



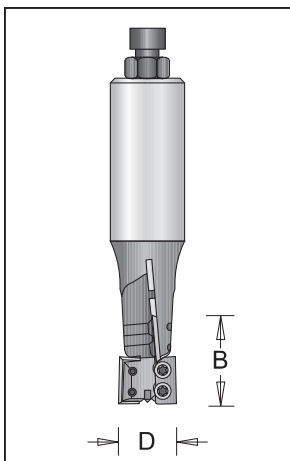
Routing - Insert Tooling - CNC Machine

DIMAR offers a wide variety of tools for CNC machines that provide solutions for the woodworking industry.

CNC Tools are manufactured precisely to perfection with tight tolerances to ensure satisfying results for the most demanding professionals.

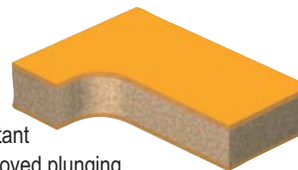
The bodies are made of high quality tool steel that can withstand the most demanding loads by the CNC machines. The tools are fitted with special grades Carbide Teeth, Brazed or Replaceable inserts.

Whether for Grooving, Rabbeting, Beveling, Rounding, Chamfering or Profiling, we have them all!



Straight Up & Down Shear Router Cutter, 2 Flutes

Disposable insert straight router bit with two up and down shear flutes and centre tip. Shear flutes squeeze the material into the middle to give an extra fine finish on both surfaces of laminated and veneered board. Replaceable inserts ensure a constant cutting diameter and finish quality. Centre tip for improved plunging.



For use on CNC routers.

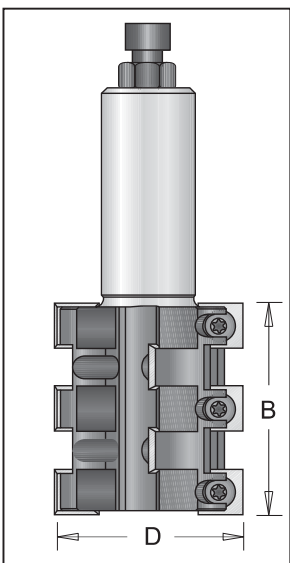
Tool no.	D	Shank	B	Length	Parts	Category
N7R20-20N	20mm	20mm x 55mm	30mm	110mm	14	CNC
N7RL20-20N	20mm	20mm x 55mm	50mm	130mm	15	CNC

Also available with 3/4" and 25mm diameter shanks. Must specify when ordering.



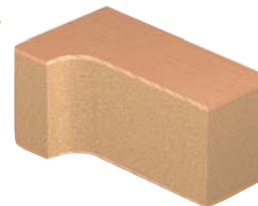
18000! MAX. RPM

Parts page 5



Rough Rebating Router Cutter

Disposable insert straight router bit with multiple cutting edges. Suitable for rough rebating and sizing in softwoods, hardwoods and man-made boards (with or without coating).

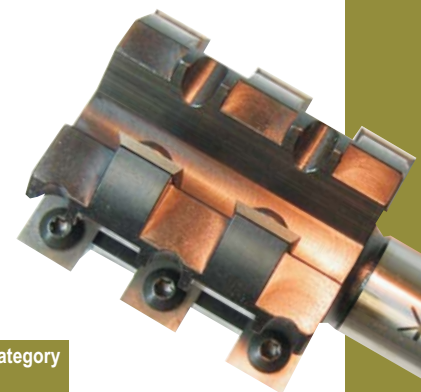


Multiple cutting flutes ensure fine chips are produced for improved chip ejection. Replaceable inserts ensure a constant cutting diameter.

For use on CNC routers.

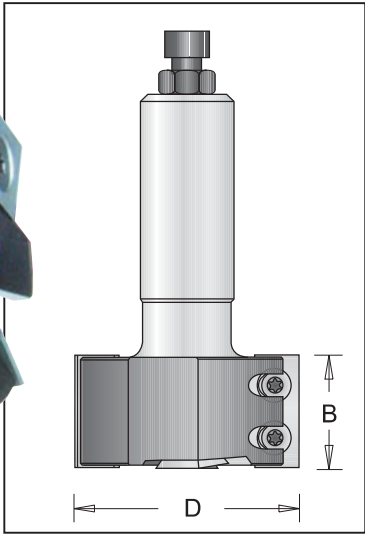
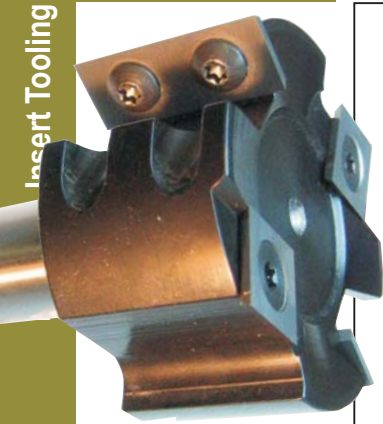
Tool no.	D	Shank	B	Length	No. of Blades	Parts	Category
N119RL20-50	50mm	20mm x 55mm	56mm	113mm	10	16	CNC
N119RLS20-50	50mm	20mm x 55mm	78mm	135mm	14	16	CNC

Also available with 3/4" and 25mm diameter shanks. Must specify when ordering.



18000! MAX. RPM

Parts page 5



Straight Rebater Router Cutter with Scorers

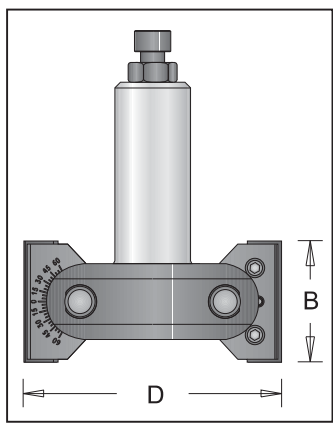
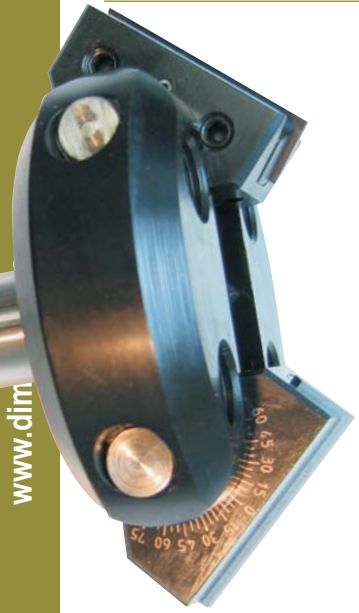
Disposable insert rebating router bit complete with two cutting edges and scorers. Suitable for trimming and rebating in softwoods, hardwoods and man-made boards. Scorers will improve finish at the bottom of the cut. For use on CNC routers.



Tool no.	D	Shank	B	Length	Parts	Cat.
N114R19-40	40mm	3/4"	30mm	100mm	20	CNC
N114R20-40	40mm	20mm x 55mm	30mm	100mm	20	CNC
N114RL20-40	40mm	20mm x 55mm	50mm	120mm	21	CNC
N114R20-60	60mm	20mm x 55mm	30mm	100mm	20	CNC
N114RL20-60	60mm	20mm x 55mm	50mm	120mm	21	CNC

18000! MAX. RPM
Parts page 5

Also available with 3/4" and 25mm diameter shanks. Must specify when ordering.



Adjustable Bevel Router Cutter, 2 Flutes

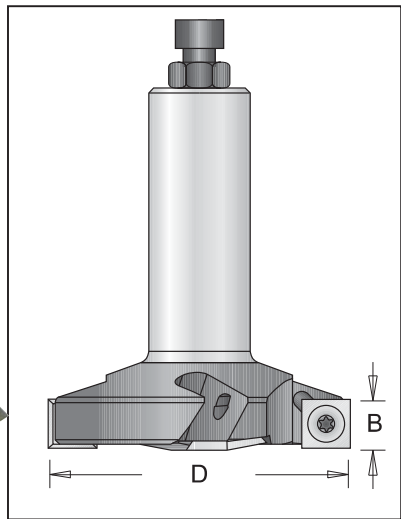
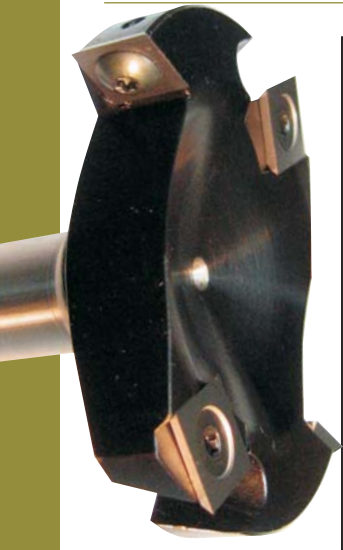
Disposable insert router bit with two flutes. Suitable for producing chamfer cuts at various angles in softwoods, hardwoods and man-made boards. Fast tuning angle of 7.5° steps. Fine tuning angle of 1°. For use on CNC routers.



Tool no.	D	Shank	B	a	Length	Parts	Cat.
N102R19-45	85mm	3/4"	40mm	-45° - +90°	100mm	19	CNC
N102R20-45	85mm	20mm	40mm	-45° - +90°	100mm	19	CNC

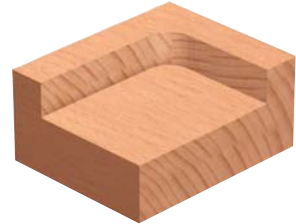
12000! MAX. RPM
Parts page 5

Fast tuning angle of 7.5° step. Fine tuning angle of 1°. Also available with 3/4" and 25mm diameter shanks. Must specify when ordering.



Planing and Rebating Router Cutter

Disposable insert planing and rebating router bit with two cutting flutes and two scorers. Suitable for planing and rebating in softwoods and hardwoods and man-made boards. A good tool for fast removal of material over a large surface area. Scorers will improve finish at the bottom of the cut. For use on CNC routers.









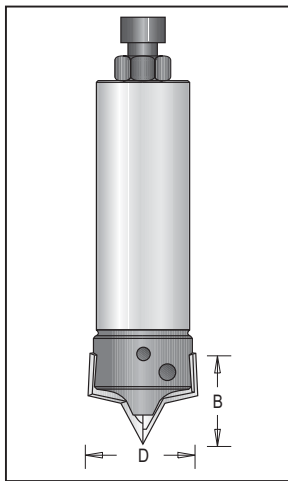
Tool no.	D	Shank	B	Length	Cat.
N163R20-80	80mm	20mm x 60mm	12mm	90mm	CNC

Also available with 3/4" and 25mm diameter shanks. Must specify when ordering.

18000! MAX. RPM

Knives sold in lots of 10 pieces. Price per single knife.

- 
 T.C. Knife
L12
- 
 T.C. Knife
L142
- 
 Torx screw
1933950
- 
 Torx screw
1933700
- 
 Torx key
1941015
- 
 Torx key
1941060



Multi Face Profile Router Cutter

Disposable insert router bit that fits five different profile knives. Suitable for producing various profiles in soft wood, hardwood and man-made boards. For use on CNC routers.



Tool no.	D	Shank	B	α	R	Length	Cat.
N105R20-B51	31.5mm	20mm	25mm	45°		89.0mm	CNC
N105R20-B52	31.5mm	20mm	25mm	30°		89.0mm	CNC
N105R20-B53	31.5mm	20mm	25mm		6.3mm	89.0mm	CNC
N105R20-B54	31.5mm	20mm	25mm		12.5mm	89.0mm	CNC
N105R20-B55	31.5mm	20mm	25mm		4.0mm	89.0mm	CNC



28000! MAX. RPM

Replacement Parts:



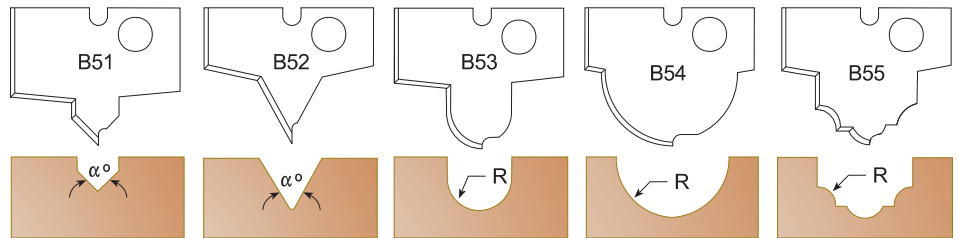
Wedge
1990500
L=28



Allen Screw
1930490
M5 x 10



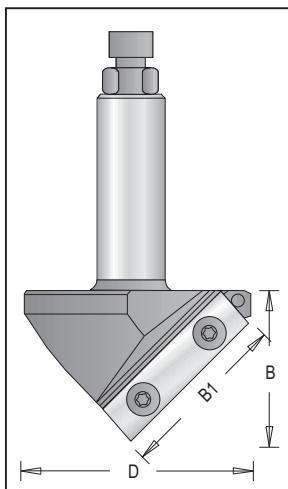
Allen Key
1940080
S2.5



Replacement Knives

B51, B52, B53, B54, B55

Price per package of 2 knives.

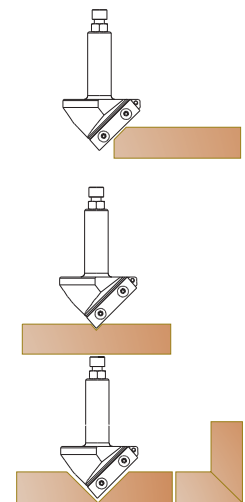


V - Groove Router Cutter

Disposable insert router complete with one or two cutting flutes designed to mitre on solid wood, hardwood and man-made boards to perfect the joint.

Tool no.	D	Shank	B	B1	Flutes	Length	Cat.
N105R20-60	52.6mm	20mm	44.6mm	51.5mm*	1	111mm	CNC
N105R20-90	67mm	20mm	33mm	47mm*	1	97mm	CNC
N105R20-120	86.6mm	20mm	25mm	50mm	2	97.5mm	CNC
N105R20-130	90.6mm	20mm	20.8mm	50mm	2	98mm	CNC
N105R20-150	96.6mm	20mm	13mm	50mm	2	90.3mm	CNC

* Knives are skewed.



Replacement Parts:



T.C. Knife



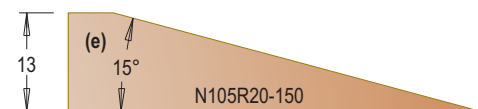
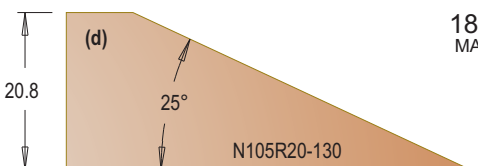
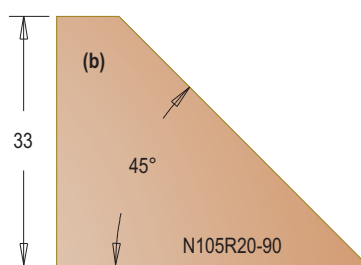
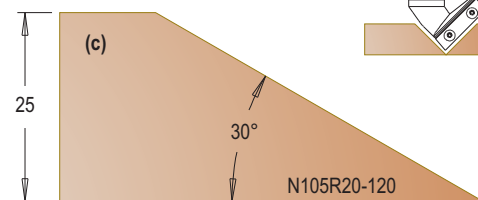
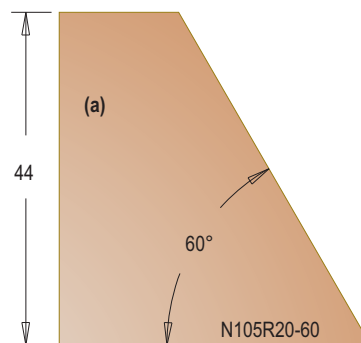
Torx screw



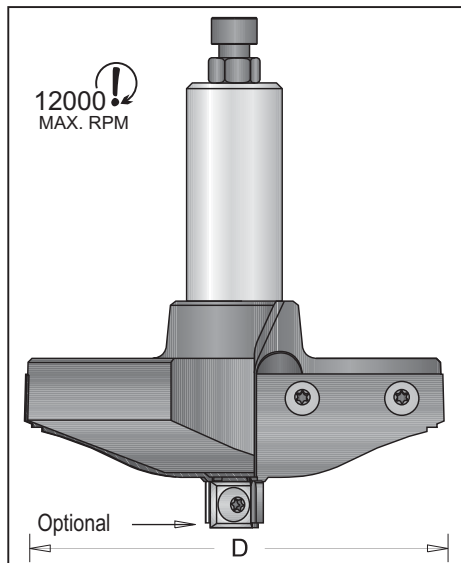
Torx key

(a)	3105002	1933950	1941015
(b)	3105001	1933950	1941015
(c)	3105004	1931482	1941015
(d)	3105004	1931482	1941015
(e)	3105004	1931482	1941015

Price per single knife



18000! MAX. RPM



Raised Panel Router Bit, 2 Flutes

Disposable insert profile router bit with two cutting flutes. Suitable for producing various raised panel profiles in softwoods, hardwoods or man-made boards. Tool can be supplied complete with a small trimmer for machining the edge of the panel.

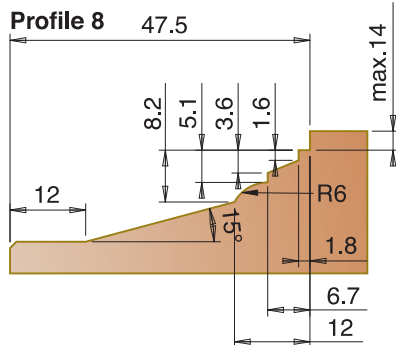
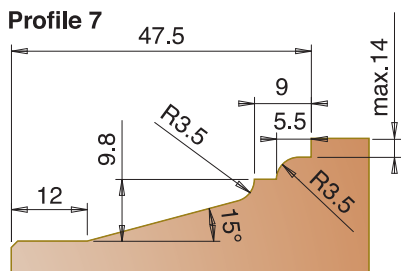
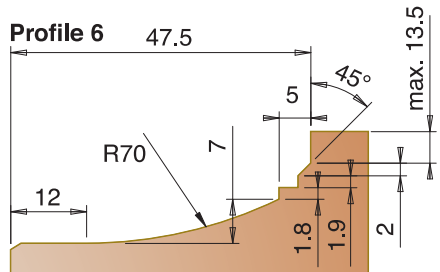
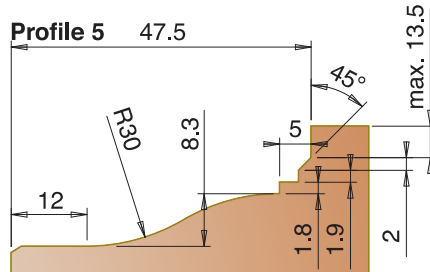
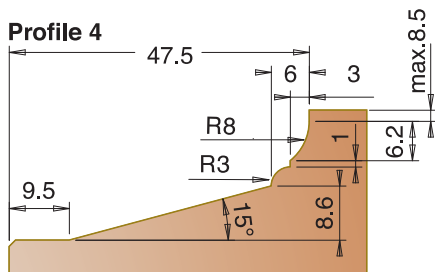
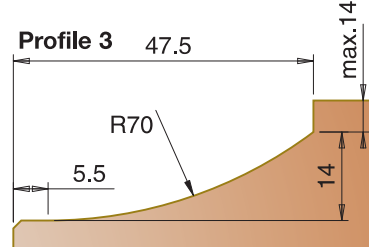
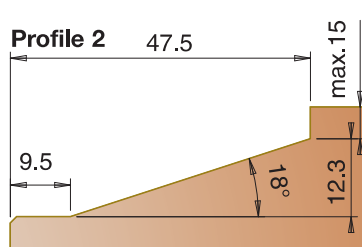
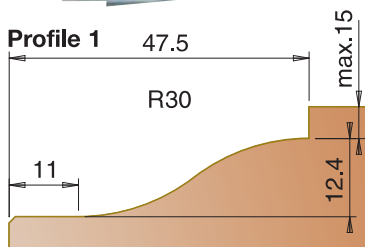
One bit fits all eight different profiles.

For use on CNC routers.

Tool no.	D	Shank	Length	Category
N126R20-1	112mm	20mm	110mm	CNC
N126R20-2	112mm	20mm	110mm	CNC
N126R20-3	112mm	20mm	110mm	CNC
N126R20-4	112mm	20mm	110mm	CNC
N126R20-5	112mm	20mm	110mm	CNC
N126R20-6	112mm	20mm	110mm	CNC
N126R20-7	112mm	20mm	110mm	CNC
N126R20-8	112mm	20mm	110mm	CNC

Optional trimmer bit N126RT sold separately.

Also available with 3/4" and 25mm diameter shanks. Must specify when ordering.



Replacement Parts:



Profile	Knife
#1	3522201
#2	3522202
#3	3522203
#4	3522204
#5	3522205
#6	3522206
#7	3522207
#8	3522208



Allen Screw
1930395



Allen Key
1940200



Torx Screw
1931481



Torx Key
1941015

Price per single knife.

Replacement Parts:



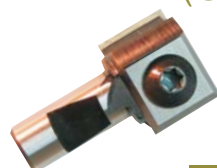
T.C. Knife
L12



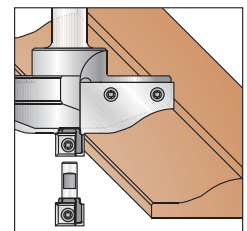
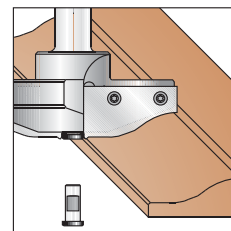
Torx screw
1931482



Torx key
1941015



Trimmer Bit (Optional)



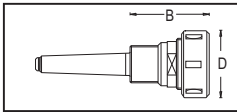
Tool no.	D	Shank	B	Length	Category
N126RT	18mm	8mm	12mm	31.8mm	CNC

Knives sold in lots of 10 pieces. Price per single knife.

CNC Chucks and Arbors

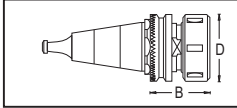
Complete range of high precision CNC chucks and arbors suitable for all popular makes of machines and production environment. Chucks & arbors are supplied complete with clamping nuts. Pull studs, collets & spanners are sold separately.

Morse Adapter for ER 32 collet



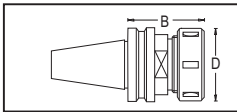
Tool no.	Adapter Standard	D	B	Collet Standard	Category
N642005	MK2	50mm	60mm	ER32	CNC

ISO Tool Holder with Pull Stud for Morbidelli Machines



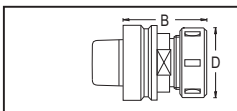
Tool no.	Adapter Standard	D	B	Collet Standard	Category
N641010	ISO 30	50mm	55mm	ER32	CNC

ISO Tool Holder



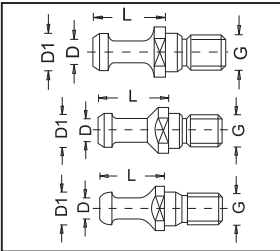
Tool no.	Adapter Standard	D	B	Collet Standard	Category
N641011	ISO 30	50mm	42mm	ER32	CNC
N641021	ISO 40	50mm	63mm	ER32	CNC

HSK Tool Holder



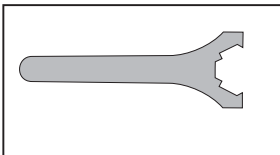
Tool no.	Adapter Standard	D	B	Collet Standard	Category
N641031	HSK63-F	50mm	76mm	ER32	CNC
N641030	HSK63-F	63mm	76mm	ER40	CNC

Pullstud for Machines

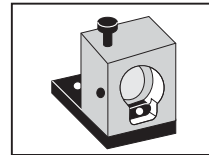


Tool no.	Adapter	D1	D	G	L	Category	For Machine
N650014	ISO 30	12mm	8mm	M12	24mm	CNC	Esseteam
N650015	ISO 30	12.8mm	9mm	M12	24mm	CNC	CMS
N650018	ISO 30	12mm	8mm	M12	24mm	CNC	Biesse (After 09/92), Masterwood

Key



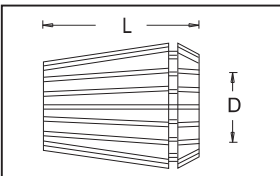
Tool no.	D	Category
N631004	For ER32 nut	CNC
N631003	For ER40 nut	CNC



Tightening Device

Tool no.	D	Category
N642001	For ISO30 Tool Holder	CNC

Collets



For ER32 Nut

Tool no.	D	L	Category
N615044	6-7mm	40mm	CNC
N615012	7-8mm	40mm	CNC
N615010	9-10mm	40mm	CNC
N615009	12-13mm	40mm	CNC
N615053	15-16mm	40mm	CNC
N615056	18-19mm	40mm	CNC
N615011	19-20mm	40mm	CNC

For ER40 Nut

Tool no.	D	L	Category
N615060	3-4mm	46mm	CNC
N615007	9-10mm	46mm	CNC
N615006	12-13mm	46mm	CNC
N615003	19-20mm	46mm	CNC
N615077	20-21mm	46mm	CNC
N615001	25-26mm	46mm	CNC



Replacement Parts

Parts #	TC Knife (mm)	Special Blade TC Knife (mm)	Torx Screw	Torx Screw	Allen Screw	Allen/Torx Key	Wedge	Wedge Lock
14	3007716 16x7x1.5		1934000			1941100		
15	3007728 28x7x1.5		1934000			1941100		
16	L12 12x12x1.5		1931482			1941015		
19		3000528 40x12x1.5 35° 26 c.c.			1930494 1930265	1940035 1940036	1990820	1994031
20	L30 30x12x1.5	L142 14x14x2	1931481	1933700		1941015 1941060		
21	L50 50x12x1.5	L142 14x14x2	1931481	1933700		1941015 1941060		

Price per single knife.

Insert Tooling

Replaceable Tungsten Carbide Bits

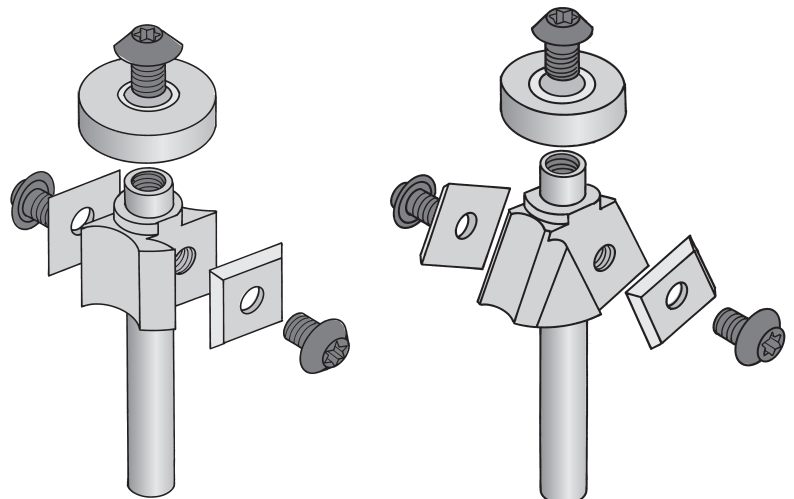


This innovative newly developed type of tooling never requires sharpening and therefore tool diameter remains constant. Fully sharpened multiple cutting edges, rotated to expose new edges, are easily replaced when they become dull or chipped.



New

- Strict tolerances
- Never needs sharpening
- No downtime on the job
- Economical, cost less than to resharpen
- Indexable, always keeps the same diameter
- Easy to replace, Do-It-Yourself style
- Blade is fixed directly into tool body
- No wedges are used
- Standard Blades available anywhere
- Bits supplied in a protective box with the needed Torx Key



Multi Profile System Type B

It's a whole workshop of options in a single Router Bit

The new Multi Profile System gives you a wide range of profiling options in a single Router bit with Replaceable Carbide Tips.

This New Age Router bit System, developed by DIMAR, puts the power of greater precision, better performance and higher versatility into your hands.

Durability:

Replaceable Carbide knives are harder, stronger, longer lasting and perform better on abrasive materials.

Versatility:

One Router Bit gives you a wide variety of profiling options and can be used with Portable, or Industrial CNC machinery.

Safety:

Chip Limitation design for safe operation. All Router bits have been tested for maximum stress by the German institute of Technology.

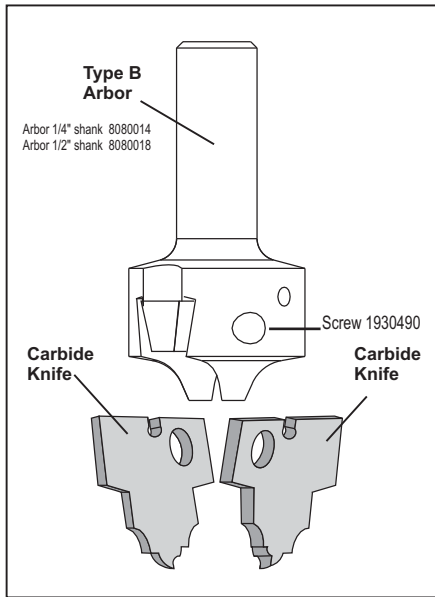
Service free:

The Router Bits do not need sharpening. Simply replace the carbide knives.

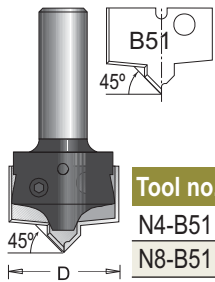
Accuracy: Carbide knives have consistent and precise profiles for optimum and continued operation without adjustments.

Cost effective: Longer lasting knives, better performance, down time is minimal. Only Carbide Knives are replaced.

Easy to replace: Step by step instructions included, so you can do it yourself.



"V" Groove 90°, 2 Flute, Type B

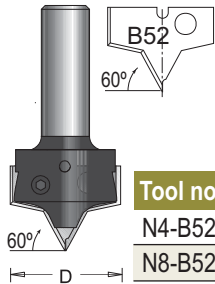


All Replacement Blades: price per pack of 2

Tool no.	D	Shank	Length	Category
N4-B51	1 1/4"	1/4"	2 1/4"	I
N8-B51	1 1/4"	1/2"	2 5/8"	I



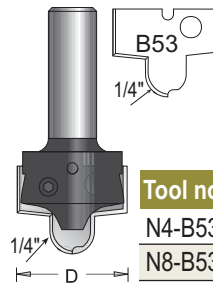
"V" Groove 60°, 2 Flute, Type B



Tool no.	D	Shank	Length	Category
N4-B52	1 1/4"	1/4"	2 1/4"	I
N8-B52	1 1/4"	1/2"	2 5/8"	I

Dealer Net Price in effect

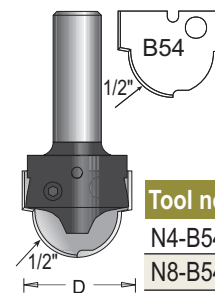
Core Box, 2 Flute, Type B



Tool no.	D	Shank	Length	Category
N4-B53	1 1/4"	1/4"	2 1/4"	I
N8-B53	1 1/4"	1/2"	2 5/8"	I

Dealer Net Price in effect

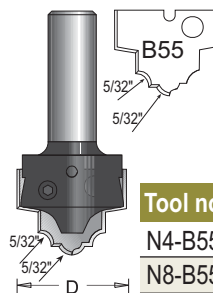
Core Box, 2 Flute, Type B



Tool no.	D	Shank	Length	Category
N4-B54	1 1/4"	1/4"	2 1/4"	I
N8-B54	1 1/4"	1/2"	2 5/8"	I

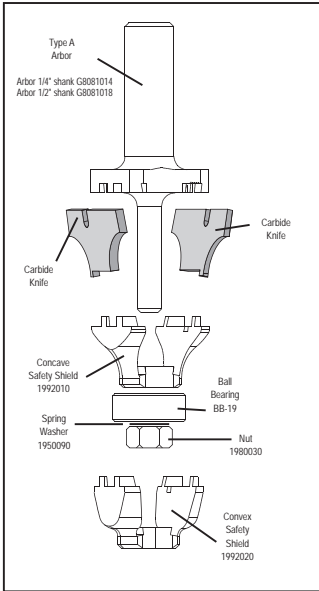
Dealer Net Price in effect

Ogee Plunge, 2 Flute, Type B



Tool no.	D	Shank	Length	Category
N4-B55	1 1/4"	1/4"	2 1/4"	I
N8-B55	1 1/4"	1/2"	2 5/8"	I

Dealer Net Price in effect



Multi Profile System Type A

Why Choose The Multi Profile System?

Durability: Replaceable Carbide knives are harder, stronger, longer lasting and perform better on abrasive materials.

Versatility: One Router Bit gives you a wide variety of profiling options and can be used with Portable, or Industrial CNC machinery.

Safety: Chip Limitation design for safe operation. All Router bits have been tested for maximum stress by the German institute of Technology.

Service free: The Router Bits do not need sharpening. Simply replace the carbide knives.

Accuracy: Carbide knives have consistent and precise profiles for optimum and continued operation without adjustments.

Cost effective: Longer lasting knives, better performance, down time is minimal. Only Carbide Knives are replaced.

Easy to replace: Step by step instructions included, so you can do it yourself.

New Age Profile Routing Tools with Replaceable Tips

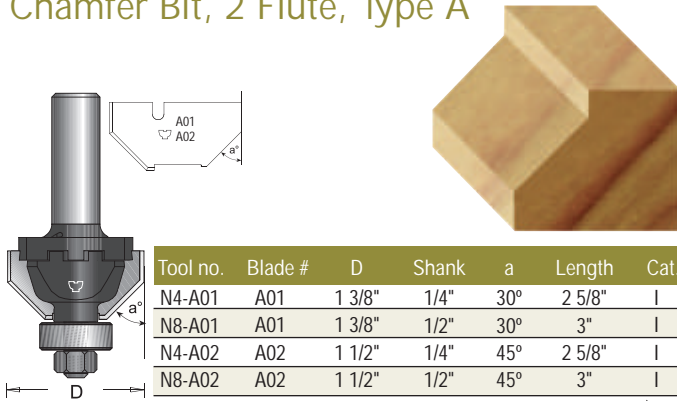


It's a whole workshop of options in a single Router Bit

The new Multi Profile System gives you a wide range of profiling options in a single Router bit with Replaceable Carbide Tips.

This New Age Router bit System, developed by DIMAR, puts the power of greater precision, better performance and higher versatility into your hands.

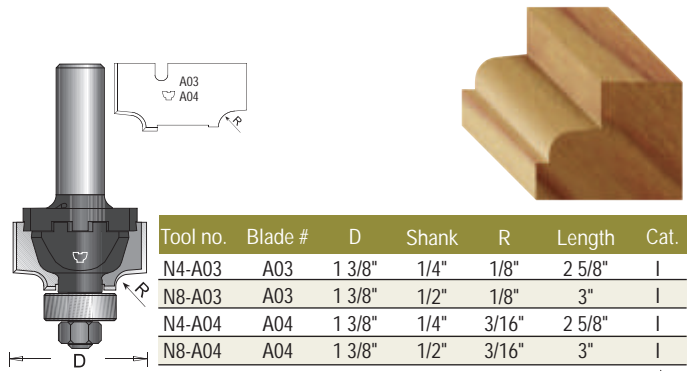
Chamfer Bit, 2 Flute, Type A



Tool no.	Blade #	D	Shank	a	Length	Cat.
N4-A01	A01	1 3/8"	1/4"	30°	2 5/8"	I
N8-A01	A01	1 3/8"	1/2"	30°	3"	I
N4-A02	A02	1 1/2"	1/4"	45°	2 5/8"	I
N8-A02	A02	1 1/2"	1/2"	45°	3"	I

Dealer Net Price in effect

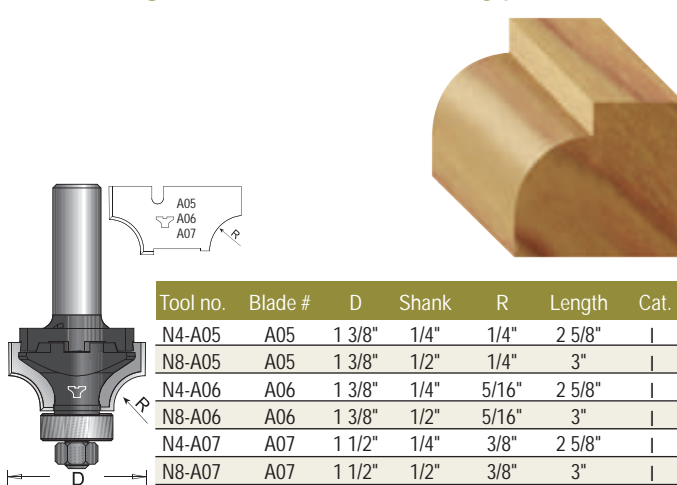
Rounding Over Bit, 2 Flute, Type A



Tool no.	Blade #	D	Shank	R	Length	Cat.
N4-A03	A03	1 3/8"	1/4"	1/8"	2 5/8"	I
N8-A03	A03	1 3/8"	1/2"	1/8"	3"	I
N4-A04	A04	1 3/8"	1/4"	3/16"	2 5/8"	I
N8-A04	A04	1 3/8"	1/2"	3/16"	3"	I

Dealer Net Price in effect

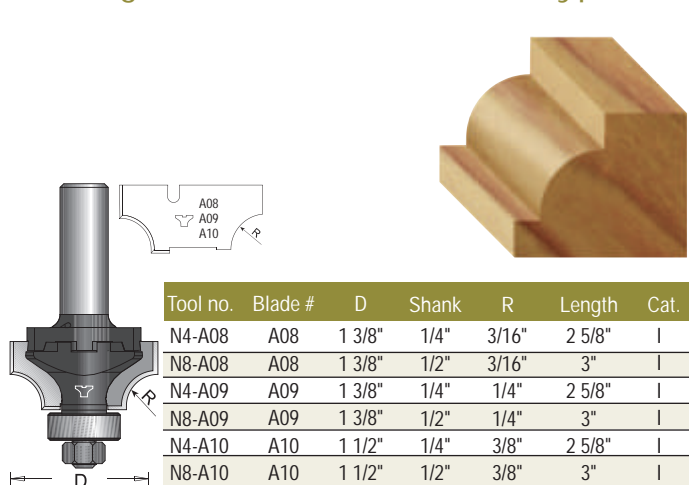
Rounding Over Bit, 2 Flute, Type A



Tool no.	Blade #	D	Shank	R	Length	Cat.
N4-A05	A05	1 3/8"	1/4"	1/4"	2 5/8"	I
N8-A05	A05	1 3/8"	1/2"	1/4"	3"	I
N4-A06	A06	1 3/8"	1/4"	5/16"	2 5/8"	I
N8-A06	A06	1 3/8"	1/2"	5/16"	3"	I
N4-A07	A07	1 1/2"	1/4"	3/8"	2 5/8"	I
N8-A07	A07	1 1/2"	1/2"	3/8"	3"	I

Dealer Net Price in effect

Beading Roundover Bit, 2 Flute, Type A

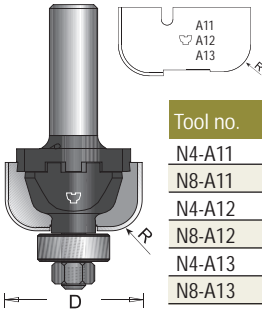


Tool no.	Blade #	D	Shank	R	Length	Cat.
N4-A08	A08	1 3/8"	1/4"	3/16"	2 5/8"	I
N8-A08	A08	1 3/8"	1/2"	3/16"	3"	I
N4-A09	A09	1 3/8"	1/4"	1/4"	2 5/8"	I
N8-A09	A09	1 3/8"	1/2"	1/4"	3"	I
N4-A10	A10	1 1/2"	1/4"	3/8"	2 5/8"	I
N8-A10	A10	1 1/2"	1/2"	3/8"	3"	I

Dealer Net Price in effect



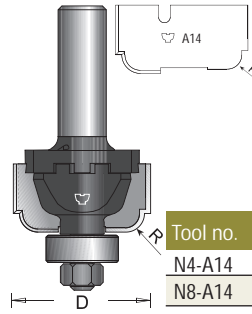
Cove, 2 Flute, Type A



Tool no.	Blade #	D	Shank	R	Length	Cat.
N4-A11	A11	1 3/8"	1/4"	1/4"	2 5/8"	I
N8-A11	A11	1 3/8"	1/2"	1/4"	3"	I
N4-A12	A12	1 3/8"	1/4"	5/16"	2 5/8"	I
N8-A12	A12	1 3/8"	1/2"	5/16"	3"	I
N4-A13	A13	1 1/2"	1/4"	3/8"	2 5/8"	I
N8-A13	A13	1 1/2"	1/2"	3/8"	3"	I

Dealer Net Price in effect

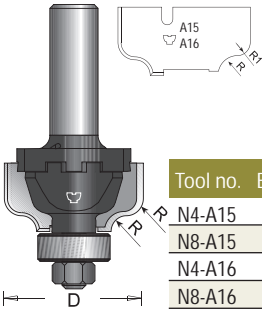
Flat Ogee, 2 Flute, Type A



Tool no.	Blade #	D	Shank	R	Length	Cat.
N4-A14	A14	1 3/8"	1/4"	3/16"	2 5/8"	I
N8-A14	A14	1 3/8"	1/2"	3/16"	3"	I

Dealer Net Price in effect

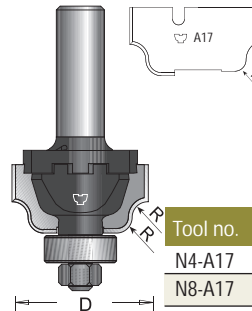
Paneling, 2 Flute, Type A



Tool no.	Blade #	D	Shank	R	R1	Length	Cat.
N4-A15	A15	1 3/8"	1/4"	5/32"	3/16"	2 5/8"	I
N8-A15	A15	1 3/8"	1/2"	5/32"	3/16"	3"	I
N4-A16	A16	1 1/2"	1/4"	5/32"	3/16"	2 5/8"	I
N8-A16	A16	1 1/2"	1/2"	5/32"	3/16"	3"	I

Dealer Net Price in effect

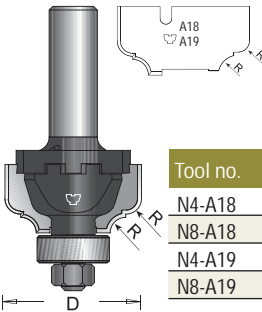
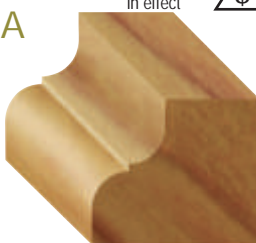
Roman Ogee, 2 Flute, Type A



Tool no.	Blade #	D	Shank	R	Length	Cat.
N4-A17	A17	1 3/8"	1/4"	5/32"	2 5/8"	I
N8-A17	A17	1 3/8"	1/2"	5/32"	3"	I

Dealer Net Price in effect

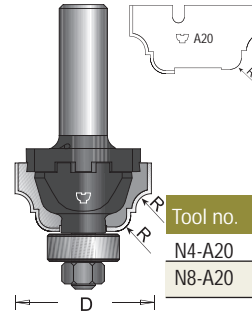
Ogee Fillet, 2 Flute, Type A



Tool no.	Blade #	D	Shank	R	Length	Cat.
N4-A18	A18	1 3/8"	1/4"	5/32"	2 5/8"	I
N8-A18	A18	1 3/8"	1/2"	5/32"	3"	I
N4-A19	A19	1 1/2"	1/4"	5/32"	2 5/8"	I
N8-A19	A19	1 1/2"	1/2"	5/32"	3"	I

Dealer Net Price in effect

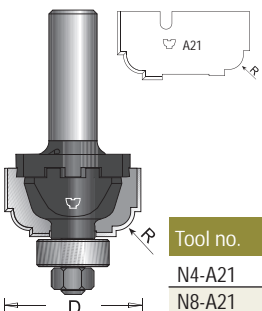
Ogee Bead, 2 Flute, Type A



Tool no.	Blade #	D	Shank	R	Length	Cat.
N4-A20	A20	1 1/2"	1/4"	5/32"	2 5/8"	I
N8-A20	A20	1 1/2"	1/2"	5/32"	3"	I

Dealer Net Price in effect

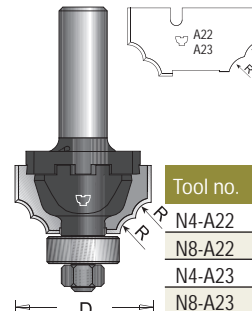
Classic Panel, 2 Flute, Type A



Tool no.	Blade #	D	Shank	R	Length	Cat.
N4-A21	A21	1 3/8"	1/4"	3/16"	2 5/8"	I
N8-A21	A21	1 3/8"	1/2"	3/16"	3"	I

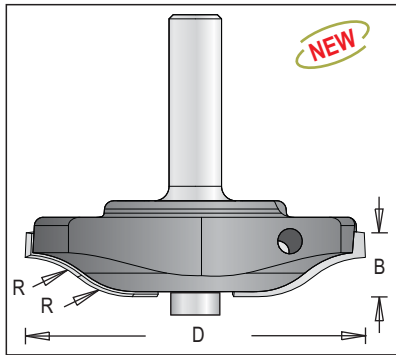
Dealer Net Price in effect

Flat Ogee, 2 Flute, Type A



Tool no.	Blade #	D	Shank	R	Length	Cat.
N4-A22	A22	1 3/8"	1/4"	5/32"	2 5/8"	I
N8-A22	A22	1 3/8"	1/2"	5/32"	3"	I
N4-A23	A23	1 1/2"	1/4"	5/32"	2 5/8"	I
N8-A23	A23	1 1/2"	1/2"	5/32"	3"	I

Dealer Net Price in effect



Raised Panel Router Cutter

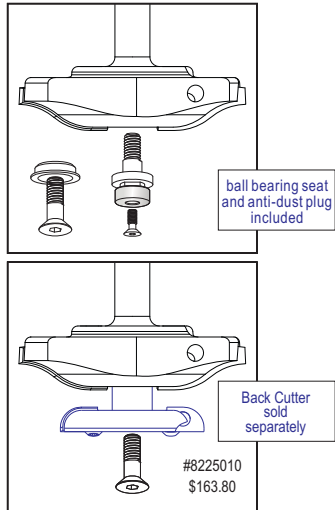
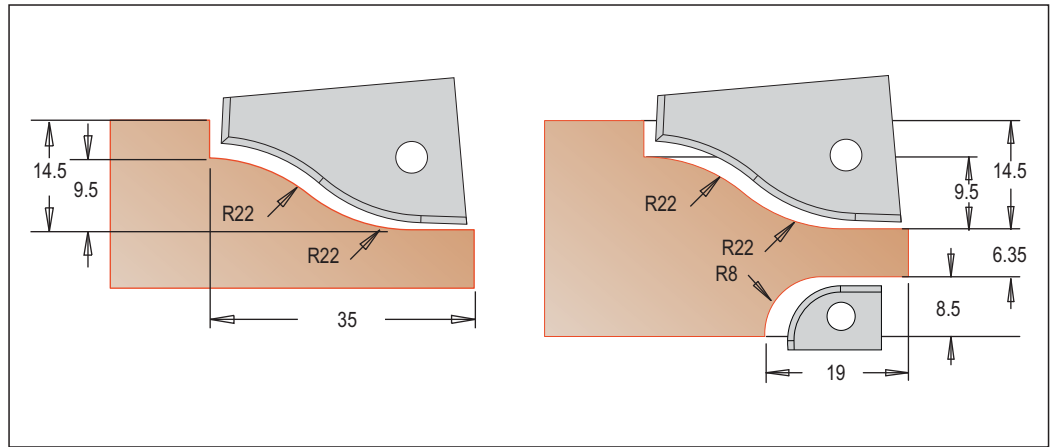
Disposable insert router with two cutting flutes, suitable for light CNC and manual routing applications. Included an assembled ball bearing seat and an anti-dust plug. Can also be used on a CNC machine with a backcutter.

Tool no.	D	Shank	B	Length	Cat.
26R884	3 3/8"	1/2"	3/4"	2 3/4"	I

Dealer Net Price in effect

T.C.Blade	Torxscrew	Torx key	Back Cutter	T.C.Blade	Ball Bearing set	Torxscrew	Torx key
3122005	1933950	1941015	8225010	3122003	1908700	1934000	1941100
32x20x1.5	M4x6	T-15	54x26.7x1/2"	13.9x9.5x2	12.7x4.7x5xM6	M3x4	T-9

Price per single knife.



Raised Panel Router Cutter

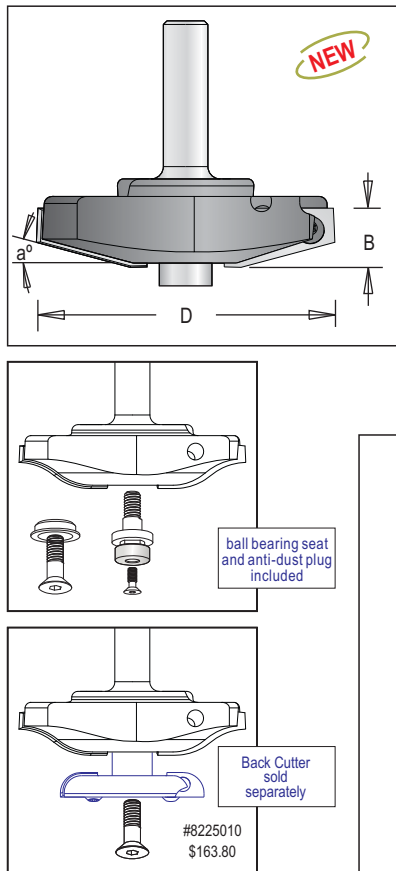
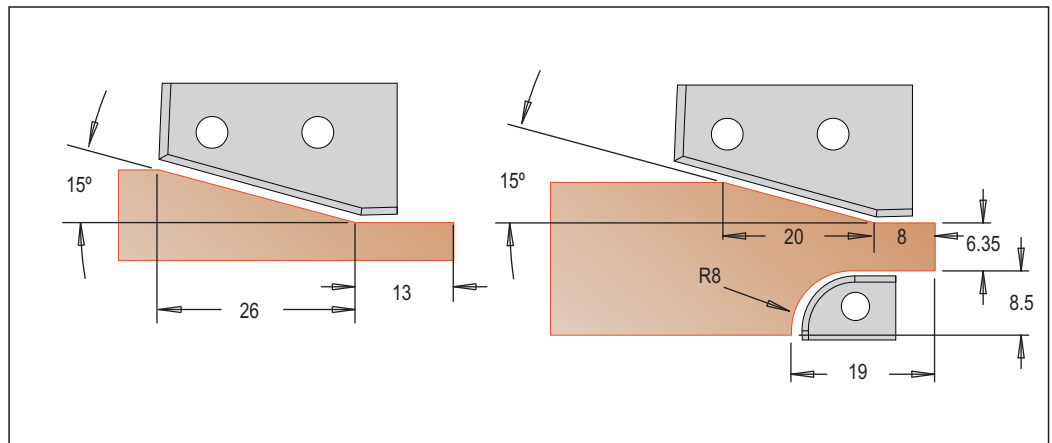
Disposable insert router with two cutting flutes, suitable for light CNC and manual routing applications. Included an assembled ball bearing seat and an anti-dust plug. Can also be used on a CNC machine with a backcutter.

Tool no.	D	Shank	B	a°	Length	Cat.
26R885	3 3/8"	1/2"	3/4"	15°	2 3/4"	I

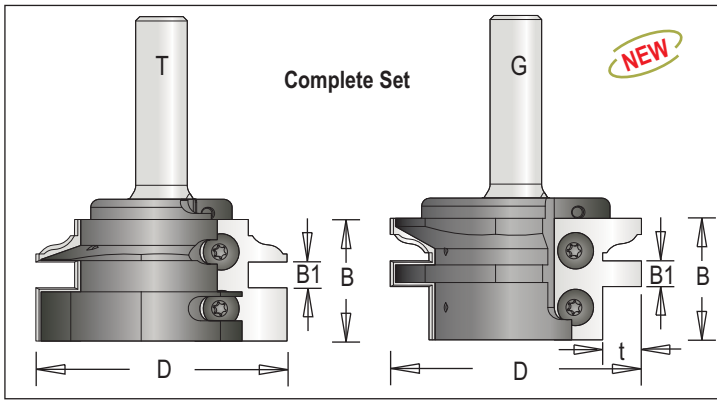
Dealer Net Price in effect

T.C.Blade	Torxscrew	Torx key	Back Cutter	T.C.Blade	Ball Bearing set	Torx screw	Torx key
3122001	1931482	1941015	8225010	3122003	1908700	1934000	1941100
31x17x2	M4x5.6	T-15	54x26.7x1/2"	13.9x9.5x2	12.7x4.7x5xM6	M3x4	T-9

Price per single knife.



Tongue & Groove Router Bit Set , 2 Flutes

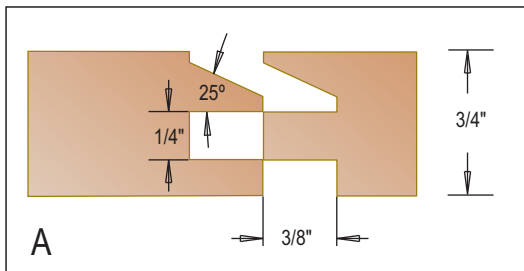


Disposable insert router set with two cutting flutes.
Suitable for light CNC and manual routing applications.

Recommended wood thickness from 5/8" (16mm) to 1 1/8" (28mm).

All four Tongue profiles can be used on the same router bit body.
All four Groove profiles can be used on the same router bit body.

Start with any complete tongue and groove set (2 pieces), and then simply purchase additional pairs of knives from the selection below.



Tool no.		D	Shank	B	B1	t	Length	Cat.
42R8-6A	Complete Set	2 3/8"	1/2"	30mm	1/4"	3/8"	3"	I
42R8-6AT	Tongue	2 3/8"	1/2"	30mm	1/4"	3/8"	3"	I
42R8-6AG	Groove	2 3/8"	1/2"	30mm	1/4"	3/8"	3"	I



T.C. Blade (T)
3145004
30x23x2



T.C. Blade (G)
3145014
30x23x2



Torxscrew
1933950
M4 x6

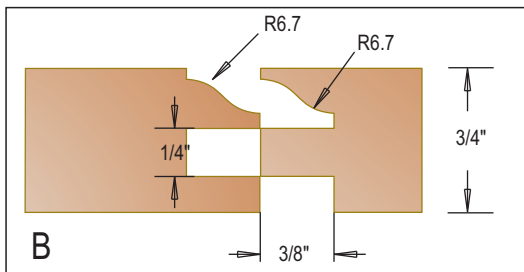


Torx key
1941015
T15

***18000!**
MAX. RPM

Dealer Net Price in effect

Price per single knife.



Tool no.		D	Shank	B	B1	t	Length	Cat.
42R8-6B	Complete Set	2 3/8"	1/2"	30mm	1/4"	3/8"	3"	I
42R8-6BT	Tongue	2 3/8"	1/2"	30mm	1/4"	3/8"	3"	I
42R8-6BG	Groove	2 3/8"	1/2"	30mm	1/4"	3/8"	3"	I



T.C. Blade (T)
3145003
30x23x2



T.C. Blade (G)
3145013
30x23x2



Torxscrew
1933950
M4 x6

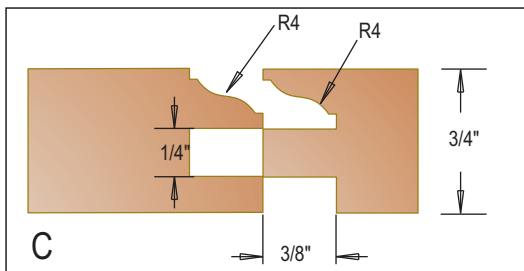


Torx key
1941015
T15

***18000!**
MAX. RPM

Dealer Net Price in effect

Price per single knife.



Tool no.		D	Shank	B	B1	t	Length	Cat.
42R8-6C	Complete Set	2 3/8"	1/2"	30mm	1/4"	3/8"	3"	I
42R8-6CT	Tongue	2 3/8"	1/2"	30mm	1/4"	3/8"	3"	I
42R8-6CG	Groove	2 3/8"	1/2"	30mm	1/4"	3/8"	3"	I



T.C. Blade (T)
3145001
30x23x2



T.C. Blade (G)
3145011
30x23x2



Torxscrew
1933950
M4 x6

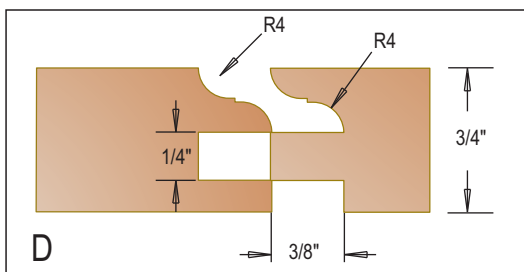


Torx key
1941015
T15

***18000!**
MAX. RPM

Dealer Net Price in effect

Price per single knife.



Tool no.		D	Shank	B	B1	t	Length	Cat.
42R8-6D	Complete Set	2 3/8"	1/2"	30mm	1/4"	3/8"	3"	I
42R8-6DT	Tongue	2 3/8"	1/2"	30mm	1/4"	3/8"	3"	I
42R8-6DG	Groove	2 3/8"	1/2"	30mm	1/4"	3/8"	3"	I



T.C. Blade (T)
3145002
30x23x2



T.C. Blade (G)
3145012
30x23x2



Torxscrew
1933950
M4 x6



Torx key
1941015
T15

***18000!**
MAX. RPM

Dealer Net Price in effect

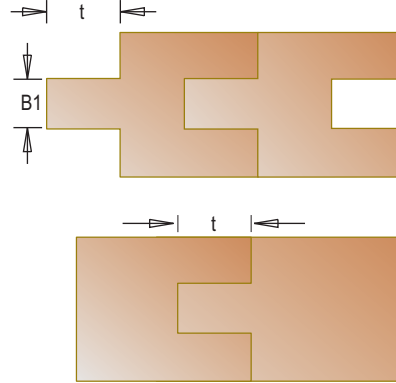
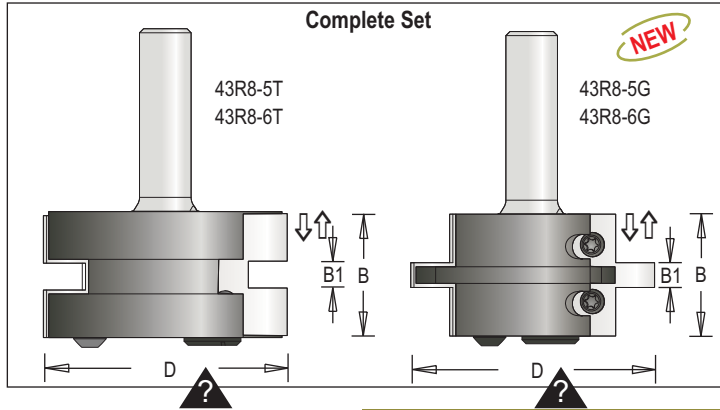
Price per single knife.

Tongue & Groove 2 piece Router Bit Set , 2 Flutes

Disposable insert router set with two cutting flutes. Suitable for light CNC and manual routing applications. Fine adjusting option for precise fitting between tongue & groove.

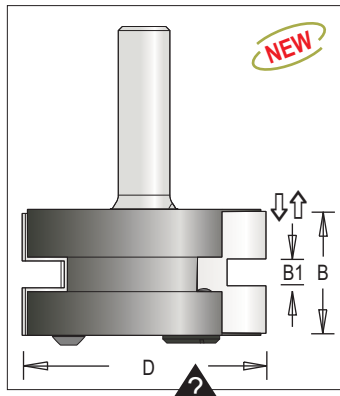
Tongue & Groove kerf (B1) may be adjusted to match various wood thicknesses. Recommended wood thickness from 16mm to 28mm

Adjustable set screw to stagger knife for the desired kerf

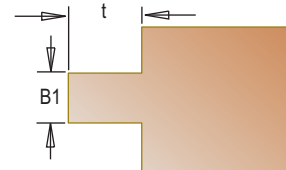


Tool no.		D	Shank	B	B1	t	Length	Cat.
43R8-5	Complete Set	2 3/8"	1/2"	30mm	5.4-6.0mm	3/8"	3"	I
43R8-6	Complete Set	2 3/8"	1/2"	30mm	6.1-6.6mm	3/8"	3"	I

Dealer Net Price in effect



Tongue Router Bit 2 Flutes

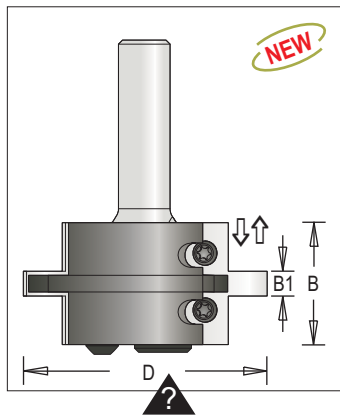


Tool no.	Blade	D	Shank	B	B1	t	Length	Cat.
43R8-5T	A	2 3/8"	1/2"	30mm	5.4-6.0mm	3/8"	3"	I
43R8-6T	B	2 3/8"	1/2"	30mm	6.1-6.6mm	3/8"	3"	I

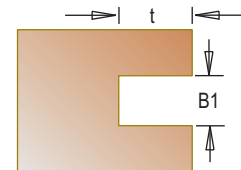
Dealer Net Price in effect

T.C. Blade A 3145005 30x22x2	T.C. Blade B 3145018 30x22x2	Torx screw 1933648 3.5x4.8	Torx screw 1931481 M4x5.6	Allen screw 1930720 M6x12.5	Allen key 1940200 S2	Torx key 1941015 T15

Price per single knife.



Groove Router Bit, 2 Flutes

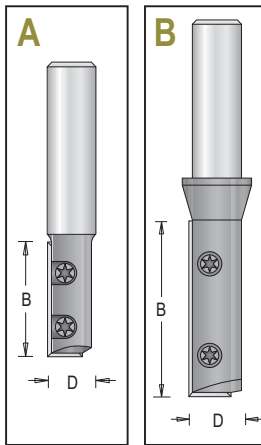


Tool no.	Blade	D	Shank	B	B1	t	Length	Cat.
43R8-5G	A	2 3/8"	1/2"	30mm	5.4-6.0mm	3/8"	3"	I
43R8-6G	B	2 3/8"	1/2"	30mm	6.1-6.6mm	3/8"	3"	I

Dealer Net Price in effect

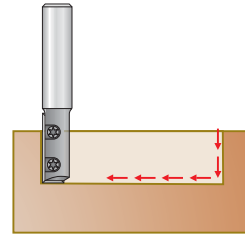
T.C. Blade A 3145015 30x22x2	T.C. Blade B 3145019 30x22x2	Torx screw 1933648 3.5x4.8	Torx screw 1931481 M4x5.6	Allen screw 1930720 M6x12.5	Allen key 1940200 S2	Torx key 1941015 T15

Price per single knife.

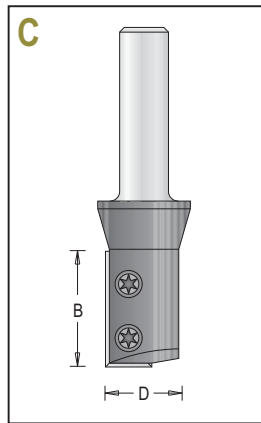


Straight Bits, Plunge, 1 Flute

Designed mainly for Side Routing and Plunge (Bottom) Routing. Penetration into the side of wood for Beading, Grooving or Slotting and Dado operations, or into wood surface for Drilling and Grooving or Mortising. Each knife has two useable cutting edges.



	Tool no.	Knife #	D	Shank	B	Length	Category
A	7RL8-12S	L309	1/2"	1/2"	1 3/16" (30mm)	3"	I
C	7RL8-16S	L301	5/8"	1/2"	1 3/16" (30mm)	3 1/2"	I
B	7RW8-16S	L501	5/8"	1/2"	1 15/16" (50mm)	4 1/8"	I
C	7RL8-19S	L301	3/4"	1/2"	1 3/16" (30mm)	3 1/2"	I
B	7RW8-19S	L501	3/4"	1/2"	1 15/16" (50mm)	4 1/8"	I
C	7RL8-22S	L301	7/8"	1/2"	1 3/16" (30mm)	3 1/2"	I
B	7RW8-22S	L501	7/8"	1/2"	1 15/16" (50mm)	4 1/8"	I



Metric

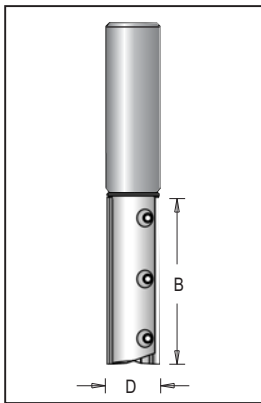
	Tool no.	Knife #	D	Shank	B	Length	Category
New A	7RL4-12MS	L309	12mm	1/4"	29.5mm	2 5/8"	I
A	7RL8-12MS	L309	12mm	1/2"	30mm	3"	I
A	7RL8-14MS	L309	14mm	1/2"	30mm	3"	I
C	7RL8-16MS	L301	16mm	1/2"	30mm	3 1/2"	I
B	7RW8-16MS	L501	16mm	1/2"	50mm	4 1/8"	I
C	7RL8-18MS	L301	18mm	1/2"	30mm	3 1/2"	I
A	7RW8-18MS	L501	18mm	1/2"	50mm	4 1/8"	I
C	7RL8-20MS	L301	20mm	1/2"	30mm	3 1/2"	I
A	7RW8-20MS	L501	20mm	1/2"	50mm	4 1/8"	I
C	7RL8-22MS	L301	22mm	1/2"	30mm	3 1/2"	I
A	7RW8-22MS	L501	22mm	1/2"	50mm	4 1/8"	I

Left Hand Rotation

	Tool no.	Knife #	D	Shank	B	Length	Category
A	7RL8-12SL	L309	1/2"	1/2"	1 3/16" (30mm)	3"	I

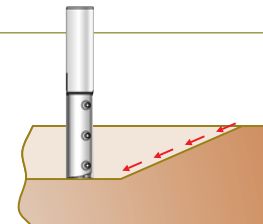
Replacement Parts:

Torx Screw: 1933548; Key T15: 1941015
Flat head screw for knife: 1930355for 7RL4-12MS only



Straight Bits (No Plunge)

This innovative newly developed type of tooling never requires sharpening and therefore tool diameter remains constant. Fully sharpened multiple cutting edges, rotated to expose new edges, are easily replaced when they become dull or chipped. Super-tough ultra-fine grain carbide inserts, featuring high performance & wear resistance. Durable CNC machined metal bodies have been redesigned for improved rigidity. Bits supplied in a protective box with the needed Key.



Highly recommended professional tools for CNC applications in order to get the best cut quality and longer lifetime of the replaceable tip.

Tool no.	Knife #	D	Shank	B	Length	Flutes	Parts	Category
7RL8-10-1	3107510	3/8"	1/2"	3/4"	2 7/8"	1	1	I
7RL8-12-2	3107511	1/2"	1/2"	1 3/16"	3 1/8"	2	2	I
7RL9-16-2	3107511	5/8"	3/4"	1 3/16"	3 1/4"	2	3	I
7RW9-16-2	3107513	5/8"	3/4"	1 15/16"	4"	2	4	I
7RL9-19-3	3107511	3/4"	3/4"	1 3/16"	3 1/4"	3	5	I
7RW9-19-3	3107513	3/4"	3/4"	1 15/16"	4"	3	5	I

Replacement Parts:

- Spring Washer 1962050 ; Screw # 1930350 ; Key # 1941020
- Spring Washer 1962070 ; Screw # 1930360 ; Key # 1941020
- Spring Washer 1962150 ; Screw # 1930370 ; Key # 1941020
- Spring Washer 1962110 ; Screw # 1930370 ; Key # 1941020
- Spring Washer 1962150 ; Screw # 1930370 ; Key # 1941020

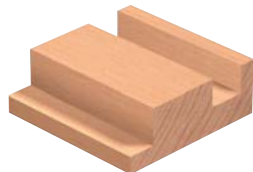
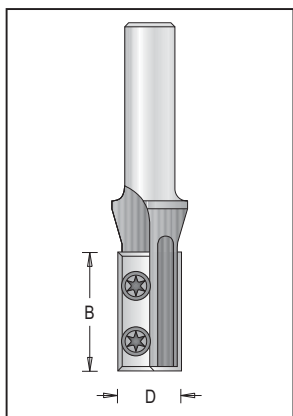
Replacement Knife:

- 3107510 - 19.5 x 5.5 x 1.1
 - 3107511 - 29.5 x 5.5 x 1.1
 - 3107513 - 49.5 x 5.5 x 1.1
- Price per single knife.



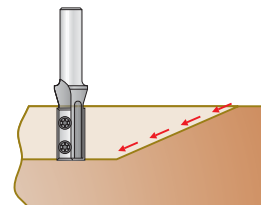
Replacement Knife:
L301 29.5 x 12 x 1.5
L309 29.5 x 9 x 1.5
L501 49.5 x 12 x 1.5
Knives sold in lots of 10 pieces.
Price per single knife.





Straight Bits, No Plunge, 2 Flutes

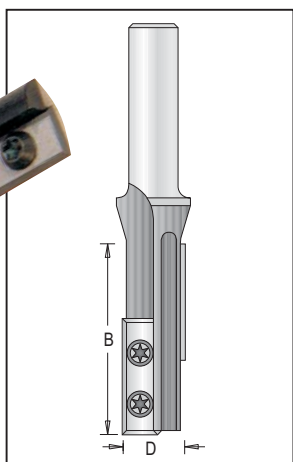
Designed mainly for Side Routing. Penetration into the side of wood for Beading, Grooving or Slotting and Dado operations. Each knife has two useable cutting edges.



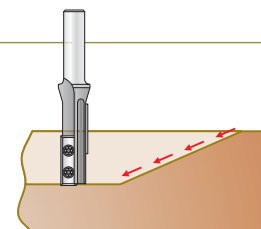
Tool no.	Knife #	D	Shank	B	Parts	Length	Category
7RL8-14M	L309	14mm	1/2"	30mm	c	3 3/8"	I
7RL8-16M	L309	16mm	1/2"	30mm	a	3 1/2"	I
7RL8-16	L309	5/8"	1/2"	30mm	a	3 1/2"	I
7RL8-18M	L301	18mm	1/2"	30mm	b	3 1/2"	I
7RL8-19	L301	3/4"	1/2"	30mm	b	3 1/2"	I
7RL8-20M	L301	20mm	1/2"	30mm	b	3 1/2"	I
7RL8-22M	L301	22mm	1/2"	30mm	b	3 1/2"	I
7RL8-22	L301	7/8"	1/2"	30mm	b	3 1/2"	I
7RL8-25	L301	1"	1/2"	30mm	b	3 1/2"	I

Replacement Parts:
 (a) Torx Screw: 1933548
 (b) Torx Screw: 1931482
 (c) Torx Screw: 1933648
 Key T15: 1941015

Replacement Knife:
 L301 29.5 x 12 x 1.5
 L309 29.5 x 9 x 1.5
 Knives sold in lots of 10 pieces.
 Price per single knife.



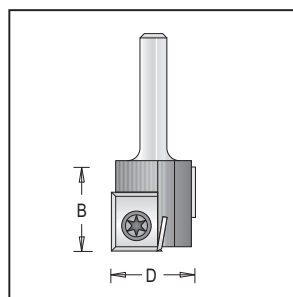
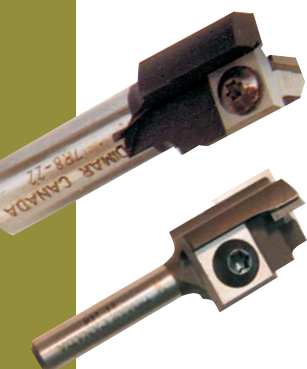
Straight Bits, Staggered, No Plunge 2 Flutes



Tool no.	Knife #	D	Shank	B	Parts	Length	Category
7RW8-16M	L309	16mm	1/2"	50mm	b	4 1/4"	I
7RW8-16	L309	5/8"	1/2"	50mm	a	4 1/4"	I
7RW8-18M	L301	18mm	1/2"	50mm	b	4 1/4"	I
7RW8-19	L301	3/4"	1/2"	50mm	b	4 1/4"	I
7RW8-20M	L301	20mm	1/2"	50mm	b	4 1/4"	I
7RW8-22M	L301	22mm	1/2"	50mm	b	4 1/4"	I
7RW8-22	L301	7/8"	1/2"	50mm	b	4 1/4"	I

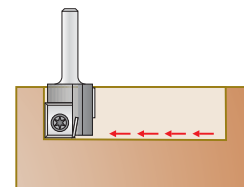
Replacement Parts:
 (a) Torx Screw: 1933548
 (b) Torx Screw: 1931482
 Key T15: 1941015

Replacement Knife:
 L301 29.5 x 12 x 1.5
 L309 29.5 x 9 x 1.5
 Knives sold in lots of 10 pieces. Price per single knife.



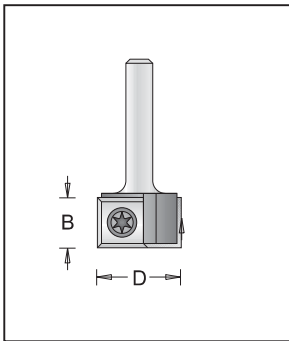
Straight Bits, Staggered, Plunge, 2 Flutes

Designed mainly for Side Routing and Plunging into wood for Beading, Grooving or Slotting and Dado operations. Each knife has four useable cutting edges.



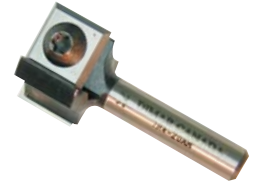
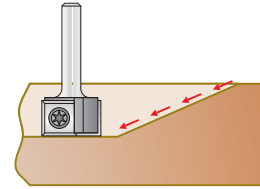
Tool no.	Knife #	D	Shank	B	Length	Category
7R4-18M	L12	18mm	1/4"	20mm	2"	I
7R8-18M	L12	18mm	1/2"	20mm	2 3/8"	I
7R4-20M	L12	20mm	1/4"	20mm	2"	I
7R4-22M	L12	22mm	1/4"	20mm	2"	I
7R8-22M	L12	22mm	1/2"	20mm	2 3/8"	I
INCHES:						
7R4-19	L12	3/4"	1/4"	3/4"	2"	I
7R8-19	L12	3/4"	1/2"	3/4"	2 3/8"	I
7R4-22	L12	7/8"	1/4"	3/4"	2"	I
7R8-22	L12	7/8"	1/2"	3/4"	2 3/8"	I

Replacement Parts:
 Torx Screw: 1931482 ; Knife L12 12x12x1.5; Key T15: 1941015
 Knives sold in lots of 10 pieces.
 Price per single knife.



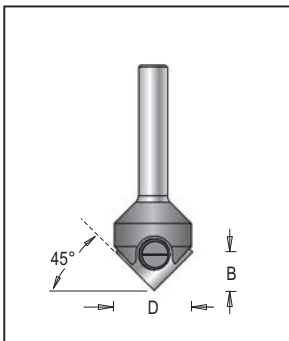
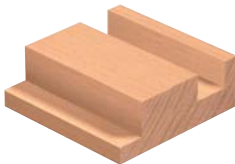
Straight Bits-No Plunge, 2 Flutes

Designed mainly for Side Routing. Penetration into the wood for Beading, Grooving or Slotting and Dado operations. Each knife has four useable cutting edges.



Tool no.	Knife #	D	Shank	B	Length	Category
7R4-20AM	L12	20mm	1/4"	12mm	1 3/4"	I
7R4-22AM	L12	22mm	1/4"	12mm	1 3/4"	I
INCHES:						
7R4-19A	L12	3/4"	1/4"	15/32" (12mm)	1 3/4"	I
7R4-22A	L12	7/8"	1/4"	15/32" (12mm)	1 3/4"	I

Replacement Parts: Torx Screw: 1931482 ; Knife: L12 12x12x1.5; Key T15: 1941015
 Knives sold in lots of 10 pieces. *Price per single knife.*

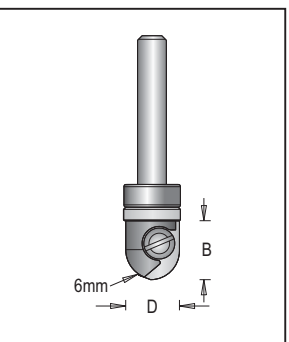


V Groove Bit, 1 Flute



Tool no.	Knife #	D	Shank	B	Length	Category
5R4-18	L12	11/16"	1/4"	11/32"	2 1/16"	I

Replacement Parts:
 Knife: L12 12x12x1.5 ; Flat head screw for knife: 1930355
 Knives sold in lots of 10 pieces. *Price per single knife.*



Core Box Bit, 1 Flute

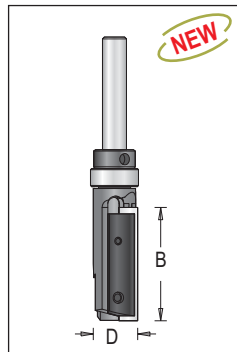
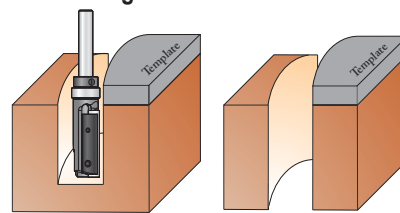


Tool no.	Knife #	D	Shank	B	Length	Category
6R4-6M	3106506	1/2"	1/4"	1/2"	2 5/16 "	I

Replacement Parts:
 Knife: 3106506 13 x 9 x 1.5 ; Ball Bearing: BB-12A ; Flat head screw for knife: 1930355 ;
 Lock Ring: 1970110
 Knives sold in lots of 10 pieces. *Price per single knife.*

Straight / Template Bit, 2 Flutes

Template bits also known as **Pattern bits** or **Straight Bits with Centre Ball Bearing** are used in woodworking to replicate letters, shapes or designs by means of copying an overlaid shape onto the desired material. The Ball Bearing guide will ride along the Template, and the carbide teeth will cut into the material at the exact diameter of the bearing, hereby "copying" the design flush with the bearing's diameter.



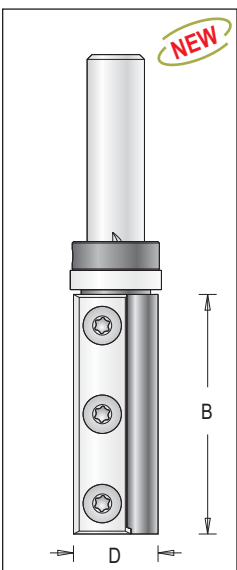
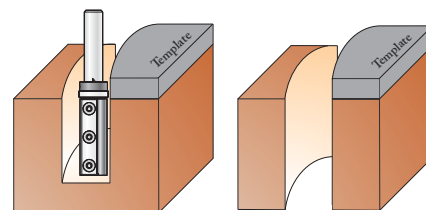
Tool no.	D	Shank	B	Length	Category
1RCL4-12	1/2"	1/4"	30mm	80mm	I
1RCL8-19	3/4"	1/2"	30mm	81mm	I

Replacement Parts:

D=1/2"	T.C. Blade	T.C. Blade	Wedge	Ball Bearing	Torx screw	Torx screw	Torx key	Lock Ring
	3107512	3107514	1992134	BB-12A	1934044	1934000	1941100	1970110
	12x7.5x1.5	30x5.5x1.1	L=27	1/2x1/4x3/16	M2x4	M3x4	T9	11mm x 1/4"
								\$6.09
D=3/4"	T.C. Blade	T.C. Blade	Wedge	Ball Bearing	Torx screw		Torx key	Lock Ring
	L12	3107514	1990890	BB-19B	1934040		1941015	1970500
	12x12x1.5	30x5.5x1.1	L=30	3/4x1/2x5/32	M3.5x6		T15	18mm x 1/2"

Price per single knife.

Straight / Template Bit, 2 Flutes



Tool no.	D	Shank	B	Length	Category
1RCW8-19	3/4"	1/2"	50mm	4"	I

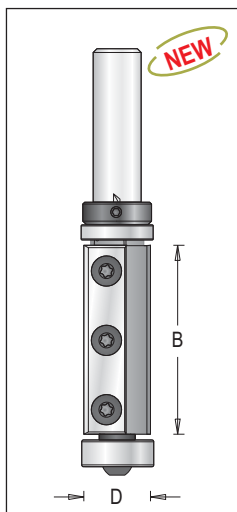
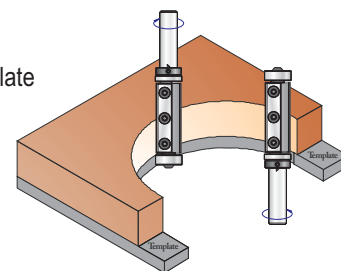
Replacement Parts:

T.C. Blade	Ball Bearing	Torx screw	Torx key	Lock Ring
3107350	BB-19B	1931482	1941015	1970500
50x12x1.7	3/4x1/2x5/32	M4x5.6	T15	18mm x 1/2"

Price per single knife.

Flush Trim / Template Bit, 2 Flutes

This double sided bearing guided router bit allows the bit to be used with template mounted on either side of the work piece and consequently, it is possible to route from either direction using only one template and without moving the template to the other side of the work piece. This is especially useful when cutting curves which run both with and against the grain. The replaceable carbide knives ensure durability, ease of use accuracy and cost effective.

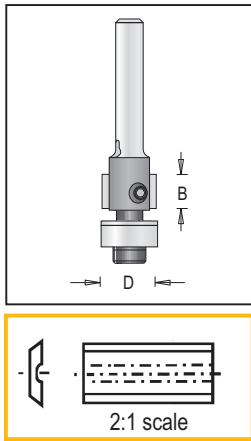


Tool no.	D	Shank	B	Length	Category
1RCDW8-19	3/4"	1/2"	50mm	4 7/16"	I

Replacement Parts:

T.C. Blade	Ball Bearing	Ball Bearing	Torx screw	Torx screw	Lock Ring	Torx key
3107350	BB-19B	BB-19	1930770	1931482	1970500	1941015
50x12x1.7	3/4"x1/2"x5/32"	3/4"x1/4"x9/32	M4x12	M4x5.6	18mm x 1/2"	T15

Price per single knife.



Flush Trim Bit, 2 Flutes

Utilizes inexpensive 2 sided disposable carbide knives.

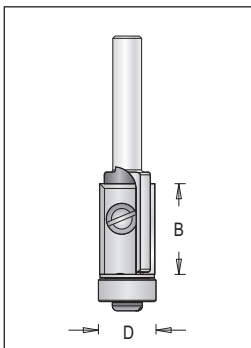


Tool no.	Knife #	D	Shank	B	Length	Category
1R4-12	3101501	1/2"	1/4"	5/16"	2 1/4"	I

Replacement Parts: *Knives sold in lots of 10 pieces. Price per single knife.*

T.C. Knife 3101501 8.5x5.5x1.1	Ball Bearing BB-12 1/2x3/16x5mm	Allen Screw 1930360 for knife	Allen Screw 1930330 for bearing	Allen Key 1941020 for knife	Allen Key 1940080 for bearing

Washer for Screw: 1950010
Washer for Bearing: 1920070



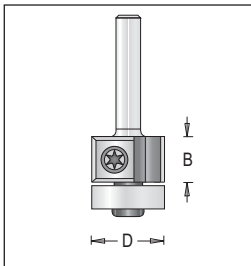
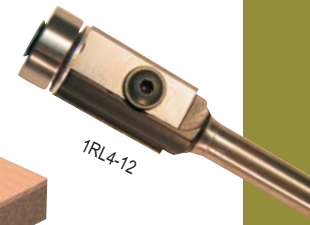
Flush Trim Bits, 2 Flutes

Self guiding, with two replaceable solid carbide knives.

Tool no.	Knife #	D	Shank	B	Length	Category
1RL4-12	3101512	1/2"	1/4"	20mm	2 7/16"	I

Replacement Parts: *Knives sold in lots of 10 pieces. Price per single knife.*

T.C. Knife 3101512	Ball Bearing BB-12	Screw for knife 1930355	Screw for bearing 1930356



Flush Trim Bits, 2 Flutes

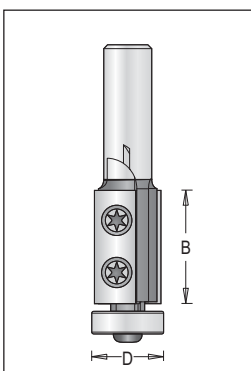
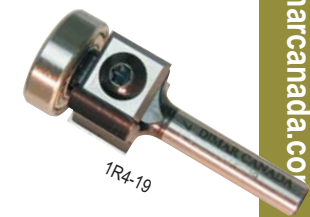
Self guiding, with two replaceable solid carbide knives.

* Four edges, can be rotated to give longer life.

Tool no.	Knife #	D	Shank	B	Length	Category
1R4-19*	L12	3/4" (19mm)	1/4"	12mm	2"	I
1RL4-19	L30	3/4" (19mm)	1/4"	30mm	2 3/4"	I

Replacement Parts: *Knives sold in lots of 10 pieces. Price per single knife.*

T.C. Knife * L12 12x12x1.5	T.C. Knife L30 30x12x1.5	Ball Bearing BB-19M 19x6x6	Torx Screw 1931482 for blade	Torx Screw 1930885 for bearing	Torx Key 1941015 T15-for blade	Allen Key 1940080 for bearing



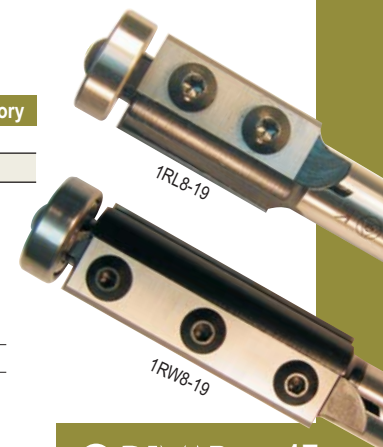
Flush Trim Bit, 2 Flutes

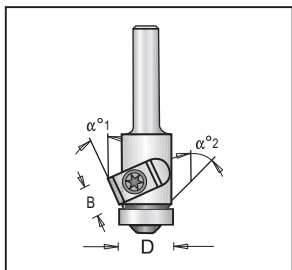
Self guiding, with two replaceable solid carbide knives.

Tool no.	Knife #	D	Shank	B	Length	Category
1RL8-19	L30	3/4" (19mm)	1/2"	30mm	3"	I
1RW8-19	3107350	3/4" (19mm)	1/2"	50mm	4"	I

Replacement Parts: *Knives sold in lots of 10 pieces. Price per single knife.*

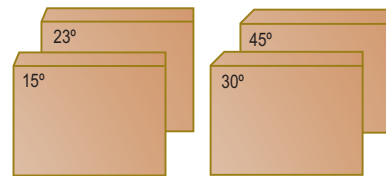
T.C. Knife L30 30x12x1.5	T.C. Knife 3107350 50x12x1.7	Ball Bearing BB-19M 19x6x6	Torx Screw 1931482 for blade	Torx Screw 1930885 for bearing	Torx Key 1941015 T15-for blade	Allen Key 1940080 for bearing





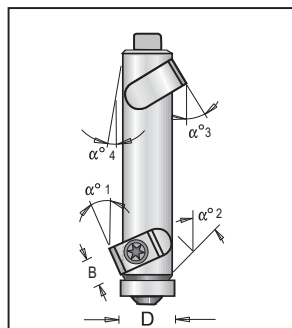
Multi-Bevel Bits

Self guiding with one replaceable solid carbide knife. Two different angles can be achieved by inserting the knife in 1 of 2 slots.



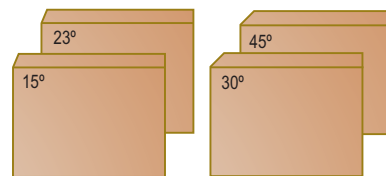
Tool no.	Knife #	D	Shank	α	Length	Category
2R4-30	L7.0	14mm	1/4"	15° and 30°	2 1/8"	I
2R4-45	L7.0	14mm	1/4"	23° and 45°	2 1/8"	I

Replacement Parts: Torx Screw (for bearing): 1931482 ; Torx Screw (for knife): 1931481 ;
Ball Bearing: BB-14M ; Knife L7.0 7.5x12x1.5 ; Key T15: 1941015
Knives sold in lots of 10 pieces. *Price per single knife.*



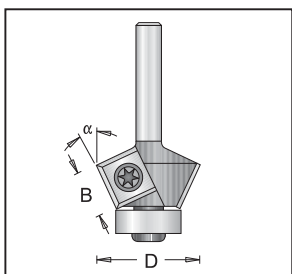
Multi-Bevel Bit

Self guiding with one replaceable solid carbide knife. Four different angles can be achieved by inserting the knife in 1 of 4 slots.



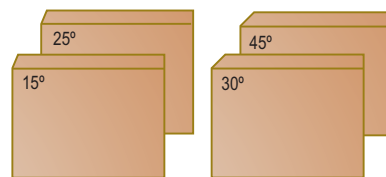
Tool no.	Knife #	D	Shank	α	Length	Category
2R8-45	L7.0	14mm	1/2"	15°, 23°, 30° and 45°	2 7/8"	I

Replacement Parts: Torx Screw (for bearing): 1931482 ; Torx Screw (for blade): 1931481 ;
Ball Bearing: BB-14M ; Knife L7.0 7.5x12x1.5 ; Key T15: 1941015
Knives sold in lots of 10 pieces. *Price per single knife.*



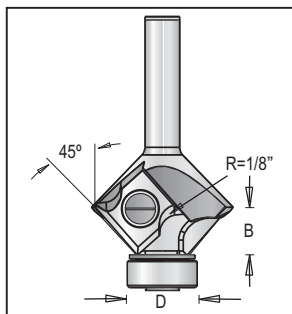
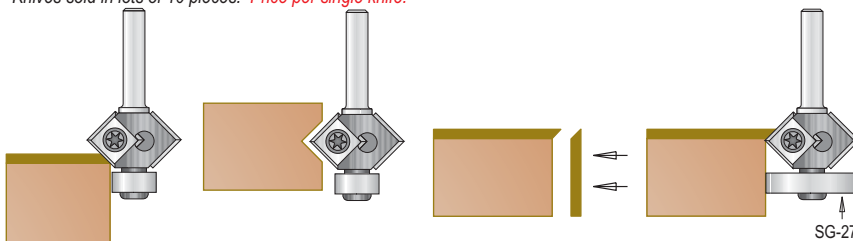
Bevel Trim Bits, 2 Flutes

Self guiding, with two replaceable solid carbide knife, each with four edges.

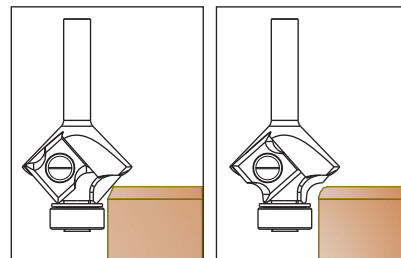


Tool no.	Knife #	D	Shank	B	α	Length	Category
2RB4-15	L12	20mm	1/4"	12mm	15°	2 1/8"	I
2RB4-25	L12	24mm	1/4"	12mm	25°	2 1/8"	I
2RB4-30	L12	26mm	1/4"	12mm	30°	2 1/8"	I
2RB4-45	L12	27mm	1/4"	12mm	45°	2 1/4"	I

Replacement Parts: Torx Screw: 1931482 ; Ball Bearing: BB-16 ; Knife L12 12x12x1.5 ;
Key T15 1941015 ; Ball Bearing: BB-12A (for 2RB4-45 only) ;
Super Guide Ball Bearing SG-27 1/4 x 27 x 1/4
Knives sold in lots of 10 pieces. *Price per single knife.*

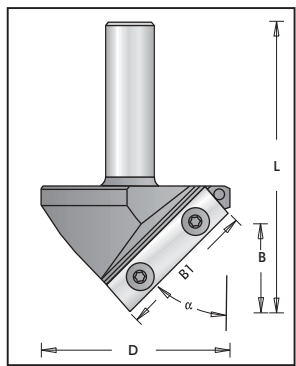


Bevel/Roundover Trimming Bit, 2 Flutes



Tool no.	Knife #	D	Shank	B	Length	Category
92R4-345	3109323	1 1/16"	1/4"	6.7mm	2 1/4"	I

Replacement Parts:
Knife: 3109323 12 x 12 x 1.5 ; Ball Bearing: BB-12 ; Flat head screw for knife: 1930355 ;
Flat Screw for Bearing: 1930016 *Price per single knife.*



"V" Grooving Bits

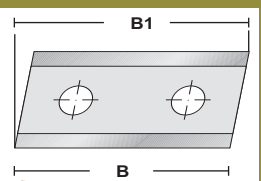
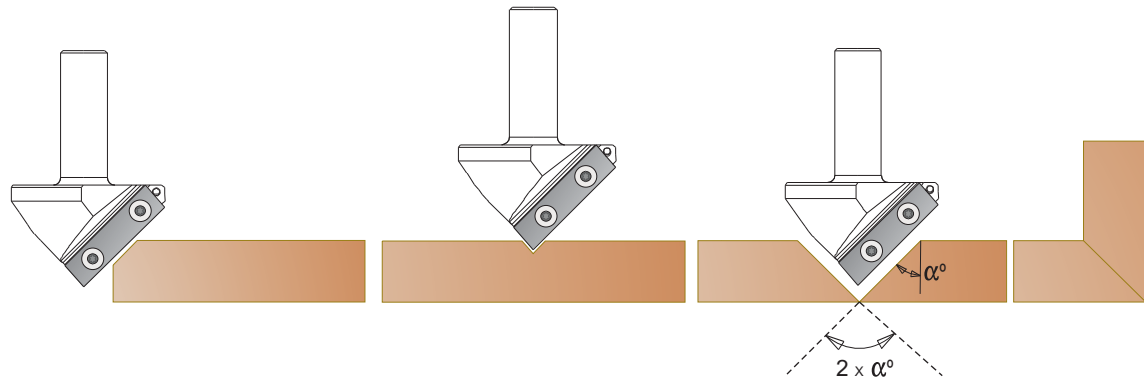
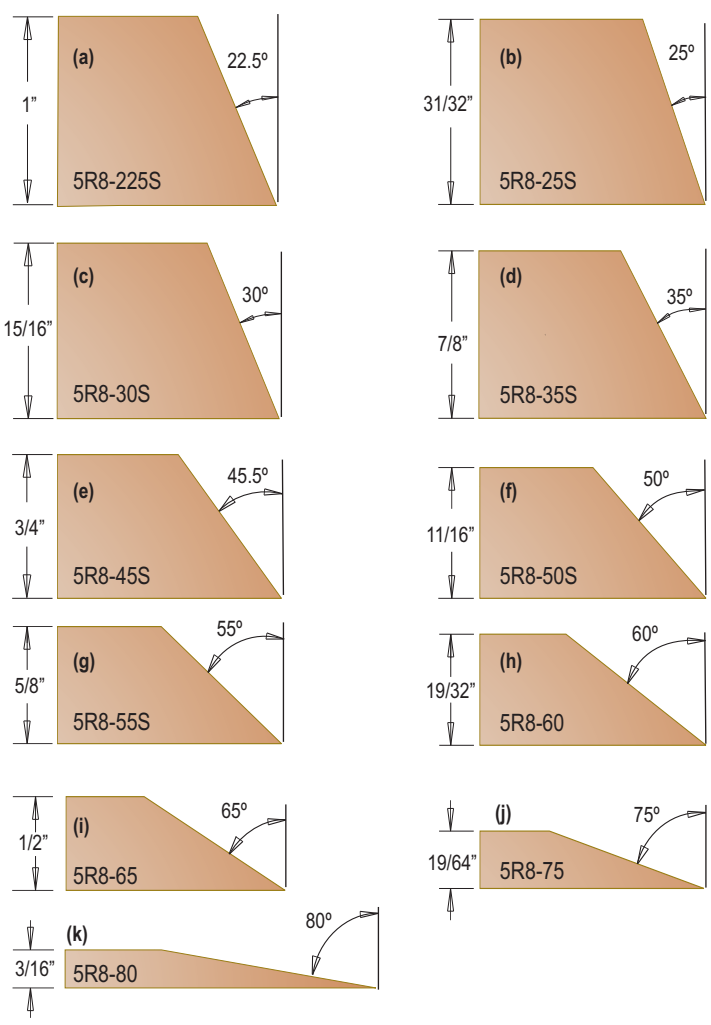
Disposable insert router bit complete with one or two cutting flutes, designed for engraving on solid wood, hardwood and man-made boards.

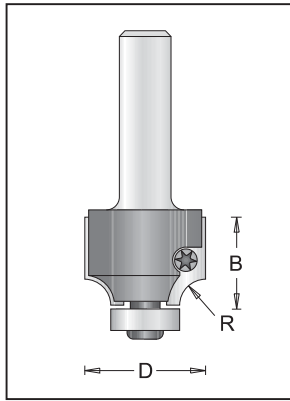
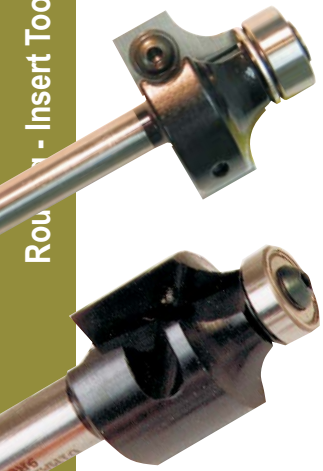
	Tool no.	D	Shank	B	B1	α	Length	Flutes	Parts	Cat.
New	5R8-225S	13/16"	1/2"	1"	1 1/16"	22.5°	2 3/8"	1	a	l
New	5R8-25S	7/8"	1/2"	31/32"	1 1/16"	25°	2 9/16"	1	b	l
New	5R8-30S	1"	1/2"	15/16"	1 1/16"	30°	2 3/8"	1	c	l
New	5R8-35S	1 1/4"	1/2"	7/8"	1 1/16"	35°	2 9/16"	1	d	l
New	5R8-45S	1 1/2"	1/2"	3/4"	1 1/16"	45.5°	3"	1	e	l
New	5R8-50S	1 5/8"	1/2"	11/16"	1 1/16"	50°	3 1/4"	1	f	l
New	5R8-55S	1 3/4"	1/2"	5/8"	1 1/16"	55°	3 1/4"	1	g	l
New	5R8-60	2"	1/2"	19/32"	1 3/16"	60°	3"	2	h	l
New	5R8-65	2 1/8"	1/2"	1/2"	1 11/64"	65°	3"	2	i	l
New	5R8-75	2 1/4"	1/2"	19/64"	1 11/64"	75°	2 15/16"	2	j	l
New	5R8-80	2 5/16"	1/2"	3/16"	1 11/64"	80°	2 3/4"	2	k	l

18000
MAX. RPM

Replacement Parts:

	T.C. Knife	Torx screw	Torx key
(a)	3105230 27x9x1.5	1933548 M3.5 x 4.8	1941015 T-15
(b)	3105230 27x9x1.5	1933548 M3.5 x 4.8	1941015 T-15
(c)	3105230 27x9x1.5	1933548 M3.5 x 4.8	1941015 T-15
(d)	3105230 27x9x1.5	1933548 M3.5 x 4.8	1941015 T-15
(e)	3105003 28x12x1.5	1933548 M3.5 x 4.8	1941015 T-15
(f)	3105003 28x12x1.5	1933548 M3.5 x 4.8	1941015 T-15
(g)	3105003 28x12x1.5	1933548 M3.5 x 4.8	1941015 T-15
(h)	3105006 29.8x12x1.5	1931481 M4 x 5.6	1941015 T-15
(i)	3105006 29.8x12x1.5	1931481 M4 x 5.6	1941015 T-15
(j)	3105005 29.8x12x1.5	1931482 M4 x 5.6	1941015 T-15
(k)	3105005 29.8x12x1.5	1931482 M4 x 5.6	1941015 T-15



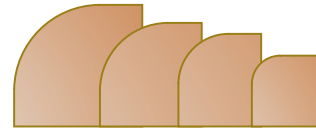


Replacement Knife:

3109326	15.7 x 9 x 1.5 (6mm)
3109303	20 x 9 x 1.5 (3mm)
3109306	20 x 9 x 1.5 (6mm)
3109308	30 x 15 x 1.5 (8mm)
3109310	30 x 15 x 1.5 (10mm)

Price per single knife.

Rounding Over Bits, 2 Flutes



Tool no.	Knife #	D	Shank	B	R	Length	Parts	Cat.
9R4-6M	3109326	1"	1/4"	5/8"	6mm	2 3/16"	(a)	I
9RC8-3	3109303	1 1/2"	1/2"	3/4"	3mm	2 5/8"	(b)	I
9RC8-6	3109306	1 1/2"	1/2"	3/4"	6mm	2 5/8"	(c)	I
9RC8-8	3109308	1 1/2"	1/2"	1 3/16"	8mm	3"	(d)	I
9RC8-10	3109310	1 1/2"	1/2"	1 3/16"	10mm	3"	(e)	I

Replacement Parts:

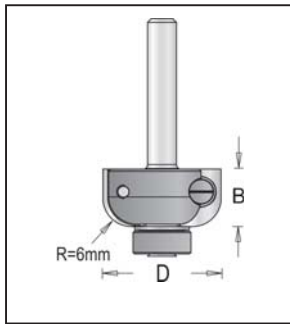
(a) Ball Bearing: BB-12 ; Flat head screw for knife: 1930355 ; Allen Key: 1940200 ; Flat Screw: 1930016

(b) Ball Bearing: BB-19A ; Torx Screw: 1931482 ; Key T15: 1941015

(c) Ball Bearing: BB-16M ; Torx Screw: 1931482 ; Key T15: 1941015

(d) Ball Bearing: BB-16M ; Torx Screw: 1931482 ; Key T15: 1941015

(e) Ball Bearing: BB-16M ; Torx Screw: 1931482 ; Key T15: 1941015



Cove Bit, 2 Flutes



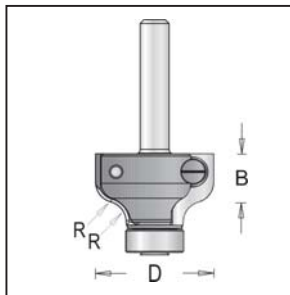
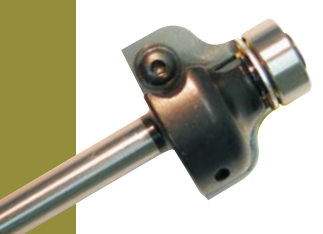
Tool no.	Knife #	D	Shank	B	Length	Category
12R4-6M	3112006	1"	1/4"	9/16"	2 1/16"	I

Replacement Parts:

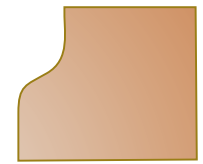
Knife: 3112006 ; Ball Bearing: BB-12 ; Flat head screw for knife: 1930355 ;

Allen Key: 1940200 ; Flat Screw: 1930016

Price per single knife.



Ogee Fillet, 2 Flutes



Tool no.	Knife #	D	Shank	B	R	Length	Category
38R4-4.5M	3138501	1"	1/4"	5/8"	4.5mm	2 5/16"	I

Replacement Parts:

Knife: 3138501 ; Ball Bearing: BB-12 ; Flat head screw for knife: 1930355 ;

Allen Key: 1940200 ; Flat Screw: 1930016

Price per single knife.



Torx Key



Tool no.	Size	Category
1941015	T15	I
1941100	T9	I

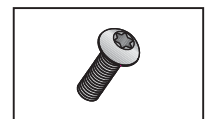


Hex Key

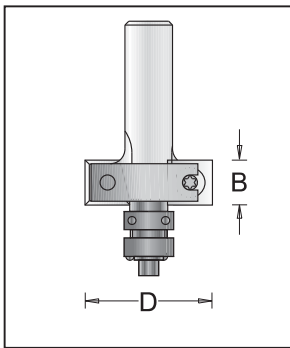


Tool no.	Size	Category
1940090	S3	I
1941020	S1.5	I

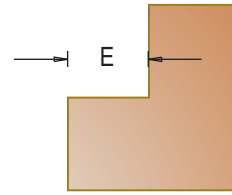
Torx Screws



Tool no.	Size	Head Dia.	Thread Length	Category
1931481	M4	7mm	7/32"	I
1931482	M4	8mm	7/32"	I
1933548	M3.5	6mm	3/16"	I
1933648	M3.5	6mm	3/16"	I



Rabbeting Bits, 2 Flutes



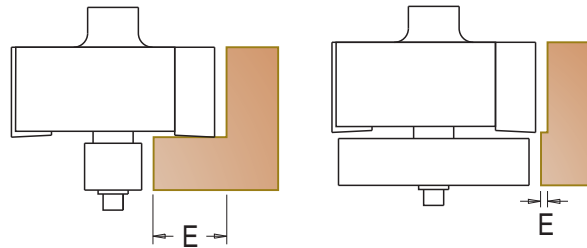
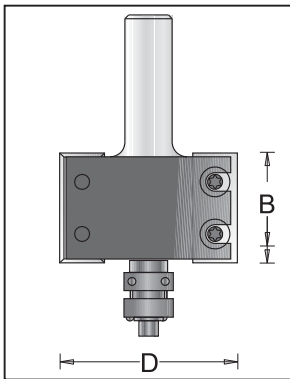
	Tool no.	Knife #	D	Shank	B	E	Length	Parts	Cat.
New	4R4-28	3101513	1 1/8"	1/4"	33/64"	3/8"	1 7/8"	(a)	I
	4R8-35	L12	1 1/2"	1/2"	15/32"	7/16"	2 1/2"	(b)	I

Replacement Parts:

(a) Knife: 3101513; Ball Bearing: BB-10; Flat head screw for knife: 1930355; Allen Key: 1940200; Flat Screw: 1930016

(b) Knife: L12; Ball Bearing: BB-12A; Torx Screw: 1931482; Key T15: 1941015; Washer: 1950010; Spacer: 1920270; Screw: 1930040

Knives sold in lots of 10 pieces. Price per single knife.

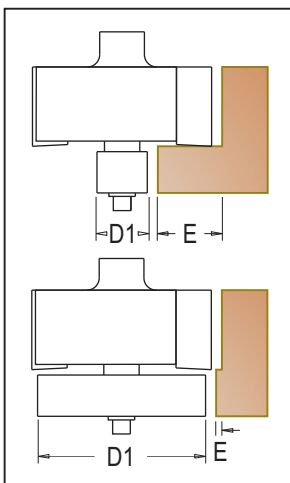


Tool no.	Knife #	D	Shank	B	E	Length	Category
4R8-50	L301	2"	1/2"	1 3/16"	3/4"	3 5/16"	I

Replacement Parts:

Knife: L301; Ball Bearing: BB-12A; Torx Screw: 1931482; Key T15: 1941015; Washer: 1950010; Spacer: 1920270; Screw: 1930040

Knives sold in lots of 10 pieces. Price per single knife.



Collars

Tool no.	D1	(E) for 4R8-35	(E) for 4R8-50	Cat.
1929790	2"	-	Flush	R
1929900	47.6mm	-	1/16"	R
1929890	44.4mm	-	1/8"	R
1929880	41.3mm	-	3/16"	R
1929950	38.9mm	-	15/64"	R
1929870	38.1mm	-	1/4"	R
1929860	34.9mm	Flush	5/16"	R
1929940	32.5mm	3/64"	23/64"	R
1929850	31.7mm	1/16"	3/8"	R
1929840	28.6mm	1/8"	7/16"	R
1929930	27.0mm	5/32"	15/32"	R
1929830	25.4mm	3/16"	1/2"	R
1929820	22.2mm	1/4"	9/16"	R
1929920	20.6mm	9/32"	19/32"	R
1929810	19.0mm	5/16"	5/8"	R
1929800	15.9mm	3/8"	11/16"	R
1929910	14.3mm	13/32"	23/32"	R





Engraving system NEW

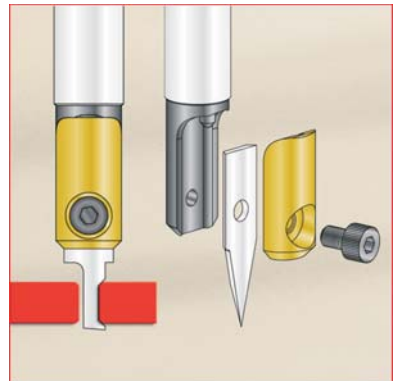
The Engraving Insert System features one tool body with 40 unique insert knives designed for a variety of applications: Straight cut, core box, round corner, V grooves and Chamfering.

Industrial quality insert knives ensure clean cuts and a longer life time than the standard solid router bits.

This engraving system was engineered to quickly interchange inserts while mounted in CNC machines to eliminate set up time and to maintain consistent cutting accuracy.

Balanced design to minimize vibration and to provide superior cutting results.

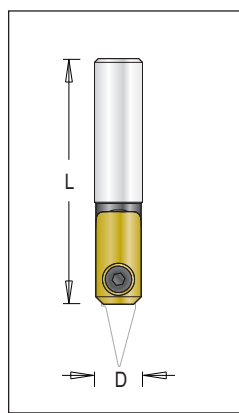
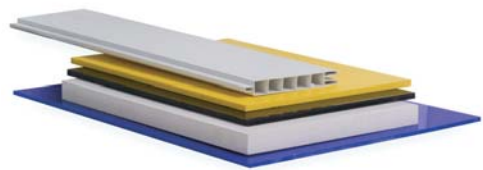
Ideal for cutting laminated materials, veneers, MDF, plastics, wood and solid surfaces.



Engraving System, Arbor only

Tool no.	D	Shank	L	Cat.
G1853X04	12mm	1/4"	65mm	I
G1853X08	12mm	1/2"	65mm	I


Allen screw
M4x6
1938070



Engraving System Insert Knives

NEW

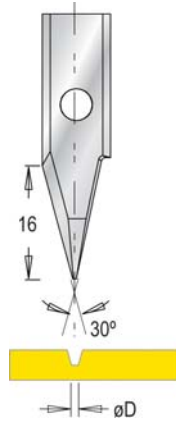
Category "T"

"V" Groove 30°

Tool No.	D
*3185005	0.12mm
*3185006	0.24mm
3185007	0.50mm
3185008	0.75mm
3185009	1.0mm
3185010	1.5mm
3185011	2.25mm

* Only for use with controllable feed rate machines.

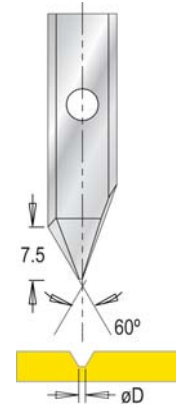
 Dealer Net Price in effect



"V" Groove 60°

Tool No.	D
*3185018	0.12mm
*3185019	0.24mm
3185020	0.50mm
3185021	0.75mm
3185022	1.0mm
3185023	1.5mm
3185024	2.25mm

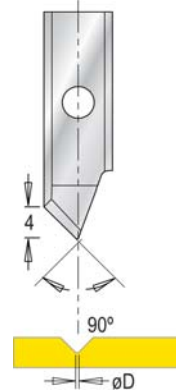
 Dealer Net Price in effect



"V" Groove 90°

Tool No.	D
3185014	0.12mm
3185015	0.24mm
3185016	0.50mm
3185017	1.0mm

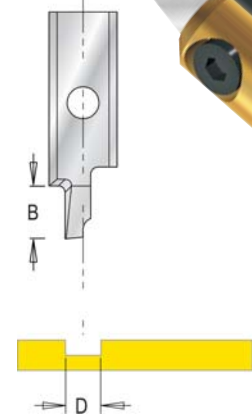
 Dealer Net Price in effect



Straight

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

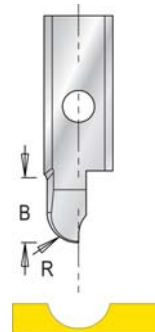
 Dealer Net Price in effect



Core Box

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

 Dealer Net Price in effect

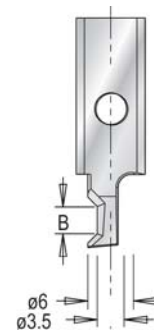


Cutting and Chamfering

Tool No.	B
3185040	0.5mm
3185036	1.0mm
3185002	1.5mm
3185037	1.8mm
3185041	2.3mm
3185042	3.3mm
3185012	3.6mm
3185043	4.3mm
3185013	4.6mm
*3185003	5.0mm
*3185044	5.5mm
*3185038	6.3mm
*3185039	8.3mm

* Only for Chamfer operation.

 Dealer Net Price in effect



Corner Round

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

 Dealer Net Price in effect

