum with downward chip removal.

Tool no	Dia.	Shank	B	Length
SCNF43DC	1/8"	1/8"	5/16"	1 1/2"
SCNF45DC	3/16"	1/4"	1/2"	2"
SCNF463DC	1/4"	1/4"	5/8"	2"

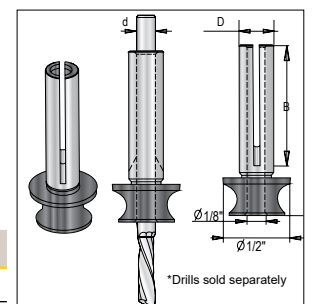


Adapter for 1/8" Shank Bits

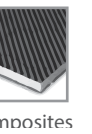
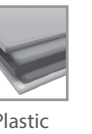
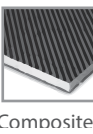
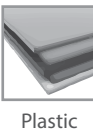
A unique adapter specifically designed to accept 1/8" diameter bits.

The easy-grip adapter will ensure that bits are fixed firmly and properly inserted into the collet. We recommend that you opt for a "unified" shank and cutting diameter as this will ensure optimum strength during the routing operation.

Tool no	d	D	B	Length
1927124	1/8"	1/4"	7/8"	1 1/4"



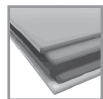
*Drills sold separately



ACM Aluminum Composite Materials



Advanced Materials



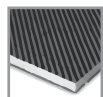
Plastic



Solid Surface Materials



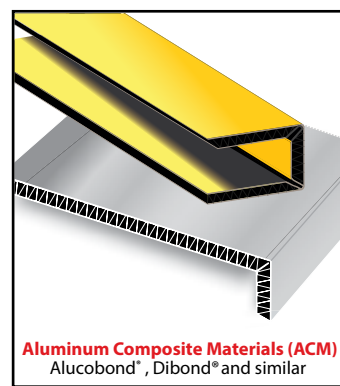
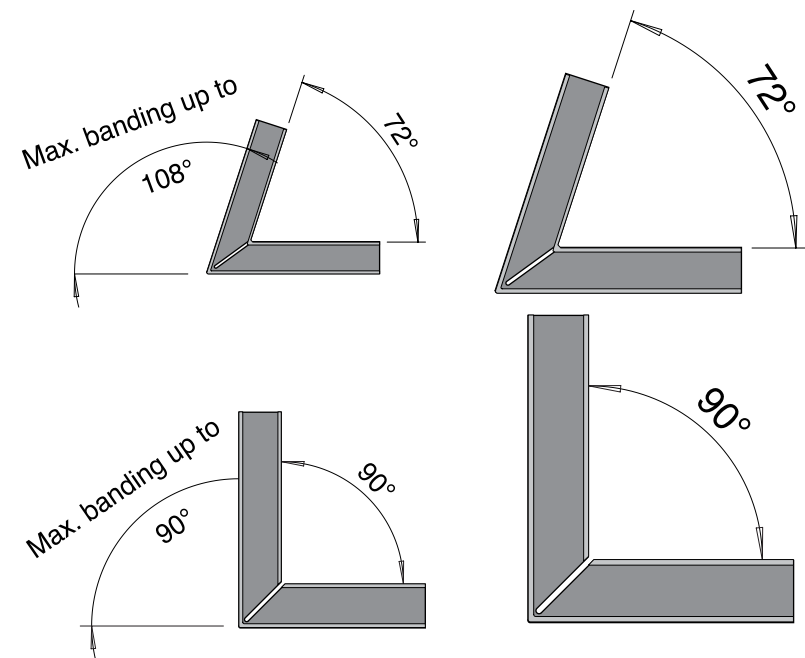
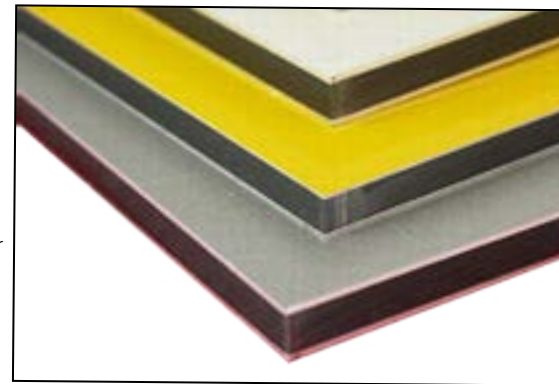
Aluminum



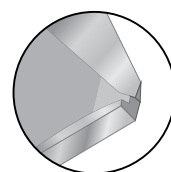
Composites

Folding Routers, Cutters & Saws for Aluminum Combined with Plastics

A complete set of tools for folding applications in sandwich board consisting of aluminum and plastics, such as Alucobond or Dibond. To be used with a variety of machines and power tools: Table saws, manual circular saws, CNC machines and routers.



Aluminum Composite Materials (ACM)
Alucobond®, Dibond® and similar



"V" Groove

Carbide Tipped Double Edge Folding V Groove: 90° & 108°

NEW

These bits are widely used as cladding for many diverse applications such as office buildings, hospitals, convention centers, airports, hotels. Routing V-shaped grooves, whereby the aluminum cover and a part of the polyethylene core is removed, allows folding/creasing the remaining material by hand.

Specially designed router bits are used to route V-grooves in the above materials to allow easy bending without cracking the bent area. Route within 0.8mm from the bottom of the composite panel to achieve a clean bend/radius.

Routing V-shaped grooves, whereby the aluminum cover and a part of the polyethylene core is removed, allows folding the remaining material by hand. Ideal for wall panel fabrication.

Designed for cutting and scoring aluminum sandwich materials including:

- Aluminum, Clay, Zinc & Wood Composite Panels
- Aluminum Composite Materials (ACM)
- Aluminum Composite Panel (ACP)*
- ALPOLIC® Copper Composite Material (CCM)
- Alucobond®
- Alupanel®
- Dibond®
- Durabond
- e-panel™
- Etalbond®
- Phenolics
- Plastic/Acrylic
- Plexiglas®
- Titanium Composite

18,000-24,000
MAX. RPM

Tool no	Dia.	D1	B	B1	a	a1	Shank	Length
105R412AL	1/2"	3/32"	3/8"	13/64"	90°	45°	1/4"	2"
105R812AL	1/2"	3/32"	3/8"	13/64"	90°	45°	1/2"	2"

Specially designed router bits are used to route V-grooves in the above materials to allow easy bending without cracking the bent area. Route within 0.8mm from the bottom of the composite panel to achieve a clean bend/radius.

Routing V-shaped grooves, whereby the aluminum cover and a part of the polyethylene core is removed, allows folding the remaining material by hand. Ideal for wall panel fabrication.

Designed for cutting and scoring aluminum sandwich materials including:

- Industrial quality, carbide tipped
- For use on routers and CNC machines
- ACM panels may be used both indoors and outdoors

Tool no	Dia.	D1	B	B1	a	a1	Shank	Length
105R412BAL	1/2"	3/32"	3/8"	5/32"	108°	36°	1/4"	2 3/64"
105R812BAL	1/2"	3/32"	3/8"	5/32"	108°	36°	1/2"	2 3/64"

Advanced Materials



Plastic



Solid Surface Materials

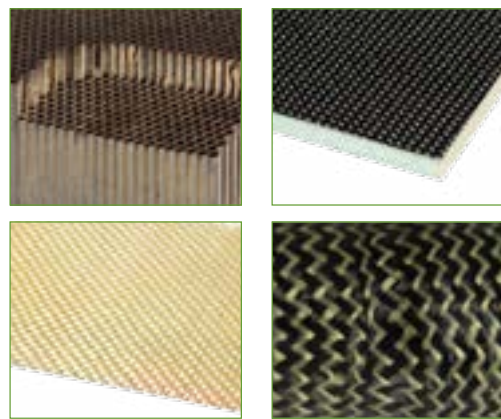


Aluminum



Composites

Composites

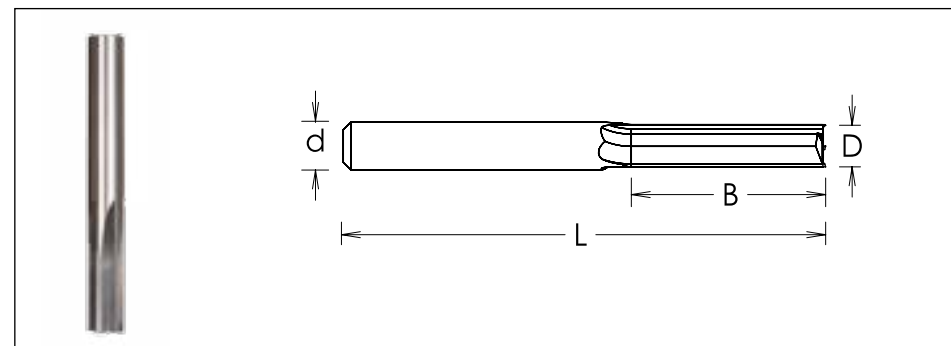


NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW
#7301	#7300	#7300	#7301	#7301	#SO10	#7301	#7301
344	345	346	346	347	347	348	349

Straight Shear Multi Flute

Solid carbide straight router suitable for sizing and pocket milling of honeycomb parts, combined with AFRP layers. Nano grain carbide with super finish grinding for maximum durability against wear.

NEW



Tool No.	Uncoated	Dia	B	Shank	Flutes	Length
73011013	6mm	16mm	6mm	2 + 2	60mm	
73011027	22mm	80mm	22mm	2 + 2 + 2	80mm	

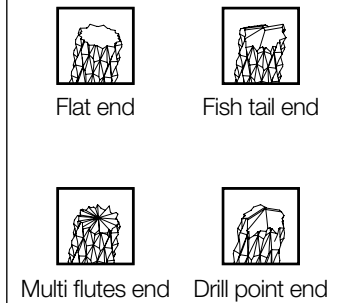
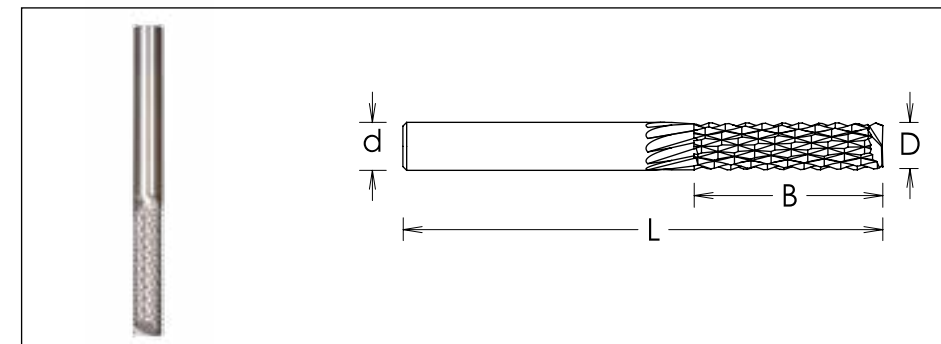
Tool No.	Uncoated	Dia	B	Shank	Flutes	Length
73011034	1/4"	5/8"	1/4"	2 + 2	2 1/2"	
7301105Z	3/16"	5/8"	3/16"	2 + 2	2 1/2"	
73011046	7/8"	7/8"	7/8"	2 + 2 + 2	3 1/4"	

Type of composite materials	Without Coating		CA Coating	
	VC (m/Min)	Feed (mm/REV)	VC (m/Min)	Feed (mm/REV)
AFRP	80-100	0.1-0.2	-	-
Aramid Fiber Reinforced Thermosetting Plastics				

Burrs Tools

Solid tungsten carbide endmill suitable for sizing ,pockets and milling holes, rough finish. For use on routers and machining centers with or without CNC systems.

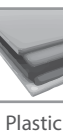
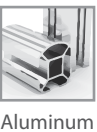
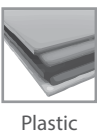
NEW



Tool No.			Dia	B	Shank	Length
Plane End	"Fish Tail" End	"Multi utes" End+CA				
73001013	73001093	CA73001173	3	9	6	50
73001023	73001103	CA73001183	4	12	6	50
73001033	73001113	CA73001193	5	15	6	50
73001043	73001123	CA73001203	6	25	6	75
73001055	73001135	CA73001215	8	32	8	76
73001067	73001147	CA73001227	10	28	10	80
73001077	73001157	CA73001237	10	40	10	90
73001089	73001169	CA73001249	12	50	12	100

Tool No.			Dia	B	Shank	Length
Plane End	"Fish Tail" End	"Multi utes" End+CA				
73001254	73001334	CA73001414	3	9	6	50
73001264	73001344	CA73001424	4	12	6	50
73001274	73001354	CA73001434	5	15	6	50
73001284	73001364	CA73001444	6	25	6	75
7300129Z	7300137Z	CA7300145Z	8	32	8	76
73001306	73001386	CA73001466	10	28	10	80
73001316	73001396	CA73001476	10	40	10	90
73001328	73001408	CA73001488	12	50	12	100

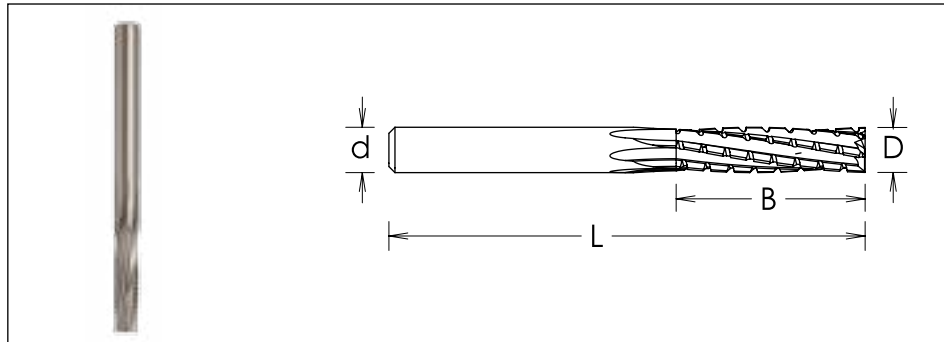
Type of composite materials	Without Coating		CA Coating	
	VC (m/Min)	Feed (mm/REV)	VC (m/Min)	Feed (mm/REV)
GFRP	9-130	0.1-0.4	200-350	0.2-0.6
Glass Fiber Reinforced Thermosetting Plastics				
CFRP	100-120	0.1-0.4	200-400	0.2-0.6
Carbon Fiber Reinforced Thermosetting Plastics				



Multi Flutes Endmill - Up Shear

NEW

Solid tungsten carbide endmill suitable for sizing ,pockets and milling holes, finefinish. Upcut spiral for optimum chip flow and improved finish on the bottom of the FRP parts.For use on routers and machining centers with or without CNC systems.



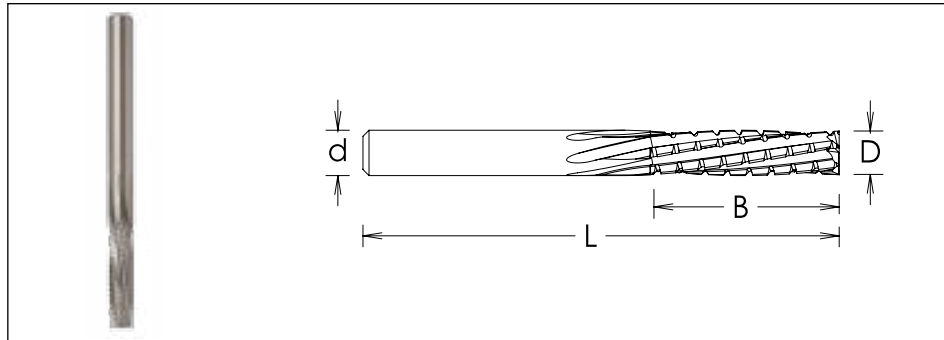
Metric					
Tool No.		Dia	B	Shank	Length
Uncoated	CA Coating	1/4"	1"	1/4"	2 1/2"
73003054	CA73003054	5/16"	1 1/4"	5/16"	3"
7300306Z	CA7300306Z	3/8"	1 1/2"	3/8"	3 1/4"
73003076	CA73003076	1/2"	2"	1/2"	4"

Imperial					
Tool No.		Dia	B	Shank	Length
Uncoated	CA Coating	6mm	25mm	6mm	60mm
73003013	CA73003013	8mm	32mm	8mm	76mm
73003025	CA73003025	10mm	40mm	10mm	90mm
73003037	CA73003037	12mm	35mm	12mm	100mm

Multi Flutes Endmill - Down Shear

NEW

Solid tungsten carbide endmill suitable for sizing ,pockets and milling holes, fine finish. Upcut spiral for optimum chip flow and improved finish on the bottom of the FRP parts. For use on routers and machining centers with or without CNC systems.



Metric					
Tool No.		Dia	B	Shank	Length
Uncoated	CA Coating	1/4"	1"	1/4"	2 1/2"
73005054	CA73005054	5/16"	1 1/4"	5/16"	3"
7300506Z	CA7300506Z	3/8"	1 1/2"	3/8"	3 1/4"
73005076	CA73005076	1/2"	2"	1/2"	4"

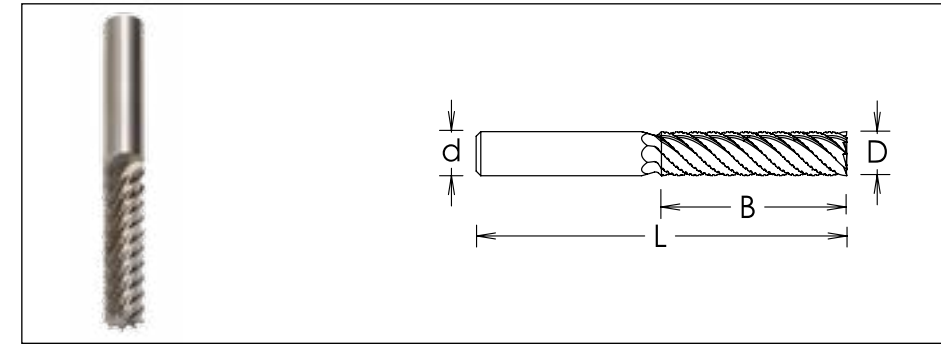
Imperial					
Tool No.		Dia	B	Shank	Length
Uncoated	CA Coating	6mm	25mm	6mm	60mm
73005013	CA73005013	8mm	32mm	8mm	76mm
73005025	CA73005025	10mm	40mm	10mm	90mm
73005037	CA73005037	12mm	35mm	12mm	100mm

Type of composite materials	Without Coating		CA Coating	
	VC (m/Min)	Feed (mm/REV)	VC (m/Min)	Feed (mm/REV)
GFRP Glass Fiber Reinforced Thermosetting Plastics	90-130	0.08-0.25	200-350	0.15-0.4
CFRP Carbon Fiber Reinforced Thermosetting Plastics	100-120	0.08-0.25	200-400	0.15-0.4

Hogger end Mill

NEW

Solid tungsten carbide endmill, suitable for sizing and flatness of honey comb parts. Carbide will offer maximum durability. For use on routers and machining centers with or without CNC systems.



Metric					
Tool No.		Dia	B	Shank	Length
Uncoated		3/8"	7/8"	3/8"	3"

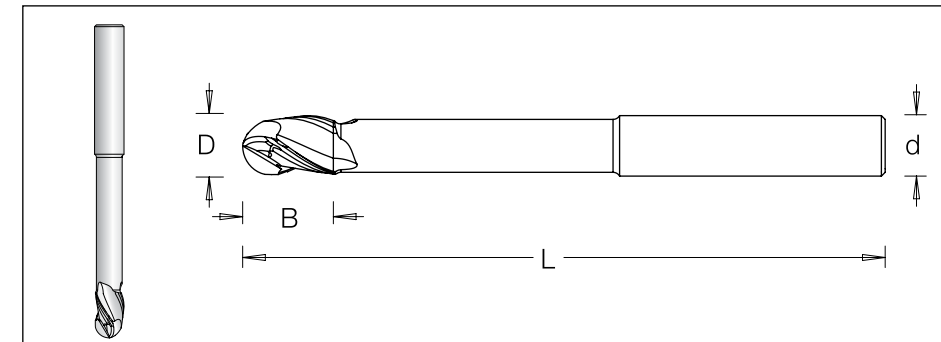
Imperial					
Tool No.		Dia	B	Shank	Length
Uncoated		10mm	40mm	10mm	80mm

Type of composite materials	Without Coating		CA Coating	
	VC (m/Min)	Feed (mm/REV)	VC (m/Min)	Feed (mm/REV)
AFRP Aramid Fiber Reinforced Thermosetting Plastics	40-100	0.3-1	-	-

Solid Carbide Radius Grooving / Ball Nose Endmill

NEW

Solid tungsten carbide router, suitable for round corner, edges, pockets and 3D curving. For use in all types of materials such as MDF, plastics and aluminium. All tools made with neck clearance for deep cuts.



Imperial						
Tool No.		Dia	B	Shank	Flutes	Length
Uncoated		1/4"	3/8"	1/4"	3	3"
73034064		5/16"	1/2"	5/16"	3	3 1/2"
7303407Z		3/8"	5/8"	3/8"	3	4"
73034086		1/2"	3/4"	1/2"	3	5"
73034098		5/8"	1"	5/8"	4	6 1/2"

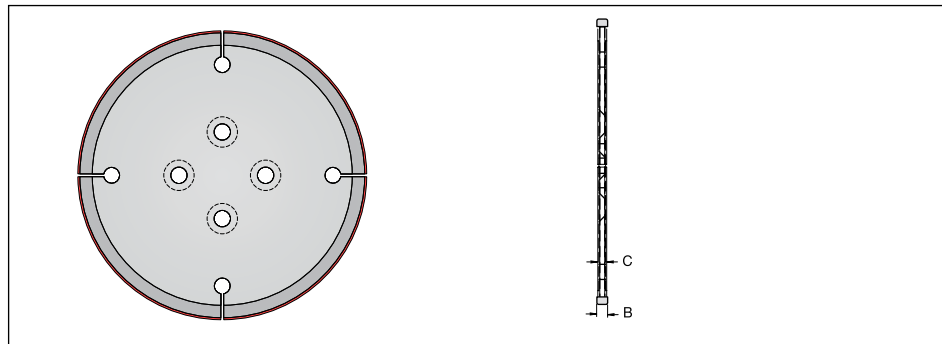
Metric						
Tool No.		Dia	B	Shank	Flutes	Length
Uncoated		6mm	6mm	6mm	3	80mm
73034013		8mm	8mm	8mm	3	85mm
73034025		10mm	10mm	10mm	3	100mm
73034037		12mm	12mm	12mm	3	100mm
73034049		16mm	16mm	16mm	4	150mm



Electro-Plated Diamond Disk

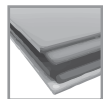
NEW

Electro-plated diamond disk. Suitable for straight, fast cutting of edges at variable heights. Can be used on 5-axis CNC machines. Ideal for GFRP- Glass Fiber Reinforced Thermosetting Plastics and CFRP- Carbon Fiber Reinforced Thermosetting Plastics. Diamond grain size can be adapted to the cutting quality required.



Tool No.	Dia	C	Bore
Uncoated			
73033043	60mm	1.4mm	6mm
73033034	100mm	1.8mm	22mm
73033064	125mm	1.8mm	22mm
7303305Z	180mm	1.8mm	16mm
73033026	250mm	2.8mm	30mm
73033016	300mm	2.8mm	30mm

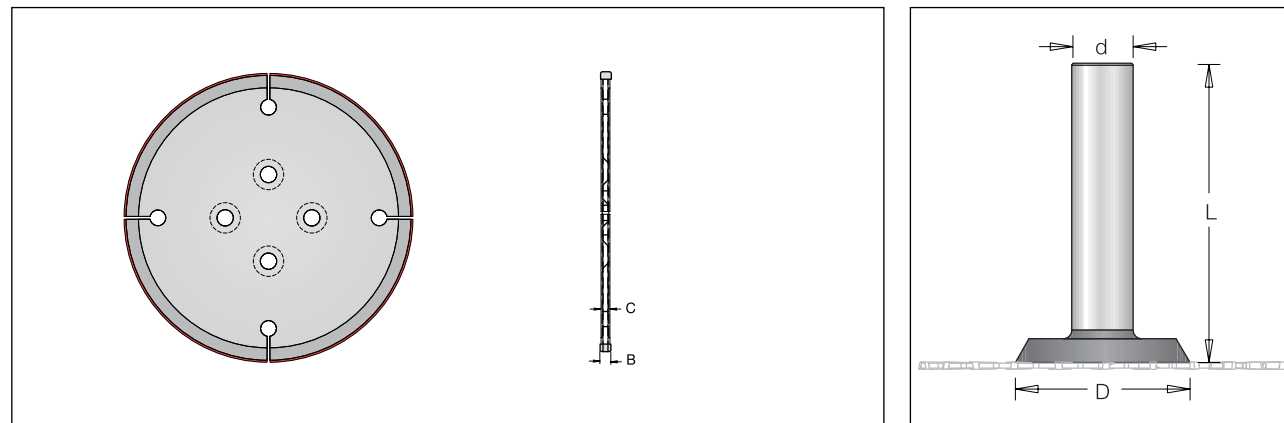
Advanced Materials



Plastic

Electro-Plated Diamond Disk Set

Electro-plated diamond disk mounted on an arbor. Suitable for straight, fast cutting of edges at variable heights. Can be used on 5-axis CNC machines. Ideal for GFRP- Glass Fiber Reinforced Thermosetting Plastics and CFRP- Carbon Fiber Reinforced Thermosetting Plastics. Diamond grain size can be adapted to the cutting quality required.



Tool No.	Dia	B	Shank	Length
Uncoated				
73033053	60mm	1.4mm	6mm	50mm
73033054	60mm	1.4mm	6.35mm	50mm
73033058	60mm	1.4mm	12.7mm	100mm

Replacement Parts:

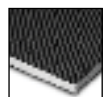
Dimond Disk	73033043
Arbour 6mm	1900263
Arbour 6.35mm	1900264
Arbour 12.7mm	1900268
Screw	1930401
Key	1940200



Solid Surface Materials



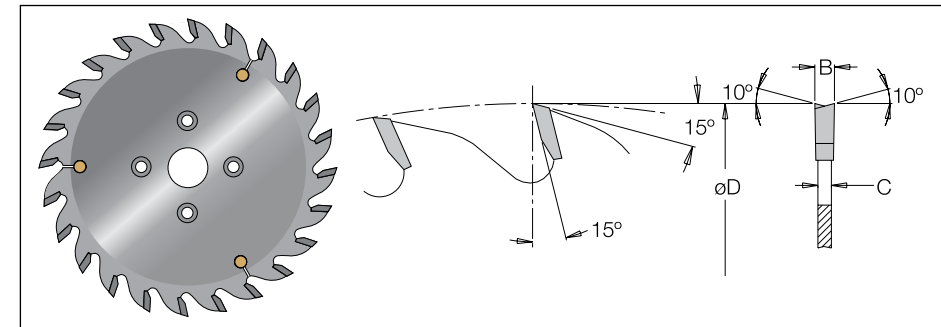
Aluminum



Composites

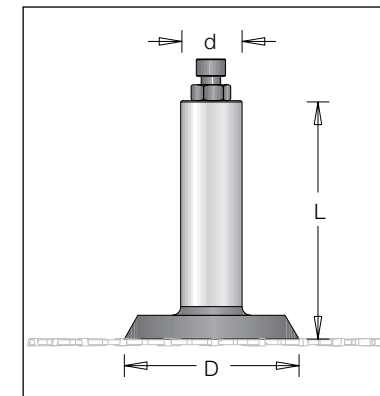
Saw blades for Cutting & Grooving

Tungsten carbide tipped alternate bevel saw blades for cutting and grooving along and across the grain on softwoods, hardwoods and man-made boards (with or without coating).
For use on routers and machining centers with CNC Control.

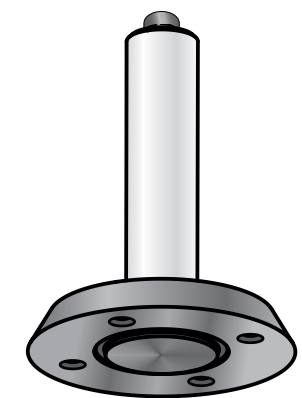
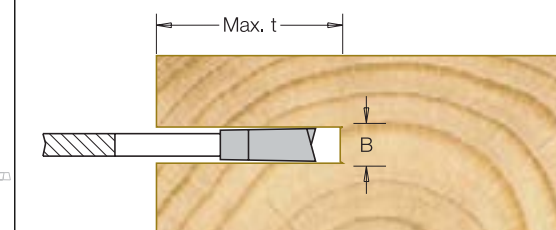


Tool No	Dia.	Teeth	Kerf = B	C	RPM	Max t.	Bore
125243	125mm	24	3mm	2.0mm	19,000	25mm	30
125244	125mm	24	4mm	2.8mm	19,000	25mm	30
125245	125mm	24	5mm	3.5mm	19,000	25mm	30
150243	150mm	24	3mm	2.0mm	9,000	38mm	30
150244	150mm	24	4mm	2.8mm	9,000	38mm	30
150245	150mm	24	5mm	3.5mm	9,000	38mm	30
180303	180mm	30	3mm	2.0mm	7,000	54mm	30
180304	180mm	30	4mm	2.8mm	7,000	54mm	30
180305	180mm	30	5mm	3.5mm	7,000	54mm	30

CNC Arbor



Tool No	Dia.	d	L	⌀
1900250	71mm	20mm	90mm	4 x M5 x ⌀52
190025H	71mm	25mm	90mm	4 x M5 x ⌀52
1900252	71mm	3/4"	90mm	4 x M5 x ⌀52



Replacement Parts:



Allen Screw
1930426
M5 x 12



Allen Key
1940035
S3

Advanced Materials



Plastic



Solid Surface Materials



Aluminum



Composites