

# Professional **W**oodworking **T**ools

Engineering



perfection



Process



## The Vision That Works



Capacity



Quality control



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**Products**

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# WPW

## Product Catalogue 2008

Metric Version

## A word from the president

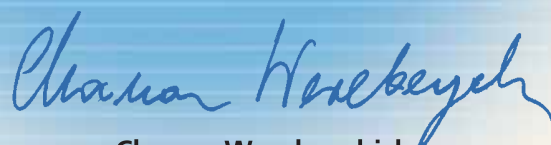


I have been involved in metal working since I was a boy working in my father's machine shop before the 2<sup>nd</sup> World War. In 1959 I started a small factory with 2 partners, which later became W.P.W. Engineering. In the early sixties, carbide tipped tools for woodworking were very new and only a few factories were able to make them. We were the first company in Israel to make Carbide Tipped Router Bits and we have gained tremendous experience over the years.

W.P.W. Engineering has grown to be a leading manufacturer of Carbide Router Bits and other quality tools for woodworking. Thanks to our experienced workers and constant improvements in our production process, we have achieved high quality, reliability and fast delivery of our stock items. This is why our cutting tools are used in the woodworking industry worldwide. There is no compromise in production quality and quality of materials used. Our customers know and appreciate this and therefore are very loyal to WPW.

Our products are sold in North America, Western and Eastern Europe, South Africa, and Australia under WPW and Woodpecker brand names and private labels.

You may find cheap tools on the market, but as the old saying goes: "we are not rich enough to buy cheap..." WPW high quality tools (some of our customers say - the best quality) give excellent value for your money. Thank you for your trust in our products and for giving us the opportunity to serve you.

**Chanan Werebeychick**  
President

## Range

This catalogue presents a very comprehensive range of industrial quality carbide, Router Bits, Boring Bits and Countersink Bits.

For the first time in our catalogue, we present our innovative Up-Sear line of CNC straight production bits - page 12. Please make sure to check our "Click & Drill" line - a professional Quick-Change system for drilling, countersinking and screw-driving.

Our well known economical Woodpecker line includes the most popular router bits and other tools essential for every craftsman and DIY amateur.

## Quality

WPW offers tools designed for quality cutting, efficiency and long tool life. Compliance with our own specifications is guaranteed by strict quality control used throughout the manufacturing process. Our sophisticated computer controlled machines contribute to this process.

The quality control system assures us accurate dimensions, concentricity, correct cutting angles, quality of grinding, brazing, etc.

Woodpecker Router Bits are made with Anti Kickback design according to safety requirements of the German Woodworking Trade Association. BG-TEST approval No. 159-000.



## How to use this catalogue

The tools in the catalogue are arranged according to their shape or application. You can easily find the proper page using the Table of Contents with the tool profiles - pages 4-5. If you already use our tools or know the code - tool number, you can easily find it by using the alphabetical index on the last page of the catalogue - page 67.

While ordering, please pay attention to the last digit of the tool number, which indicates the shank diameter. Please specify shank diameter by changing the last digit according to the following table.

Shank Diameter	6mm	1 / 4 "	8mm	3 / 8 "	10mm	12mm	1 / 2 "	16mm	20mm
Last Digit	3	4	5	6	7	2	8	1	E

For Example:

**F240953** is a tool with 6mm shank

**F240954** is a tool with 1/4" shank

**F241272** is a tool with 12mm shank

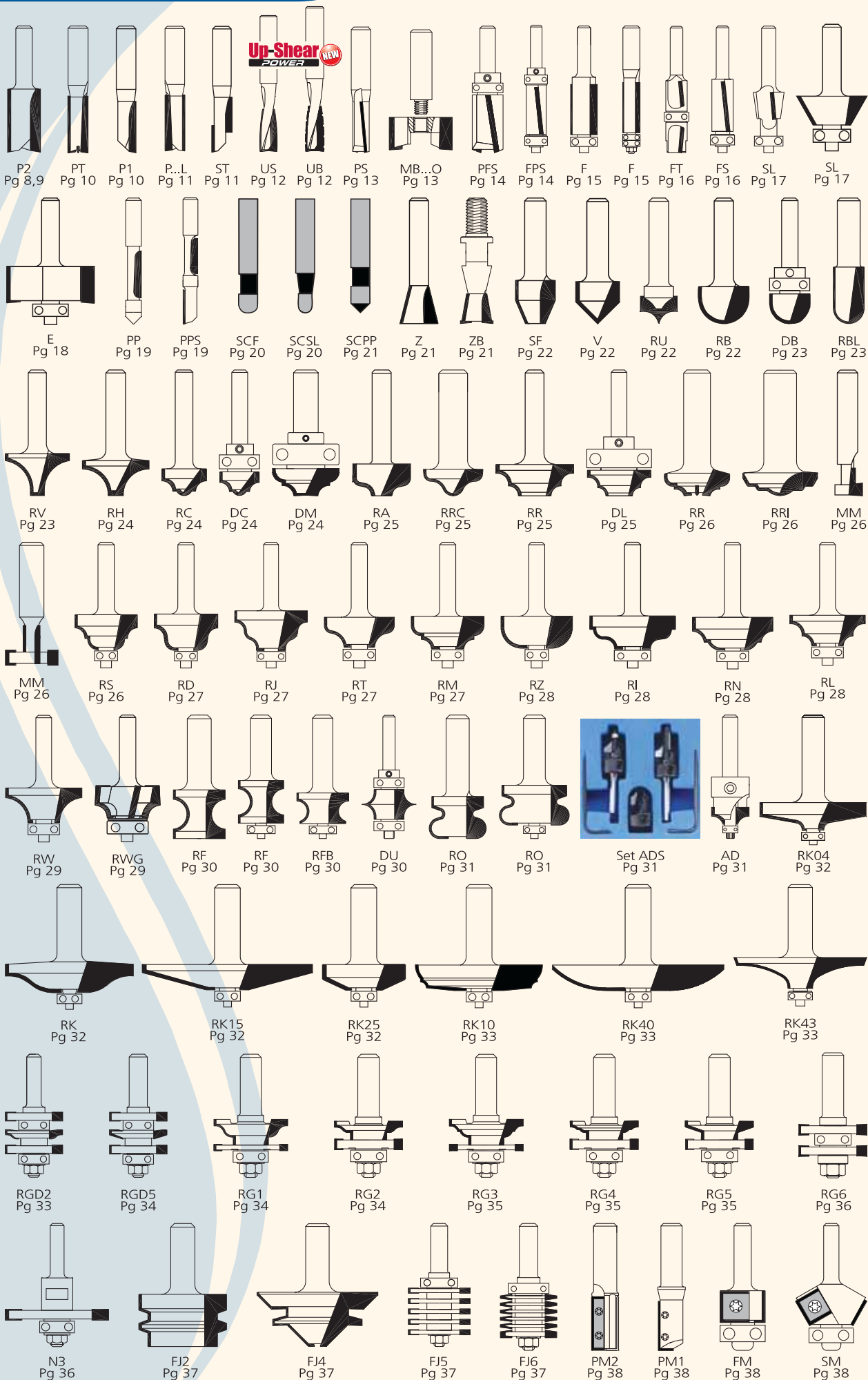
**F241278** is a tool with 1/2" shank

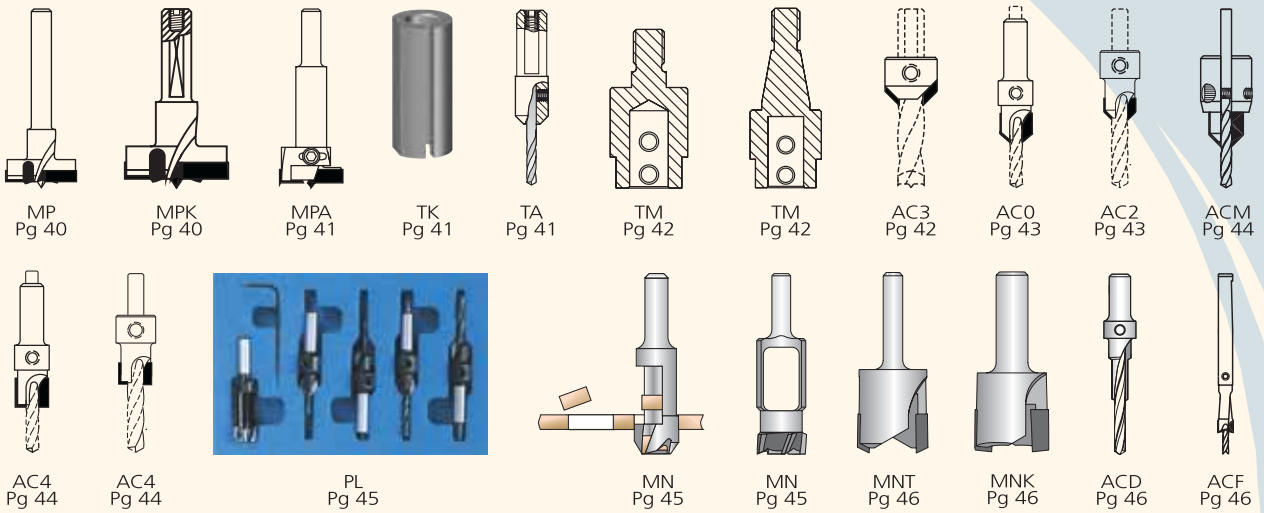
All WPW tools are carbide tipped with 2 tips unless stated otherwise.

All specifications in this catalogue are subject to change without any notice.

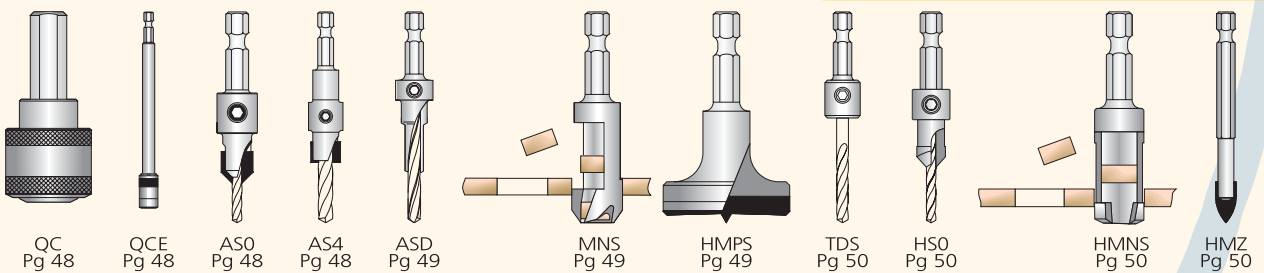
**GUARANTEE**

All tools are guaranteed against any defects in either workmanship or material. We will not guarantee tools that have been abused or have been damaged due to improper maintenance.

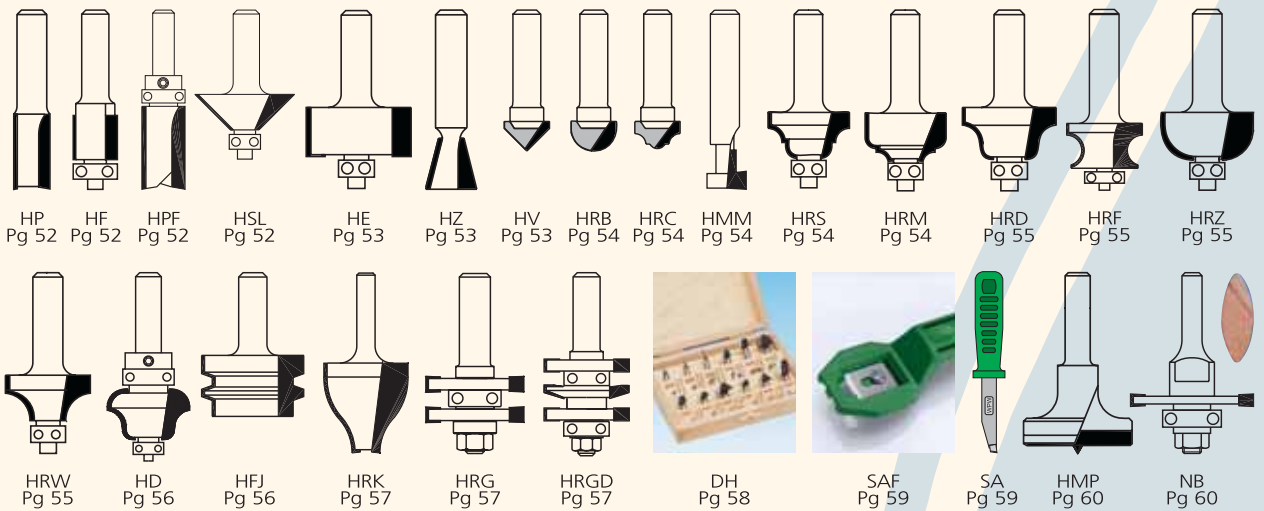




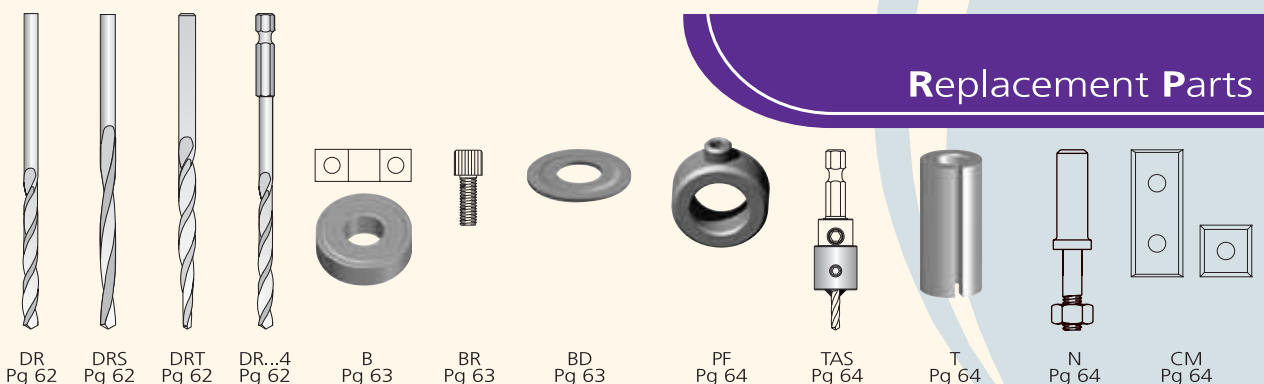
## Click & Drill



## WoodPecker



## Replacement Parts



## Technical information

All Router Bits included in this catalogue are Tungsten Carbide tipped or solid carbide, unless stated otherwise, and are designed for use in portable or stationary, including CNC, routing machines.

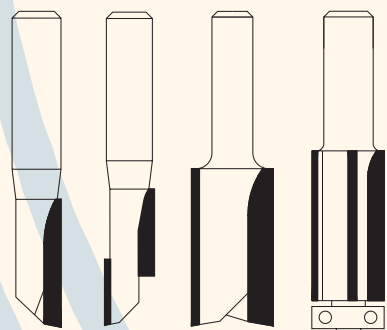
Tungsten Carbide tipped tools have carbide tips brazed onto a steel body. Solid Carbide tools are ground from a solid piece of Tungsten Carbide. Both are designed to cut hard and soft wood, wood by-products such as chipboard, MDF and plywood, plastic, Corian® and other solid surface sheet goods. Aluminium and brass can also be cut, but only on stationary machines, provided that proper clamping devices are employed and the proper speed (RPM) and coolant are used.

### Shank and collet

Always use the largest diameter shank available that your router will accommodate. Use the correct size collet. Proper collet condition is of extreme importance. Worn out or distorted collets do not provide adequate holding power and increase run-out and vibration. At least 3/4 of the shank length should be inserted into the collet. The best way is to insert it completely and back off slightly - 1.5mm approx.

### Flutes

**Single flute** (1 cutting edge) Router Bits are used for free cutting when fast feed rate takes preference and finish is of secondary importance.



**Single Flute** **Stagger Flutes** **2 Flutes** **4 Flutes**

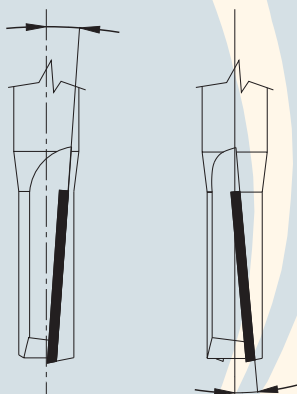
**Stagger-Tooth** Router bits are actually tools with a single flute divided into two parts - staggered 180°. They combine the fast stock removal of single-flute bits with a better balance and increased strength.

**Double flute** (2 cutting edges) Router bits are used when the finish is primary and the feed rate is secondary.

**3 and 4 flute bits**, available on some bits, provide extremely smooth finish on certain laminates that tend to chip easily. They have longer tool life and give much better results while working other hard materials, such as solid surface materials or even aluminium.

### Shear angle

Straight Shear Bits are made with negative - "down shear" - or positive - "up shear" - angle of cutting edges. By spreading the cutting action over a larger part of the bit's diameter they produce smoother cuts with less energy and vibration, than standard Straight Bits. This is the reason why profile router bits and cutters are usually made with an up shear angle and this is also the advantage of straight spiral bits. Actually the Straight Shear Bits are a compromise between the standard Straight Bits and the very expensive, industrial Solid Carbide Spiral Bits.



**Up Shear** **Down Shear**

WPW shear bits have very sharp, helical ground cutting edges, which make superior cuts on the wood.

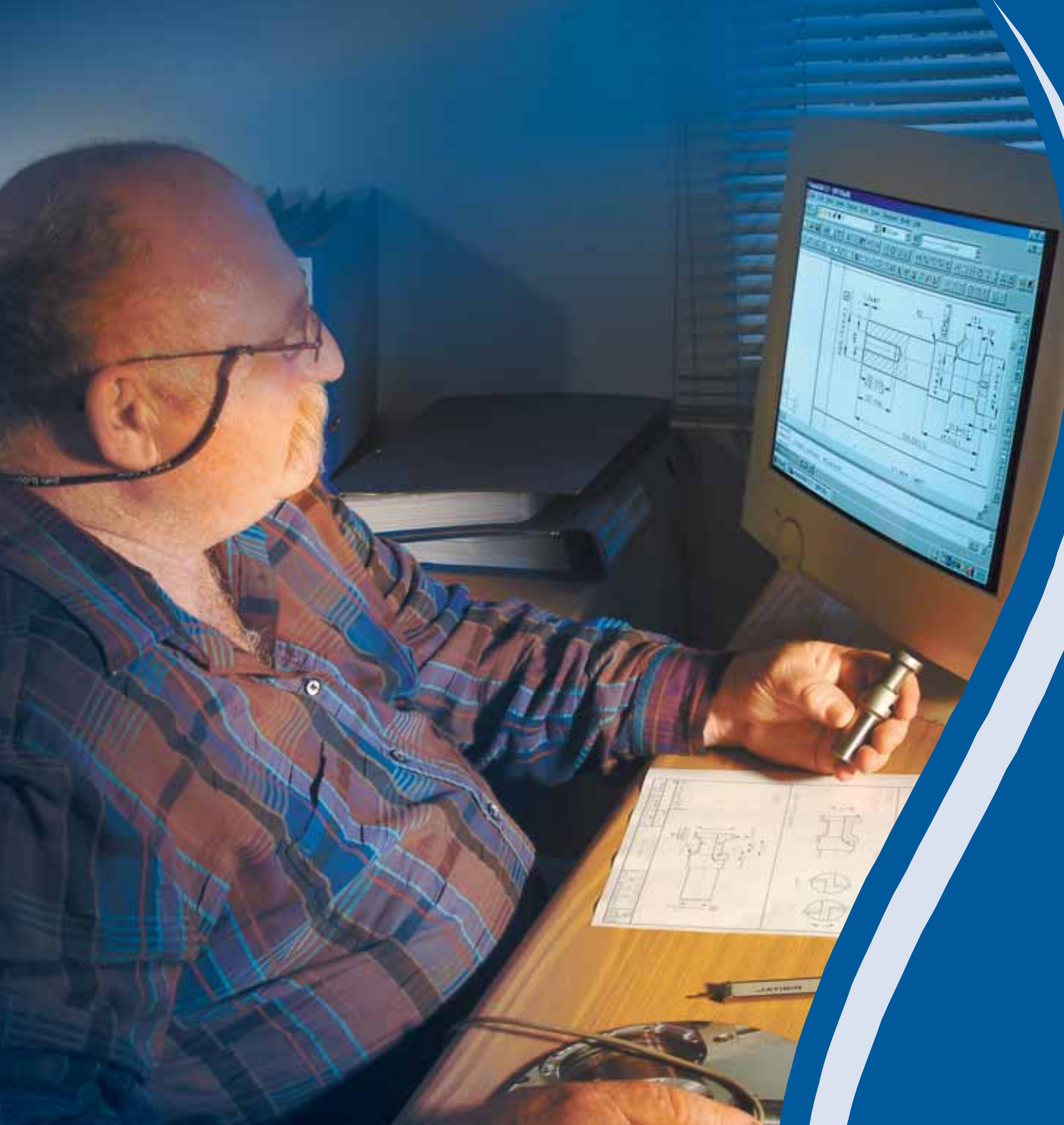
The shear angle allows control of chip removal direction - up or down.

For grooving applications use "up-shear", which pushes chips towards the shank. For laminates, use down shear, to avoid chipping on edges.



# Engineering

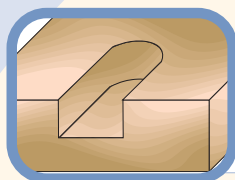
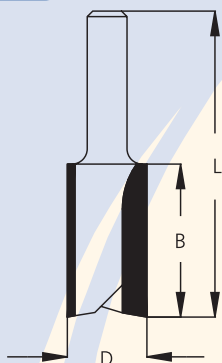
Designing innovative products by an experienced and professional staff



## Professional Router Bits

This section presents a most comprehensive range of industrial quality Router Bits - Tungsten carbide tipped, solid carbide and replaceable carbide. This range is the best choice when the quality of the cut and long tool life are the primary factors. It should satisfy most demanding applications in manufacturing and in the woodworking trade.

Shank Diameter	6mm	1/4"	8mm	3/8"	10mm	12mm	1/2"	16mm	20mm
Last Digit	3	4	5	6	7	2	8	1	E



**P2**

## Straight Plunge - Cutting Bits

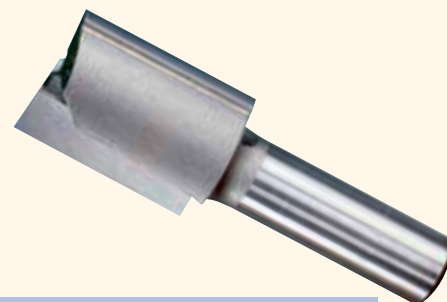
2 Flutes



6mm or 1/4" shank

Tool No.	D	B	L
	mm	mm	mm
<b>S</b> P210153	1.5	5	44
<b>S</b> P210163	1.6	5	44
<b>S</b> P210183	1.8	5	44
<b>S</b> P210203	2.0	5	44
<b>S</b> P210253	2.5	8	51
<b>S</b> P210303	3.0	11	51
<b>S</b> P200323	3.2	8	47
<b>S</b> P210323	3.2	11	51
<b>S</b> P210403	4.0	11	51
<b>S</b> P210483	4.8	11	51
<b>S</b> P210503	5.0	11	51
<b>S</b> P290503	5.0	11	60
<b>S</b> P220503	5.0	16	57
P230563	5.6	19	51
P230603	6.0	19	51
P240603	6.0	25	57
P220633	6.3	13	51
P230633	6.3	19	51
P240633	6.3	25	57
P290633	6.3	25	73
P230703	7.0	19	51
P240703	7.0	25	57
P230803	8.0	19	51
P240803	8.0	25	57
P230903	9.0	19	51
P240903	9.0	25	57
P230953	9.5	19	51
P240953	9.5	25	57

Tool No.	D	B	L
	mm	mm	mm
P250953	9.5	32	63
P231003	10.0	19	51
P241003	10.0	25	57
P251003	10.0	32	63
P231103	11.0	19	51
P241103	11.0	25	57
P231203	12.0	19	51
P241203	12.0	25	57
P231273	12.7	19	51
P241273	12.7	25	57
P251273	12.7	32	63
P251303	13.0	32	63
P231403	14.0	19	51
P231433	14.3	19	51
P231503	15.0	19	51
P231603	16.0	19	51
P241603	16.0	25	57
P231703	17.0	19	51
P231763	17.5	19	51
P231803	18.0	19	51
P231903	19.0	19	51
P232003	20.0	19	51
P232063	20.6	19	51
P232223	22.0	19	51
P232503	25.0	19	51
P232543	25.4	19	51



8 mm shank

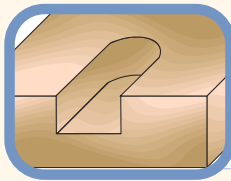
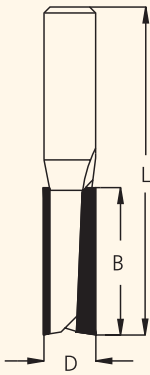
Tool No.	D	B	L
	mm	mm	mm
<b>S</b> P210205	2.0	5	44
<b>S</b> P210305	3.0	11	51
<b>S</b> P200325	3.2	8	47
<b>S</b> P210405	4.0	11	51
<b>S</b> P210505	5.0	11	51
<b>S</b> P220505	5.0	16	57
P230605	6.0	19	51
P240605	6.0	25	57
P230705	7.0	19	51
P230805	8.0	19	51
P240805	8.0	25	57
P231005	10.0	19	51
P241005	10.0	25	57

Tool No.	D	B	L
	mm	mm	mm
P251005	10.0	32	63
P231205	12.0	19	51
P241205	12.0	25	57
P251205	12.0	32	63
P251275	12.7	32	63
P231405	14.0	19	51
P231505	15.0	19	51
P231605	16.0	19	51
P241605	16.0	25	57
P231805	18.0	19	51
P232005	20.0	19	51
P232205	22.0	19	51
P232505	25.0	19	51

**S** - Solid Carbide cutting edge

Reminder:

Shank Dia.	6mm	1/4"	8mm	12mm	1/2"
Last Digit	3	4	5	2	8

**P2**

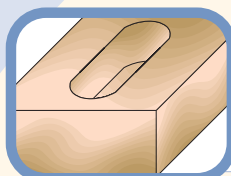
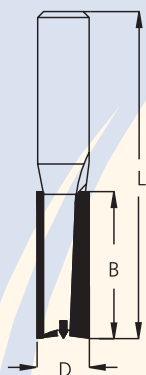
## Straight Plunge - Cutting Bits

2 Flutes

12mm or 1/2" shank

	Tool No.	D	B	L
		mm	mm	mm
<b>S</b>	P210402	4.0	11	63
	P235602	6.0	19	63
<b>S</b>	P230602	6.0	19	63
	P230632	6.3	19	63
	P240632	6.3	25	70
	P230802	8.0	19	63
	P240802	8.0	25	70
	P230952	9.5	19	63
	P240952	9.5	25	70
	P250952	9.5	32	76
	P241002	10.0	25	70
	P251002	10.0	32	76
	P241102	11.0	25	67
	P251102	11.0	32	76
	P241202	12.0	25	67
	P251202	12.0	32	73
	P261202	12.0	38	80
	P281202	12.0	51	108
	P241272	12.7	25	67
	P241272X	12.7	25	82
	P251272	12.7	32	73
	P261272	12.7	38	80
	P271272	12.7	38	108
	P281272	12.7	51	108
	P291272	12.7	63	114
	P201272	12.7	75	133
	P261302	13.0	38	80
	P251352	13.5	32	73
	P241402	14.0	25	67
	P251402	14.0	32	73
	P241432	14.3	25	67
	P251432	14.3	32	73
	P241602	16.0	25	67
	P251602	16.0	32	73
	P261602	16.0	38	80
	P281602	16.0	51	96
	P241652	16.5	25	67
	P251672	16.5	32	73
	P241702	17.0	25	67
	P251762	17.5	32	73
	P241802	18.0	25	67
	P251802	18.0	32	73
	P241902	19.0	25	67
	P251902	19.0	32	73
	P261902	19.0	38	80
	P281902	19.0	51	96
	P252002	20.0	32	73
	P282002	20.0	51	96
	P252062	20.6	32	73
	P252222	22.0	32	73
	P252502	25.0	32	73
	P252542	25.4	32	73
	P262542	25.4	38	80
	P282542	25.4	51	96
	P253002	30.0	32	73
	P253202	32.0	32	73
	P253502	35.0	32	73
	P253802	38.0	32	73
	P254502	45.0	32	73

**S** - Solid Carbide cutting edge

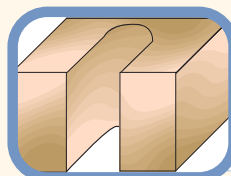
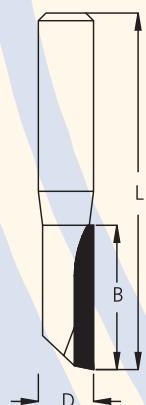


PT

### Straight Bits - Carbide Center Tip

For faster and easier plunging.  
Longer tool life when plunging hard materials.

Tool No.	D	B	L	Shank Dia.
	mm	mm	mm	mm
PT30805	8.0	19	51	8
PT31005	10.0	19	51	8
PT41205	12.0	25	57	8
PT41405	14.0	25	57	8
PT41605	16.0	25	57	8
PT41805	18.0	25	57	8
PT30802	8.0	19	63	12
PT31002	10.0	19	63	12
PT41202	12.0	25	67	12
PT41402	14.0	25	67	12
PT41602	16.0	25	67	12
PT41802	18.0	25	67	12
PT42002	20.0	25	67	12
PT42542	25.4	25	67	12



P1

### Straight Plunge Cutting Bits

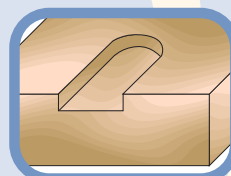
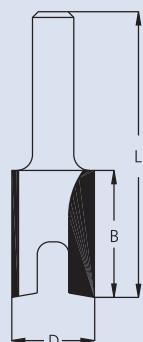
Single flute.  
For faster feed rates and maximum stock removal.

Tool No.	D	B	L	Shank Dia.
	mm	mm	mm	mm
S P110103	1.0	3	43	6
S S P110163 or 5	1.6	5	43	6 or 8
S S P110183	1.8	5	43	6
S S P110203 or 5	2.0	5	43	6 or 8
P110323	3.2	11	47	6
P110483	4.8	11	51	6
P120633	6.3	13	51	6
P140633	6.3	25	57	6
P190633	6.3	25	73	6
P130703	7.0	19	51	6
P140803	8.0	25	57	6
P131903	19.0	19	51	6
P130632	6.3	19	63	12
P130802	8.0	19	63	12
P140952	9.5	25	70	12
P150952	9.5	32	76	12
P160952	9.5	38	80	12
P141272	12.7	25	67	12
P151272	12.7	32	73	12
P161272	12.7	38	80	12
P181272	12.7	51	108	12
P151602	16.0	32	73	12

S - Solid Carbide cutting edge

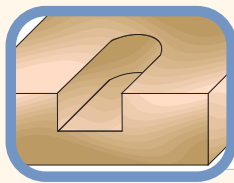
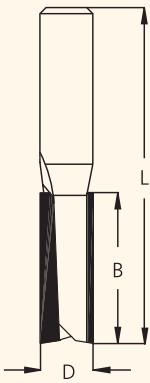
### Hinge Mortising Bits

This special design is best for plunging and mortising shallow grooves.



MB

Tool No.	D	B	L	Shank Dia.
	mm	mm	mm	mm
MB31273	12.7	19	51	6
MB31603	16.0	19	51	6
MB31903	19.0	19	51	6

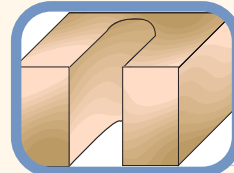
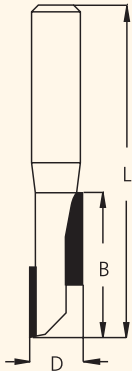
**P...L****Left Hand Straight Plunge Cutting Bits**

2 Flutes, left hand rotation.

Tool No.	D	B	L	Shank Dia.
	mm	mm	mm	mm
P230632L	6.3	19	63	12
P240952L	9.5	25	70	12
P241272L	12.7	25	67	12
P261272L	12.7	38	80	12
P281272L	12.7	51	108	12

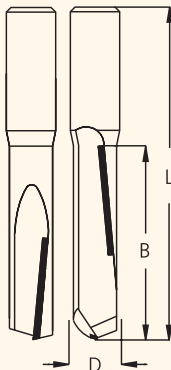
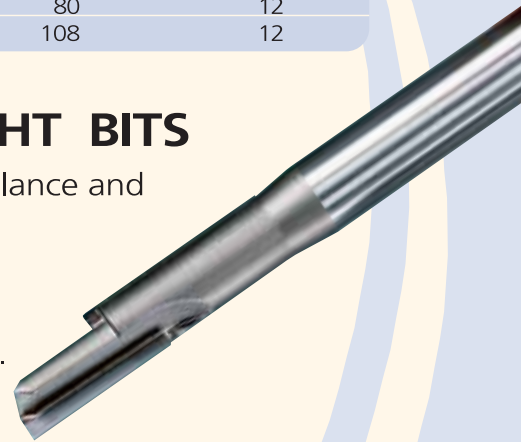
**ST STAGGER TOOTH STRAIGHT BITS**

For fast stock removal as single flute, but better balance and increased strength.

**ST****Stagger Tooth**

Plunge Cutting Bits.

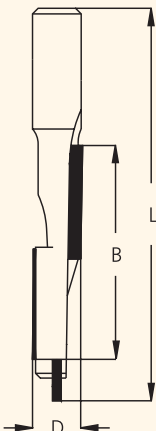
Tool No.	D	B	L	Shank Dia.
	mm	mm	mm	mm
ST61272	12.7	38	80	12
ST81272	12.7	51	108	12
ST91272	12.7	57	114	12
ST01272	12.7	63	114	12

**STS****Stagger Straight Shear Bits**

Up and down shear angle.

For cleaner edges of double faced boards, plywoods and natural woods.

Tool No.	D	B	L	Shank Dia.
	mm	mm	mm	mm
STS6132	12.7	38	79	12
STS9132	12.7	57	108	12

**STD, STP****Stagger Straight Bits**

With carbide boring point.

For better plunging into hard materials.

Tool No.	D	B	L	Shank Dia.
	mm	mm	mm	mm
<b>Down Shear</b>				
STD9132	12.7	57	118	12
<b>Up and Down Shear Angle</b>				
STP9132	12.7	57	118	12

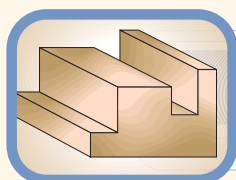
Reminder:

Shank Dia.	6mm	1/4"	8mm	12mm	1/2"
Last Digit	3	4	5	2	8

# CNC Straight Production Bits

**Up-Shear**  
**POWER** 

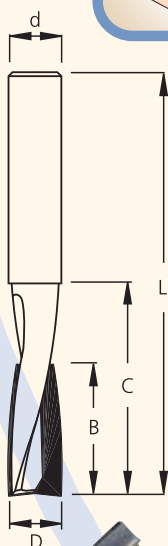
The shearing action of the US and UB series yields cleaner cuts with less energy and less vibration than the standard straight bits. The helical ground razor-sharp cutting edges provide superior finish. Spiral up-shear geometry pulls the chips from the working area, allowing deeper penetration with higher feed rates. The result is – long tool life during CNC operations at an affordable price. The use of these tools can prove, in many cases, to be more economical than the use of expensive spiral solid carbide tools. Using the Chipbreaker (Semi-finishing) - UB - Up-Shear Bits allows even higher feed rates leaving a relatively smooth surface finish. Designed for CNC machines, the tools are available with large shank diameters.



**US/UB**

## Up-Shear

Longer tool life and cleaner cut.  
For working in higher feed rates.



## US2 2 Flutes

Tool No.	D mm	B mm	L mm	C mm	d mm
US25132	13	32	90	45	12
US27132	13	42	105	55	12
US25161	16	32	100	50	16
US27161	16	42	110	60	16
US2520E	20	32	110	50	20
US2720E	20	42	120	60	20
US2525E	25	32	100	50	20

## 2+2 Flutes

US28132	13	50	110	60	12
US2820E	20	50	125	65	20

## US3 3 Flutes

Tool No.	D mm	B mm	L mm	C mm	d mm
US35161	16	32	100	50	16
US3520E	20	32	110	50	20
US3820E	20	50	125	65	20
US3525E	25	32	110	50	20

## UB2 2 Flutes

**Up-Shear Chipbreaker Production Bits**  
For roughing and semi finishing

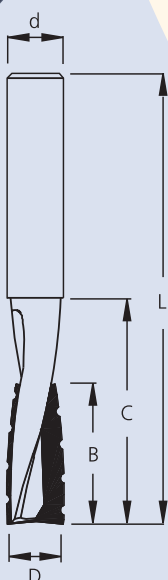
Tool No.	D mm	B mm	L mm	C mm	d mm
UB27132	13	42	105	55	12
UB2520E	20	32	110	50	20

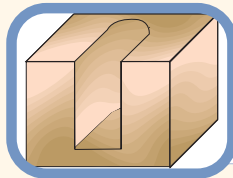
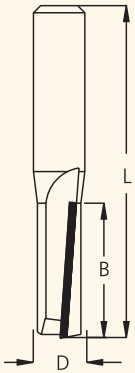
## 2+2 Flutes

UB28132	13	50	110	60	12
UB2820E	20	50	125	65	20

## UB3 3 Flutes

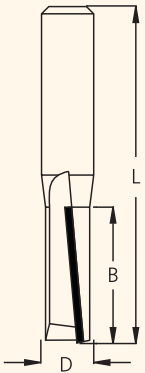
Tool No.	D mm	B mm	L mm	C mm	d mm
UB35161	16	32	100	50	16
UB3520E	20	32	110	50	20
UB3820E	20	50	125	65	20



**PU****Up Shear - Straight Bits**

Heavy duty, faster feed rate and increased tool life. For deep grooving in hard wood, MDF and other man made materials.

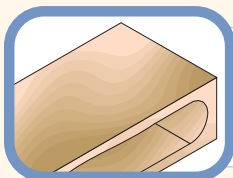
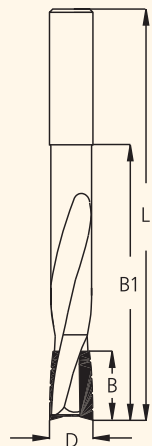
Tool No.	D	B	L	Shank Dia.
	mm	mm	mm	mm
PU40952	9.5	25	70	12
PU41272	12.7	25	67	12
PU51272	12.7	32	73	12
PU61272	12.7	38	80	12
PU81272	12.7	51	108	12
PU51902	19.0	32	73	12
PU52542	25.4	32	73	12

**PS****Down Shear - Straight Bits**

For smoother cut and cleaner edge of laminated boards. Directs chips towards the work piece.

Tool No.	D	B	L	Shank Dia.
	mm	mm	mm	mm
• PS51272	12.7	32	73	12
PS51272H	12.7	32	73	12
• PS61272	12.7	38	80	12
PS61272H	12.7	38	80	12
• PS81272	12.7	51	108	12
PS81272H	12.7	51	108	12

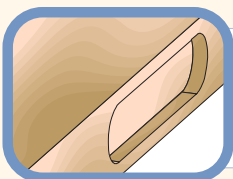
- - Radial relief
- H - Straight relief

**DT****Mortising Bits for Lock Case**

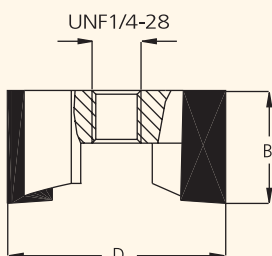
Up-Shear spiral design for deep grooving. Carbide tipped with chip breaker. For cutting mortise slots in doors and furnitures with reciprocating feed motion.

16mm or 5/8" shank

Tool No.	D	B	B1	L
	mm	mm	mm	mm
DT14001	14.0	25	110	160
DT16001	16.0	25	120	170
DT18001	18.0	25	120	170

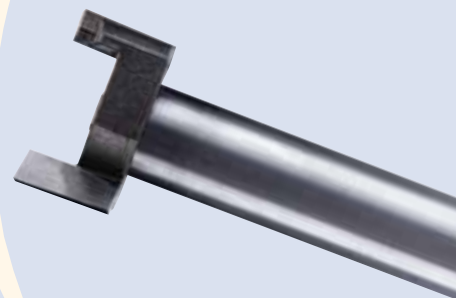
**MB...0****Lock Mortising Cutters**

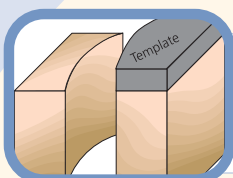
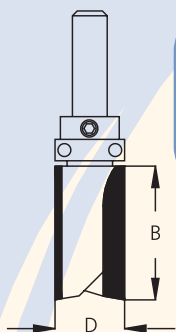
2 Flutes, screw type.  
Down-Shear.



Tool No.	D	B
	mm	mm
MB08000	12.7	16
MB10000	16.0	13
MB12000	19.0	13
MB14000	22.2	13
MB16000	25.4	13
MB18000	28.6	14.5
MB20000	31.8	16

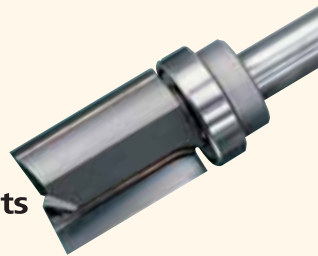
**Arbors:** NMB0003. Available with 6mm, 1/4", 12mm and 1/2" shank





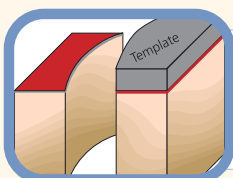
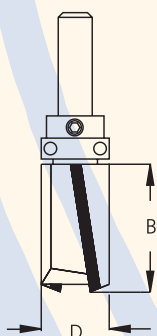
PF

## Straight Plunge Template Bits



Tool No.	D mm	B mm	Bearing	Shank Dia. mm
PF20953	9.5	13	B095063	6
PF11273	12.7	9	B127063	6
PF21273	12.7	13	B127063	6
PF31273	12.7	19	B127063	6
PF41273	12.7	25	B127063	6
PF41603 or 5	16.0	25	B159063	6 or 8
PF41903	19.0	25	B190063	6
PF42605 or 6	26.0	25	B260100	8 or 9.5
PF41902	19.0	25	B190127	12
PF81902	19.0	51	B190127	12
PF72542	25.4	45	B254127	12
PF62852	28.6	38	B285127	12
PF82852	28.6	51	B285127	12
PF73202	31.8	45	B318150	12

For retaining collars see page 64



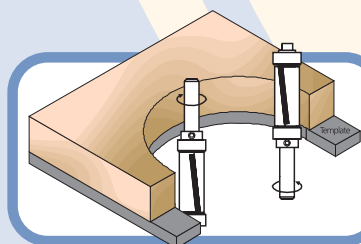
PFS

## Straight Down Shear Template Bits

For better finish on laminates.

Tool No.	D mm	B mm	Bearing	Shank Dia. mm
PFS5192	19.0	32	B190127	12
PFS6192	19.0	38	B190127	12
PFS8192	19.0	51	B190127	12

Retaining collar - PF19000



FPS

## Down Shear Multi Trimmer

This adaptable double bearing guided cutter has down-shear design which ensures a clean cut even in difficult materials.

The two bearing design allows the cutter to be used with the template mounted on either side of the work and, consequently, it is possible to cut from either direction using only one template and without moving the template to the other side of the workpiece. This is especially useful when cutting curves which run both with and against the grain.

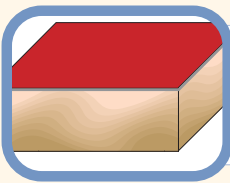
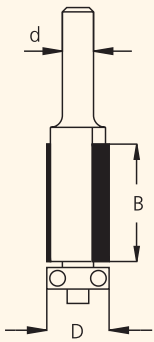
Tool No.	D mm	B mm	Bearings	Shank Dia. mm
FPS3133	12.7	16	B127048, B127063	6
FPS5192	19.0	32	B190063, B190127	12
FPS8192	19.0	51	B190063, B190127	12

For retaining collars see page 64



Reminder:

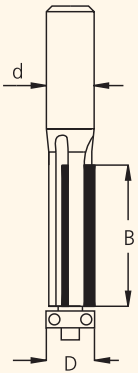
Shank Dia.	6mm	1/4"	8mm	12mm	1/2"
Last Digit	3	4	5	2	8

**F****FLUSH TRIM BITS**

With Ball Bearing Guide.

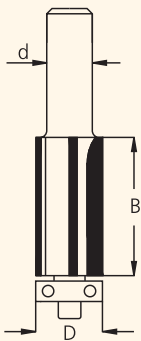
**F2 2 Flutes**

Tool No.	D	B	Bearing	Shank Dia. (d)
	mm	mm		mm
F220633	6.3	13	B063032	6
F230633	6.3	19	B063032	6
F240633	6.3	25	B063032	6
MF22083	8.0	13	B080040	6
F220953	9.5	13	B095048	6
F240953	9.5	25	B095048	6
F221273	12.7	13	B127048	6
F241273	12.7	25	B127048	6
F220955	9.5	13	B095048	8
F240955	9.5	25	B095048	8
F221275	12.7	13	B127048	8
F241275	12.7	25	B127048	8
F221272	12.7	13	B127048	12
F241272	12.7	25	B127048	12
F261272	12.7	38	B127048	12
F281272	12.7	51	B127048	12

**F3 3 Flutes**

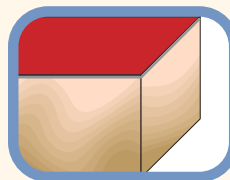
For better surface finish and longer tool life.

Tool No.	D	B	Bearing	Shank Dia. (d)
	mm	mm		mm
F321273	12.7	13	B127048	6
F341273 or 5	12.7	25	B127048	6 or 8
F322203	22.0	13	B220070	6
F321272	12.7	13	B127048	12
F341272	12.7	25	B127048	12
F361272	12.7	38	B127048	12
F381272	12.7	51	B127048	12

**F4 4 Flutes**

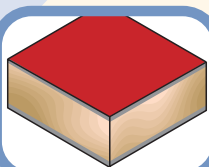
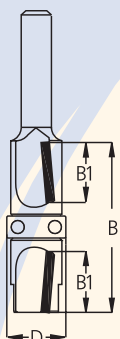
For better surface finish and longer tool life.

Tool No.	D	B	Bearing	Shank Dia. (d)
	mm	mm		mm
F441902	19.0	25	B190063	12
F461902	19.0	38	B190063	12
F481902	19.0	51	B190063	12

**F****Flush Trim Bits**

With double ball bearing for added stability.

Tool No.	D	B	Flutes	Bearing	Shank Dia. (d)
	mm	mm			mm
F240983	9.5	25	2	B095048	6
F361282	12.7	38	3	B127048	12
F261282	12.7	38	2	B127048	12
F281282	12.7	51	2	B127048	12

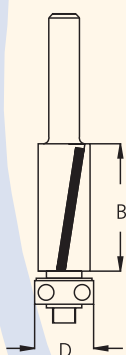


FT

### Double Sided Laminate Trimmer

Up/Down shear cutter assembly. Can be used for laminated boards of thickness 11mm up to 35mm.

Tool No.	D mm	B1 mm	B mm	Bearing	Shank Dia. mm
FT51273 or 5	12.7	13	35	B127063	6 or 8
FT51272	12.7	13	35	B127063	12

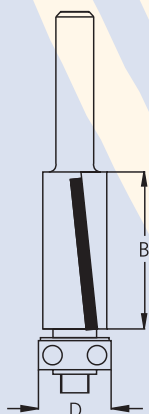
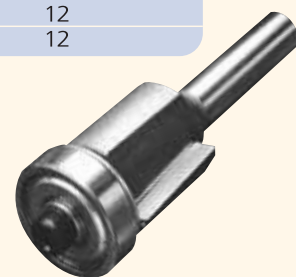


FU

### Up Shear Laminate Trimmers

With positive shear angle.

Tool No.	D mm	B mm	Bearing	Shank Dia. mm
FU41273	12.7	25	B127048	6
FU61902	19.0	38	B190063	12
FU81902	19.0	51	B190063	12

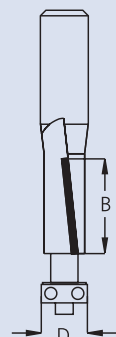
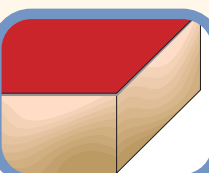


FS

### Laminate Trimmers - Down Shear

Eliminates chipping, cleaner edge when trimming veneered plywood and laminated boards.

Tool No.	D mm	B mm	Bearing	Shank Dia. mm
FS20953	9.5	13	B095048	6
F221603	16.0	16	B160050	6
F221903	19.0	16	B190063	6
FS41273 or 5	12.7	25	B127048	6 or 8
FS41905	19.0	25	B190063	8
FS41272	12.7	25	B127048	12
FS61902	19.0	38	B190063	12
FS81902	19.0	51	B190063	12

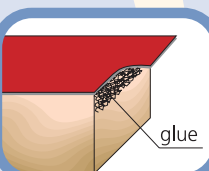


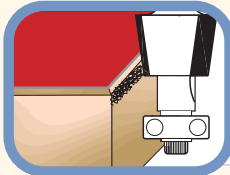
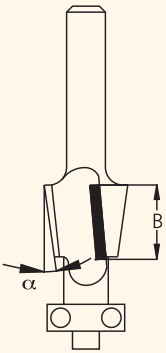
FSG

### Flush Trim Bits - Down Shear

Smooth guiding despite excess of glue.

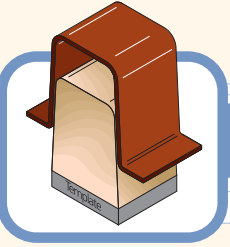
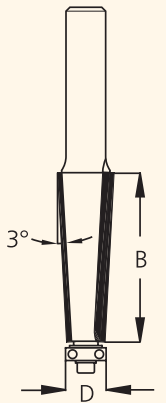
Tool No.	D mm	B mm	Bearing	Shank Dia. mm
FSG1273	12.7	25	B127048	6
FSG1272	12.7	25	B127048	12



**SL****Bevel Trim Bit - Down Shear**

Smooth guiding despite excess of glue.

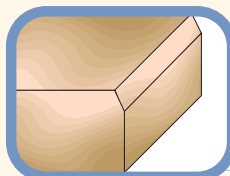
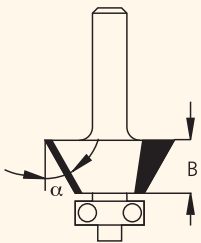
Tool No.	$\alpha$ degrees	B mm	Bearing	Shank Dia. mm
SL20803	8	12	B127048	6

**SL****3° Patternmaker**

For making wood vacuum-forming molds.

It can be used to bevel the leading edge on a door.

Tool No.	B mm	D mm	Bearing	Shank Dia. mm
SL20392	54	12.7	B127048	12

**SL****Bevel Trim Bits****SL2 2 Flutes**

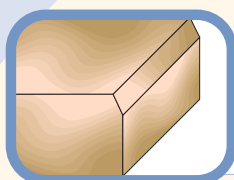
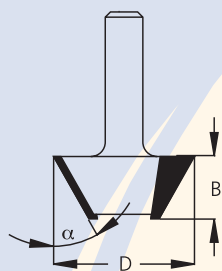
Tool No.	$\alpha$ degrees	B mm	Bearing	Shank Dia. mm
MSL2453	45	6	B080040	6
SL21503	15	6	B127048	6
SL21513	15	16	B127048	6
SL22503	25	6	B127048	6
SL22513	25	16	B095048	6
SL24503	45	6	B127048	6
SL24513	45	11	B127048	6
SL21505	15	6	B127048	8
SL22505	25	6	B127048	8
SL24505	45	6	B127048	8
SL24515	45	11	B127048	8
SL21122	11.25	22	B127048	12
SL22252	22.5	22	B127048	12
SL22512	25	18	B127048	12
SL24512	45	11	B127048	12
SL24532	45	19	B127048	12
SL24542	45	25	B127048	12

**SL3 3 Flutes**

For better surface finish and longer tool life.

SL30703	7	10	B160050	6
SL31503	15	10	B160050	6
SL32203	22	10	B160050	6
SL33003	30	10	B160050	6
SL34503	45	11	B127048	6
SL34502	45	11	B127048	12

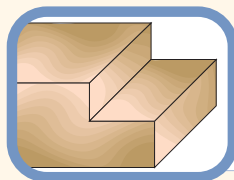
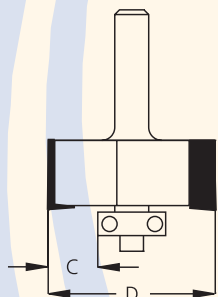




## SZ

### Bevel Trimming Bits

Tool No.	$\alpha$ degrees	D mm	B mm	Flutes	Shank Dia. mm
SZ21503	15	16.0	16	2	6
SZ32213	22	24.0	16	3	6
SZ34503	45	35.0	10	3	6
SZ32212	22	24.0	16	3	12
SZ34502	45	35.0	10	3	12



## E

### Rabbeting Bits

With Ball Bearing Guide.

Tools with 3 and 4 flutes are recommended, when a smooth finish is required and for hard materials.

#### E2 2 Flutes

Tool No.	C mm	D mm	Bearing	Shank Dia. mm
E220503	4.8	22.2	B127048	6
E220953 or 5	9.5	31.8	B127048	6 or 8
E221113 or 5	11.1	31.8	B095048	6 or 8
E220952	9.5	31.8	B127048	12
E221112	11.1	31.8	B095048	12

#### E3 3 Flutes

For better surface finish and longer tool life.

E320323	3.2	19.0	B127048	6
E320503	4.8	22.2	B127048	6

#### E4 4 Flutes

For better surface finish and longer tool life.

E420953	9.5	31.8	B127048	6
E420952	9.5	31.8	B127048	12



## ES

### Rabbeting Set

4 Ball Bearing guides for different rabbets.

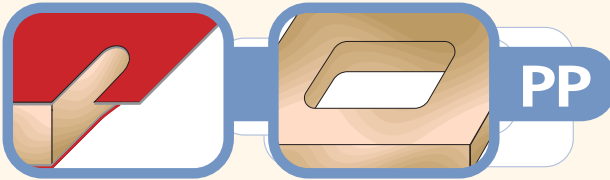
Tool No.	D mm	C mm	Bearing
ES20003	31.8	6.3	B190063
		8.0	B159063
		9.5	B127063
		11.0	B095063

Available with 6 mm, 8 mm, 1/4", 12 mm and 1/2" shank.

### Table for choosing the tool and ball bearing guide, according to the needed rabbet (C)

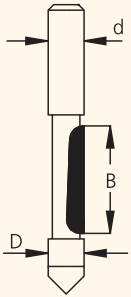
C mm	Tool No.	Bearing
1.6	E320323	B160048
3.2	E320323	B127048
	E220503, E320503	B160048
4.8	E320323	B095048
	E220503, E320503	B127048
6.3	E220503, E320503	B095048
8	E220953, E420953	B160048
9.5	E220953, E420953	B127048
11	E220953, E420953	B095048
	E221113	B095048

Before ordering another tool, remember to check if you can achieve the new desired rabbet by changing the ball bearing.



## PANEL PILOT BITS

Panel Pilot Bits are designed for fast cut out work, using a template. Widely used in the caravan industry.

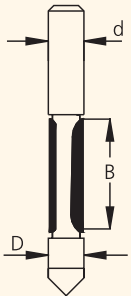


### PP Carbide Tipped - Single Flute

Hardened Boring Point.

Tool No.	D mm	B mm	Shank Dia. (d) mm
PP30633 or 5	6.3	19	6 or 8
PP30803 or 5	8.0	19	6 or 8
PP40956	9.5	25	9.5
PP51272	12.7	30	12
PP81272	12.7	51	12
• PP81602	16.0	51	12

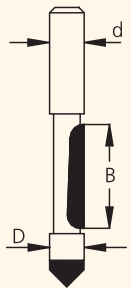
• with staggered flutes



### PP2 Carbide Tipped - Double Flute

Hardened Boring Point.

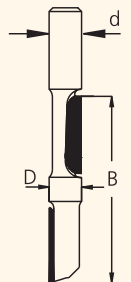
Tool No.	D mm	B mm	Shank Dia. (d) mm
PP20633	6.3	19	6
PP20956	9.5	25	9.5
PP21272	12.7	30	12
PP28122	12.7	51	12



### PPJ Carbide Tipped - Down Shear

Single Flute, Carbide boring point. Designed for plunging into hard materials.

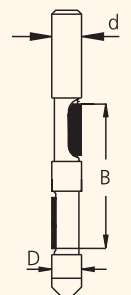
Tool No.	D mm	B mm	Shank Dia. (d) mm
PPJ2063	6.0	19	6
PPJ0956	9.5	25	9.5



### Carbide Tipped, Staggered, with Center Pilot.

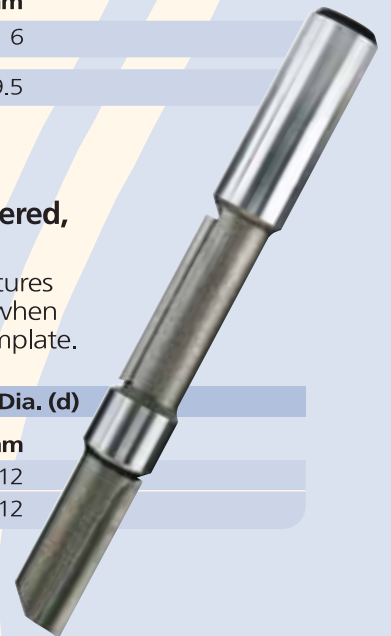
Used for cutting out apertures in ceilings and side walls when the frame can act as a template.

Tool No.	D mm	B mm	Shank Dia. (d) mm
PPS9132	12.7	63	12
PPS9122	12.7	71	12

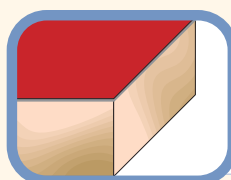
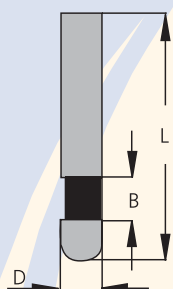
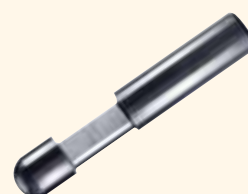


### PPT Carbide Tipped with 2 Pilots and Hardened Boring Point

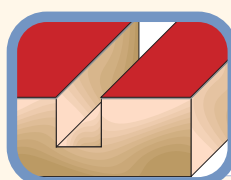
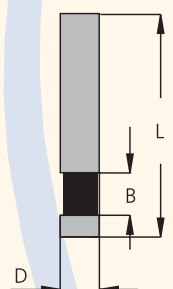
Tool No.	D mm	B mm	Flutes	Shank Dia. (d) mm
PPT8956	9.5	45	1+1	9.5
PPT9122	12.7	63	2+2	12



# SC SOLID CARBIDE BITS


**SCF**
**Flush Trimmer**


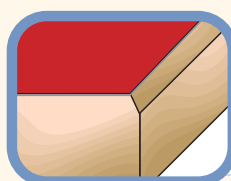
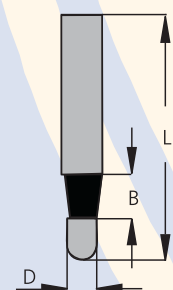
Tool No.	D	B	L	Shank Dia.
	mm	mm	mm	mm
SCF1633	6	6	38	6
SCF2633	6	9.5	38	6


**SCF**
**Flush Trimmer**

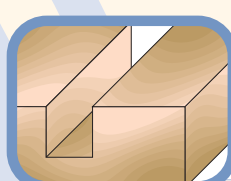
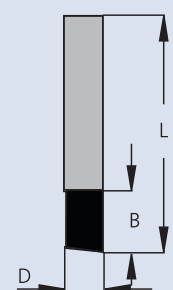
Without ball end for flat dados.



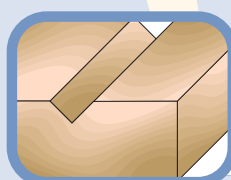
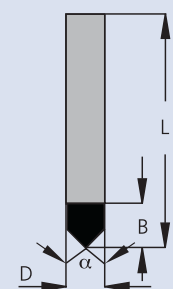
Tool No.	D	B	L	Shank Dia.
	mm	mm	mm	mm
SCF1644	6.35	6	35	6.35


**SCSL**
**Bevel Trimmer 7°**

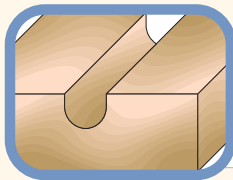
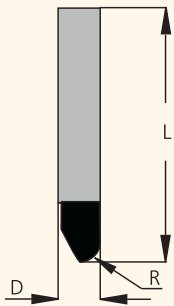
Tool No.	D	B	L	Shank Dia.
	mm	mm	mm	mm
SCSL073	4.8	6	38	6
SCSL074X	4.8	6	63	6.35


**SCP**
**Rip & Slotting Bit**

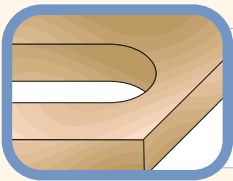
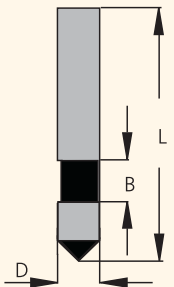
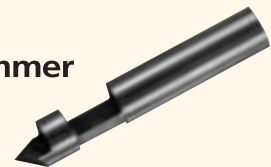
Tool No.	D	B	L	Shank Dia.
	mm	mm	mm	mm
SCP1633	6	9.5	38	6


**SCV**
**"V" Grooving Veining Bit**

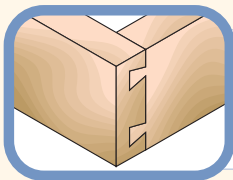
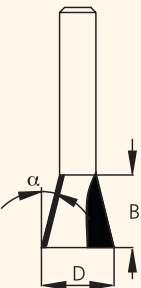
Tool No.	$\alpha$	D	B	L	Shank Dia.
	Degrees	mm	mm	mm	mm
SCV6003	60	6	12	38	6
SCV9003	90	6	9.5	38	6
SCV9034	90	3.2	6	38	6.35

**SCRB****Veining Bits**

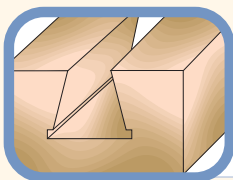
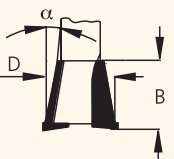
Tool No.	R	D	L	Shank Dia.
	mm	mm	mm	mm
SCRB323	1.6	3.2	38	6
SCRB403	2.0	4.0	38	6
SCRB483	2.4	4.8	38	6
SCRB634	3.2	6.3	38	6.35

**SCPP****Boring & Flush Trimmer**

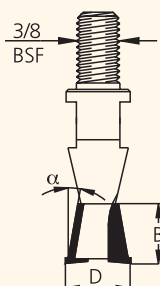
Tool No.	D	B	L	Shank Dia.
	mm	mm	mm	mm
SCPP633	6	6	38	6
SCPP643	6	9.5	38	6

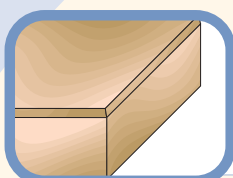
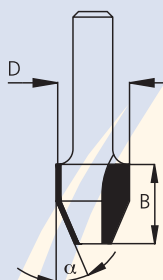
**Z****Dovetail Bits**

Tool No.	$\alpha$	D	B	Shank Dia.
	degrees	mm	mm	mm
Z100903 or 5	9	9.5	9.5	6 or 8
Z131403 or 5	14	12.7	12.5	6 or 8
Z100902	9	9.5	9.5	12
Z071602	7	16.0	22.0	12
Z071902	7	19.0	22.0	12
Z072202	7	22.0	22.0	12
Z131402	14	12.7	12.5	12
Z142542	14	25.4	25.0	12
With relieving teeth				
Z141403 or 5	14	12.7	13.0	6 or 8

**ZB****Dovetail Bit For Brookman Machines**

Tool No.	$\alpha$	D	B
	degrees	mm	mm
ZB13146	10	14.3	12.7

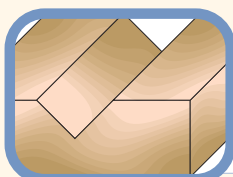
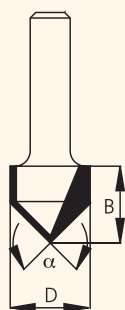




## SF

### Combination Flush & Bevel Trimming Bit

Tool No.	D	B	$\alpha$	Shank Dia.
	mm	mm	degrees	mm
SF12123	12	12.7	23	6

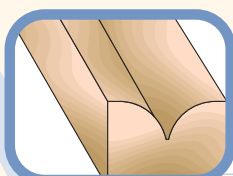
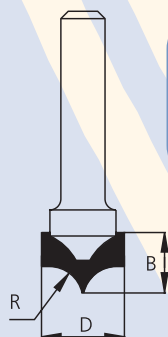


## V

### "V" - Grooving Bits



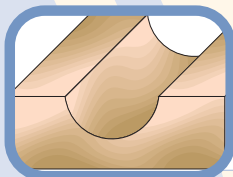
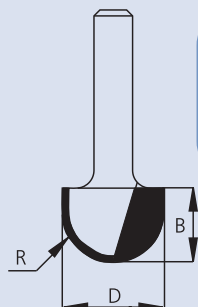
Tool No.	$\alpha$	D	B	Shank Dia.
	degrees	mm	mm	mm
V601273 or 5	60	12.7	16	6 or 8
V900953 or 5	90	9.5	11	6 or 8
V901273 or 5	90	12.7	10	6 or 8
V901603 or 5	90	16.0	13	6 or 8
V901903 or 5	90	19.0	16	6 or 8
V902503 or 5	90	25.4	19	6 or 8
V901272	90	12.7	10	12
V901602	90	16.0	13	12
V901902	90	19.0	16	12
V902502	90	25.4	19	12
V903202	90	31.8	25	12
V903802	90	38.1	32	12



## RU

### Panel and Veining Bits

Tool No.	R	D	B	Shank Dia.
	mm	mm	mm	mm
RU05003	4.8	9.5	7.5	6
RU06003	6.0	13.0	12.5	6
RU07003	7.5	14.5	19.5	6

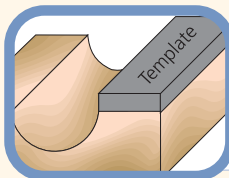
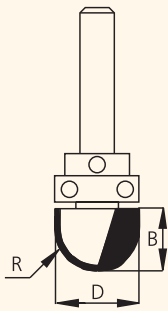


## RB

### Core Box Bits



Tool No.	R	D	B	Shank Dia.
	mm	mm	mm	mm
RB06003 or 5	3.2	6.3	5.5	6 or 8
RB08003 or 5	4.0	8.0	6	6 or 8
RB10003 or 5	4.8	9.5	6	6 or 8
RB12003 or 5	6.3	12.7	9	6 or 8
RB16003 or 5	8.0	16.0	9.5	6 or 8
RB19003 or 5	9.5	19.0	11	6 or 8
RB22003 or 5	11.1	22.2	14	6 or 8
RB25003 or 5	12.7	25.4	16	6 or 8
RB12002	6.3	12.7	9	12
RB16002	8.0	16.0	9.5	12
RB19002	9.5	19.0	11	12
RB22002	11.1	22.2	14	12
RB25002	12.7	25.4	16	12

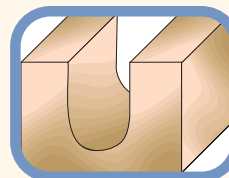
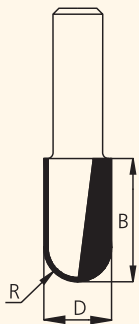
**DB**

### Core Box Template Bits

With Ball Bearing Guide.

Tool No.	D = 2R mm	B mm	Bearing	Shank Dia. mm
DB12003	12.7	9	B127063	6
DB16003	16.0	9	B159063	6
DB19003	19.0	11	B190063	6
DB19002	19.0	11	B190127	12
DB25002	25.4	16	B254127	12

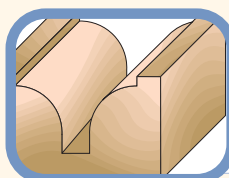
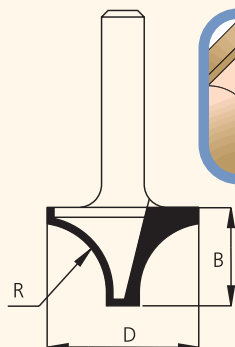
For retaining collar see page 64

**RBL**

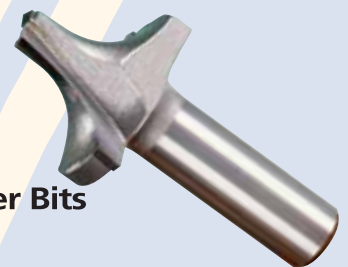
### Core Box Bits - Extra Deep



Tool No.	R mm	D mm	B mm	Shank Dia. mm
RBL0323 or 5	1.6	3.2	9.5	6 or 8
RBL0483 or 5	2.4	4.8	13	6 or 8
RBL0633 or 5	3.2	6.3	13	6 or 8
RBL0803 or 5	4.0	8.0	13	6 or 8
RBL1002	4.8	9.5	25	12
RBL1272	6.3	12.7	32	12
RBL1402	7.1	14.2	32	12
RBL1602	7.9	15.9	32	12
RBL1902	9.5	19.0	32	12
RBL2202	11.1	22.2	32	12
RBL2502	12.7	25.4	32	12

**RV**

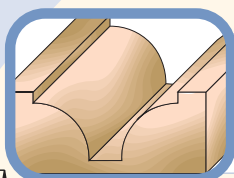
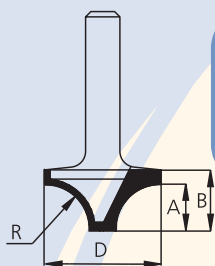
### Plunging Rounding Over Bits



Tool No.	R mm	D mm	B mm	Shank Dia. mm
RV05003 or 5	4.8	16.0	14	6 or 8
RV06003 or 5	6.3	19.0	13	6 or 8
RV08003 or 5	8.0	22.2	14	6 or 8
RV10003 or 5	9.5	25.4	16	6 or 8
RV12005	12.7	35.0	25	8
RV16005	16.0	44.5	32	8
RV05002	4.8	16.0	14	12
RV06002	6.3	19.0	13	12
RV08002	8.0	22.2	14	12
RV10002	9.5	25.4	16	12
RV12002	12.7	35.0	25	12
RV16002	16.0	44.5	32	12
RV19002	19.0	50.8	38	12

Reminder:

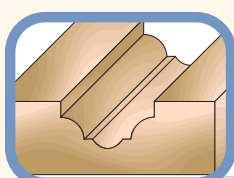
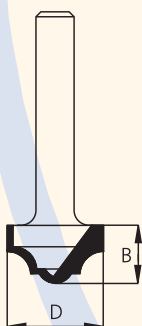
Shank Dia.	6mm	1/4"	8mm	12mm	1/2"
Last Digit	3	4	5	2	8



**RH**

## Plunging Beading & Rounding Over Bits

Tool No.	R=A mm	D mm	B mm	Shank Dia. mm
RH03003	3.2	9.5	7	6
RH05003	4.8	13.5	9.5	6
RH06003	6.3	17.5	13	6
RH08003	8.0	22.2	14	6
RH10003	9.5	25.4	16	6
RH12003	12.7	31.8	17	6
RH06002	6.3	17.5	13	12
RH08002	8.0	22.2	14	12
RH10002	9.5	25.4	16	12
RH12002	12.7	31.8	17	12

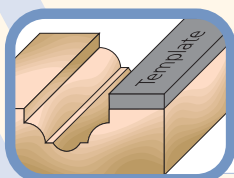
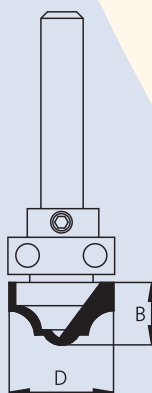


**RC**

## Plunging Classical Bits



Tool No.	D mm	B mm	Shank Dia. mm
MRC0303 or 5	12.7	8	6 or 8
RC03003 or 5	12.7	9	6 or 8
RC05003 or 5	19.0	13	6 or 8
RC06003 or 5	25.4	16	6 or 8
RC05002	19.0	13	12
RC06002	25.4	16	12
RC10002	35.0	15	12

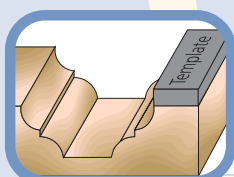
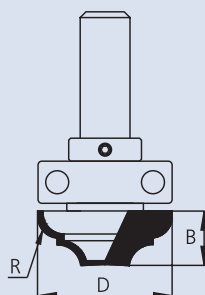


**DC**

## Classical Template Bits With Ball Bearing Guide.

Tool No.	D mm	B mm	Bearing	Shank Dia. mm
DC03003	12.7	9	B127063	6
DC05003	19.0	13	B190063	6
DC06003	25.4	16	B260100	6
DC06002	25.4	16	B254127	12
DC10002	35.0	15	B350150	12

For retaining collar see page 64

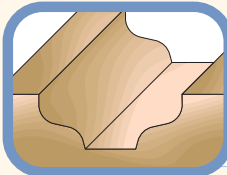
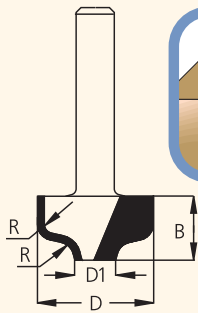


**DM**

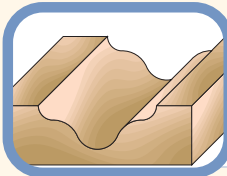
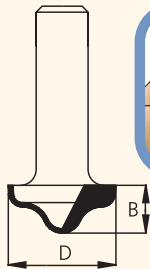
## Panelling Flat Bottom Groover With Ball Bearing Guide.

Tool No.	R mm	D mm	B mm	Bearing	Shank Dia. mm
DM35002	5.5	35	14	B350150	12

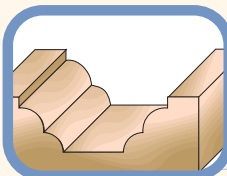
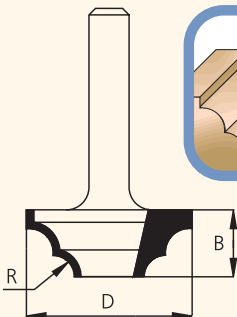
Retaining collar - PF12700

**RA, RRA****Ogee Bits**

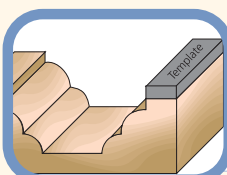
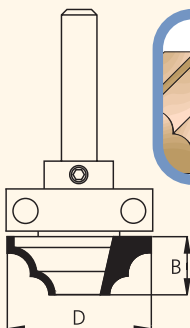
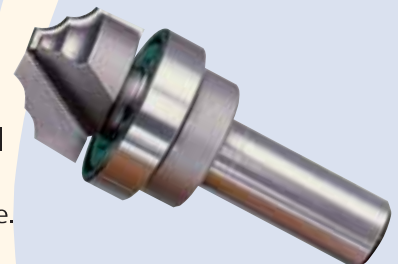
Tool No.	R	D	D1	B	Shank Dia.
	mm	mm	mm	mm	mm
RA15003 or 5	1.6	9.5	3.5	8	6 or 8
RA20003 or 5	2.0	12.7	4.7	8	6 or 8
RA30003 or 5	3.2	19.0	6.4	13	6 or 8
RRA2503 or 5	3.2	25.4	10	9.5	6 or 8
RA30002	3.2	19.0	6.4	13	12
RRA2502	3.2	25.4	10	9.5	12
RRA3502	3.2	35.0	12.7	9.5	12

**RRC****Plunge Ogee Bits**

Tool No.	D	B	Shank Dia.
	mm	mm	mm
MRR1203 or 5	12.7	8	6 or 8
RRC2703 or 5	27.0	12	6 or 8
RRC2702	27.0	12	12

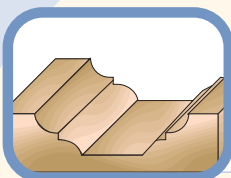
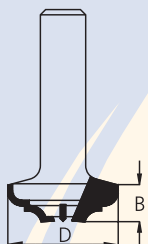
**RR****Plunging Classical Bits**

Tool No.	R	D	B	Shank Dia.
	mm	mm	mm	mm
RR42543	4.0	25.4	16	6
RR42542	4.0	25.4	16	12

**DL****Plunging Classical Template Bits**  
With Ball Bearing Guide.

Tool No.	D	B	Bearing	Shank Dia.
	mm	mm		mm
DL42543	25.4	16	B260100	6
DL42542	25.4	16	B254127	12

For retaining collar see page 64

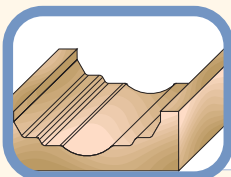
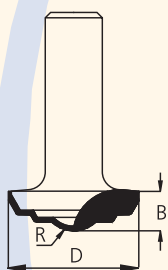


## RR

### Classical Bits

With Carbide Plunging Tip.

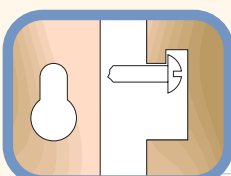
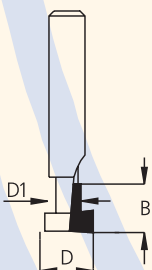
Tool No.	D	B	Shank Dia.
	mm	mm	mm
RR32002	31.8	11	12



## RRI

### Classical Bits

Tool No.	D	R	B	Shank Dia.
	mm	mm	mm	mm
RRI0502	36.5	9	9.5	12
RRI0501	36.5	9	9.5	16

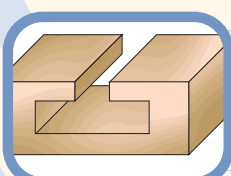
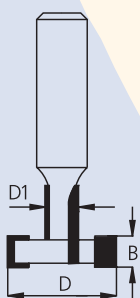


## MM

### Key Hole Bits - Single Flute

For "Key Hole" slots in picture frames.

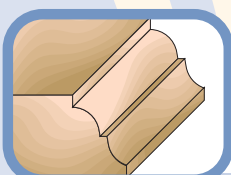
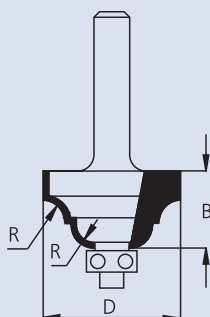
Tool No.	D	D1	B	Shank Dia.
	mm	mm	mm	mm
MM10953 or 5	9.5	4.8	9.5	6 or 8
MM12953 or 5	12.7	8.0	9.5	6 or 8



## MM

### T-Slot Bits

Tool No.	D	D1	B	Shank Dia.
	mm	mm	mm	mm
MM28202	28.0	9.5	8.0	12
MM29192	29.0	12.7	10.0	12
MM29202	29.0	9.5	9.5	12
MM35222	35.0	12.7	9.5	12



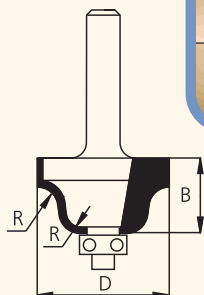
## RS

### Classical Bits

With Ball Bearing Guide.

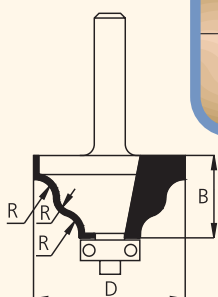


Tool No.	R	D	B	Bearing	Shank Dia.
	mm	mm	mm		mm
MRS0303	3.0	20.0	10	B080040	6
RS04003 or 5	4.0	25.4	14	B095048	6 or 8
RS06003 or 5	6.3	35.0	19	B095048	6 or 8
RS04002	4.0	25.4	14	B095048	12
RS06002	6.3	35.0	19	B095048	12

**RD****Roman Ogee Bits**

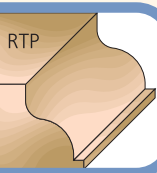
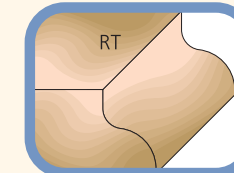
With Ball Bearing Guide.

Tool No.	R	D	B	Bearing	Shank Dia.
	mm	mm	mm		mm
MRD0303	3.0	20.0	10	B080040	6
RD04003 or 5	4.0	25.4	14.5	B095048	6 or 8
RD06003 or 5	6.3	35.0	19	B095048	6 or 8
RD04002	4.0	25.4	14.5	B095048	12
RD06002	6.3	35.0	19	B095048	12

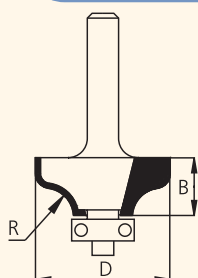
**RJ****Wavy Edge Bits**

With Ball Bearing Guide.

Tool No.	R	D	B	Bearing	Shank Dia.
	mm	mm	mm		mm
MRJ0303	2.5	20.0	10	B080040	6
RJ04003 or 5	4.0	31.8	17.5	B127048	6 or 8
RJ04002	4.0	31.8	17.5	B127048	12

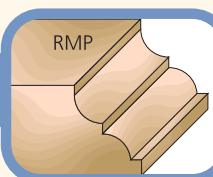
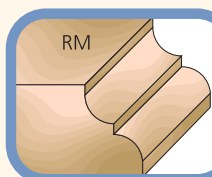
**RT/RTP****Ogee Bits**

With Ball Bearing Guide.

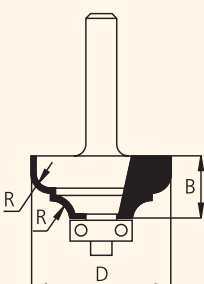


Tool No.	R	D	B	Bearing	Shank Dia.
	mm	mm	mm		mm
RT04003 or 5	4.0	28.6	13	B127048	6 or 8
RT06003 or 5	6.3	35.0	17	B127048	6 or 8
RT04002	4.0	28.6	13	B127048	12
RT06002	6.3	35.0	17	B127048	12

For type RTP use Ball Bearing Guide - B095048  
 Ordering RTP type - change the tool No. prefix from RT to RTP

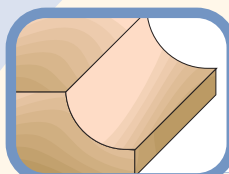
**RM/RMP****Classical Bits**

With Ball Bearing Guide.



Tool No.	R	D	B	Bearing	Shank Dia.
	mm	mm	mm		mm
MRM0303	3.0	20.0	10	B080040	6
RM04003 or 5	4.0	28.6	13	B127048	6 or 8
RM06003 or 5	6.3	35.0	17	B127048	6 or 8
RM04002	4.0	28.6	13	B127048	12
RM06002	6.3	35.0	17	B127048	12

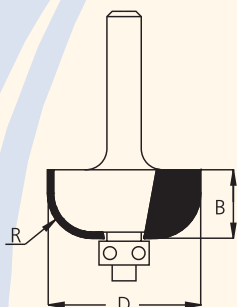
For type RMP use Ball Bearing Guide - B095048  
 Ordering RMP type - change the tool No. prefix from RM to RMP



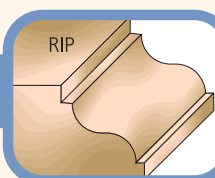
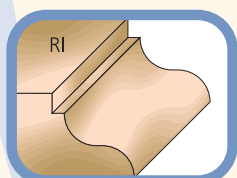
**RZ**

## Cove Bits

With Ball Bearing Guide.



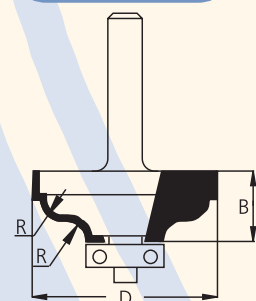
Tool No.	R mm	D mm	B mm	Bearing	Shank Dia. mm
MRZ0303	3.0	14.0	10	B080040	6
M07RZ63	6.0	20.0	10	B080040	6
RZ05003 or 5	4.8	19.0	11	B095048	6 or 8
RZ06003 or 5	6.3	22.2	12	B095048	6 or 8
RZ08003 or 5	8.0	25.4	12	B095048	6 or 8
RZ10003 or 5	9.5	28.6	14	B095048	6 or 8
RZ12003 or 5	12.7	35.0	16	B095048	6 or 8
RZ06002	6.3	22.2	12	B095048	12
RZ08002	8.0	25.4	12	B095048	12
RZ10002	9.5	28.6	14	B095048	12
RZ12002	12.7	35.0	16	B095048	12



**RI/RIP**

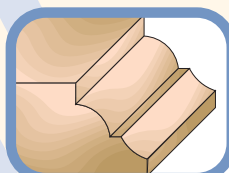
## Ogee Fillet Bits

With Ball Bearing Guide.



Tool No.	R mm	D mm	B mm	Bearing	Shank Dia. mm
MRI0303	2.8	22.0	8	B080040	6
RI04003 or 5	4.0	35.0	13.5	B127048	6 or 8
RI04002	4.0	35.0	13.5	B127048	12
RI06002	6.3	41.3	19	B127048	12
RI10002	9.5	57.2	25	B127048	12

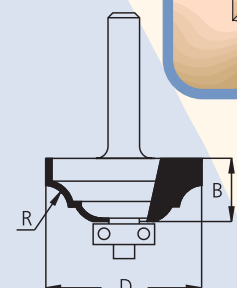
For type RIP use Ball Bearing Guide - B095048  
Ordering RIP type - change the tool No. prefix from RI to RIP



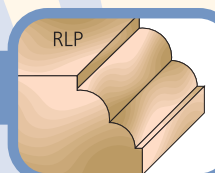
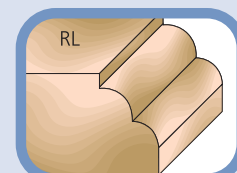
**RN**

## Classical Bits

With Ball Bearing Guide.



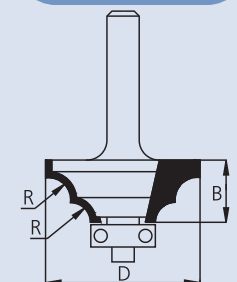
Tool No.	R mm	D mm	B mm	Bearing	Shank Dia. mm
RN03003 or 5	5.0	31.8	13	B127048	6 or 8
RN04003 or 5	6.5	38.1	16	B127048	6 or 8
RN03002	5.0	31.8	13	B127048	12
RN04002	6.5	38.1	16	B127048	12



**RL/RLP**

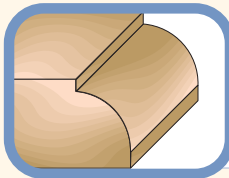
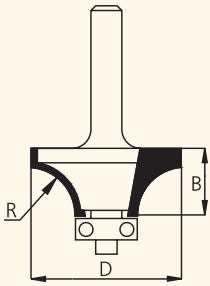
## Classical Moulding Bits

With Ball Bearing Guide.



Tool No.	R mm	D mm	B mm	Bearing	Shank Dia. mm
RL04003 or 5	4.0	28.6	13	B127048	6 or 8
RL06003 or 5	5.5	35.0	17	B127048	6 or 8
RL04002	4.0	28.6	13	B127048	12
RL06002	5.5	35.0	17	B127048	12

For type RLP use Ball Bearing Guide - B095048  
Ordering RLP type - change the tool No. prefix from RL to RLP

**RW****Rounding Over Bits**

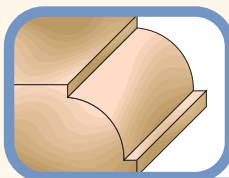
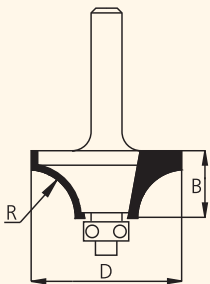
With Ball Bearing Guide.

Tool No.	R	D	B	Bearing	Shank Dia.
	mm	mm	mm		mm
MRW0303	3.0	14.2	11	B080040	6
M12RW63	6.0	21.0	10	B080040	6
RW01603 or 5	1.6	15.9	8	B127048	6 or 8
RW02003 or 5	2.0	16.7	8	B127048	6 or 8
RW03003 or 5	3.2	19.0	9.5	B127048	6 or 8
RW04003 or 5	4.0	20.6	9.5	B127048	6 or 8
RW05003 or 5	4.8	22.2	11	B127048	6 or 8
RW06003 or 5	6.3	25.4	11	B127048	6 or 8
RW08003 or 5	8.0	28.6	13.5	B127048	6 or 8
RW10003 or 5	9.5	31.8	16	B127048	6 or 8
RW12003 or 5	12.7	38.1	18	B127048	6 or 8
RW15005	15.0	42.5	22	B127048	8
RW03002	3.2	19.0	9.5	B127048	12
RW04002	4.0	20.6	9.5	B127048	12
RW05002	4.8	22.2	11	B127048	12
RW06002	6.3	25.4	11	B127048	12
RW08002	8.0	28.6	13.5	B127048	12
RW10002	9.5	31.8	16	B127048	12
RW12002	12.7	38.1	18	B127048	12
RW16002	16.0	44.5	22	B127048	12
RW19002	19.0	50.8	25	B127048	12
RW22002	22.2	57.1	30	B127048	12
RW25002	25.4	63.5	32	B127048	12
RW32002	31.8	76.3	38	B127048	12
RW38002	38.1	88.9	44	B127048	12



Max speed 16000 RPM

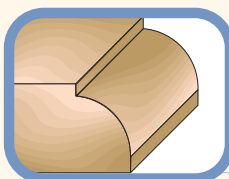
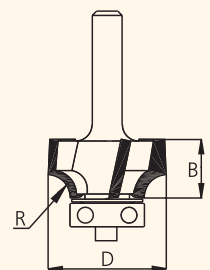
Max speed 18000 RPM

**RP****Beading Bits**

With Ball Bearing Guide.

All "RW" Rounding Over bits can be converted to Beading Bits by substituting the ball bearing guide for bearing No. B095048.

Ordering Beading Bits - change the tool No. prefix from "RW" to "RP".

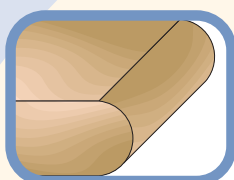
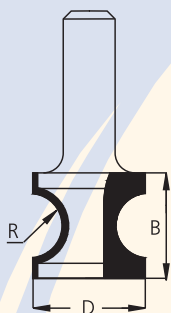
**RWG****4 Flutes Rounding Over Bits**

With Ball Bearing Guide.

For better surface finish and longer tool life.

Tool No.	R	D	B	Bearing	Shank Dia.
	mm	mm	mm		mm
RWG0503	4.8	25.4	11	B160048	6
RWG0603	6.3	28.6	11	B160048	6
RWG1003	9.5	35.0	16	B160048	6
RWG1203	12.7	41.3	18	B160048	6
RWG0502	4.8	25.4	11	B160048	12
RWG0602	6.3	28.6	11	B160048	12
RWG1002	9.5	35.0	16	B160048	12
RWG1202	12.7	41.3	18	B160048	12



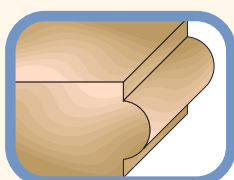
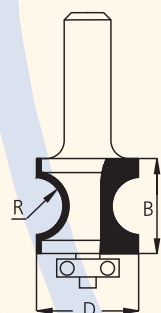


RF

## Bull Nose Bits



Tool No.	R mm	D mm	B mm	Shank Dia. mm
RF02003 or 5	2.0	13.5	13	6 or 8
RF02803 or 5	2.8	15.1	13	6 or 8
RF03603 or 5	3.6	16.7	19	6 or 8
RF05203 or 5	5.2	22.2	19	6 or 8
RF08503 or 5	8.0	27.0	25	6
RF03602	3.6	16.7	19	12
RF05202	5.2	22.2	19	12
RF06802	6.8	26.0	25	12
RF09502	9.5	33.3	35	12
RF12702	12.7	43.0	40	12
RF15902	15.9	50.8	51	12

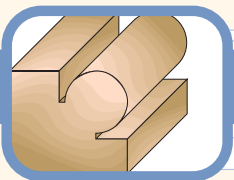
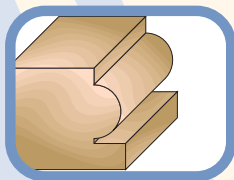


RF

## Bull Nose Bits

With Ball Bearing Guide.

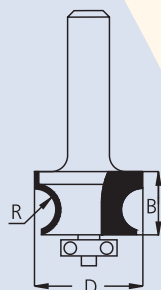
Tool No.	R mm	D mm	B mm	Bearing	Shank Dia. mm
RF06812	6.8	26.2	26	B127048	12
RF09512	9.5	35.0	34	B160050	12
RF12712	12.7	44.5	40	B190063	12
RF15912	15.9	50.8	50	B190063	12



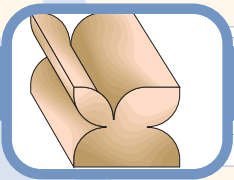
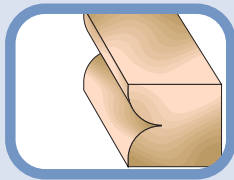
RFB

## Edge Beading Bits

With Ball Bearing Guide.



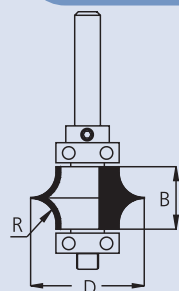
Tool No.	R mm	D mm	B mm	Bearing	Shank Dia. mm
RFB0323 or 5	3.2	22.2	14	B127048	6 or 8
RFB0483 or 5	4.8	28.2	16	B160050	6 or 8
RFB0633 or 5	6.3	31.8	19	B160050	6 or 8
RFB0322	3.2	22.2	14	B127048	12
RFB0482	4.8	28.2	16	B160050	12
RFB0632	6.3	31.8	19	B160050	12
RFB0952	9.5	38.1	25	B160050	12



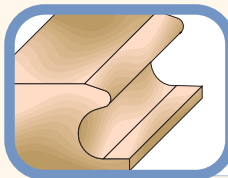
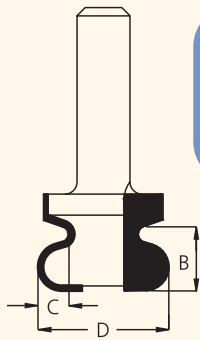
DU

## Sunk Bead Bits

With Ball Bearing Guide.



Tool No.	R mm	D mm	B mm	Bearing	Shank Dia. mm
DU05003	4.8	25.4	12.7	B159063x2	6
DU06003	6.3	28.6	15.9	B159063x2	6
DU10003	9.5	34.5	22.2	B159063x2	6



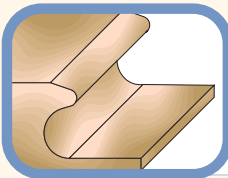
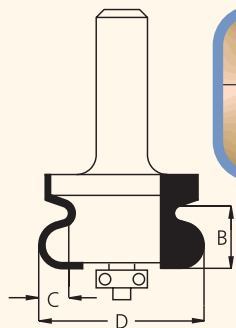
RO

## Finger Grip Bits



Tool No.	C	D	B	Shank Dia.
	mm	mm	mm	mm
• RO20002	3.5	20.0	12	12
• RO24002	5.0	24.0	14	12
• RO70002	7.5	31.8	15	12

- With carbide plunging point



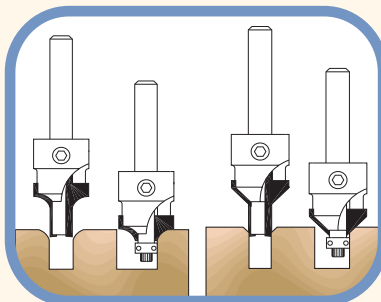
RO

## Finger Grip Bits

With Ball Bearing Guide.



Tool No.	C	D	B	Bearing	Shank Dia.
	mm	mm	mm		mm
RO70012	7.5	44.0	15	B127063	12



AD

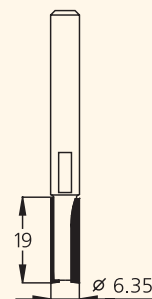
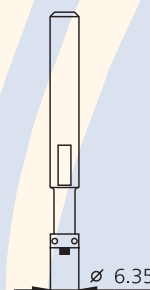
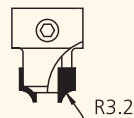
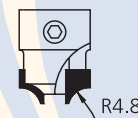
Dado Edge Forming Set  
Complete 5-piece set

Easy chamfering and corner rounding of narrow dados. Straight grooving and edge forming in one operation.

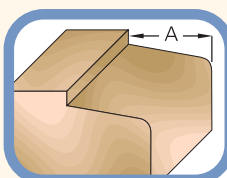
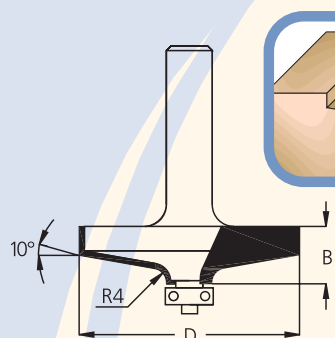
Set No. ADS0100

6mm or 1/4" shank

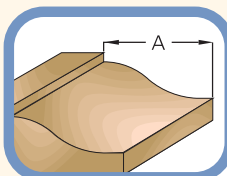
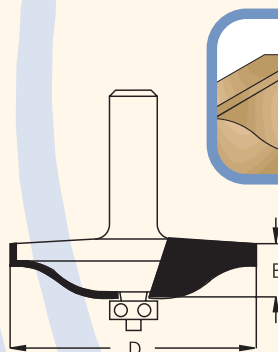
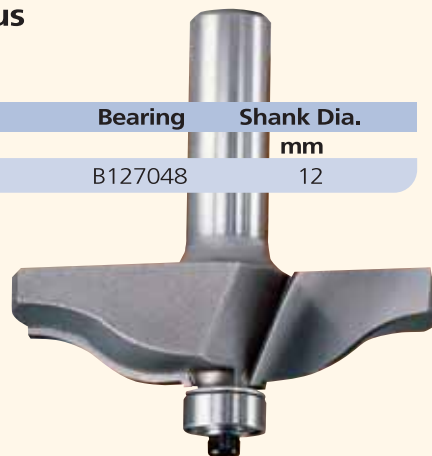
## Components:

ADP2363  
Straight bitADN0633  
ArborADSL450  
Bevel cutterADRW030  
Rounding overADRW050  
Rounding over

# RK RAISED PANEL BITS

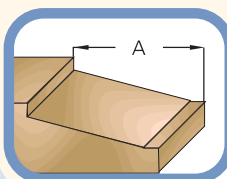
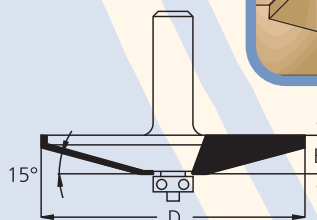

**RK04**
**Chamfering Bit  
With Radius**

Tool No.	A mm	D mm	B mm	Bearing	Shank Dia. mm
RK04102	24	61	14	B127048	12


**RK**
**Ogee**

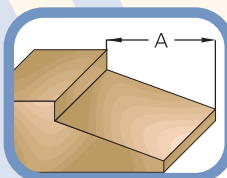
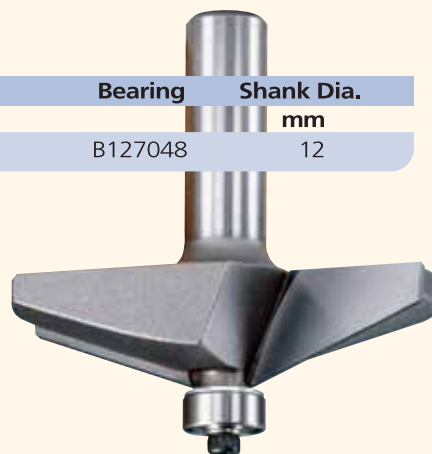
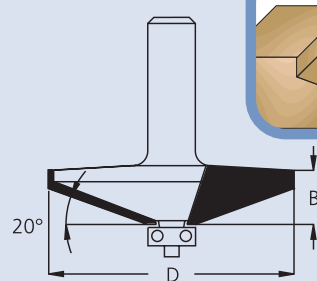
Tool No.	A mm	D mm	B mm	Bearing	Shank Dia. mm
RK17002	27.0	66.7	16	B127048	12
RK18002	36.5	85.7	16	B127048	12

⚡ Max speed 16000 RPM

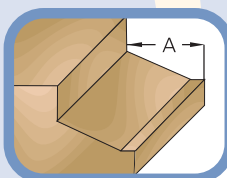
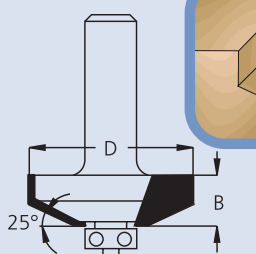

**RK15**
**Traditional**


Tool No.	A mm	D mm	B mm	Bearing	Shank Dia. mm
RK15002	36.5	85.7	12.7	B127048	12

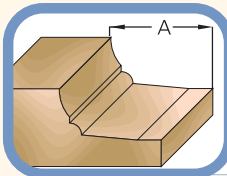
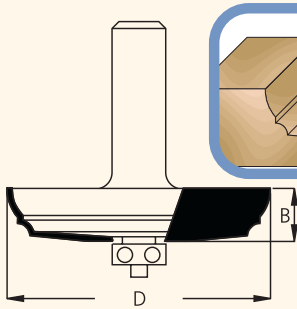
⚡ Max. Speed 16000 RPM


**RK20**
**Traditional**


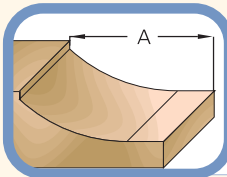
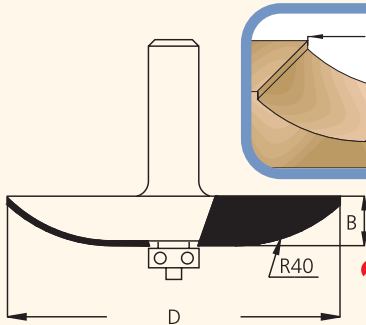
Tool No.	A mm	D mm	B mm	Bearing	Shank Dia. mm
RK20002	27	66.7	16	B127048	12


**RK25**
**Traditional**


Tool No.	A mm	D mm	B mm	Bearing	Shank Dia. mm
RK25002	14.3	41.3	12.7	B127048	12

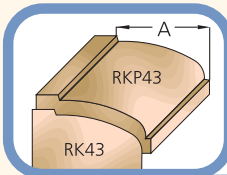
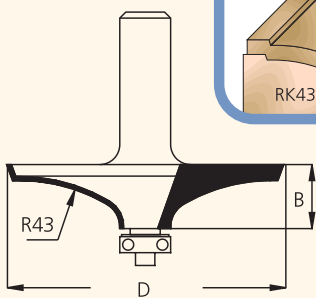
**RK10****Classical**

Tool No.	A mm	D mm	B mm	Bearing	Shank Dia. mm
RK10002	25.4	63.5	12.7	B127048	12

**RK40****Cove**

Tool No.	A mm	D mm	B mm	Bearing	Shank Dia. mm
RK40002	36.5	85.8	12.7	B127048	12

Max. Speed 16000 RPM

**RK43****Thumbnail bits**

Tool No.	A mm	D mm	B mm	Bearing	Shank Dia. mm
RK43002	28.2	69.2	16	B127048	12

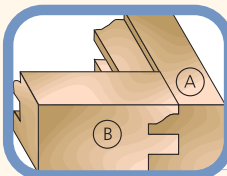
For type RKP use ball bearing guide - B095048  
Ordering RKP type - change the tool No. prefix from RK to RKP

Max. Speed 18000 RPM

## RGD Tongue & Groove Easy Set For Profile Scribed Doors

Assembly with 2 ball bearing guides and 3 grooving cutters.  
**No reassembly required.**

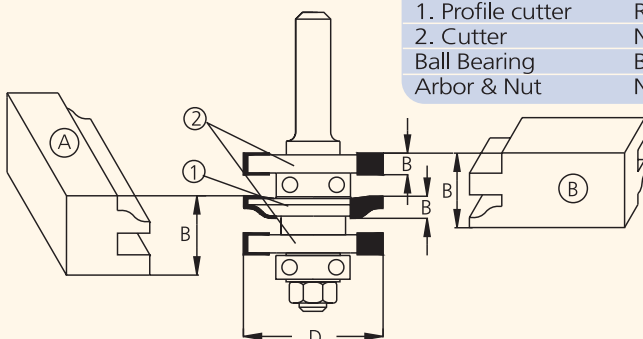
Both parts of the joint are cut by only changing the cutter height.

**RGD2****Ogee**

Description	Tool No.	D mm	B mm	Shank Dia. mm
Assembly	RGD2002 or 5	41.0	22.0	12 or 8

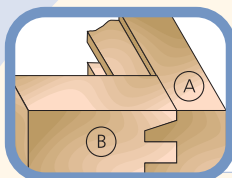
### Components:

1. Profile cutter	RGD2000	41.0	6.3	
2. Cutter	NG41060	41.0	6.3	
Ball Bearing	B220080			
Arbor & Nut	NHRG822 or 5			12 or 8



Reminder:

Shank Dia.	6mm	1/4"	8mm	12mm	1/2"
Last Digit	3	4	5	2	8



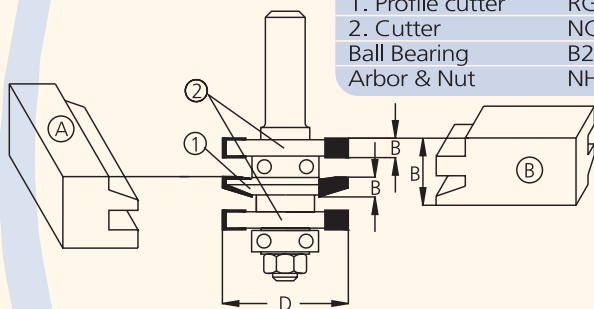
## RGD5

Traditional

Description	Tool No.	D	B	Shank Dia.
		mm	mm	mm
Assembly	RGD5002 or 5	41.0	22.0	12 or 8

### Components:

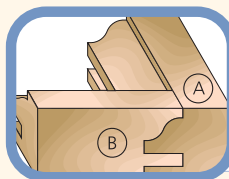
1. Profile cutter	RGD5000	41.0	6.3	
2. Cutter	NG41060	41.0	6.3	
Ball Bearing	B220080			
Arbor & Nut	NHRG822 or 5			12 or 8



## RG TONGUE & GROOVE CLASSIC SETS

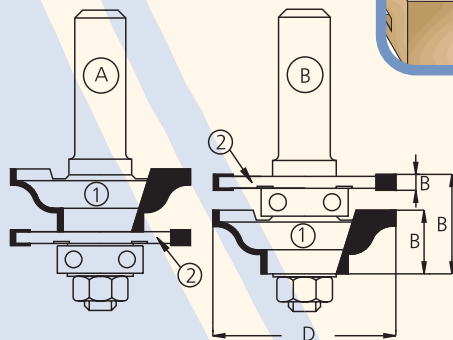
Assembly with Ball Bearing Guide.

By reversing the assembly, you can use a single tool for both cuts A & B. Shims should be used for perfect alignment before and after sharpening.



## RG1

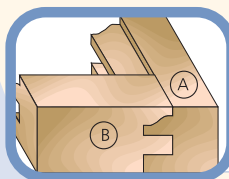
Ogee



Description	Tool No.	D	B	Shank Dia.
		mm	mm	mm
Assembly	RG10002 or 5	46.0	22.0	12 or 8

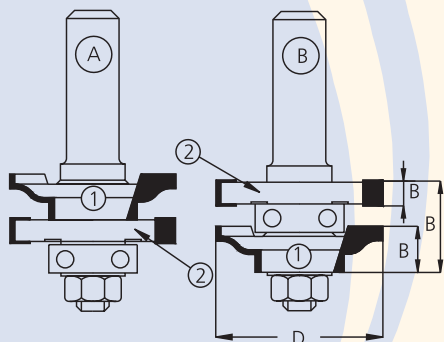
### Components:

1. Profile cutter	RG10000	46.0	15.0	
2. Cutter	NG46040	46.0	4.0	
Ball Bearing	B220080			
Arbor & Nut	NG00002 or 5			12 or 8



## RG2

Ogee



Description	Tool No.	D	B	Shank Dia.
		mm	mm	mm
Assembly	RG21003 or 5	31.8	16.0	6 or 8

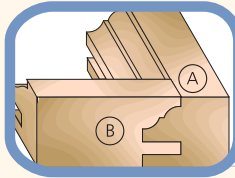
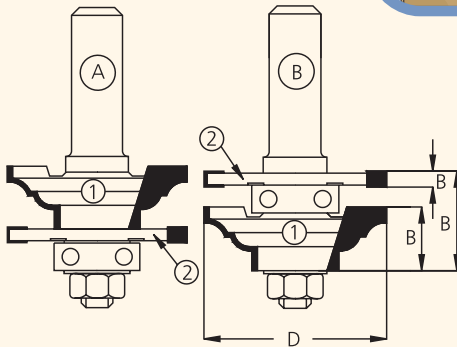
### Components:

1. Profile cutter	RG21000	31.8	6.4	
2. Cutter	NG32060	31.8	6.4	
Ball Bearing	B127063			
Arbor & Nut	NHRG633 or 5			6 or 8

Assembly	RG20002 or 5	41.0	22.0	12 or 8
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### Components:

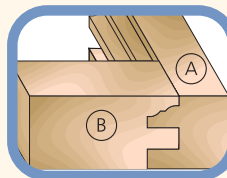
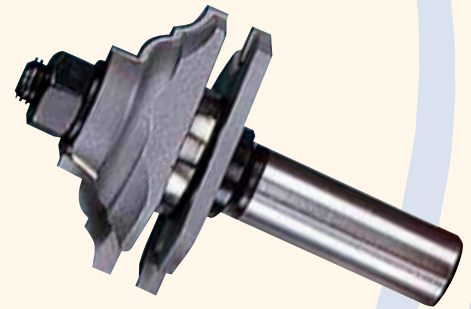
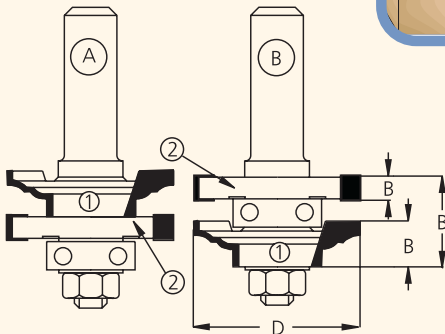
1. Profile cutter	RG20000	41.0	11.0	
2. Cutter	NG41060	41.0	6.3	
Ball Bearing	B220080			
Arbor & Nut	NG00002 or 5			12 or 8

**RG3****Ogee**

Description	Tool No.	D	B	Shank Dia.
		mm	mm	mm
Assembly	RG30002 or 5	46.0	22.0	12 or 8

**Components:**

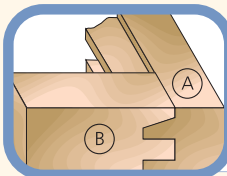
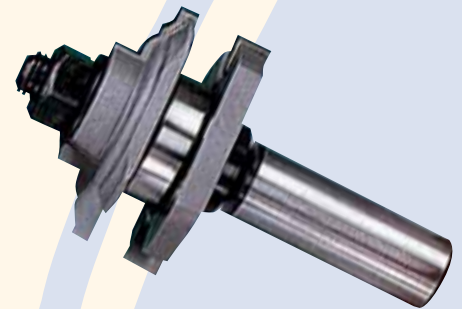
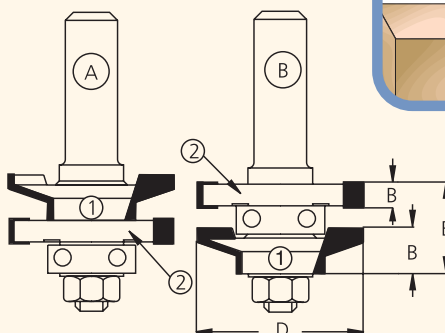
1. Profile cutter	RG30000	46.0	15.0	
2. Cutter	NG46040	46.0	4.0	
Ball Bearing	B220080			
Arbor & Nut	NG00002 or 5			12 or 8

**RG4****Classical**

Description	Tool No.	D	B	Shank Dia.
		mm	mm	mm
Assembly	RG40002 or 5	41.0	22.0	12 or 8

**Components:**

1. Profile cutter	RG40000	41.0	11.0	
2. Cutter	NG41060	41.0	6.3	
Ball Bearing	B220080			
Arbor & Nut	NG00002 or 5			12 or 8

**RG5****Traditional**

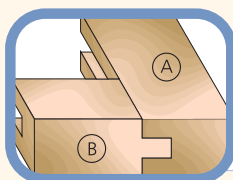
Reminder:

Shank Dia.	6mm	1/4"	8mm	12mm	1/2"
Last Digit	3	4	5	2	8

Description	Tool No.	D	B	Shank Dia.
		mm	mm	mm
Assembly	RG50002 or 5	41.0	22.0	12 or 8

**Components:**

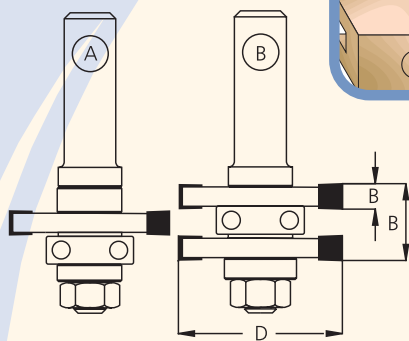
1. Profile Cutter	RG50000	41.0	11.0	
2. Cutter	NG41060	41.0	6.3	
Ball Bearing	B220080			
Arbor & Nut	NG00002 or 5			12 or 8



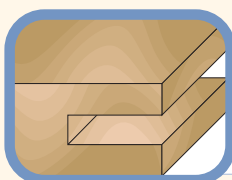
## RG6

### Tongue & Groove Cutter Set

By changing the components of the assembly, you can use a single tool for both cuts A&B.



Description	Tool No.	D	B	Shank Dia.
		mm	mm	mm
Assembly	RG60002 or 5	41.0	19.0	12 or 8
<b>Components</b>				
Cutter (x2)	NG41060	41.0	6.3	
Ball Bearing	B220080			
Arbor & Nut	NHRG812 or 5			12 or 8

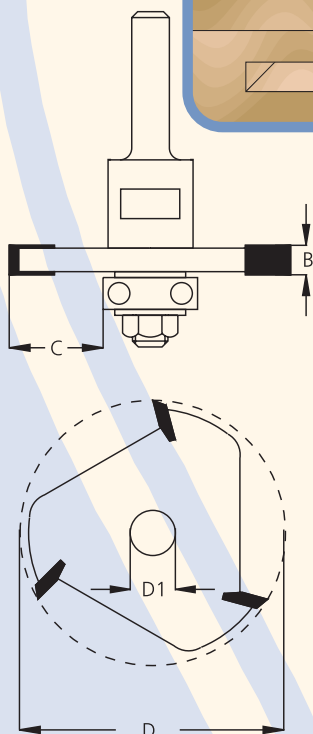
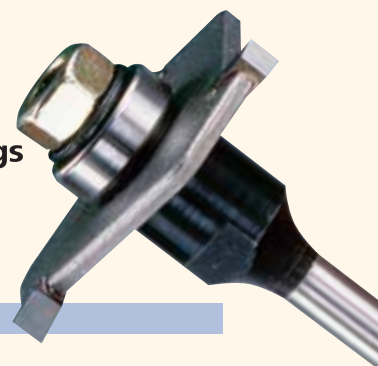


## N3

### Slotting Cutters 3 Wings

D = 47.6mm  
D1 = 7.94mm  
C = 15.9mm

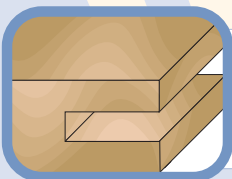
6mm, 1/4, 8mm, 12mm or 1/2" shank



Assembly Tool No.	Cutter Tool No.	B
		mm
N301583 or 5 or 2	N301500	1.5
N301683 or 5 or 2	N301600	1.6
N302083 or 5 or 2	N302000	2.0
N302483 or 5 or 2	N302400	2.4
N302583 or 5 or 2	N302500	2.5
N303083 or 5 or 2	N303000	3.0
N303283 or 5 or 2	N303200	3.2
N304083 or 5 or 2	N304000	4.0
N304883 or 5 or 2	N304800	4.8
N305083 or 5 or 2	N305000	5.0
N306083 or 5 or 2	N306000	6.0
N306383 or 5 or 2	N306300	6.3

#### Components

Description	Tool No.
Arbor & Nut	N000003, N000005, N000002
Ball Bearing	B159063
Washer (x2)	BW06300



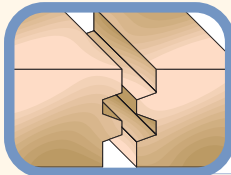
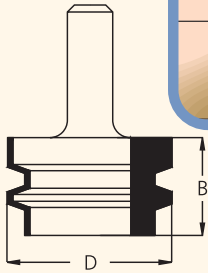
## N2

### Slotting Cutters 2 Wings

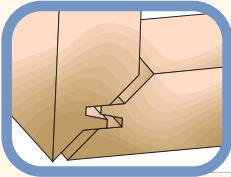
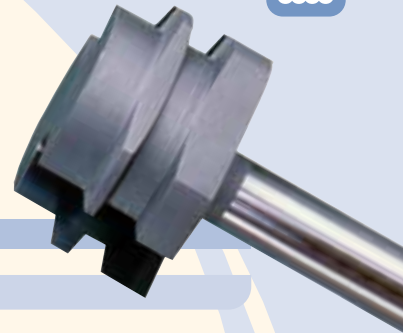
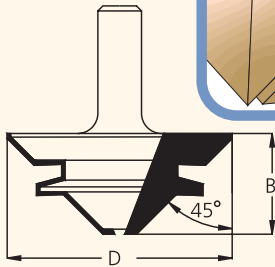
D = 47.6mm  
D1 = 7.94mm

All of the sizes listed for 3 wing slotting cutters, can also be ordered with 2 wings. For ordering, just change the prefix of the tool No. from N3 to N2.



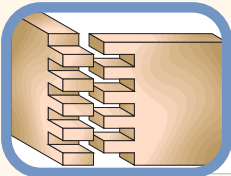
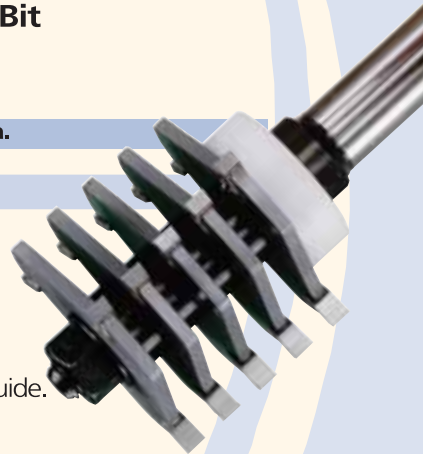
**FJ2****Glue Joint Bit**

Tool No.	D	B	Shank Dia.
	mm	mm	mm
FJ20002	47.0	28	12

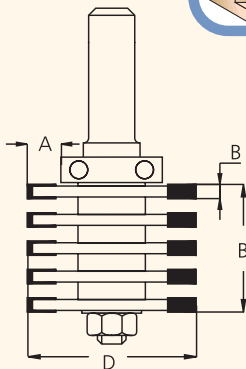
**FJ4****45° Lock Mitre Joint Bit**

Tool No.	D	B	Shank Dia.
	mm	mm	mm
FJ40002	67.0	30	12

⚙️ Max. speed 18000 RPM

**FJ5****Combi Joint Set**

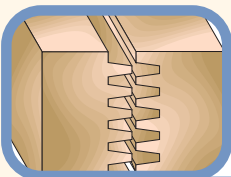
Assembly with Ball Bearing Guide.



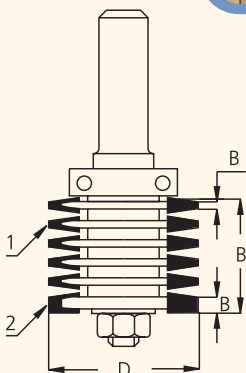
Description	Tool No.	D	B	Shank Dia.
		mm	mm	mm
Assembly	FJ50002	47.6	36.0	12

**Components:**

Cutter (x5)	N304000	47.6	4.0	
Arbor & Nut	NFJ5002			12
Delrin Set	BDEL500	For A = 9.8mm		
Delrin Set	BDEL510	For A = 9.3mm		
Delrin Set	BDEL520	For A = 6.8mm		
Washer (x2)	BW16080			
Spacer 5.3mm (x4)	BS53000			
Shims 0.5mm (x1)	BS05000			
Shims 0.1mm (x4)	BS01000			
Shims 0.05mm (x8)	BS00500			

**FJ6****Finger Joint Set**

Assembly with Ball Bearing Guide.

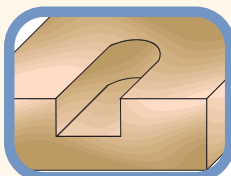
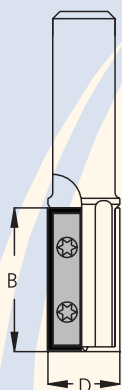


Description	Tool No.	D	B	Shank Dia.
		mm	mm	mm
Assembly	FJ60002	39.5	33.0	12

**Components:**

1. Cutter (x5)	NJ39020	39.5	1.9	
2. Cutter (x1)	NJ39050	39.1	5.5	
Arbor & Nut	NFJ6002			12
Washer (x2)	BW16080			
Spacer 3.4mm (x6)	BS34000			
Shims 0.5mm (x1)	BS05000			
Shims 0.1mm (x10)	BS01000			
Shims 0.05mm (x5)	BS00500			

## REPLACEABLE TUNGSTEN CARBIDE BITS



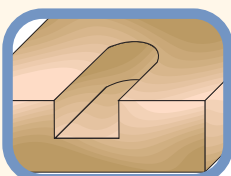
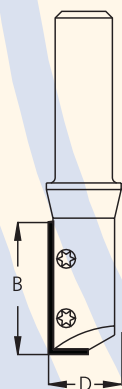
**PM2**

**Straight Bits**  
No plunge.



Tool No.	D mm	B mm	Blade No.	Shank Dia. mm
PM25142	14.0	30	CM03090	12
PM25152	15.0	30	CM03090	12
PM25162	16.0	30	CM03090	12
PM28162	16.0	50	CM03090	12
PM25182	18.0	30	CM03012	12
PM25202	20.0	30	CM03012	12
PM28202	20.0	50	CM03012	12
PM25222	22.0	30	CM03012	12
PM28222	22.0	50	CM03012	12
PM25252	25.0	30	CM03012	12

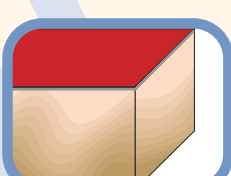
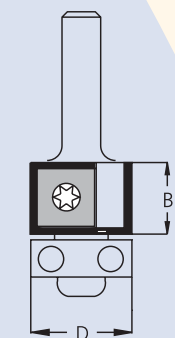
50mm cutting length bits are performed with 2 staggered 30mm length blades



**PM1**

**Straight Plunge Bits - Single blade**

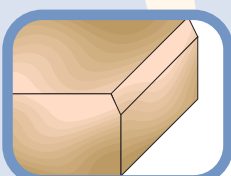
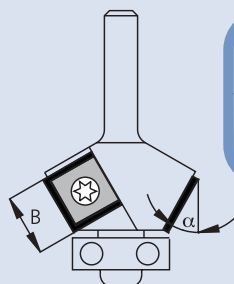
Tool No.	D mm	B mm	Blade No.	Shank Dia. mm
PM15122	12.0	30	CM03090	12
PM15142	14.0	30	CM03090	12
PM15152	15.0	30	CM03090	12
PM15162	16.0	30	CM03012	12
PM18162	16.0	50	CM05012	12
PM15182	18.0	30	CM03012	12
PM18182	18.0	50	CM05012	12
PM15202	20.0	30	CM03012	12
PM18202	20.0	50	CM05012	12
PM15222	22.0	30	CM03012	12
PM18222	22.0	50	CM05012	12



**FM**

**Flush Trim Bits**  
With Ball Bearing Guide.

Tool No.	D mm	B mm	Blade No.	Bearing	Shank Dia. mm
FM19003 or 5	19.0	12	CM01212	B190060	6 or 8
FM19013 or 5	19.0	30	CM03012	B190060	6 or 8
FM19012	19.0	30	CM03012	B190060	12



**SM**

**Bevel Trim Bits**  
With Ball Bearing Guide.

Tool No.	α degrees	B mm	Blade No.	Bearing	Shank Dia. mm
SM15003 or 5	15	12	CM01212	B159063	6 or 8
SM25003 or 5	25	12	CM01212	B159063	6 or 8
SM30003 or 5	30	12	CM01212	B159063	6 or 8
SM45003 or 5	45	12	CM01212	B127063	6 or 8



# perfection

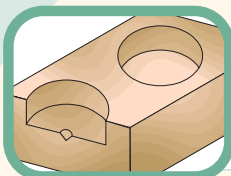
Finest materials, highest quality carbide developed for longer lasting tool life



## Boring & Countersink Bits

This section includes special designs of professional hinge boring bits, other accessories for drilling machines and "combi" chucks, adjustable countersinks, counterbores etc. Innovative tools such as special stepped drills and "plug sets" are offered. Most of the tools are carbide tipped. In other cases, the tools are heat treated and surface treated with a unique advanced DHN treatment for extended tool life.

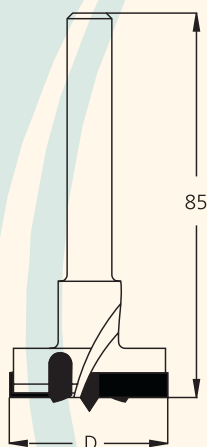
Shank Diameter	6mm	1/4"	8mm	3/8"	10mm	12mm	1/2"
Last Digit	3	4	5	6	7	2	8



## MP

### Boring Bits

For blind holes.  
Carbide tipped with a centering point,  
2 straight cutting edges and 2 nicking teeth.

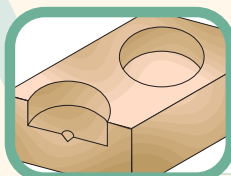


10mm shank

Tool No.	D
	mm
MP10007	10
MP15007	15
MP19007	19
MP20007	20
MP22007	22
MP23007	23
MP25007	25
MP26007	26
MP30007	30
MP32007	32
MP34007	34
MP35007	35
MP38007	38
MP40007	40
MP45007	45
MP50007	50



Other sizes available upon request



## MPK

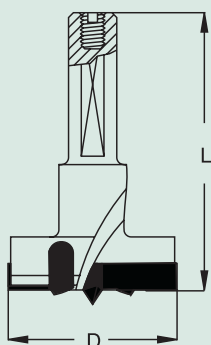
### Boring Bits - Combi System

Carbide tipped with a centering point,  
2 straight cutting edges and 2 nicking teeth.  
With adjustable set-screw in shank.  
Fits 10 mm combi chucks right hand and left  
hand rotation.

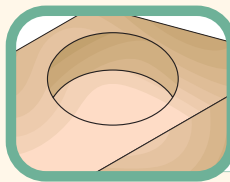
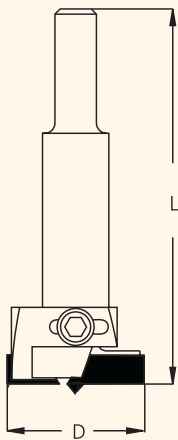


10mm shank

Tool No.		D	L
Right rotation	Left rotation	mm	mm
MPK1507	MPK1507L	15	57.5
MPK1607	MPK1607L	16	57.5
MPK1807	MPK1807L	18	57.5
MPK2007	MPK2007L	20	57.5
MPK2207	MPK2207L	22	57.5
MPK2507	MPK2507L	25	57.5
MPK2607	MPK2607L	26	57.5
MPK3007	MPK3007L	30	57.5
MPK3507	MPK3507L	35	57.5
MPK3807	MPK3807L	38	57.5
MPK4007	MPK4007L	40	57.5
MPK4507		45	57.5
MPK1517	MPK1517L	15	70
MPK2017	MPK2017L	20	70
MPK2517	MPK2517L	25	70
MPK3017	MPK3017L	30	70
MPK3517	MPK3517L	35	70
MPK2527	MPK2527L	25	77
MPK3027	MPK3027L	30	77
MPK3527	MPK3527L	35	77



Adjustable screw No. BR50100 ( M5 x 10)


**MPA**

### Adjustable Boring Bits

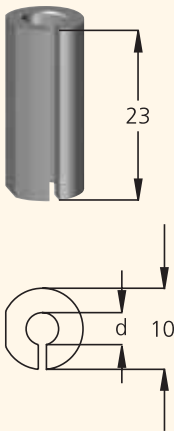
Carbide tipped with centering point, 2 scorers, one fixed and one adjustable.

Use only on a Drill Press.

Assembly	D	L	Shank Dia.	Blade No.
	mm	mm	mm	
MPA3007	30-60	90	10	MPA3000 for D=30-45mm MPA4500 for D=45-60mm
MPA6002	60-80	100	12	MPA6000

For safety: Max. speed should be 1500 RPM and the work piece should be clamped firmly.

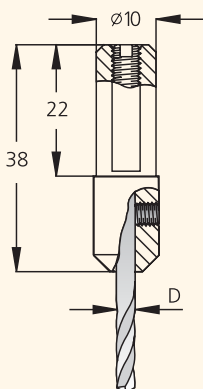
# Combi Chuck. Accessories


**TK**

### Shank Drill Bushings

For combi chucks.

Tool No.	d
	mm
TK10020	2.0
TK10025	2.5
TK10030	3.0
TK10032	3.2
TK10035	3.5
TK10040	4.0
TK10045	4.5
TK10050	5.0
TK10055	5.5
TK10060	6.0
TK10070	7.0
TK10080	8.0


**TA**

### Combi Chuck Adapter For Drills

Drills not included.

Tool No.	D
	mm
TA10020	2.0
TA10025	2.5
TA10030	3.0
TA10032	3.2
TA10035	3.5
TA10040	4.0
TA10050	5.0
TA10063	6.3

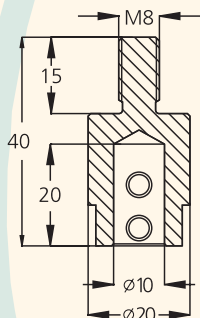


Adjustable screw No. BR50100 (M5x10)

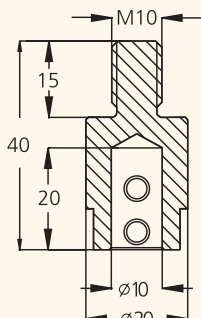
### TM

### Boring Machine Chucks - Combi System For 10mm Shank Boring Bits

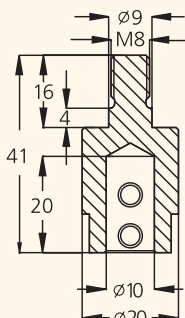
**For NOTTMEYER machines**  
TM08101R - Right rotation  
TM08101L - Left rotation



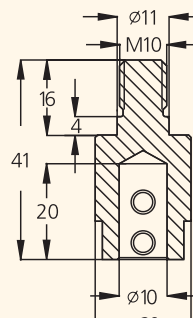
**For AYEN, TORWEGGE, HOLZMA and other machines**  
TM10103R - Right rotation  
TM10103L - Left rotation



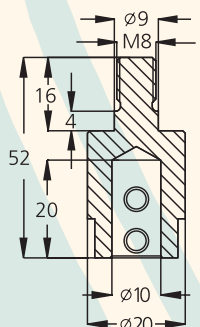
**For NOTTMEYER machines**  
TM08104R - Right rotation  
TM08104L - Left rotation



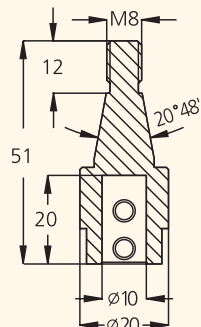
**For HOLZMA, S.C.M.I., MORBIDELLI, BIESSE, TORWEGGE and other machines**  
TM10105R - Right rotation  
TM10105L - Left rotation



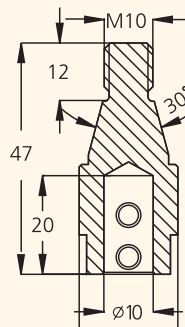
**For NOTTMEYER machines**  
TM08114R - Right rotation  
TM08114L - Left rotation



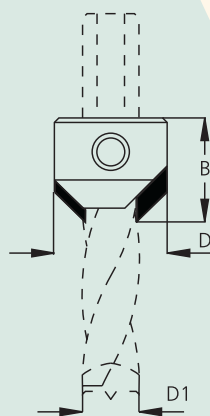
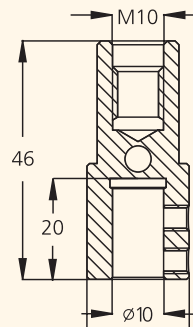
**For BILEK machines**  
TM08106R - Right rotation  
TM08106L - Left rotation



**For BILEK, VITAP, BUSSELATO, OMPEX and other machines**  
TM10102R - Right rotation  
TM10102L - Left rotation



**For SCHEER machines**  
TM10107R - Right rotation  
TM10107L - Left rotation



### AC3

### Countersinks Carbide Tipped For Dowel Drills

Right hand and left hand rotation.  
Drills not included.

Tool No.		D1	D	B
Right rotation	Left rotation	mm	mm	mm
AC3040R	AC3040L	4.0	15.5	18
AC3050R	AC3050L	5.0	16.0	18
AC3060R	AC3060L	6.0	16.0	18
AC3070R	AC3070L	7.0	16.0	18
AC3080R	AC3080L	8.0	18.0	18
AC3090R	AC3090L	9.0	18.0	18
AC3100R	AC3100L	10.0	20.0	18
AC3120R	AC3120L	12.0	20.0	18
AC31112R	AC31112L	11.0-12.0	22.0	17
AC35101R	AC35101L	5.0-10.0	15.5	19
AC3510R	AC3510L	5.0-10.0	20.0	19

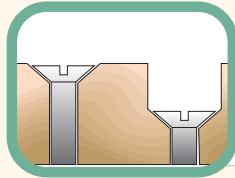
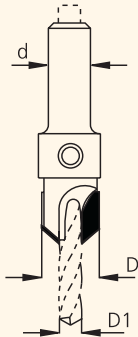


## Ordering Countersinks and Counterbores

All Countersinks and Counterbores, listed in this catalogue, can be ordered with HSS drills. By adding the proper letter to the last digit of the tool number, you can choose among a few types of drills. The available standard drills are listed in Pg. 62.

Drill type	Regular flute	Slow Spiral	Taper Point
Last Letter	S	D	T

For example: AC03205**S**, AC03605**D**, AC26320**D**



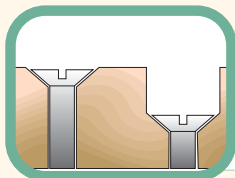
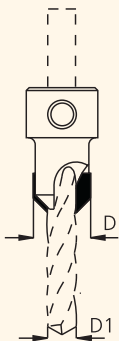
## AC0

### Countersinks - Carbide Tipped

For wood screws sizes #2-#14 (2mm-6mm).



Tool No.	D1 mm	D mm	Shank Dia.(d) mm
AC02405	2.4	8.5	8
AC02805	2.8	9.5	8
AC03215	3.2	8.0	8
AC03205	3.2	9.5	8
AC03285	3.2	12.7	8
AC03605	3.6	10.0	8
AC04005	4.0	10.0	8
AC04405	4.4	11.1	8
AC04807	4.8	11.1	9.5
AC04817	4.8	12.7	9.5
AC05007	5.0	12.0	10
AC05607	5.6	12.0	9.5
AC05617	5.6	12.7	9.5
AC06007	6.0	12.7	9.5
AC06317	6.3	12.7	10
AC06307	6.3	13.5	10

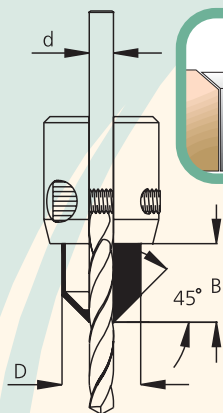


## AC2, AS2

### Countersinks - Carbide Tipped

Shankless, for assembling on drills.

Tool No.	D1 mm	D mm
AS23200	3.2	9.5
AS24000	4.0	9.5
AC21240	4.0	12.7
AS24400	4.4	9.5
AS24810	4.8	12.7
AC20540	5.4	16.0
AS25610	5.6	12.7
AS26310	6.3	12.7
AC26320	6.3	16.0
AC27020	7.1	16.0
AC20731	7.3	18.0
AC28020	8.0	16.0
AC28030	8.0	19.0
AC20900	9.0	18.0
AC29530	9.5	19.0
AC22595	9.5	25.4
AC22811	11.1	28.6



## ACM

### Multi-Diameter Countersink

Carbide tipped.  
Shankless, for assembling on drills.

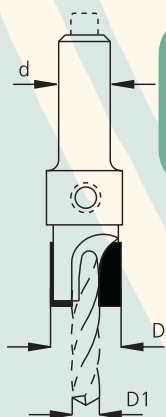
Tool No.	d mm	D mm	B mm
ACM3070	3.0-7.2	11.3-15.3	12



## ACS

### Set No. ACS0000

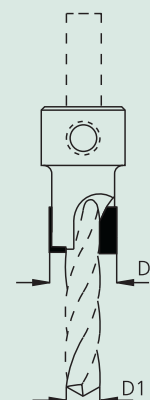
Consists of:  
Multi-Diameter Countersink - ACM3070 and drills  
from 3mm to 6mm.



## AC4

### Counterbores- Flat Bottom Carbide Tipped

Tool No.	D1 mm	D mm	d mm
AC43205	3.2	9.5	8.0
AC44005	4.0	10.0	8.0
AC44405	4.4	10.0	8.0
AC44817	4.8	12.7	9.5
AC45617	5.6	12.7	9.5
AC46017	6.0	12.7	9.5
AC46317	6.3	12.7	9.5

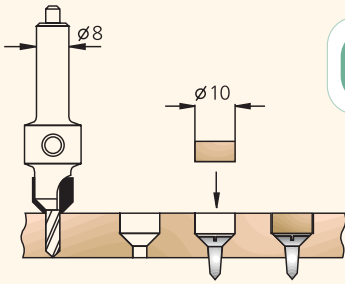


## AC4

### Counterbores - Flat bottom Carbide Tipped

Shankless, for assembling on drills.

Tool No.	D1 mm	D mm
AC41648	4.8	16.0
AC46320	6.3	16.0
AC41963	6.3	19.0
AC47020	7.1	16.0
AC48020	8.0	16.0
AC48030	8.0	19.0
AC49530	9.5	19.0
AC42595	9.5	25.4
AC42512	12.7	25.4
AC42812	12.7	28.6



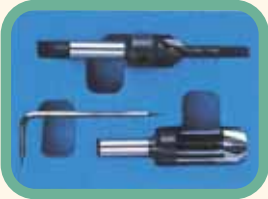
## PL

### Countersink & Plug Cutter Set

For decorative concealing of screw heads.  
Drilling & Countersinking with a single tool.  
Concealing of screwheads with wooden plugs  
which perfectly fit with countersink.

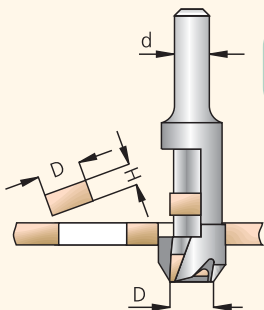
The sets include countersink bits with different drill diameters and 10mm plug cutter MN10005, which fits with all countersinks.

Set No.	Description	Drill Dia. mm
PL10305	2 pcs.	3.0
PL10325	2 pcs.	3.2
PL10355	2 pcs.	3.5
PL10365	2 pcs.	3.6
PL10405	2 pcs.	4.0
PL10445	2 pcs.	4.4
PL10505	2 pcs.	5.0
PL40005	5 pcs.	3, 3.5, 4, 5
PL41005	5 pcs.	3.2, 3.6, 4, 4.4



#### Replacement Countersinks :

Tool No.	Drill Dia. mm
AC 10305S	3.0
AC 10325S	3.2
AC 10355S	3.5
AC 10365S	3.6
AC 10405S	4.0
AC 10445S	4.4
AC 10505S	5.0



## MN

### Plug Cutters - Self Ejecting

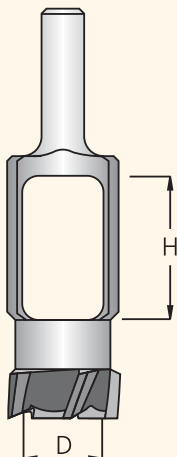
Heat treated and DHN\* treated.  
One Flute.  
For best results use drill press.

Tool No.	D mm	H max mm	Shank dia. (d) mm
MN09505	9.5	19	8
MN10005	10.0	19	8
MN12705	12.7	19	8
MN16007	16.0	19	10
MN19007	19.0	19	10

#### Extra long design - up to 50mm length of plugs.

MNL0955	9.5	50	8
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\*DHN - advanced surface treatment for extended life

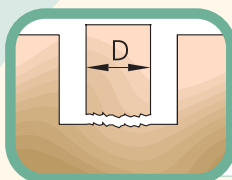
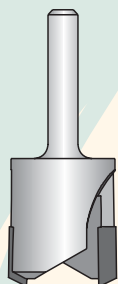


## MN

### Plug Cutters - Self Ejecting

HS Heat treated steel.

Tool No.	D mm	H mm	Shank Dia. mm
MN20008	20	32	13
MN25008	25	32	13
MN30008	30	32	13
MN35001	35	32	16

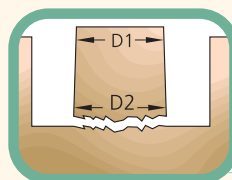
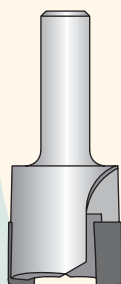


## MNT

### Plug Cutters

Carbide tipped - 2 flutes.  
For making plugs up to 16mm long.

Tool No.	D	Shank Dia.
	mm	mm
MNT0953	9.5	6
MNT1003	10.0	6
MNT1203	12.0	6
MNT1603	16.0	6
MNT0952	9.5	12
MNT1272	12.7	12
MNT1602	16.0	12



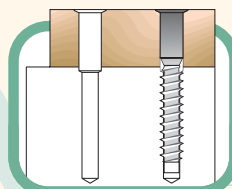
## MNK

### Tapered Plug Cutters

Carbide tipped - 2 flutes.  
For making tapered plugs up to 16mm long.

Ensures a tight fit - no gap around the plug. Solves the problem of irregular holes or plugs as a result of runout in the drill press etc. You just tap a plug into a hole until you meet resistance, then cut off the excess.

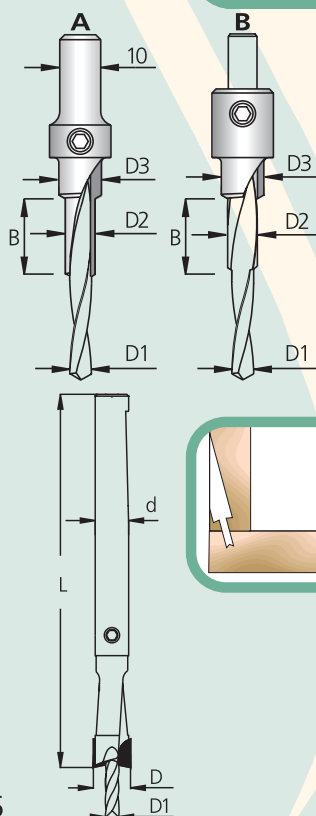
Tool No.	D1	D2	Hole Dia	Shank Dia.
	mm	mm	mm	mm
MNK1302	12.0	13.0	12.5	12
MNK1602	15.2	16.2	16	12
MNK2002	18.3	19.5	19	12



## ACD

### 3 Steps Drill Bit

For Connecting Screws (Confirmat, Directa etc.).  
HSS Slow Spiral drill.



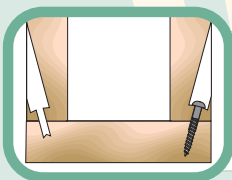
Tool No.	D1	D2	D3	B	Drill No.	Drill description
	mm	mm	mm	mm		
Type A - for laminated chipboard. Countersink DHN* treated.						
ACD0507D	3.5	5	8	15	DRS0350	3.5mm Dia
ACD0707D	5.0	7	10	19	DRS0500	5.0mm Dia

Type B - for MDF and other materials.

ACD0700D	5.0	7	10	•	DR50070	5x7mm stepped
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\*DHN - advanced surface treatment for extended life.

• Adjustable Length



## ACF

### Face Frame Counterbore

Carbide tipped.  
Drill included.

Tool No.	D1	D	L	d
	mm	mm	mm	mm
ACF0950S	3.45	9.5	101	9
ACF2950S	3.45	9.5	152	9
ACFS950S	3.45	9.5	104	9

• Spiral  
Replaceable "Fish tail" drill - DR03450

# Process

Fully automated computerized machines built to comply to the highest standard of production



## Click & Drill

Professional quick- change system for drilling, countersinking and screw-driving. The most effective way to increase productivity for drilling and fixing. The tools are designed for use with power drills and screwdrivers. Compatible with direct-drive 6.3mm (1/4") hexagonal shank power bits.



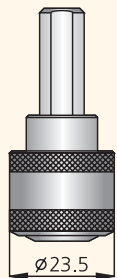
QC

## Quick - Change Chuck

NEW



**QCL6306**  
One hand operation

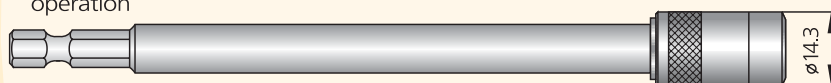


**QC06306**  
Professional



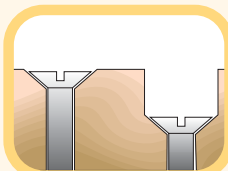
**QCH6306**  
DIY

For 6.3mm (1/4") hexagonal shanks.  
Converts all standard drill chucks into Quick Change attachment.  
Insert this chuck into a power drill chuck and tighten it using the chuck key.  
Now you can change tools instantly by just pulling the sleeve.  
No chuck key needed any more!



## QCE Quick - Change Extension

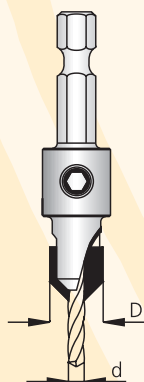
150 mm (6") long  
Tool No: QCE6304



AS0

## Countersinks - Carbide Tipped

Drill bits adjustable for drilling different lengths.



Tool No.	d	D
	mm	mm
AS02004	2.0	9.5
AS02404	2.4	9.5
AS02504	2.5	9.5
AS02804	2.8	9.5
AS03004	3.0	9.5
AS03204	3.2	9.5
AS03504	3.5	9.5
AS03604	3.6	12.7
AS04004	4.0	9.5
AS04804	4.8	12.7
AS05004	5.0	12.7
AS06004	6.0	12.7

Available with regular, taper point or slow spiral drills.  
Depth - stop available (TAS). See list on page 64.



QCS

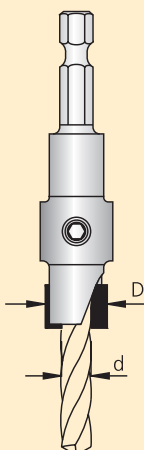
## Set No. QCS0204

Consists of:  
AS02504S, AS03004S, AS04004S and  
QCH6306



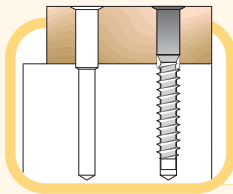
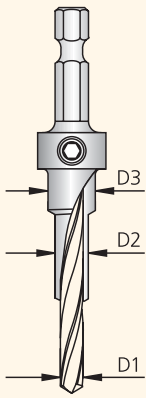
AS4

## Counterbores - Carbide tipped. Flat bottom.



Tool No.	d	D
	mm	mm
AS44004	4.00	9.5
AS44804	4.76	9.5
AS44814	4.76	12.7
AS46304	6.35	12.7
AS46314	6.35	16.0

Short drills - 75mm (3") length - are used.



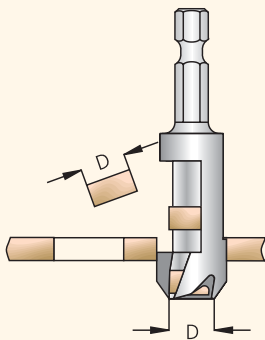
## ASD

### RTA Furniture Step Drills - 3 Steps

For connecting screws - Conformat, Directa etc.  
HSS slow spiral drills.  
Countersinks with 2 steps,  
DHN\* treated - extremely resistant to wear.

Tool No.	D1	D2	D3	Drill No.
	mm	mm	mm	
ASD0504D	3.5	5.0	7.0	DRS0350
ASD0704D	5.0	7.0	10.0	DRSL500

\*DHN - advanced surface treatment for extended life

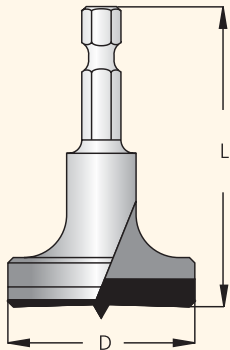


## MNS

### Plug Cutters - Heavy Duty

Heat treated and DHN\* treated.  
For best results - use a Drill Press.

Tool No.	D
	mm
MNS0804	8.0
MNS0954	9.5
MNS1004	10.0
MNS1204	12.0
MNS1274	12.7
MNS1604	16.0

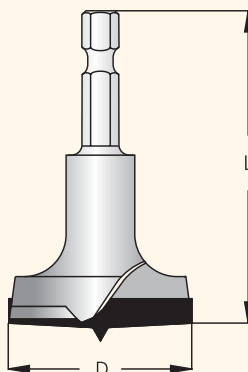


## HMPS

### Carbide Tipped Boring Bits

For blind holes.  
For best results - use a Drill Press.

Tool No.	D	L
	mm	mm
HMPS154	15	55
HMPS204	20	55
HMPS254	25	55
HMPS264	26	55
HMPS304	30	55
HMPS354	35	55

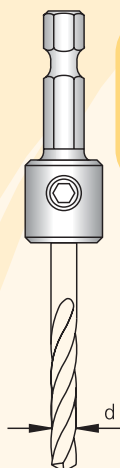


## HMPT

### Carbide Tipped Boring Bits

For blind holes. Designed for drilling with a hand held drill, but for better results use a Drill Press.

Tool No.	D	L
	mm	mm
HMPT154	15	58
HMPT264	26	58
HMPT354	35	58
HMPT404	40	58



## TDS

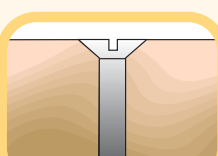
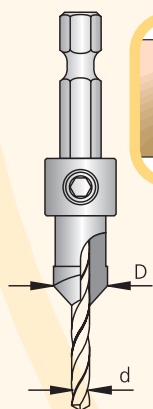
### Drill Adapters

Converts all standard drill bits into Quick-Change tools.

Tool No.	d
	mm
TDS0200	2.0
TDS0240	2.4
TDS0250	2.5
TDS0280	2.8
TDS0300	3.0
TDS0320	3.2
TDS0350	3.5
TDS0360	3.6

Tool No.	d
	mm
TDS0400	4.0
TDS0440	4.4
TDS0480	4.76
TDS0500	5.0
TDS0560	5.6
TDS0600	6.0
TDS0630	6.3

## DIY "Click & Drill" Tools



## HSO

### Countersink - HS

Heat treated steel.

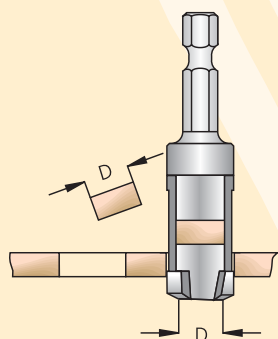
Tool No.	d	D
	mm	mm
HS02404	2.4	9.5
HS02504	2.5	9.5
HS02804	2.8	9.5
HS03004	3.0	9.5

Tool No.	d	D
	mm	mm
HS03204	3.2	9.5
HS03504	3.5	9.5
HS03604	3.6	12.7
HS04004	4.0	12.7

### Set No. QHS4004

Consists of:

4 Pcs. countersinks and QCH6306.



## HMNS

### Plug Cutters

Heat treated steel.

For best results - use a Drill Press.

Tool No.	D
	mm
HMNS954	9.5
HMNS104	10.0

Tool No.	D
	mm
HMNS134	12.7
HMNS164	16.0

## HMZ

### Glass & Tile Drills

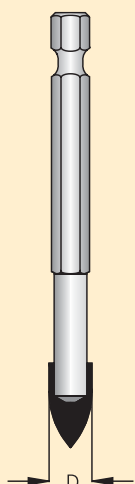
Carbide Tipped. For use on glass, porcelain, tile and mirrors.

Tool No.	D
	mm
HMZ0304	3
HMZ0404	4
HMZ0504	5
HMZ0604	6
HMZ0704	7

Tool No.	D
	mm
HMZ0804	8
HMZ1004	10
HMZ1204	12
HMZ1304	13

### How to drill glass:

1. Drill at a slow speed 500-800 RPM, applying slight pressure.
2. Never drill dry! Apply lubricant, it might be water, or preferably light oil.
3. Drill carefully until the point just breaks through the surface of the glass.  
Then, turn the glass over, and finish drilling the hole from the other side.



# Capacity

Automated lines for large quantities, quick delivery and uniformity



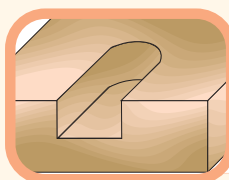
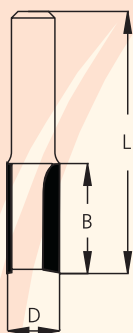
## Woodpecker



Economical line of quality carbide tipped router bits and other tools essential for every craftsman and DIY amateur. A basic assortment of more than 100 router bits and sets. The tools facilitate renovations, repairs and restoration of furniture. Excellent for building furniture and artistry on wood. Available with 6mm shank, 8mm shank and 1/4" shank.

Shank Diameter	6mm	1/4"	8mm
Last Digit	3	4	5

All Woodpecker router bits are available with 6mm shank (suffix 3), 8mm shank (suffix 5) and 1/4" shank (suffix 4).

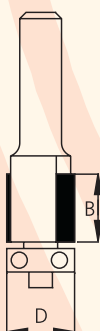


## HP

### Straight Bits

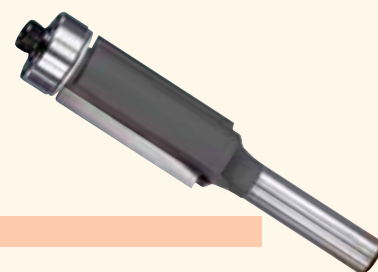
Tool No.	D	B	L
	mm	mm	mm
HP21055	5.0	12	48
HP23065	6.0	20	48
HP23085	8.0	20	48
HP24085	8.0	25	56
HP23105	10.0	20	48
HP23125	12.0	20	48
HP24125	12.0	25	56
HP23135	12.7	20	48
HP24133*	12.7	25	56
HP23145	14.0	20	48
HP23165	16.0	20	48
HP23185	18.0	20	48
HP23195	19.0	20	48
HP23205	20.0	20	48

\* Available only with 6mm shank

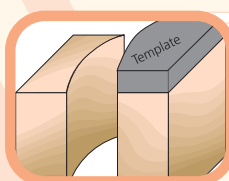
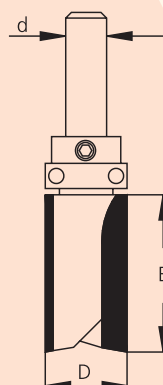


## HF

### Flush Trimming Bit



Tool No.	D	B	Bearing
	mm	mm	
HF22095	9.5	13	B095032
HF24095	9.5	25	B095032
HF22125	12.7	13	B127048
HF24125	12.7	25	B127048

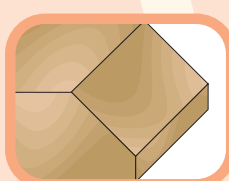
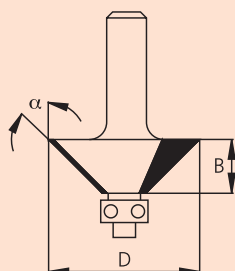


## HPF

### Straight Plunge Template Bit

Tool No.	D	B	Bearing	
	mm	mm	d=6 mm	d=8mm
HPF4123*	12.7	25	B127063	-
HPF4165	16.0	25	B159063	B160080

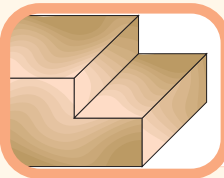
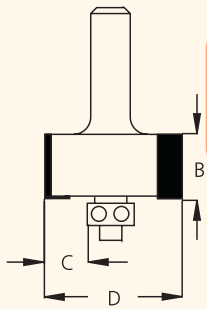
\* Available only with 6mm shank



## HSL

### Bevel Trimming Bit

Tool No.	α	D	B	Bearing
	degrees	mm	mm	
HSL1505	15	16	6.5	B127048
HSL2255	25	15	6.5	B095032
HSL4505	45	24	6.5	B127048
HSL2455	45	32	13	B095032



**HE**

## Rabbeting Bit



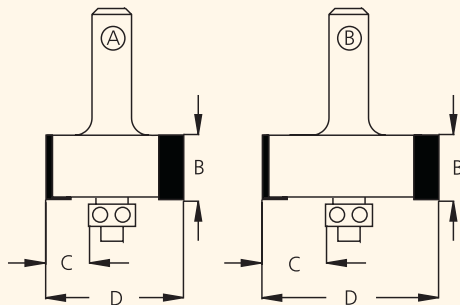
Tool No.	C	D	B	Bearing
	mm	mm	mm	
HE22035	4.8	18.8	11	B095048
HE22105	9.5	28.6	12	B095032
HE22095	11.1	31.8	12	B095048



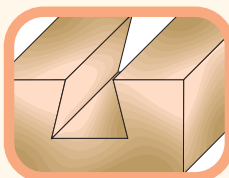
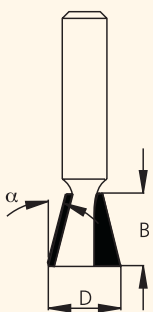
**HES**

## Rabbeting & Flush Trim Set

2 bits - 4 ball bearing guides  
Allows 8 different cuts



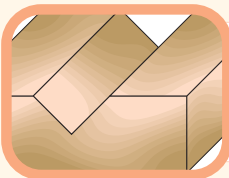
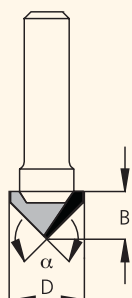
Description	Tool No.	C	D	B	Bearing
		mm	mm	mm	
Set	HES8005				
Tool A	HE22035	0-flush	18.8	11	B190048
		1.6			B160048
		3.2			B127048
		4.8			B095048
Tool B	HE22095	6.3	31.8	12	B190048
		8.0			B160048
		9.5			B127048
		11.1			B095048



**HZ**

## Dovetail Bit

Tool No.	$\alpha$	D	B
	degrees	mm	mm
HZ13145	14	12.7	12



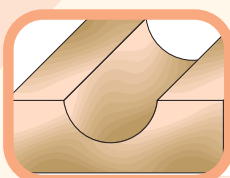
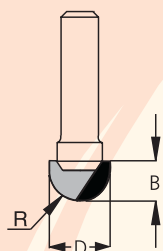
**HV**

## "V"- Grooving Bits

Tool No.	$\alpha$	D	B
	degrees	mm	mm
HV60955	60	9.5	10
HV90125	90	12.7	8

Reminder:

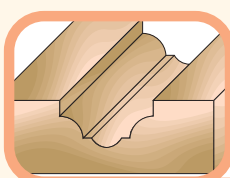
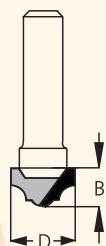
Shank Dia.	6mm	1/4"	8mm
Last Digit	3	4	5



## HRB

### Core Box Bits

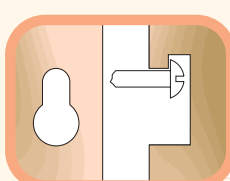
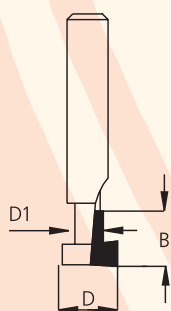
Tool No.	R	D	B
	mm	mm	mm
HRB0605	3.2	6.3	5
HRB1005	4.8	9.5	6
HRB1205	6.3	12.7	8
HRB1905	9.5	19.0	11



## HRC

### Classical Bit

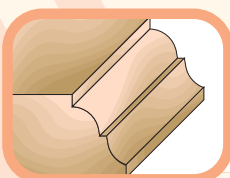
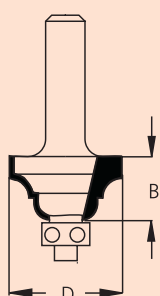
Tool No.	D	B
	mm	mm
HRC0305	12.7	8



## HMM

### Key Hole Bit

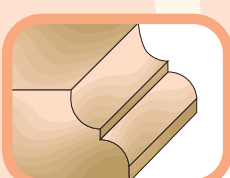
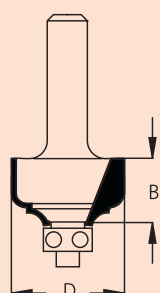
Tool No.	D	D1	B
	mm	mm	mm
HMM1095	9.5	4.8	9.5



## HRS

### Classical Bit

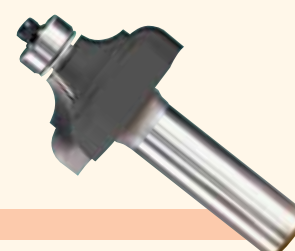
Tool No.	D	B	Bearing
	mm	mm	
HRS0405	25.0	16	B095032
HRS0605	35.0	19	B095032

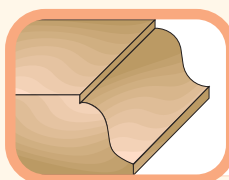
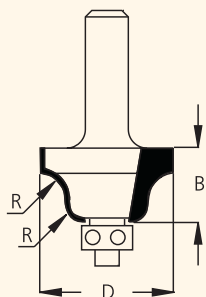


## HRM

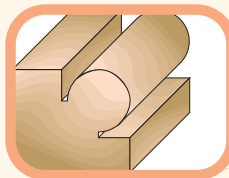
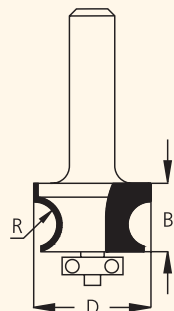
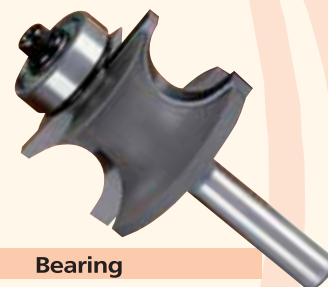
### Classical Bit

Tool No.	D	B	Bearing
	mm	mm	
HRM0305	22.0	13	B095032

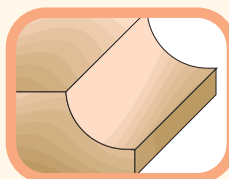
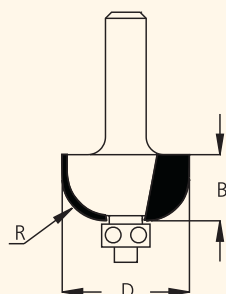


**HRD****Ogee Bit**

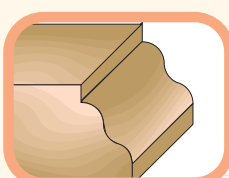
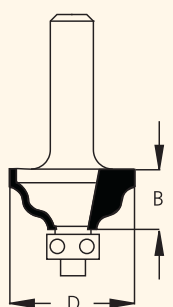
Tool No.	R	D	B	Bearing
	mm	mm	mm	
HRD0405	4.0	25.0	16	B095032
HRD0605	6.3	35.0	19	B095032

**HRF****Corner Beading Bit**

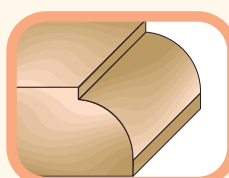
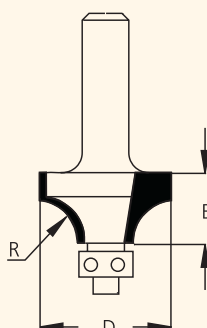
Tool No.	R	D	B	Bearing
	mm	mm	mm	
HRFB035	3.2	22.2	14	B127048
HRFB065	6.3	31.8	19	B127048

**HRZ****Cove Bits**

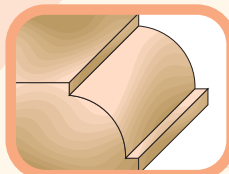
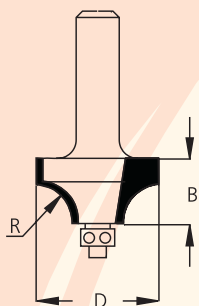
Tool No.	R	D	B	Bearing
	mm	mm	mm	
HRZ0605	6.3	22.0	13	B095032
HRZ1005	9.5	28.6	14	B095032

**HRJ****Wavy Edge Bit**

Tool No.	D	B	Bearing
	mm	mm	
HRJ0305	25.0	13	B095032

**HRW****Rounding Over Bits**

Tool No.	R	D	B	Bearing
	mm	mm	mm	
HRW0305	3.2	15.8	10	B095032
HRW0605	6.3	22.0	13	B095032
HRW0805	8.0	25.0	15	B095032
HRW1005	9.5	28.6	17	B095032
HRW1215	12.7	38.0	17.5	B127048



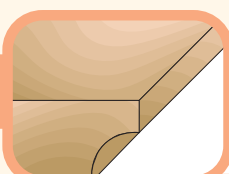
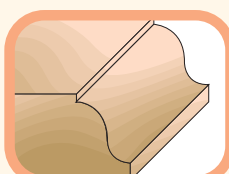
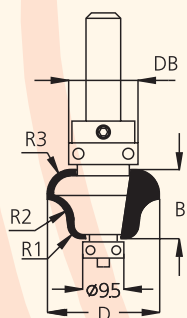
## HRP

### Beading Bits

Tool No.	R	D	B	Bearing
	mm	mm	mm	
HRP0305	3.2	15.8	10	B063032
HRP0605	6.3	22.0	13	B063032
HRP0805	8.0	25.0	15	B063032
HRP1005	9.5	28.6	17	B063032
HRP1215	12.7	38.0	17.5	B095048

## HD DOUBLE SHAPED TOOLS

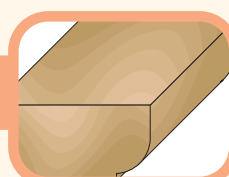
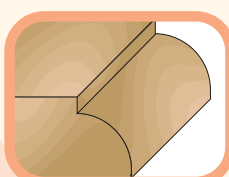
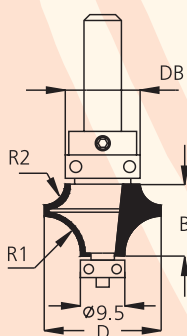
With 2 Bearings (top and bottom).



## HDD

### Decorative Bits

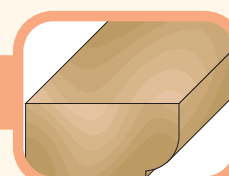
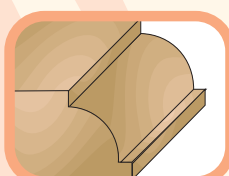
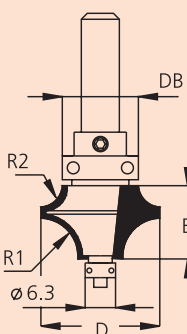
Tool No.	D	B	R1=R2	R3	DB
	mm	mm	mm	mm	mm
HDD0405	25.4	16	4.0	4.8	16



## HDW

### Rounding Over Bits

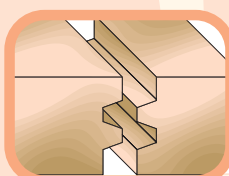
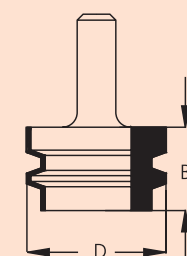
Tool No.	D	B	R1	R2	DB
	mm	mm	mm	mm	mm
HDW0605	22.0	13.5	6.3	3.2	16
HDW0805	25.0	15.5	8.0	4.8	16



## HDP

### Beading Bits

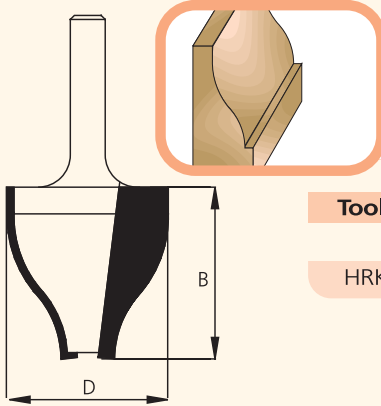
Tool No.	D	B	R1	R2	DB
	mm	mm	mm	mm	mm
HDP0605	22.0	13.5	6.3	3.2	16
HDP0805	25.0	15.5	8.0	4.8	16



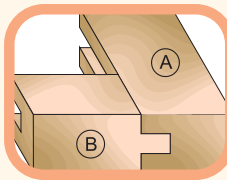
## HFJ

### Glue Joint Bit

Tool No.	D	B
	mm	mm
HFJ2005	25.4	28.5

**HRK****Vertical Raised Panel Bit**

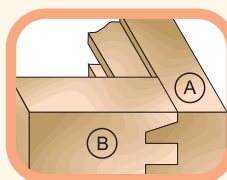
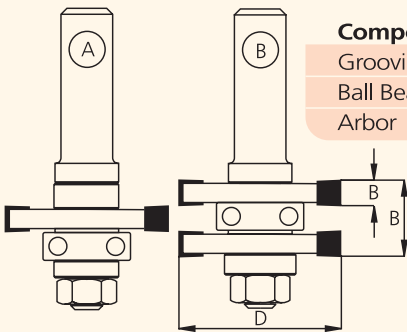
Tool No.	D	B
	mm	mm
HRK3005	30.0	32

**HRG****Tongue & Groove Cutter Set**

Description	Tool No.	D	B
		mm	mm
Assembly	HRG6005	32.0	19

**Components**

Grooving cutter	HN26332	32.0	6.3
Ball Bearing	B127063		
Arbor	NHRG655		

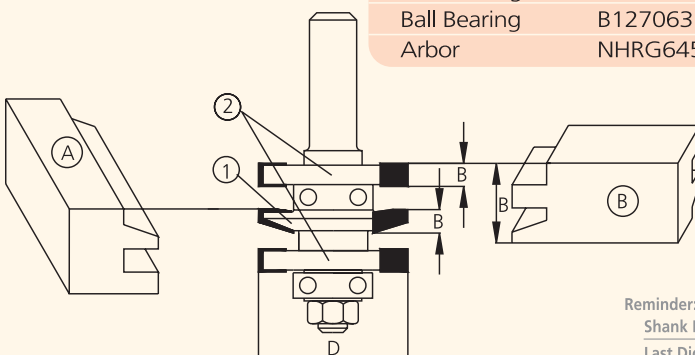
**HRGD****Tongue & Groove Easy Set - Ogee  
For Profile Scribed Doors****No reassembly required!**

Both parts of the joint are cut by just changing the cutter height.

Description	Tool No.	D	B
		mm	mm
Assembly	HRGD205	32.0	19

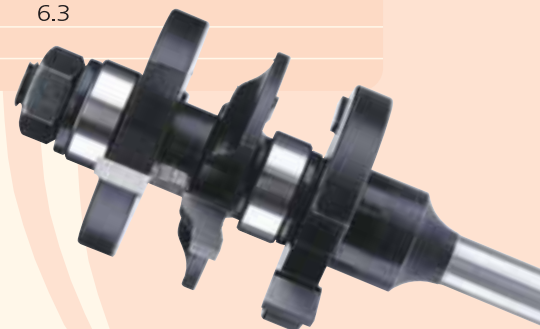
**Components**

1. Profile cutter	HNRG232	32.0	6.3
2. Grooving cutter	HN26332	32.0	6.3
Ball Bearing	B127063		
Arbor	NHRG645		



Reminder:

Shank Dia.	6mm	1/4"	8mm
Last Digit	3	4	5



# DH "Dolls Houses" Router Bits

A line of tools designed to meet the needs of model makers, architects, dolls houses enthusiasts and professional craftsman for small sized, shaped tools.

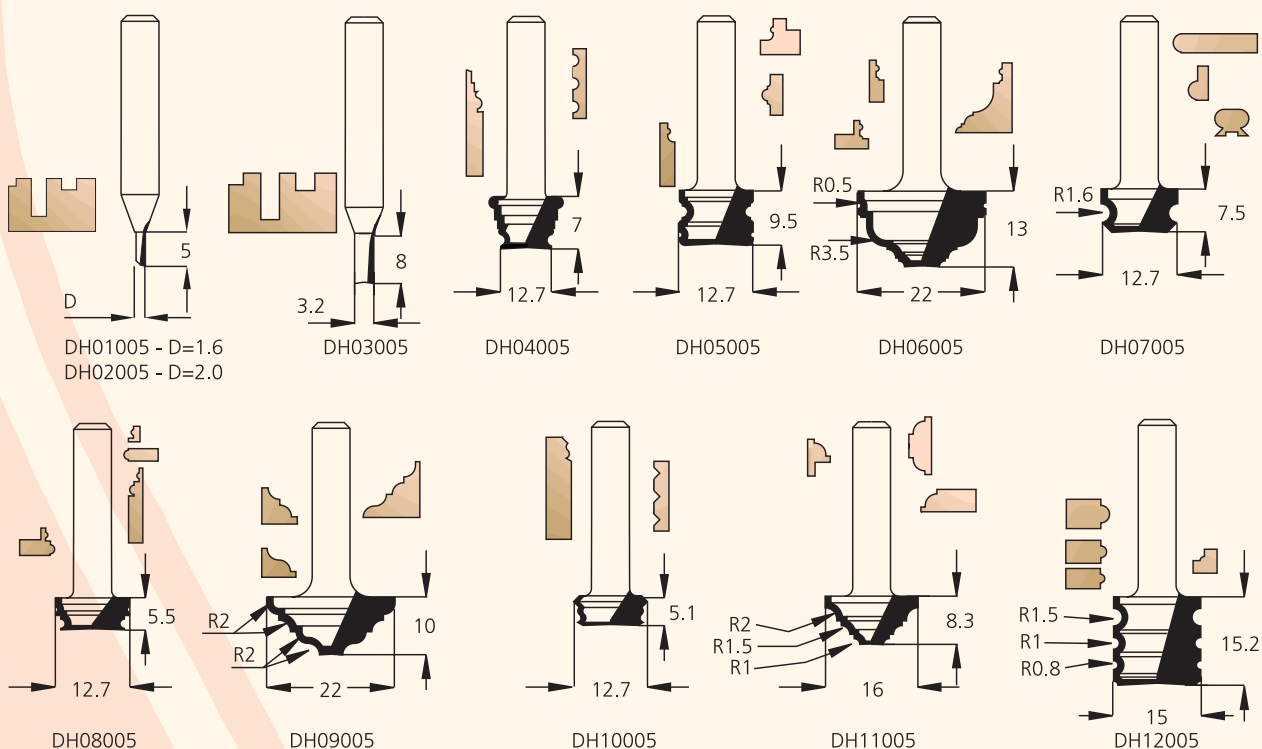
6 mm, 1/4" or 8 mm shank



**DHS**

## "Dolls Houses" 12 Pcs. Set Set No. DHS1205

Consists of 12 router bits in a handsome wooden storage box.



**HS12**

## 12 Pcs. Starter Set

**Set No. HS12175**

Consists of:

HRB1205, HRZ0605, HZ13145, HSL2455, HF22125, HRW0605, HRW1005, HP23065, HP23125, HP23165, HV90125, HRD0405.

In a handsome wooden storage box.



**HS06****6 Pcs. Set****Set No. HS06225**

Consists of:

HRP0605, HP23125, HP23065, HRW1005, HV90125, HRD0405

In a handsome wooden storage box.

**HS30****30 Pcs. Set****Set No. HS30175**

Consists of:

30 tools of Woodpecker bits in a handsome wooden storage box.

**HS04****4 Pcs. Set****Set No. HS04015**

Consists of:

HRW0605, HRW1005, HP23125, HF22125  
in a transparent blister.

Other selections available.

**SAF****Laminated Trimmer**

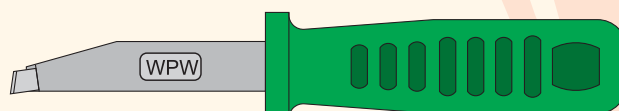
For wood, melamine, PVC or Polyester veneers.  
Trims clean & flush up to 3 mm thick.  
Blades are double edged.

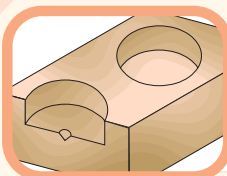
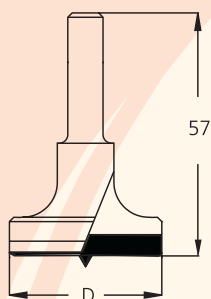
**Tool No. SAF0000**

Replaceable blade No. SAFM020

**SA****Carbide Laminate Cutter**

"Score and Break" for cutting  
laminates and other hard materials.  
Can be used for glass.

**Tool No. SA00000**



## HMP

### Boring Bits

For blind holes

8mm shank

Tool No.	D
	mm
HMP2005	20
HMP2505	25
HMP2605	26
HMP3005	30
HMP3505	35

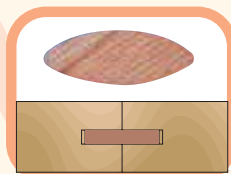


## HMPS

### Boring Bits - 5 Pcs. Set

Set No. HMPS055

Bits in a wooden box.

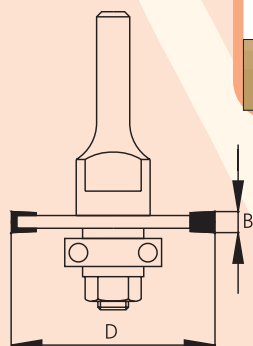


## NB

### "Biscuit" Jointer Assembly

Includes slotting cutter  
arbor and ball bearing guide

D = 40.0mm  
B = 4.0mm



Assembly	For Biscuit No.	Bearing
NB15005	0	B220060
NB19005	10	B190060
NB23005	20	B150060

#### Components

Description	Tool No.
Cutter (2 wings)	N204030
Arbor & Nut	NB06005



## NBS

Set No. NBS0305

Set for all 3 sizes of biscuits.

# Quality control

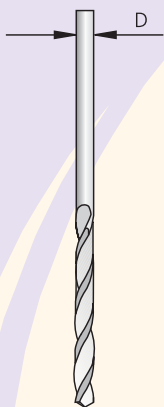
Each product is checked for sharpness and concentricity



## Replacement Parts

Drills, Ball Bearing guides, screws and other accessories for router machines and for router bits.

Shank Diameter	6mm	1/4"	8mm	3/8"	10mm	12mm	1/2"
Last Digit	3	4	5	6	7	2	8



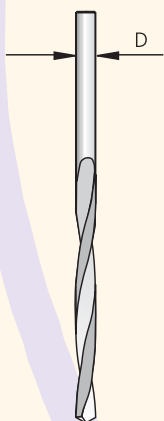
## DR

### Drill Bits - Regular Flute

HSS M2 Din 338 Fully ground.

Tool No.	D mm
DR02000	2.0
DR02400	2.4
DR02500	2.5
DR02800	2.8
DR03000	3.0
DR03200	3.2
DR03500	3.5
DR03600	3.6

Tool No.	D mm
DR04000	4.0
DR04400	4.4
DR04800	4.8
DR05000	5.0
DR05600	5.6
DR06000	6.0
DR06300	6.3



## DRS

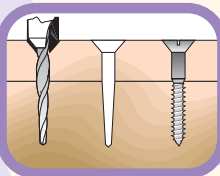
### Slow Spiral Drills

HSS Din 338 Fully ground.

Better chip removal - easier drilling.

Tool No.	D mm
DRS0200	2.0
DRS0240	2.4
DRS0280	2.8
DRS0300	3.0
DRS0320	3.2
DRS0350	3.5
DRS0360	3.6
DRS0400	4.0
DRS0440	4.4
DRS0480	4.8

Tool No.	D mm
DRS0500	5.0
DRS0560	5.6
DRS0600	6.0
DRS0630	6.3
DRS0710	7.1
DRS0800	8.0
DRS0900	9.0
DRS0950	9.5
DRS1110	11.1
DRS1270	12.7



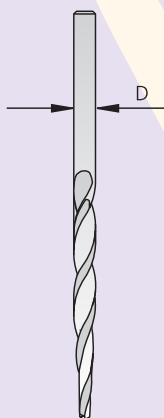
## DRT

### Taper Point Drills

HSS M2 Din 338 Fully ground.

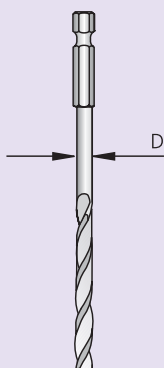
Save time when drilling pilot holes for wood screws. Drill in one pass both for the shank of the screw and for the thread.

Pilot holes for wood screws are recommended especially for hard woods. The hole in the first piece of wood should be bored large enough to accommodate freely the screw shank. In the second piece of wood the hole should be smaller according to the root diameter of the thread.



Tool No.	D mm
DRT0200	2.0
DRT0240	2.4
DRT0280	2.8
DRT0320	3.2
DRT0360	3.6

Tool No.	D mm
DRT0400	4.0
DRT0440	4.4
DRT0480	4.8
DRT0560	5.6
DRT0630	6.3



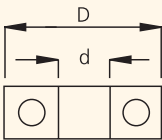
## DR...4

### Drills with 6.3mm (1/4") Hex Shank

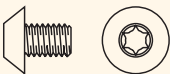
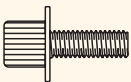
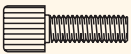
HSS M2 Din 338 Fully ground.

Tool No.	D mm
DR02404	2.4
DR03004	3.0
DR03204	3.2
DR03504	3.5
DR03604	3.6

Tool No.	D mm
DR04004	4.0
DR04804	4.8
DR05004	5.0
DR06004	6.0
DR06304	6.3

**B****Ball Bearings**

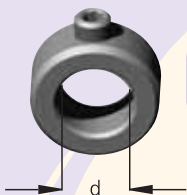
Stock No.	D mm	d mm
B063032	6.35	3.17
B080040	8.00	4.00
B095032	9.53	3.17
B095048	9.53	4.76
B095063	9.53	6.35
B124048	12.40	4.76
B127048	12.70	4.76
B127063	12.70	6.35
B159063	15.87	6.35
B160048	15.87	4.76
B160050	16.00	5.00
B160080	16.00	8.00
B190048	19.05	4.76
B190060	19.00	6.00
B190063	19.05	6.35
B190127	19.05	12.70
B220070	22.00	7.00
B220080	22.00	8.00
B254127	25.40	12.70
B260100	26.00	10.00
B285127	28.57	12.70
B318150	31.80	15.00
B350150	35.00	15.00

**BR/BT****Screws**

Stock No.	Description	Application	Key No.
BR25095	NC 3/48 x 9.5mm	Ball bearing fixing	KEY5/64
BR30100	M 3 x 10mm	Ball bearing fixing	KEY02.5
BR32095	NC 5/40 x 9.5mm	Ball bearing fixing	KEY3/32
BR40100	M 4 x 10mm	Ball bearing fixing	KEY03.0
BR48127	NF10-32 x 12.7mm	Ball bearing fixing	KEY04.0
BRW2595	NC 3/48 x 9.5mm	Ball bearing fixing	KEY5/64
BRW3295	NC 5/40 x 9.5mm	Ball bearing fixing	KEY3/32
BR32026	NC 5/40 x 2.6mm	Retaining collars	KEY01.6
BR32032	NC 5/40 x 3.2mm	Retaining collars	KEY01.6
BR48048	NC 10/24 x 4.8mm	Countersinks & Counterbores	KEY3/32
BR50050	M 5 x 5mm	Combi chucks	KEY02.5
BR50100	M 5 x 10mm	Combi drills & adapters	KEY02.5
BR60060	M 6 x 6mm	Countersinks & Counterbores	KEY03.0
BR63048	NF1/4-28 x 4.8mm	Countersinks & Counterbores	KEY1/8
BR63063	NF1/4-28 x 6.3mm	Countersinks & Counterbores	KEY1/8
BT35048	Torx M 3.5 x 4.8mm	Replaceable bits	KEY-TORX
BT40056	Torx M 4 x 5.6mm	Replaceable bits	KEY-TORX

**BD****Dust Shields**

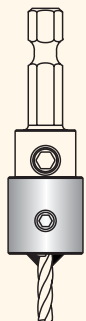
Stock No.	Description	Application
BD08040	8mm Dia x 4mm Dia	B080040 Ball Bearing Guides
BD09532	9.5mm Dia x 3.2mm Dia	B095032 Ball Bearing Guides
BD09548	9.5mm Dia x 4.8mm Dia	B095048 Ball Bearing Guides
BD12748	12.7mm Dia x 4.8mm Dia	B127048 Ball Bearing Guides
BD16050	16mm Dia x 5mm Dia	B160050 Ball Bearing Guides
BD35150	35mm Dia x 15mm Dia	B350150 Ball Bearing Guides



## PF...0

### Retaining Collars

Stock No.	d	Application	Screw No.
PF06300	6.35mm	For Shank Mounted Ball Bearing Guides	BR32026, BR32032
PF08000	8mm	For Shank Mounted Ball Bearing Guides	BR32032
PF09500	6.35mm	For B095063 Bearing	BR32026
PF10000	10mm	For Shank Mounted Ball Bearing Guides	BR32026, BR32032
PF12700	12.7mm	For Shank Mounted Ball Bearing Guides	BR48048
PF19000	12.7mm	For B190127 & B254127 Bearings	BR32026, BR32032

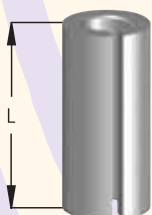


## TAS

### Depth - Stops

For adjusting depth of countersinks.

Tool No.	For Countersink Tool No.
TAS0200	AS02004, AS02404, AS02504, AS02804, AS03004, AS03204, AS03504, AS04004
TAS0360	AS03604
TAS0400	AS24000, AS24400, AS24810
TAS0560	AS05004, AS06004, AS24000, AS24400, AS24810



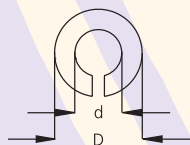
## T, TL

### Reduction Sleeves

For reducing collet size to take smaller shank.

Stock No.	D	d	L
T063030	1/4"	3mm	25mm
T063032	1/4"	1/8"	25mm
T080060	8mm	6mm	25mm
T080063	8mm	1/4"	25mm
T095063	3/8"	1/4"	25mm
T095080	3/8"	8mm	25mm
T100060	10mm	6mm	25mm
T100080	10mm	8mm	25mm
T120060	12mm	6mm	25mm

Stock No.	D	d	L
TL12063	12mm	1/4"	30mm
T120080	12mm	8mm	25mm
T120100	12mm	10mm	25mm
TL12760	1/2"	6mm	30mm
T127063	1/2"	1/4"	25mm
T127080	1/2"	8mm	25mm
TL12795	1/2"	3/8"	30mm
T127100	1/2"	10mm	25mm



## N

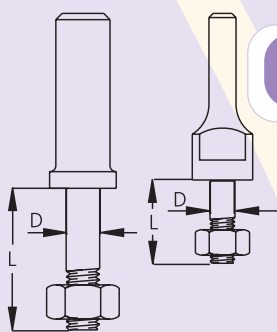
### Arbors for Slotting Cutters

6mm, 1/4", 8mm, 12mm and 1/2" shank

Stock No.	D	L	Description
	mm	mm	
N000003	7.94	15	
N000803	7.94	15	Includes ball bearing B159063
N000013	7.94	34	
N000813	7.94	34	Includes ball bearing B220080

6mm, 1/4" and 8mm shank

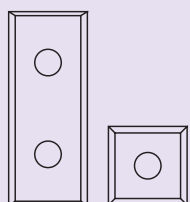
NB06003	6.00	20.5	For Biscuit jointer cutters
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## CM

### Tungsten Carbide Replaceable Blades

For tools with replaceable Carbide blades.



Stock No.	Dimensions
	mm
CM01212	12 x 12 x 1.5
CM03055	30 x 5.5 x 1.1
CM03090	30 x 9 x 1.5

Stock No.	Dimensions
	mm
CM03012	30 x 12 x 1.5
CM05055	50 x 5.5 x 1.1
CM05012	50 x 12 x 1.5



## Merchandising Concept

Display Cabinets are available in different sizes.  
Professional presentation in blister packaging.



## WPW New Products



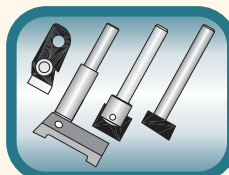
### TCT Counterbores

Custom designed Tungsten Carbide Tipped cutting tools - counterbores and reamers for mass production. For machining brass, cast iron, cast Aluminum and Magnesium die casting parts. Used in the car industry, brass faucet manufacturing, valves and fittings production etc.



### WPW Glass Line

Diamond bonded and Carbide tipped glass drilling and grinding tools for working glass, porcelain, tile and fragile materials. Enables drilling in mirrors, stained glass, bottles and any artistic glass work. Replacement heads for glass grinders. Used in Stained Glass works. Interchangeable with most grinders like GLASTAR, INLAND etc. Vacuum-brazing diamond-bonding process ensures longer life.



### Cutters for knitting machines

Carbide cutters for different machines like San Giacomo, Lonati, Santoni etc.

## About Cutting and Router speeds

We are often asked about recommended cutting speed for routing. The answer is complicated. The maximum allowed cutting speed for Carbide Router Bits depends on many factors such as:

1. Material type and hardness.
2. Stability of the system: machine, chuck, work piece.
3. Tool length and depth of cut.

The general formula for calculating Router speed -  $n$  - is: 
$$n = \frac{V \times 60 \times 1000}{\pi \times \varnothing D}$$

$n$  = router speed in RPM

$V$  = cutting speed in meter/sec.

$\varnothing D$  = router bit's diameter in mm

$\pi$  = 3.14...

### RECOMMENDED CUTTING SPEED

Material	V
Softwood	60 - 90
Hardwood	50 - 80
Chipboard	60 - 80
Plywood	60 - 80
MDF	40 - 60
Laminates	40 - 60

This speed is not always practical.

Taking into consideration the speed and the power of Router machines that are available in the market, we suggest the following router speeds in terms of RPM (Revolutions Per Minute).

### SUGGESTED ROUTER SPEED - RPM

$\varnothing D$	$n$ (RPM)
Up to 25mm (1")	30,000
Up to 35mm (1-5/8")	28,000
Up to 50mm (2")	20,000
Up to 65mm (2-1/2")	18,000
Up to 80mm (3-1/4")	16,000
Up to 95mm (3-3/4")	12,000



## General Safety Information

Router machines running at high speeds can be dangerous, as the cutting tools may chip or fragment.

- Follow safety instructions supplied with your power tool. Clean & dust machines regularly.
- Always wear eye, ear and respiratory protection while operating routers.
- Keep your fingers away from the tool while the machine is working.
- Unplug your router whenever changing the bit.
- Insert at least 3/4 of the shank into the collet.
- Do not cut too deep in one go. Feed router with suitable force in order to avoid overload.
- Feed router in correct direction - against the rotation of the bit.
- Remove the tool from the collet when not in use.
- Don't use worn out collets, and always use the correct size.
- Always have your cutting tool sharpened by a skilled worker using the proper grinding equipment.
- While sharpening tools, use adequate ventilation. The grinding process will produce dust that has potentially hazardous ingredients.



Code	Page No.
AC0	43
AC1	45
AC2	43
AC3	42
AC4	44
ACD	46
ACF	46
ACM	44
AD	31
AS0	48
AS2	43
AS4	48
ASD	49
B	63
BD	63
BR	63
BT	63
CM	64
DB	23
DC	24
DH	58
DHS	58
DL	25
DM	24
DR	62
DRS	62
DRT	62
DT	13
DU	30
E	18
ES	18
F	15
FJ	37
FM	38
FPS	14
FS	16
FSG	16
FT	16
FU	16
HD	56
HE	53
HES	53
HF	52
HFJ	56
HMM	54
HMNS	50
HMP	60
HMPS	49
HMPT	49
HMZ	50
HP	52
HPF	52
HRF	55
HRB	54
HRC	54

Code	Page No.
HRD	55
HRG	57
HRJ	55
HRK	57
HRM	54
HRP	56
HRS	54
HRW	55
HRZ	55
HS	50, 58, 59
HSL	52
HV	53
HZ	53
MB	10, 13
MF	15
MM	26
MN	45
MNK	46
MNS	49
MNT	46
MP	40
MPA	41
MPK	40
MRC	24
MRD	27
MRI	28
MRJ	27
MRM	27
MRR	25
MRS	26
MRZ	28
MRW	29
MSL	17
N0	64
N2, N3	36
NB	60, 64
NBS	60
NG	33-36
NMB	13
P..L	11
P1	10
P2	8, 9
PF	14, 64
PFS	14
PL	45
PM	38
PP	19
PPJ	19
PPS	19
PPT	19
PS	13
PT	10
PU	13
QC	48
QCH	48

Code	Page No.
QCL	48
QCS	48
QHS	50
RA	25
RB	22
RBL	23
RC	24
RD	27
RF	30
RFB	30
RG	34, 35, 36
RGD	33, 34
RH	24
RI	28
RJ	27
RK	32, 33
RL	28
RM	27
RN	28
RO	31
RP	29
RR	25, 26
RRA	25
RRC	25
RRI	26
RS	26
RT	27
RU	22
RV	23
RW	29
RWG	29
RZ	28
SA	59
SAF	59
SC	20, 21
SF	22
SL	17
SM	38
ST	11
STD	11
STP	11
STS	11
SZ	18
T	64
TA	41
TAS	64
TDS	50
TK	41
TL	64
TM	42
UB	12
US	12
V	22
Z	21
ZB	21





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