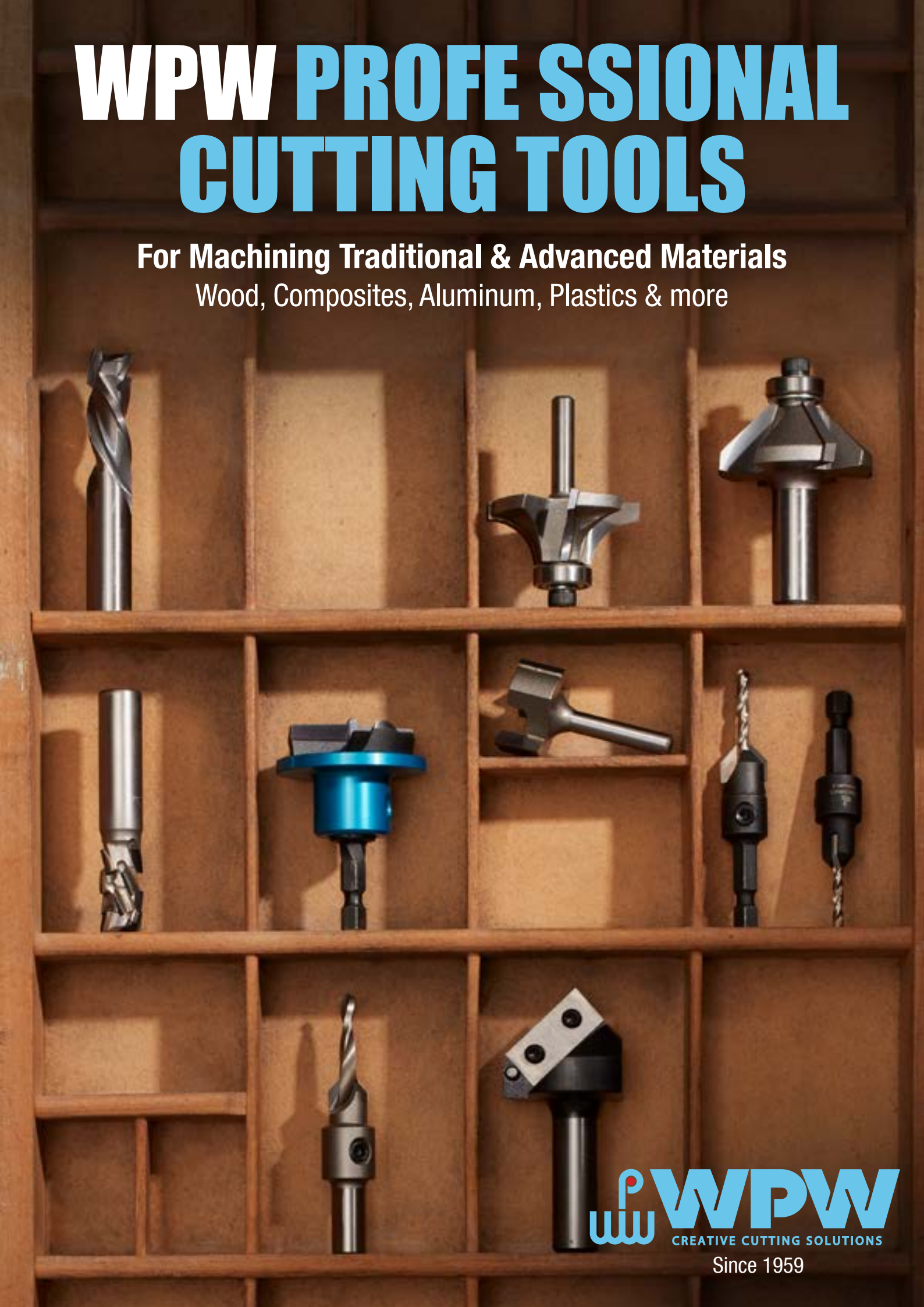
# WPW PROFE SSIONAL CUTTING TOOLS

**For Machining Traditional & Advanced Materials**

Wood, Composites, Aluminum, Plastics & more



WPW

CREATIVE CUTTING SOLUTIONS

Since 1959

# A Word from the CEO

Founder
Chanan Werebeychick
1926 - 2021

At the end of the 19th century, my grand grandfather studied the art of silver and gold plating in Poland and became an expert in this field. Later, he opened a factory for metal coating with his sons.

It was in 1959 that my father - Chanan Werebeychick, started his own small factory with 2 partners in Israel, which later became W.P.W. Engineering. I am now proud to say that I am the 4th generation in this honorable business of metal working.

We were the first company in Israel to produce Carbide Tipped Router Bits and we have gained tremendous experience over the years, giving professional solutions to cutting and drilling problems.

W.P.W. Engineering has since 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.

WPW exports its products to over 30 countries worldwide for over 45 years, under WPW brand as well as under private label. We export to North and South America, Western and Eastern Europe, South Africa, Australia and more.

There is no compromise in production quality and the quality of materials used. Our customers know and appreciate this and therefore are very loyal to WPW. You may find less expensive tools on the market, but as the old saying goes: “we are not rich enough to buy cheap...”

We invite you to partner with us and join the WPW family.

Michael Ravid
CEO

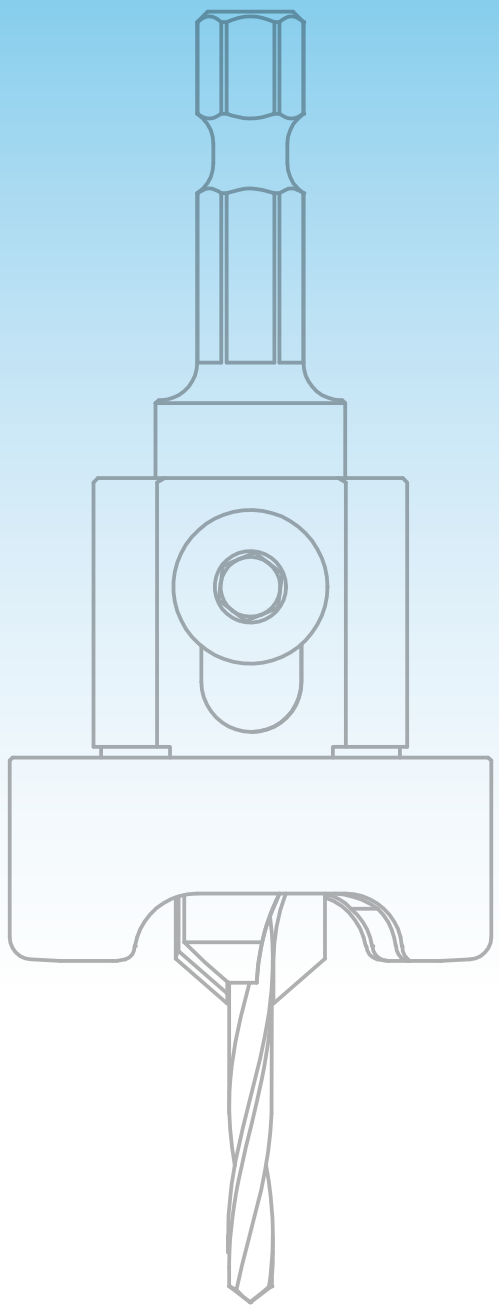
## QUALITY

WPW offers high quality tools, designed for efficient cutting 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.

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

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## Don't miss WPW's innovative solutions

WPW has added many new tools and creative ideas which you will find throughout this catalogue, marked with the special logos as follows:

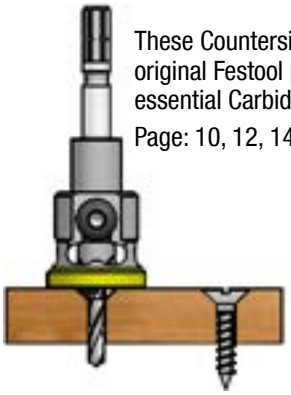
Unique tools which deserve special attention. Among them:
Countersinks with revolving Depth Stoppers, Stepped Drills, Drill adapters; As well as Router Bits with 3 and 4 flutes, Miniature Router Bits with 1/8" shank, Multi Trimmers etc.

Tools with hard K-Carbide grade - perfect for CNC routing and router table jobs. Excellent for cutting MDF and other hard material. Up to 200 % longer lifetime when cutting abrasive materials.

NANO Router Bits with 4.8mm (Miniature) Ball Bearing guide - Smallest in the market. These tools allow access to those tight spaces and sharp corners where regular tools won't go.

## WPW Countersinks for Festool Machines

**Countersinks with special shank – Compatible with Festool® CENTROTEC® chuck.**



These Countersinks complete the original Festool programme, adding essential Carbide Countersinks.

Page: 10, 12, 14

## New Economical Countersink & Stop Bits

**TCT Countersink with low friction Depth-Stop**

New economical Line.

The perfect choice for DIY!

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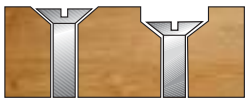

## Precise Countersink Depth Adjustment.

**Adapter with a Micrometric stopper for TCT Countersinks.**

The threaded adapter design enables depth fine-tuning for standard WPW Countersinks / Counterbores.

1mm pitch allows 0.1mm depth accuracy.

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**35 mm Hinge Boring bits with depth-stopper**

Prevents damaging the door.
Simple depth control.

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## Guitar Building Tools

**Binding/Rabbeting Set**

The sets include five different bearings that allow producing 10 different rabbets from just 1.0mm rabbet up to 5.5mm (in 0.5mm increments).

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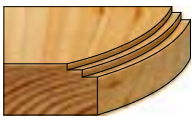

## Mission Impossible? Not Anymore

**Mini Straight Template Bits can do it!**

At last, top bearings can be the same diameter as the shank or even smaller. Templates can be produced the same size as the finished workpiece. A very important feature on routing complex shapes when small cutters are needed.

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## Smaller Bearings & Smaller Cutter

**Nano Router Bits - When size matters**

4.8mm Ball Bearing guide - Smallest in the market.
Look for the NB logo and find a selection of profiles.
You now have access to those tight spaces and sharp corners where regular tools won't go.

Page: 40, 42, 45, 47, 60, 63

## More Cutters / Flutes Better Surface Finish & Longer Tool life!

### 3 & 4 Flute bits - a comprehensive selection of unique tools.

Eliminates the time-consuming hand-filing and sanding that normally follows routing with 2 fluted tools in hard materials.
Page: 34, 37, 39, 41, 43, 46, 47, 48, 49, 50, 64, 65

## New line for SOLID SURFACE materials

### Solid Surface (Corian®) Router Bits

Widely used for producing kitchen countertops as well as in other applications.
A special Low Friction Delrin® Bearing Assembly protects the material surface, to achieve a clean surface.
Page 73 - 76

## Need to flatten exotic timber?

### Carbide Tipped Surfacing Bit

Used to resurface or plane machines Spoilboard.
Also, used when unusual timbers need to be flattened before they can be used.
For use in Router machines and CNC machines.
3 & 4 flutes for smooth surface finish.
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## One tool - many applications

### Slot & Undercut Bit with Variable Depth

For general slotting and undercutting.
Suitable for flooring.
Exchangeable bearings enable different depths of cut. Available with 3mm, 4mm, 5mm and 6mm slotting cutters.
Can be used in CNC (with no bearing) or in router machine.
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## Diamond Tipped PCD Router Bits

Designed for CNC machines, these tools last 30- 50 times longer than Carbide tipped tools.
Very efficient in cutting a wide variety of tough abrasive materials including composites, particleboard, MDF (either raw or laminated), HPL, veneers and hardwoods.
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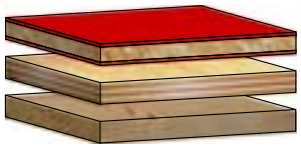

## Need a longer Tool but cannot find?

### Shank Extension Adapters

For CNC and Router machines. Allows deeper reach for wide range of applications.
Very useful when the bit is too short for the job.
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## More Applications

### Diamond Coated Router Bits

For cutting fiberglass, carbon fiber and other composite material.
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## Drilling and Countersinking

ACO
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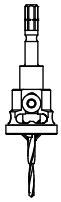
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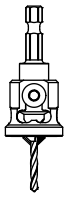
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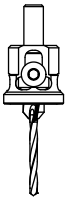
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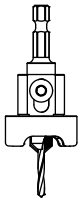
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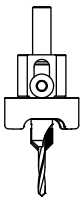
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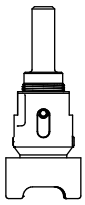
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TAF
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AC4
pg 12-13

AC2
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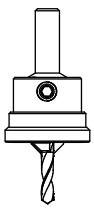
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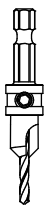
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AC4M
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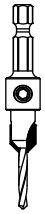
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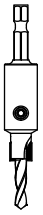
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AF
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ACD
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ASD
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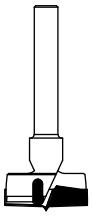
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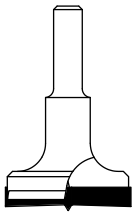
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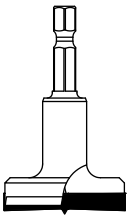
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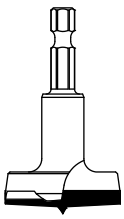
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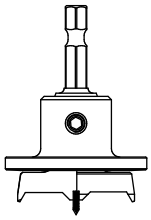
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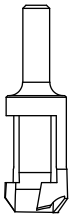
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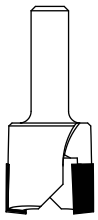
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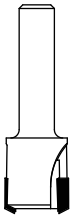
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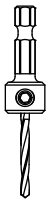
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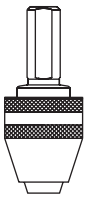
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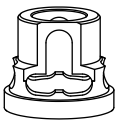
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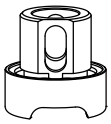
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## Industrial Drilling

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DDT
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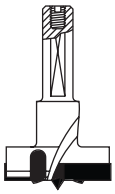
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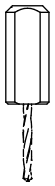
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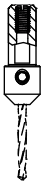
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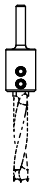
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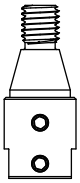
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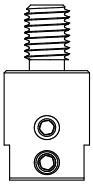
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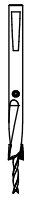
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## Diamond Router Bits

SR
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SR2
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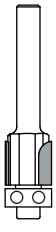
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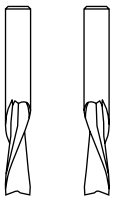
# Professional Router Bits



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SCC
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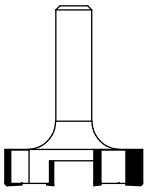

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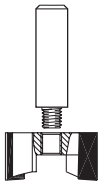

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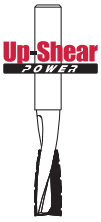


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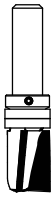

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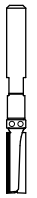

PFT
pg 40

PFM
pg 40

FPS
pg 41

F4P
pg 41

FPM
pg 41

F
pg 42-43

F
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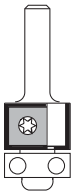
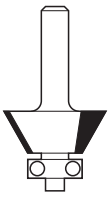


FM
pg 44

FT
pg 44

FS
pg 45

FSG
pg 45



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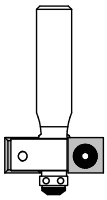
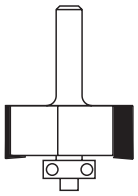
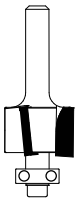
pg 45-46



EM
pg 48



E
pg 47-49



E3SG
pg 50

PP
pg 50

SCF
pg 51

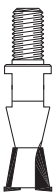
SCSL
pg 51

SE
pg 52

V
pg 53

VE
pg 53

Z
pg 54



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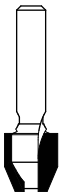
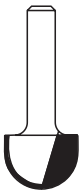
pg 54

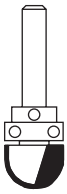


SF
pg 54

RU
pg 55



RB
pg 55



DB
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RBL
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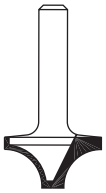
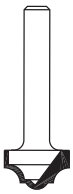
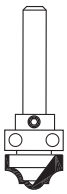
RV
pg 56



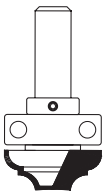
RH
pg 57



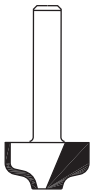
RC
pg 57



DC
pg 57



DM
pg 58



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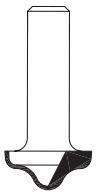
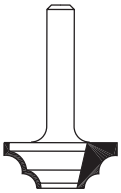
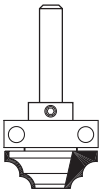
pg 58



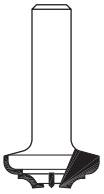
RRC
pg 58



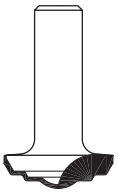
RR
pg 58



DL
pg 59

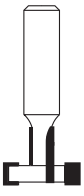


RR
pg 59



RRI
pg 59

MM
pg 59



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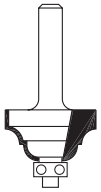
pg 59



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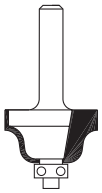
pg 60



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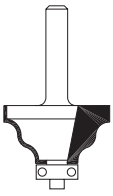
pg 60

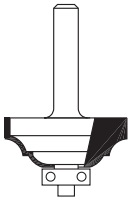


RJ
pg 60

RT
pg 61

RM
pg 61

RZ
pg 61



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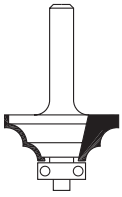
pg 62



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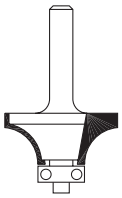
pg 62



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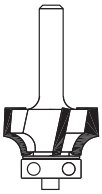
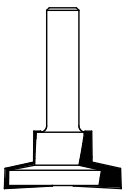
pg 62-63



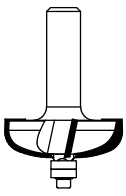
RWG
pg 64

RWB
pg 64

RF
pg 64

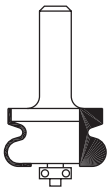


R045
pg 65

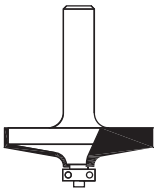


RECG
pg 65

RO
pg 65



RO
pg 65



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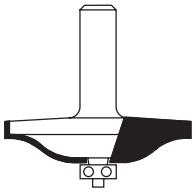
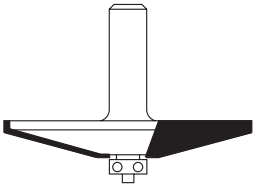
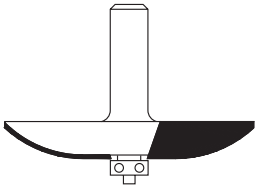
pg 66



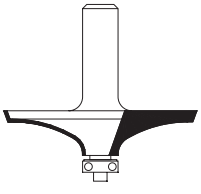
RK
pg 66



RK15
pg 66

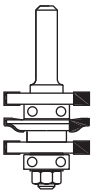


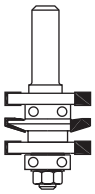
RK40
pg 66



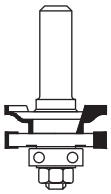
RK43
pg 67

# Professional Router Bits

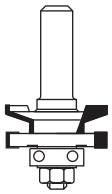

RGD2
pg 67

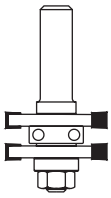

RGD5
pg 67

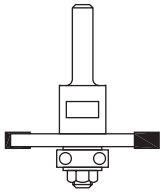
RG1
pg 68

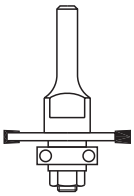

RG2
pg 68

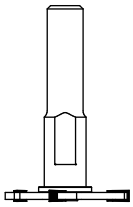
RG3
pg 68

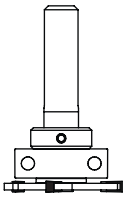

RG5
pg 69


RG6
pg 69


N3
pg 70


NB
pg 70


NU
pg 71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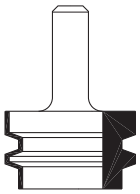
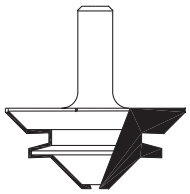
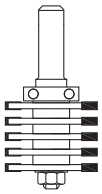
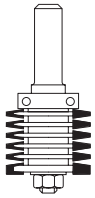
pg 71


FJ2
pg 72

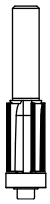

FJ4
pg 72

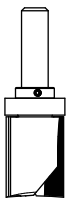

FJ5
pg 72


FJ6
pg 72

# Solid Surface Router Bits

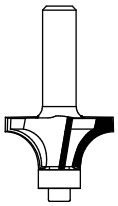
F2...C
pg 74

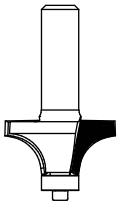

F4...C
pg 74

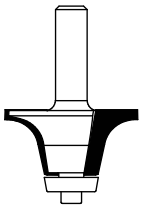

PF...C
pg 74

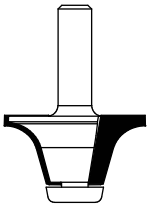
FPM...C
pg 74

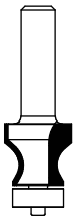
SLS...C
pg 74

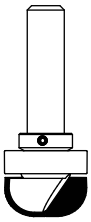

RWG...C
pg 75

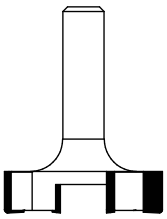

RW...C
pg 75

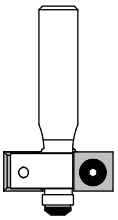

RVW...C
pg 75


RVW...C
pg 75

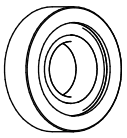

RO...C
pg 75


DB...C
pg 76


P4...C
pg 76


EM
pg 76

SCU
pg 76


B...C
pg 76

HP
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HF
pg 78

HPF
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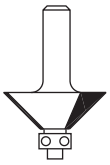
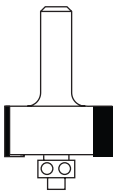
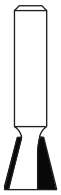
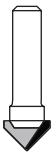
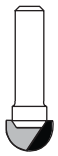

HSL
pg 79

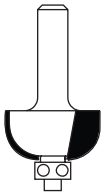

HE
pg 79

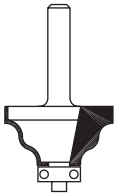

HZ
pg 79


HV
pg 80


HRB
pg 80

HRD
pg 80


HRZ
pg 80


HRJ
pg 80

HRW
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HS06
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# Replacement Parts

TX
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T
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B
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BD
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PF...
pg 84

N
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BR/BT
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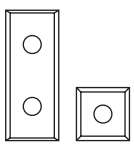

CM
pg 85

# DRILLING & COUNTERSINKING

WPW tips will help you to understand the issue of joining wood with screws and avoid the problem of wood cracking in decking and other joinery exterior and interior applications.

Innovative tools such as special stepped drills, Countersink & Stop and “Plug Sets”.

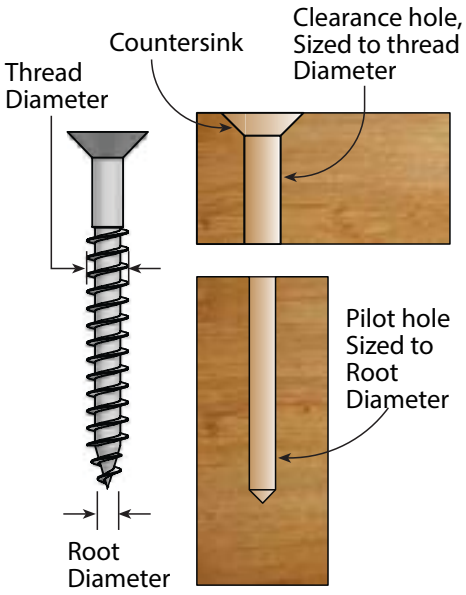
The tools are offered with round shank as well as with shanks that fit Quick-Change systems - 1/4” (6.3mm) hexagonal shank for standard system and special tools compatible with Festool® CENTROTEC® system.

| Year Developed | 2010 | 2013 | 2015 | 2016 |
|---|---|---|---|---|

WPW

# JOINING WOOD WITH SCREWS NOT SUCH A SIMPLE JOB.

## WPW tips will help you to understand this issue and avoid problems such as wood cracking




When joining 2 pieces of wood using screws, it is essential to predrill and countersink in order to achieve an esthetic and long lasting finish.

- Pilot hole - in the bottom board.
- Clearance hole and Countersink - in the top board.

The pilot hole diameter should roughly match the root diameter of the screw. It can be slightly smaller for softwood.
The clearance hole should be slightly larger than the diameter of the threads. For decking jobs, it is not usually necessary to pre-drill the bottom board, as it will always be hidden from view.

## Skipping the predrilling process

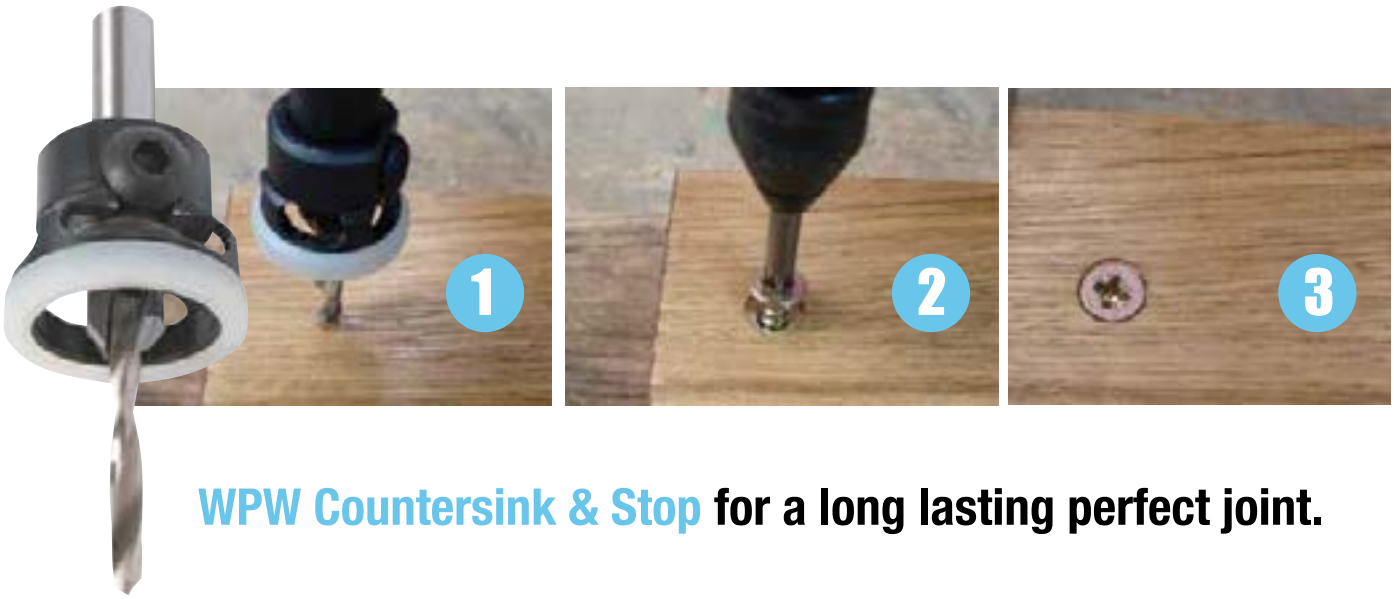
This might cause splitting and cracking of the wood or even breakage of the screw when using hardwood or composite materials.
This failure can appear immediately after driving the screw, or after a certain period, due to not enough room for the wood to expand and contract as moisture levels in the wood change due to it being exposed to the weather.
Avoid cracking - always predrill before driving a screw!

## Drilling a clearance hole and countersink

Clearance hole ensures a tight joint, allowing the screw to pass freely through the top board. The screw engages only the bottom board. Hence, the upper board is pulled down to the bottom board.
Countersink is needed to set screws flush or below the surface of the board!
Depth-Stop helps to always achieve the same depth of the countersink.

**WPW!**
**We need your help!**

**No problem! Use WPW Countersink & Stop.**




**WPW Countersink & Stop for a long lasting perfect joint.**

# Drill Diameter VS Screw size

We are often asked: "Which drill should I use for a specific screw?"
The answer is not simple because of the difference between the Pilot hole Dia. and the Clearance hole Dia.
Different applications require different holes:

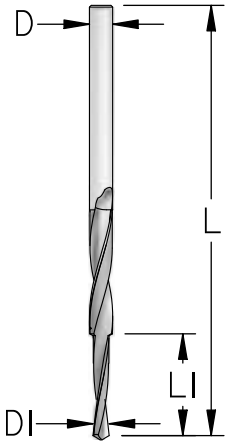
1. For standard woodworking – Countersink, Clearance hole and Pilot hole. Use stepped drills.
   A reasonable alternative would be taper point drills, which are stronger.
2. Decking – Only Countersink and Clearance hole. Not necessary to pre-drill the bottom board, as it will always be hidden from view.
3. Attaching furniture fittings like hinges – Only Pilot hole is needed.

# WPW Stepped drills.
# The ultimate solution is now available

Use the following table for matching between the stepped drills and the screw size / Screw No.

| Drill No. | Clearance Hole Dia. | Pilot Hole Dia. | Total Length | Step Length | Suggested Screw size | | Suggested Screw No | |
|---|---|---|---|---|---|---|---|---|
| | D | D1 | L | L1 | | | | |
| | mm | mm | mm | mm | S/W | H/W | S/W | H/W |
| DR28040 | 4 | 2.8 | 75 | 19 | 4MM | 3.5MM | #8 | #6 |
| DR32044 | 4.4 | 3.17 | 80 | 22 | 4.5MM | 4MM | #9-10 | #8 |
| DR35050 | 5 | 3.5 | 86 | 25 | 5MM | 4.5MM | #12 | #9-10 |

S/W = Soft wood
H/W = Hard Wood
Drill a smaller hole for soft wood - roughly 10-15% smaller.
**TIP:** Use a drill press whenever possible

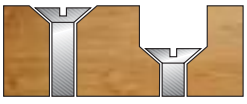



# Carbide Tipped Countersinks with Stepped Drills

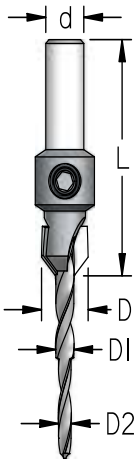
## ACO...M

### Carbide Tipped Countersink

Stepped HSS drill included. Round shank.



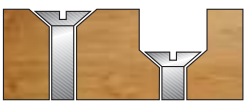
| Tool No. | D1 | D2 | D | L | d |
|---|---|---|---|---|---|
| AC04005M | 4 | 2.8 | 10 | 44 | 8 |
| AC04405M | 4.4 | 3.2 | 11.1 | 44 | 8 |
| AC05007M | 5 | 3.5 | 12 | 51 | 9.5 |



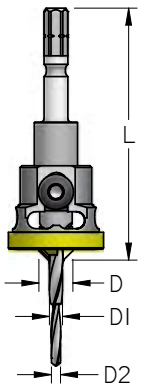

## AFP...M

### Countersinks with Low Friction Depth-Stopper

Compatible with Festool® CENTROTEC® system
Stepped HSS drill included.



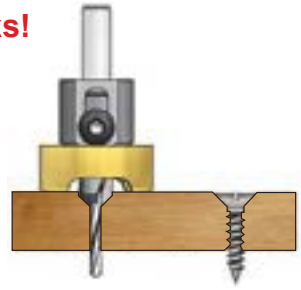
| Tool No. | D1 | D2 | D | L |
|---|---|---|---|---|
| AFP4004M | 4 | 2.8 | 9.5 | 74 |
| AFP4404M | 4.4 | 3.2 | 12.0 | 77 |
| AFP5004M | 5.0 | 3.5 | 12.7 | 77 |



# CARBIDE TIPPED COUNTERSINK WITH DEPTH-STOP

**For clean surface and simple depth control. No scratches! No burn marks!**

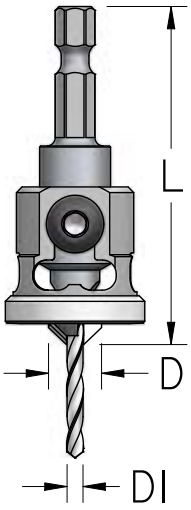
Unique adjustable depth-stops, developed for quick and easy adjustment of the countersink depth. The user-friendly design enables easy control of the drill length and its replacement.
Disassembly of the Depth-Stop is not needed.
Special double-sided hex key (1/8" x 4) included.



## AQP

### Countersink with Low friction Depth-Stop

Antifriction polymer Collar. HSS drill included.
Quick-Change 1/4" (6.3mm) HEX shank.

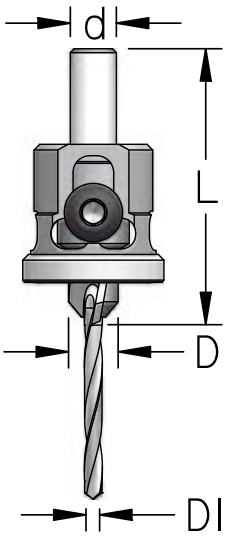



| Tool No. | D1 | D | L |
|---|---|---|---|
| AQP2004S | 2 | 9.5 | 60 |
| AQP2404S | 2.4 | 9.5 | 60 |
| AQP2504S | 2.5 | 9.5 | 60 |
| AQP2804SC | 2.8 | 9.5 | 60 |
| AQP3004SC | 3 | 9.5 | 60 |
| AQP3204SC | 3.2 | 9.5 | 60 |
| AQP3504SC | 3.5 | 10 | 60 |
| AQP3604SC | 3.6 | 12.7 | 60 |
| AQP4004SC | 4 | 9.5 | 60 |
| AQP4014SC | 4 | 10 | 60 |
| AQP4504SC | 4.5 | 9.5 | 70 |
| AQP5004SC | 5 | 12.7 | 70 |
| AQP6004SC | 6 | 12.7 | 70 |

## ATP

### Countersink with Low friction Depth-Stop

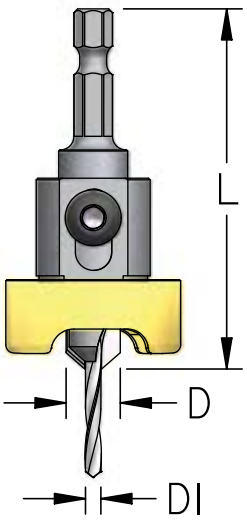
Antifriction polymer Collar.
Round shank. Slow Spiral HSS drill included.




| Tool No. | D1 | D | L | d |
|---|---|---|---|---|
| ATP2405D | 2.4 | 8.5 | 49 | 8 |
| ATP3005D | 3 | 10 | 49 | 8 |
| ATP3205D | 3.2 | 9.5 | 49 | 8 |
| ATP3285D | 3.2 | 12.7 | 51 | 8 |
| ATP3505D | 3.5 | 10 | 49 | 8 |
| ATP3605D | 3.6 | 10 | 49 | 8 |
| ATP4005D | 4 | 10 | 50 | 8 |
| ATP4405D | 4.4 | 11.1 | 50 | 8 |
| ATP4807D | 4.8 | 11.1 | 51 | 9.5 |
| ATP4817D | 4.8 | 12.7 | 51 | 9.5 |
| ATP5005D | 5 | 10 | 50 | 8 |
| ATP5007D | 5 | 12 | 51 | 9.5 |
| ATP6007D | 6 | 12.7 | 51 | 9.5 |

## ABB

### Countersink & Stop PRO



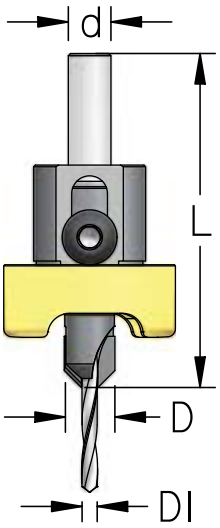

Non-Friction metal stopper with thrust ball bearing.

Assures a strong and long lasting tool.
Efficient and easy chip evacuation.
Quick-Change 1/4" (6.3mm) HEX shank.
HSS drill included.

| Tool No. | D1 | D | L |
|---|---|---|---|
| ABB2004S | 2.0 | 9.5 | 66 |
| ABB2404S | 2.4 | 9.5 | 66 |
| ABB3204SC | 3.2 | 9.5 | 66 |
| ABB3604SC | 3.6 | 9.5 | 66 |
| ABB4004SC | 4 | 9.5 | 66 |
| ABB4404SC | 4.4 | 12.7 | 70 |
| ABB4504SC | 4.5 | 12 | 70 |

## ALB

### Countersink & Stop PRO




Non-Friction metal stopper with thrust ball bearing.

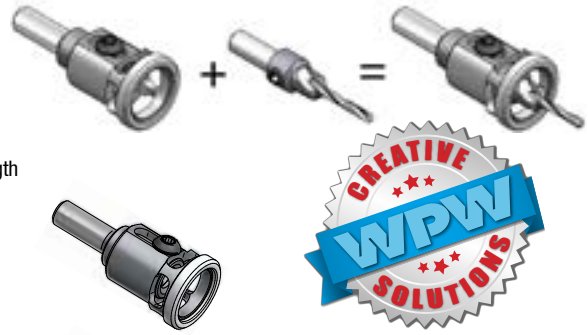
Assures a strong and long lasting tool.
Efficient and easy chip evacuation.
Round shank.
Short HSS drill included.

| Tool No. | D1 | D | L | d |
|---|---|---|---|---|
| ALB5017SC | 5 | 10 | 65 | 10 |
| ALB5007SC | 5 | 12 | 65 | 10 |
| ALB6007SC | 6 | 12.7 | 65 | 10 |

# Countersink Adaptors

**Fits most standard WPW Countersinks and counterbores with 8mm shank**
**No scratches! No burn marks!**

Combines the professional TCT standard WPW countersinks and counterbores (8mm shank), with WPW unique adjustable depth-stoppers. User-friendly design enables easy control of the drill length and its replacement.




## TACP806

Round Shank Adapter with Low-Friction Depth-Stop

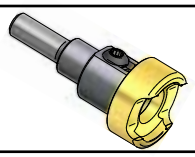
9.5mm shank. Special double-sided hex key (1/8" x 4) included.



## TACB806

Round Shank Adapter with Non-Friction Depth-Stop

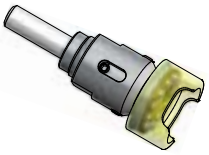
9.5mm shank. Special double-sided hex key (1/8" x 4) included.



## TACBM806

Micrometric Adapter for Precise Depth Adjustment, with Non-Friction Depth-Stop

The threaded design enables fine tuning of the depth of a Countersink / Counterbore. 1mm pitch allows 0.1mm depth accuracy. 9.5mm shank.

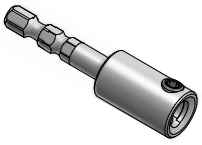


## TAF080H

Adapter with Hybrid shank

Fits both Festool® CENTROTEC® drill machines and standard quick-change chucks for ¼" (6.3mm) HEX shank

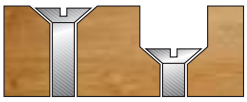
At last you can use WPW professional TCT countersinks and counterbores (8mm shank), in almost any drilling machine.



## AC0...D

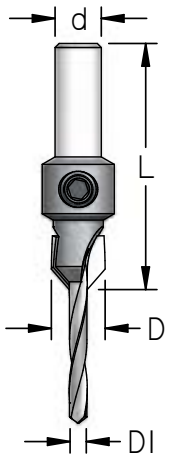
Carbide Tipped Countersink

Slow Spiral HSS drill included.
Round shank.



| Tool No. | D1 | D | L | d |
|---|---|---|---|---|
| AC02005D | 2.0 | 8.5 | 44 | 8 |
| AC02405D | 2.4 | 8.5 | 44 | 8 |
| AC02805D | 2.8 | 9.5 | 44 | 8 |
| AC03005D | 3 | 10 | 44 | 8 |
| AC03215D | 3.2 | 8 | 44 | 8 |
| AC03205D | 3.2 | 9.5 | 44 | 8 |
| AC03285D | 3.2 | 12.7 | 49 | 8 |
| AC03605D | 3.6 | 10 | 44 | 8 |
| AC04005D | 4 | 10 | 44 | 8 |
| AC04405D | 4.4 | 11.1 | 44 | 8 |

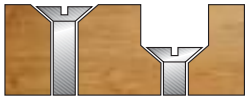
| Tool No. | D1 | D | L | d |
|---|---|---|---|---|
| AC04807D | 4.8 | 11.1 | 51 | 9.5 |
| AC04817D | 4.8 | 12.7 | 49 | 9.5 |
| AC05007D | 5 | 12 | 51 | 9.5 |
| AC05607D | 5.6 | 12 | 47 | 9.5 |
| AC06007D | 6 | 12.7 | 47 | 9.5 |
| AC06317D | 6.3 | 12.7 | 65 | 10 |



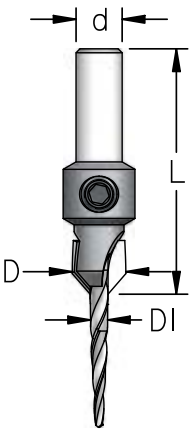

## AC0...T

Carbide Tipped Countersink

Taper Point HSS drill included.
Round shank.



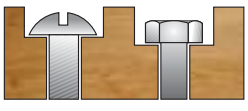
| Tool No. | D1 | D | L | d |
|---|---|---|---|---|
| AC03205T | 3.2 | 9.5 | 44 | 8 |
| AC03605T | 3.6 | 10 | 44 | 8 |
| AC04005T | 4 | 10 | 44 | 8 |
| AC04405T | 4.4 | 11.1 | 44 | 8 |
| AC04807T | 4.8 | 11.1 | 51 | 9.5 |



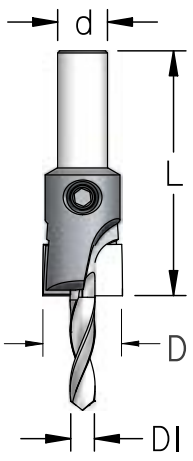

## AC4...D

Carbide Tipped Counterbore (flat bottom)

Slow Spiral HSS drill included. Round shank.



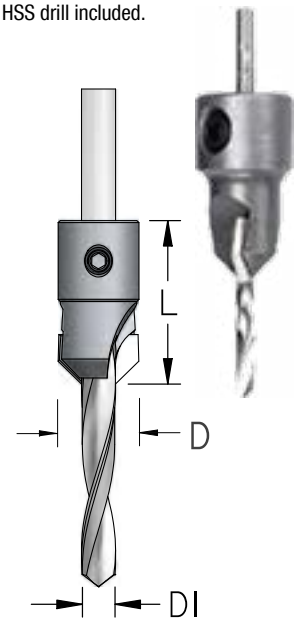
| Tool No. | D1 | D | L | d |
|---|---|---|---|---|
| AC43205D | 3.2 | 9.5 | 48 | 8 |
| AC44005D | 4 | 10 | 48 | 8 |
| AC44405D | 4.4 | 10 | 48 | 8 |
| AC44817D | 4.8 | 12.7 | 48 | 9.5 |
| AC45617D | 5.6 | 12.7 | 48 | 9.5 |
| AC46017D | 6 | 12.7 | 48 | 9.5 |
| AC46317D | 6.3 | 12.7 | 48 | 9.5 |

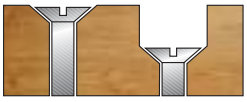


# AC2/AS2

## Carbide Tipped Countersink - Shankless

HSS drill included.



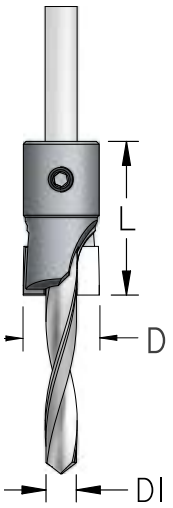



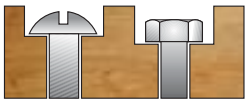
| Tool No. | D1 | D | L |
|---|---|---|---|
| AS22800D | 2.8 | 9.5 | 28 |
| AS23000D | 3 | 9.5 | 28 |
| AS23200D | 3.2 | 9.5 | 28 |
| AC21232D | 3.2 | 12.7 | 32 |
| AS23500D | 3.5 | 9.5 | 28 |
| AS23600D | 3.6 | 9.5 | 28 |
| AS24000D | 4 | 9.5 | 30 |
| AC21240D | 4 | 12.7 | 32 |
| AS24400D | 4.4 | 9.5 | 30 |
| AS24810D | 4.8 | 12.7 | 30 |
| AC21648D | 4.8 | 16 | 32 |
| AS25610D | 5.6 | 12.7 | 30 |
| AC21656D | 5.6 | 16 | 32 |
| AS26310D | 6.3 | 12.7 | 30 |
| AC26320D | 6.3 | 16 | 32 |
| AC27020D | 7 | 16 | 39 |
| AC28020D | 8 | 16 | 39 |
| AC28030D | 8 | 19 | 39 |
| AC29530S | 9.5 | 19 | 39 |
| AC22595S | 9.5 | 25.4 | 52 |
| AC22811D | 11.1 | 28.6 | 52 |

# AC4

## Carbide Tipped Counterbore - Shankless

HSS drill included.



| Tool No. | D1 | D | L |
|---|---|---|---|
| AC49540D | 4 | 9.5 | 32 |
| AC49548D | 4.8 | 9.5 | 32 |
| AC41248D | 4.8 | 12.7 | 32 |
| AC41263D | 6.3 | 12.7 | 32 |
| AC46320D | 6.3 | 16 | 32 |
| AC41963D | 6.3 | 19 | 38 |
| AC42263D | 6.3 | 22.2 | 38 |
| AC47020D | 7 | 16 | 38 |
| AC48020D | 8 | 16 | 38 |
| AC48030D | 8 | 19 | 38 |
| AC49530S | 9.5 | 19 | 38 |
| AC42595S | 9.5 | 25.4 | 51 |
| AC42512S | 12.7 | 25.4 | 51 |
| AC42812S | 12.7 | 28.6 | 51 |

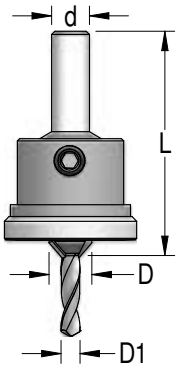
# ECONOMICAL COUNTERSINKS FOR EVERY CRAFTSMAN AND DIY

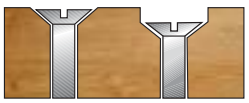
# HCP

## TCT Countersink with Low friction Depth-Stop

Antifriction polymer Collar, HSS drill included. Round shank

| Tool No. | D | D1 | D | L |
|---|---|---|---|---|
| HCP2505S | 9.0 | 2.5 | 47 | 8 |
| HCP3205SC | 9.5 | 3.2 | 47 | 8 |
| HCP4005SC | 10.5 | 4.0 | 47 | 8 |
| HCP4505SC | 11.0 | 4.5 | 47 | 8 |



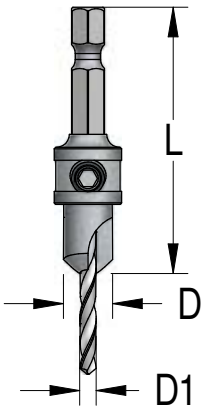



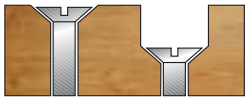
# HS

## HS Countersink

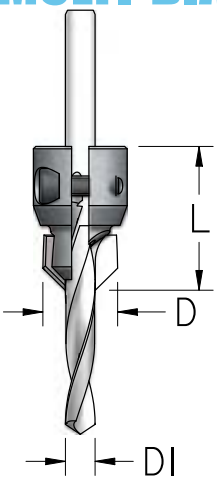
HSS drill included. Quick-Change 1/4" (6.3mm) HEX shank

| Tool No. | D1 | D | L |
|---|---|---|---|
| HS02504S | 2.5 | 9.5 | 51 |
| HS03004S | 3 | 9.5 | 51 |
| HS03204S | 3.2 | 9.5 | 51 |
| HS03504S | 3.5 | 9.5 | 51 |
| HS04004S | 4 | 9.5 | 51 |



# MULTI-DIAMETER TCT COUNTERSINKS & COUNTERBORES



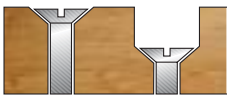

## Carbide tipped. Shankless, for assembling on drills.

One tool fits over drills of different sizes, for a quick and easy change on the job. Rather than have a set of tools that may not be the size you need, you could replace them with one adjustable tool.

Note: Counterbore and Countersink Dia. (D) depends on drill Dia. (D1)

# ACM

## Multi-Diameter Countersink

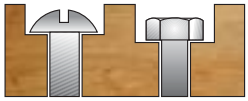


Slow Spiral HSS drill included.

| Tool No. | D1 | D | L |
|---|---|---|---|
| ACM3070D | 3-7.2 | 12-16 | 29 |
| ACM6010D | 6-10 | 15.5-19.5 | 34 |

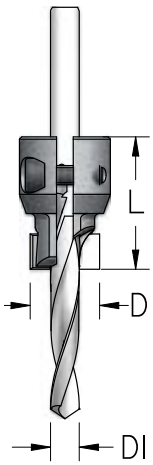
# AC4M

## Multi-Diameter Counterbore



Slow Spiral HSS drill included.

| Tool No. | D1 | D | L |
|---|---|---|---|
| AC4M370D | 3-7.2 | 11.5-15.5 | 28 |
| AC4M610D | 6-10 | 21-25 | 33 |

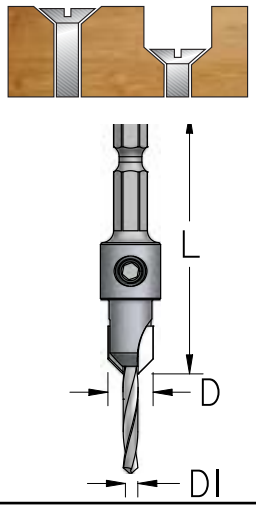


# AS0...S

## Carbide Tipped Countersinks

HSS drill included. Quick-Change 1/4" (6.3mm) HEX shank.

| Tool No. | D1 | D | L |
|---|---|---|---|
| AS02004S | 2 | 9.5 | 54 |
| AS02404S | 2.4 | 9.5 | 54 |
| AS02504S | 2.5 | 9.5 | 54 |
| AS02804S | 2.8 | 9.5 | 54 |
| AS03004S | 3.0 | 9.5 | 54 |
| AS03204S | 3.2 | 9.5 | 54 |
| AS03504S | 3.5 | 9.5 | 54 |
| AS03604S | 3.6 | 12.7 | 54 |
| AS04004S | 4 | 9.5 | 54 |
| AS04804S | 4.8 | 12.7 | 70 |
| AS05004S | 5 | 12.7 | 70 |
| AS06004S | 6 | 12.7 | 70 |



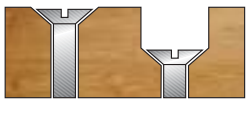

# AF

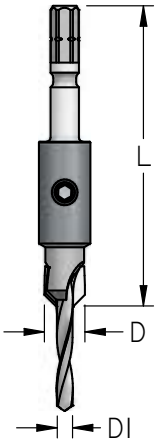
## Carbide Tipped Countersinks

Compatible with Festool® CENTROTEC® system

Slow Spiral HSS drill included

| Tool No. | D1 | D | L |
|---|---|---|---|
| AF02404D | 2.4 | 9.5 | 74 |
| AF02804D | 2.8 | 9.5 | 74 |
| AF03204D | 3.2 | 9.5 | 74 |
| AF03604D | 3.6 | 9.5 | 74 |
| AF04004D | 4.0 | 9.5 | 74 |
| AF04404D | 4.4 | 12.0 | 77 |
| AF05004D | 5.0 | 12.7 | 77 |



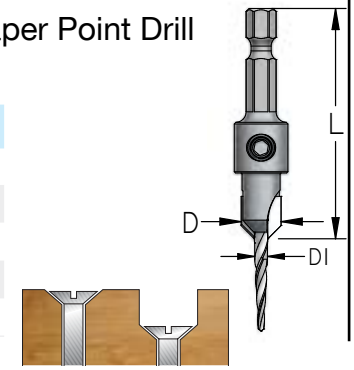



# AS0...T

## TCT Countersink with Taper Point Drill

Quick-Change 1/4" (6.3mm) HEX shank.

| Tool No. | D1 | D | L |
|---|---|---|---|
| AS02404T | 2.4 | 9.5 | 54 |
| AS03204T | 3.2 | 9.5 | 54 |
| AS03604T | 3.6 | 12.7 | 54 |
| AS04004T | 4 | 9.5 | 54 |
| AS04804T | 4.8 | 12.7 | 70 |

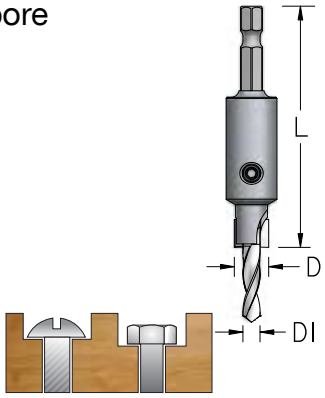



# AS4...D

## Carbide Tipped Counterbore

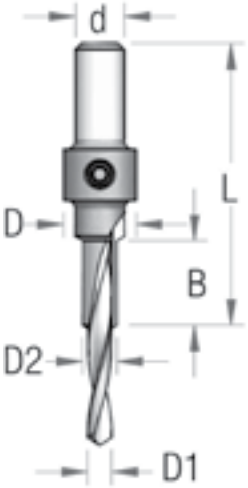
Slow Spiral HSS drill included.
Quick-Change 1/4" (6.3mm) HEX shank.

| Tool No. | D1 | D | L |
|---|---|---|---|
| AS44004D | 4 | 9.5 | 55 |
| AS44804D | 4.8 | 9.5 | 55 |
| AS44814D | 4.8 | 12.7 | 70 |
| AS45014D | 5 | 14 | 70 |
| AS46014D | 6 | 15 | 70 |
| AS46304D | 6.3 | 12.7 | 70 |
| AS46314D | 6.3 | 15.9 | 70 |




# 3 STEPS DRILL BITS

For Connecting Screws (Confirmat, Directa etc.).
Performs 3 tasks in one operation:
Pilot hole, Clearance hole and Countersink.



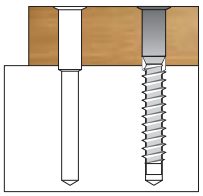
# ACD

## 3 Steps Drill for laminated chipboard

Countersink *DHN treated. Slow Spiral HSS drill included. Round shank.

| Tool No. | D1 | D2 | D | B | L | d |
|---|---|---|---|---|---|---|
| ACD0507D | 3.5 | 5 | 8 | 15 | 53 | 10 |
| ACD0657D | 4.4 | 6.5 | 9.6 | 9.5 | 50 | 10 |
| ACD0707KD | 5 | 7 | 10 | 10 | 50 | 10 |
| ACD0707D | 5 | 7 | 10 | 19 | 59 | 10 |

*DHN - Advanced surface treatment for extended life

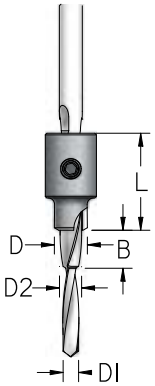


# ACD

## 3 Steps Drill for MDF and other materials

HS Shankless countersink.
Stepped HSS drill included.
Replacement drill: DR50070

| Tool No. | D1 | D2 | D | B | L |
|---|---|---|---|---|---|
| ACD0700D | 5 | 7 | 10 | 5-25 | 30 |

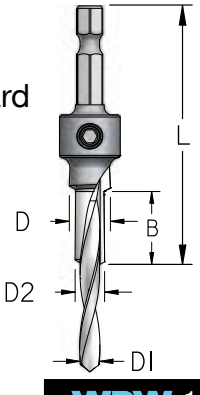



# ASD

## 3 Steps Drill for laminated chipboard

Countersink *DHN treated.
Slow Spiral HSS drill included.
Quick-Change 1/4" (6.3mm) HEX Shank.

| Tool No. | D1 | D2 | D | B | L |
|---|---|---|---|---|---|
| ASD0504D | 3.5 | 5 | 8 | 15 | 60 |
| ASD0704D | 5 | 7 | 10 | 19 | 79 |



# CYLINDER - HINGE BORING BITS

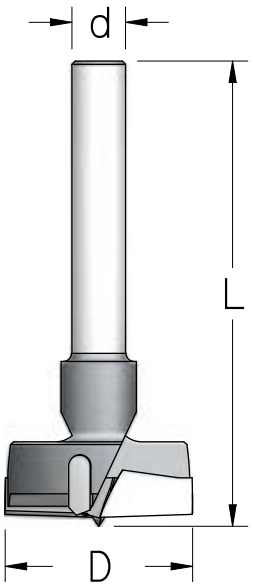
Carbide tipped with a centering point.
Typically used for recessing circular door hinges. For Blind holes and Through holes.

## MP

### Professional TCT Boring Bits

2 straight cutting edges and 2 spurs.
Round shank.

| Tool No. | D | L | d |
|---|---|---|---|
| MP15007 | 15 | 85 | 10 |
| MP19007 | 19 | 85 | 10 |
| MP20007 | 20 | 85 | 10 |
| MP22007 | 22 | 85 | 10 |
| MP25007 | 25 | 85 | 10 |
| MP26007 | 26 | 85 | 10 |
| MP30007 | 30 | 85 | 10 |
| MP35007 | 35 | 85 | 10 |
| MP38007 | 38 | 85 | 10 |
| MP40007 | 40 | 85 | 10 |
| MP45007 | 45 | 85 | 10 |
| MP50007 | 50 | 85 | 10 |

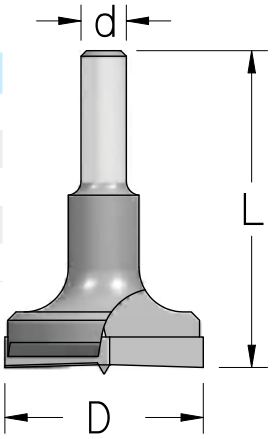



## HMP

### Economy TCT Boring Bits

2 straight cutting edges. No spurs.
Round shank.
For best results use drill press.

| Tool No. | D | L | d |
|---|---|---|---|
| HMP2005 | 20 | 57 | 8 |
| HMP2505 | 25 | 57 | 8 |
| HMP2605 | 26 | 57 | 8 |
| HMP3005 | 30 | 57 | 8 |
| HMP3505 | 35 | 57 | 8 |

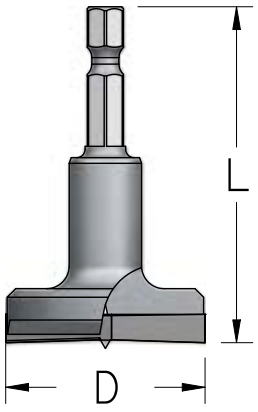



## HMPS

### Economy TCT Boring Bits

2 straight cutting edges. No spurs.
Quick-Change 1/4" (6.3mm) HEX shank.
For best results use drill press.

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

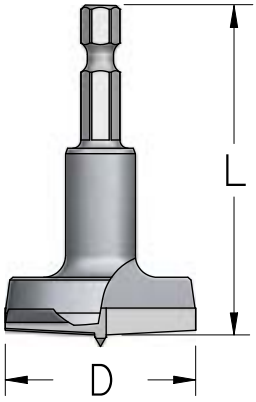



## HMPT

### TCT Boring Bits

2 straight cutting edges.
Special design for better results.
Quick-Change 1/4" (6.3mm)
HEX shank.

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

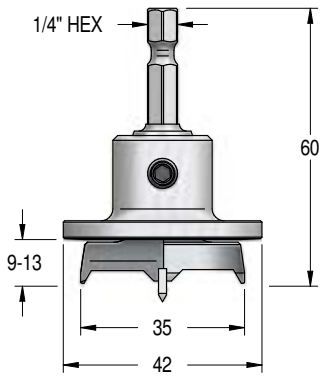



# BORING BITS WITH DEPTH-STOP HMPAL

Unique adjustable Aluminum depth-stop allows control of depth of blind holes when recessing circular door hinges.

**Prevents from damaging the door.**
**Simple depth control.**

### HMPAL354

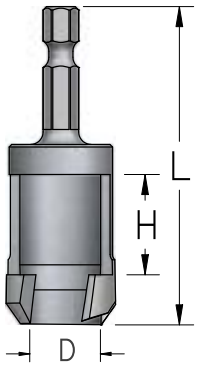


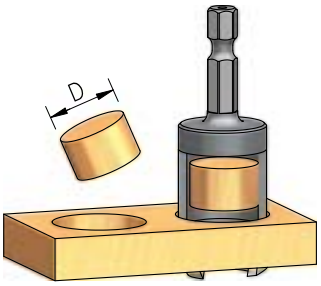
# MNS

## Plug Cutters - Self Ejecting

Heat-treated and DHN* treated.
One Flute.
For best results use drill press.
Quick-Change 1/4" (6.3mm) HEX Shank.

| Tool No. | D | H max | L |
|---|---|---|---|
| MNS0804 | 8 | 19 | 56 |
| MNS0954 | 9.5 | 19 | 62 |
| MNS1004 | 10 | 19 | 62 |
| MNS1204 | 12 | 19 | 62 |
| MNS1274 | 12.7 | 19 | 62 |
| MNS1504 | 15 | 19 | 63 |
| MNS1604 | 16 | 19 | 63 |



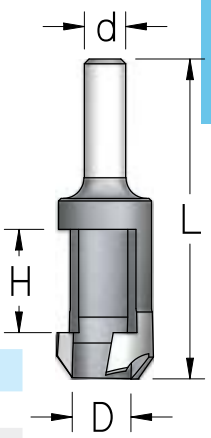




*DHN - Advanced surface treatment for extended life

# MN

## Plug Cutters - Self Ejecting

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



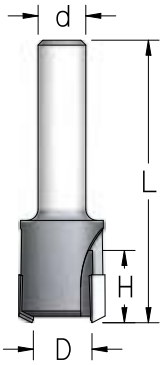

| Tool No. | D | H max | L | d |
|---|---|---|---|---|
| MN09505 | 9.5 | 19 | 61 | 8 |
| MN10005 | 10 | 19 | 61 | 8 |
| MN12005 | 12 | 19 | 61 | 8 |
| MN12705 | 12.7 | 19 | 61 | 8 |
| MN16007 | 16 | 19 | 75 | 10 |
| MN19007 | 19 | 19 | 75 | 10 |
| Extra long design - up to 50mm length of plugs | | | | |
| MNL0955 | 9.5 | 50 | 94 | 8 |

# MNT

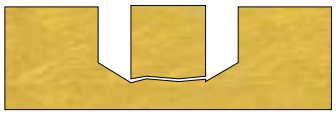
## Carbide Tipped Plug Cutters - 2 flutes

Drill press must be used.
For making plugs up to 16mm Long.

| Tool No. | | D | H max | L |
|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm |
| MNT0953 | MNT0954 | 9.5 | 16 | 58 |
| MNT1003 | MNT1004 | 10 | 16 | 58 |
| MNT1203 | MNT1204 | 12 | 16 | 58 |
| MNT1603 | MNT1604 | 16 | 16 | 58 |




| Tool No. | | D | H max | L |
|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm |
| MNT0952 | MNT0958 | 9.5 | 16 | 65 |
| MNT1002 | MNT1008 | 10 | 16 | 65 |
| MNT1272 | MNT1278 | 12.7 | 16 | 65 |
| MNT1602 | MNT1608 | 16 | 16 | 65 |
| MNT1902 | MNT1908 | 19 | 16 | 65 |

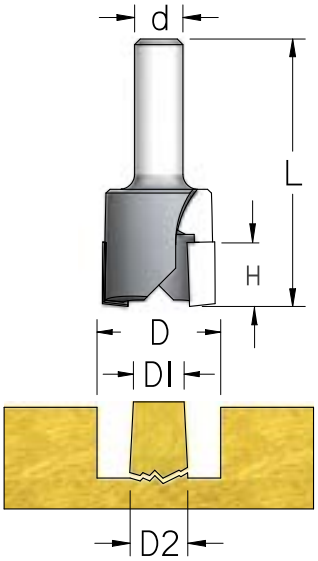


# MNK

## Tapered TCT Plug Cutters - 2 flutes

A drill press must be used. For making tapered plugs up to 16mm long.
Ensures a tight fit - no gap around the plug.

This 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.

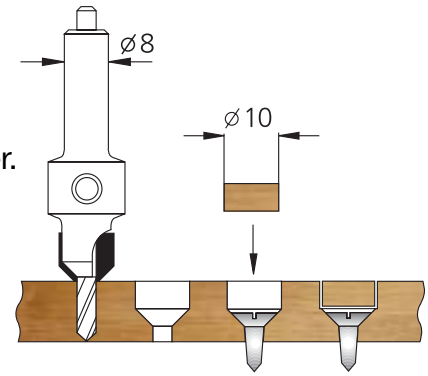



| Tool No. | | D1 | D2 | D | H max | L |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm |
| MNK1302 | MNK1308 | 12 | 13 | 27.5 | 16 | 72 |
| MNK1602 | MNK1608 | 15.2 | 16.2 | 29.5 | 16 | 71 |
| MNK2002 | MNK2008 | 18.3 | 19.5 | 33 | 16 | 71 |

# COUNTERSINK & PLUG CUTTER SET

For decorative concealing of screw heads with wooden plugs.
The sets include TCT countersink bit and a matching plug cutter.

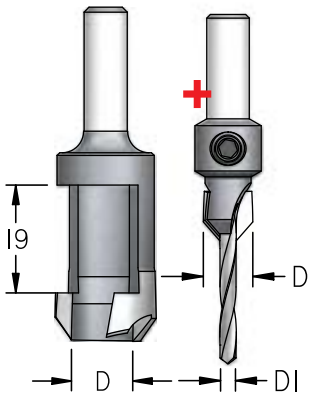
After driving the screw, dip the wooden plug in glue. Match up the grain orientation.
Then insert the plug and tap it down with a hammer.
Lastly, trim the plug flush, and use a sanding block to complete the job.




## PL

### Countersink & Plug Set

Includes TCT countersink bits with different drill diameters
and a 10mm plug cutter (MN10005), which fits with all countersinks.
Round shanks 8mm.



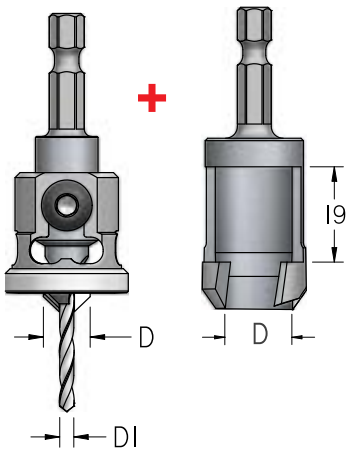

| Set No. | Drill Dia. (D1) | Plug Dia (D) | Replacement Countersink |
|---|---|---|---|
| One Countersink + Plug Cutter | | | |
| PL10305 | 3.0 | 10 | AC10305S |
| PL10325 | 3.2 | 10 | AC10325S |
| PL10355 | 3.5 | 10 | AC10355S |
| PL10365 | 3.6 | 10 | AC10365S |
| PL10405 | 4.0 | 10 | AC10405S |
| PL10445 | 4.4 | 10 | AC10445S |
| PL10505 | 5.0 | 10 | AC10505S |
| 4 Countersinks + Plug Cutter | | | |
| PL40005 | 3.0, 3.5, 4.0, 5.0 | 10 | |
| PL41005 | 3.2, 3.6, 4.0, 4.4 | 10 | |

## PLP

### Countersink & Stop Plug Set

Includes one TCT countersink bit with Depth-Stop
and a matching plug cutter.
Unique adjustable Low Friction Depth-Stop for clean surface.
Quick-Change 1/4" (6.3mm) HEX Shanks.

| Set No. | Drill Dia. (D1) | Plug Dia (D) |
|---|---|---|
| One Countersink + Plug Cutter | | |
| PLP1254 | 2.5 | 8 |
| PLP1354 | 3.5 | 10 |
| PLP1454 | 4.5 | 12 |
| PLP1604 | 6.0 | 15 |




# COUNTERSINK COMBINATION SETS

## AQPS

### Countersink & Stop 3pcs Set

Includes 3 TCT countersinks and one
Low friction Depth-Stop which fits all 3 countersinks.
Quick-Change 1/4" (6.3mm) HEX Shanks.

| Set No. | Contains |
|---|---|
| AQPS014 | AQ02504S - 2.5mm countersink |
| | AQP3004SC - 3.0mm countersink & stop |
| | AQ04004SC - 4.0mm countersink |

## QCS

### Countersink & Plug 7pcs Set

Includes 3 TCT countersinks, a matching plug cutter,
Quick-Change Chuck and screwdriver bits.
Quick-Change 1/4" (6.3mm) HEX Shanks.

| Set No. | Contains |
|---|---|
| QCS1104 | AS02504S - 2.5mm countersink |
| | AS03004S - 3.0mm countersink |
| | AS04004S - 4.0mm countersink |
| | MNS0954 - 9.5mm Plug Cutters |
| | QCH6306 - Quick-Change Chuck |
| | 3 Power screwdriver bits |

# HMZ...4

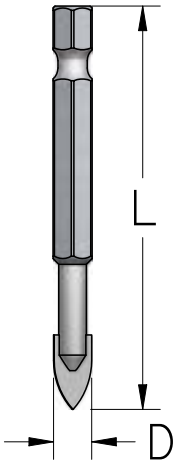
## TCT Glass & Tile drills

For use in glass, porcelain, tile and mirrors.
Very useful for drilling kitchen or bathroom ceramic tiles, mirrors, un-toughened glass and ceramic pots.

Quick-Change 1/4" (6.3mm) Hex shank.
Pointed chisel edge, facilitates precise starting and prevents the drill bit from "walking". Spear point design reduces cutting pressure and reduces the risk of tile chipping.
For best results, apply water for cooling.

Use low RPM and Turn off hammer action if using with an impact or percussion drill. If the tile is on the wall, use a masonry bit to finish the hole once through the tile.

| Tool No. | D | L |
|---|---|---|
| HMZ0304 | 3 | 58 |
| HMZ0404 | 4 | 59 |
| HMZ0504 | 5 | 62 |
| HMZ0604 | 6 | 70 |
| HMZ0704 | 7 | 80 |
| HMZ0804 | 8 | 81 |
| HMZ1004 | 10 | 93 |
| HMZ1204 | 12 | 105 |
| HMZ1304 | 13 | 105 |

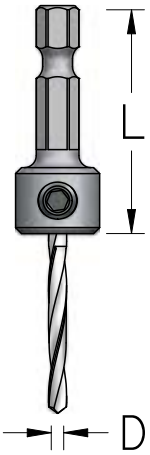



# TDS

## Drill Adapters

Converts all standard drill bits into Quick-Change tools.
Quick-Change 1/4" (6.3mm) HEX Shanks.

| Tool No. | D | L |
|---|---|---|
| TDS0200S | 2.0 | 42 |
| TDS0250S | 2.5 | 42 |
| TDS0280S | 2.8 | 42 |
| TDS0300S | 3.0 | 42 |
| TDS0320S | 3.2 | 42 |
| TDS0350S | 3.5 | 42 |
| TDS0360S | 3.6 | 42 |
| TDS0400S | 4.0 | 42 |
| TDS0440S | 4.4 | 42 |
| TDS0480S | 4.8 | 42 |
| TDS0500S | 5.0 | 42 |
| TDS0600S | 6.0 | 51 |
| TDS0630S | 6.3 | 51 |




# QC

## Quick - Change Chuck

For 1/4" (6.3mm) 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 anymore!

# QCL6306

## Professional chuck

# QCH6306

## DIY chuck

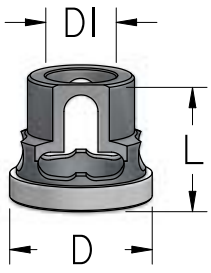
# REPLACEMENT DEPTH STOPPERS

# TATP

## Low Friction Depth Stopper

With replaceable polymer ring.

| Tool No. | D1 | D | L |
|---|---|---|---|
| TATP130 | 13 | 25 | 25 |
| TATP150 | 15 | 28 | 25 |

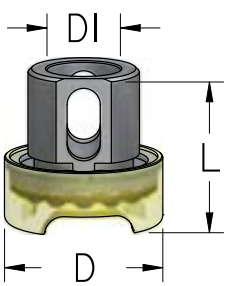



# TAB

## Non Friction Depth Stopper

Revolving metal body.
Includes a thrust ball bearing.

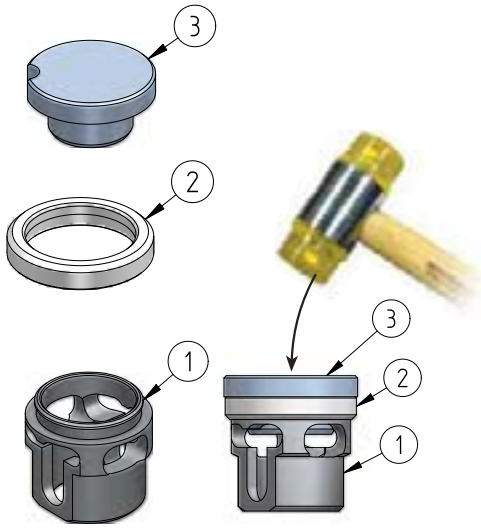
| Tool No. | D1 | D | L |
|---|---|---|---|
| TAB1300 | 13 | 32 | 32.5 |
| TAB1500 | 15 | 32 | 32.5 |




# BTAT

## Polymer Collar Replacement kit

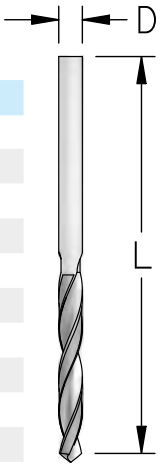
1 Stopper body
2 Polymer ring
3 Flange




| Tool No. | Contains |
|---|---|
| BTAT0255 | Flange plus 5 Polymer rings for TATP130 |
| BTAT0285 | Flange plus 5 Polymer rings for TATP150 |

## DR
### HSS Drills

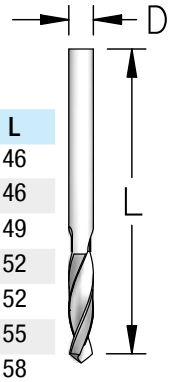
DIN 338. M2 Fully ground.




| Tool No. | D | L |
|---|---|---|
| DR02000 | 2.0 | 49 |
| DR02400 | 2.4 | 57 |
| DR02500 | 2.5 | 57 |
| DR02800 | 2.8 | 61 |
| DR03000 | 3.0 | 61 |
| DR03200 | 3.2 | 65 |
| DR03500 | 3.5 | 70 |
| DR03600 | 3.6 | 70 |
| DR04000 | 4.0 | 75 |
| DR04400 | 4.4 | 80 |
| DR04500 | 4.5 | 80 |
| DR04800 | 4.8 | 86 |
| DR05000 | 5.0 | 86 |
| DR05600 | 5.6 | 93 |
| DR06000 | 6.0 | 93 |
| DR06300 | 6.3 | 101 |
| DR07000 | 7.0 | 109 |
| DR09500 | 9.5 | 125 |
| DR12700 | 12.7 | 150 |

## DRK
### HSS Short Drills

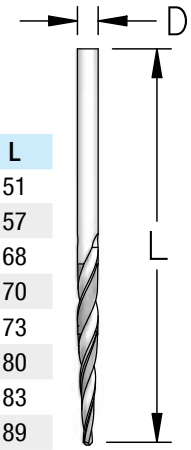
DIN 1897.
M2 Fully ground.




| Tool No. | D | L |
|---|---|---|
| DRK0280 | 2.8 | 46 |
| DRK0300 | 3.0 | 46 |
| DRK0320 | 3.2 | 49 |
| DRK0350 | 3.5 | 52 |
| DRK0360 | 3.6 | 52 |
| DRK0400 | 4.0 | 55 |
| DRK0440 | 4.4 | 58 |
| DRK0450 | 4.5 | 58 |
| DRK0480 | 4.8 | 62 |
| DRK0500 | 5.0 | 62 |
| DRK0600 | 6.0 | 66 |

## DRT
### HSS Taper Point Drills

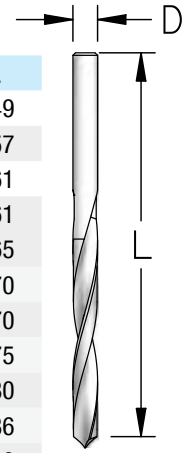
M2 Fully ground.




| Tool No. | D | L |
|---|---|---|
| DRT0200 | 2.0 | 51 |
| DRT0240 | 2.4 | 57 |
| DRT0280 | 2.8 | 68 |
| DRT0320 | 3.2 | 70 |
| DRT0360 | 3.6 | 73 |
| DRT0400 | 4.0 | 80 |
| DRT0440 | 4.4 | 83 |
| DRT0480 | 4.8 | 89 |
| DRT0500 | 5.0 | 89 |
| DRT0560 | 5.6 | 95 |
| DRT0600 | 6.0 | 98 |
| DRT0630 | 6.3 | 102 |

## DRS
### HSS Slow Spiral Drills

DIN 338. M2 Fully ground.

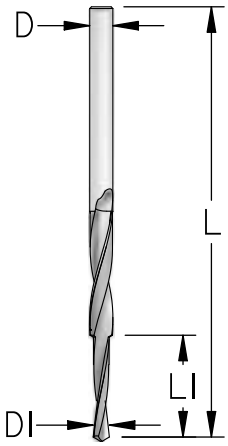



| Tool No. | D | L |
|---|---|---|
| DRS0200 | 2.0 | 49 |
| DRS0240 | 2.4 | 57 |
| DRS0280 | 2.8 | 61 |
| DRS0300 | 3.0 | 61 |
| DRS0320 | 3.2 | 65 |
| DRS0350 | 3.5 | 70 |
| DRS0360 | 3.6 | 70 |
| DRS0400 | 4.0 | 75 |
| DRS0440 | 4.4 | 80 |
| DRS0480 | 4.8 | 86 |
| DRS0500 | 5.0 | 86 |
| DRS0560 | 5.6 | 93 |
| DRS0600 | 6.0 | 93 |
| DRS0630 | 6.3 | 101 |
| DRS0800 | 8.0 | 117 |
| DRS0900 | 9.0 | 125 |
| DRS1110 | 11.1 | 142 |

## DR
### HSS Stepped Drills

M2 Fully ground.

Unique solution for one drilling operation of:
Pilot hole + Clearance hole.



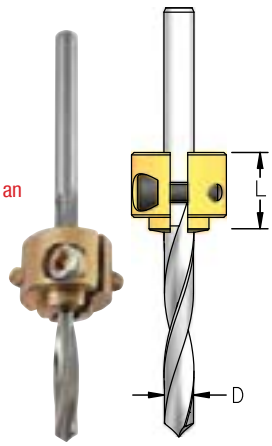

| Tool No. | D1 | D | L | l1 |
|---|---|---|---|---|
| DR28040 | 2.8 | 4.0 | 75 | 19 |
| DR32044 | 3.2 | 4.4 | 80 | 22 |
| DR35050 | 3.5 | 5.0 | 86 | 25 |
| DR50070 | 5.0 | 7.1 | 109 | 25 |

## TATM
### Adjustable Drill Depth-Stops

Can be clamped onto any drill, either on the flute or on the shank.

An innovative and universal solution to the problem of drilling holes to an accurate depth.

Special design to minimize any marks on the surface being drilled.




| Tool No. | D | L |
|---|---|---|
| TATM3070 | 3-7 | 14 |
| TATM6100 | 6-10 | 20 |

# INDUSTRIAL DRILLING

WPW offers Dowel Drills, countersinks, professional hinge boring bits and accessories for Multi Drilling Machines, CNC machines and other machines with “Combi” system chuck.

| Year Developed | 1972 | 1989 | 2015 |
|---|---|---|---|

WPW

# TOOLS FOR BORING MACHINES

Drills and accessories for Multi Drilling Machines, CNC / Point to Point boring machines and other machines with “Combi” system chuck. The shanks have 10mm Diameter and a flat area on one side for tightening it inside the chuck. A fine tuning of the drill length is possible, using the length adjustment screw which is inserted in the back of the shank.
Length adjustment set screw - BR50100 (M5 x 10).

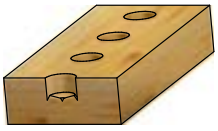
## DDB

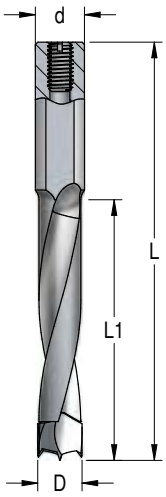
### Dowel Drills for Blind Holes

Carbide Tipped
Fits 10 mm combi chucks right hand and left hand rotation.

| Tool No. | | D | L | L1 | d |
|---|---|---|---|---|---|
| Right | Left | mm | mm | mm | mm |
| DDB04577 | DDB04577L | 4 | 57.5 | 27 | 10x27 |
| DDB05577 | DDB05577L | 5 | 57.5 | 27 | 10x27 |
| DDB06577 | DDB06577L | 6 | 57.5 | 27 | 10x27 |
| DDB07577 | DDB07577L | 7 | 57.5 | 27 | 10x27 |
| DDB08577 | DDB08577L | 8 | 57.5 | 27 | 10x27 |
| DDB10577 | DDB10577L | 10 | 57.5 | 27 | 10x27 |
| DDB12577 | DDB12577L | 12 | 57.5 | 27 | 10x27 |
| DDB04707 | DDB04707L | 4 | 70 | 35 | 10x30 |
| DDB05707 | DDB05707L | 5 | 70 | 35 | 10x30 |
| DDB06707 | DDB06707L | 6 | 70 | 35 | 10x30 |
| DDB07707 | DDB07707L | 7 | 70 | 35 | 10x30 |
| DDB08707 | DDB08707L | 8 | 70 | 35 | 10x30 |
| DDB10707 | DDB10707L | 10 | 70 | 35 | 10x30 |
| DDB12707 | DDB12707L | 12 | 70 | 35 | 10x30 |

| Tool No. | | D | L | L1 | d |
|---|---|---|---|---|---|
| Right | Left | mm | mm | mm | mm |
| DDB05777 | DDB05777L | 5 | 77 | 44 | 10x30 |
| DDB06777 | DDB06777L | 6 | 77 | 44 | 10x30 |
| DDB07777 | DDB07777L | 7 | 77 | 44 | 10x30 |
| DDB08777 | DDB08777L | 8 | 77 | 44 | 10x30 |
| DDB10777 | DDB10777L | 10 | 77 | 44 | 10x30 |
| DDB12777 | DDB12777L | 12 | 77 | 44 | 10x30 |





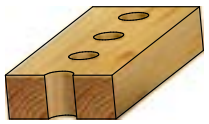

## DDT

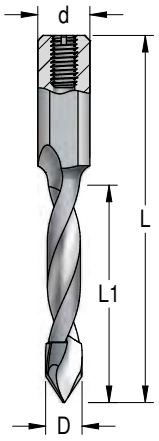
### Through Hole Drills

Carbide Tipped
Fits 10 mm combi chucks right hand and left hand rotation.

| Tool No. | | D | L | L1 | d |
|---|---|---|---|---|---|
| Right | Left | mm | mm | mm | mm |
| DDT05577 | DDT05577L | 5 | 57.5 | 25 | 10x25 |
| DDT06577 | DDT06577L | 6 | 57.5 | 25 | 10x25 |
| DDT07577 | DDT07577L | 7 | 57.5 | 25 | 10x25 |
| DDT08577 | DDT08577L | 8 | 57.5 | 25 | 10x25 |
| DDT05707 | DDT05707L | 5 | 70 | 40 | 10x25 |
| DDT06707 | DDT06707L | 6 | 70 | 40 | 10x25 |
| DDT07707 | DDT07707L | 7 | 70 | 40 | 10x25 |
| DDT08707 | DDT08707L | 8 | 70 | 40 | 10x25 |
| DDT10707 | DDT10707L | 10 | 70 | 40 | 10x25 |
| DDT12707 | DDT12707L | 12 | 70 | 40 | 10x25 |

| Tool No. | | D | L | L1 | d |
|---|---|---|---|---|---|
| Right | Left | mm | mm | mm | mm |
| DDT05777 | DDT05777L | 5 | 77 | 45 | 10x25 |
| DDT06777 | DDT06777L | 6 | 77 | 45 | 10x25 |
| DDT07777 | DDT07777L | 7 | 77 | 45 | 10x25 |
| DDT08777 | DDT08777L | 8 | 77 | 45 | 10x25 |
| DDT10777 | DDT10777L | 10 | 77 | 45 | 10x25 |





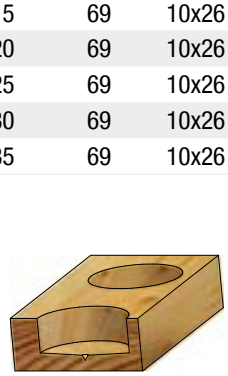
# MPK

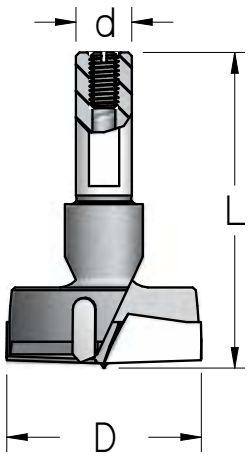
## Cylinder-Hinge Boring Bits - Combi System

Carbide tipped with a centering point, 2 straight cutting edges and 2 nicking teeth.
Fits 10 mm combi chucks right hand and left hand rotation.

| Tool No. | | D | L | d |
|---|---|---|---|---|
| Right | Left | mm | mm | mm |
| MPK1507 | MPK1507L | 15 | 56.5 | 10x26 |
| MPK1607 | MPK1607L | 16 | 56.5 | 10x26 |
| MPK1807 | MPK1807L | 18 | 56.5 | 10x26 |
| MPK2007 | MPK2007L | 20 | 56.5 | 10x26 |
| MPK2207 | MPK2207L | 22 | 56.5 | 10x26 |
| MPK2507 | MPK2507L | 25 | 56.5 | 10x26 |
| MPK2607 | MPK2607L | 26 | 56.5 | 10x26 |
| MPK3007 | MPK3007L | 30 | 56.5 | 10x26 |
| MPK3507 | MPK3507L | 35 | 56.5 | 10x26 |
| MPK3807 | MPK3807L | 38 | 56.5 | 10x26 |
| MPK4007 | MPK4007L | 40 | 56.5 | 10x26 |

| Tool No. | | D | L | d |
|---|---|---|---|---|
| Right | Left | mm | mm | mm |
| MPK1517 | MPK1517L | 15 | 69 | 10x26 |
| MPK2017 | MPK2017L | 20 | 69 | 10x26 |
| MPK2517 | MPK2517L | 25 | 69 | 10x26 |
| MPK3017 | MPK3017L | 30 | 69 | 10x26 |
| MPK3517 | MPK3517L | 35 | 69 | 10x26 |



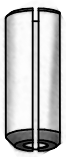


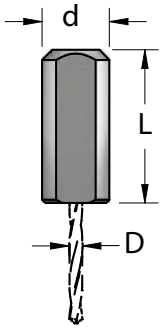

# Combi Chuck Accessories

# TK

## Shank Drill Bushings

| Tool No. | D | L | d |
|---|---|---|---|
| | mm | mm | mm |
| TK10020 | 2.0 | 23 | 10 |
| TK10025 | 2.5 | 23 | 10 |
| TK10030 | 3.0 | 23 | 10 |
| TK10032 | 3.17 (1/8") | 23 | 10 |
| TK10035 | 3.5 | 23 | 10 |
| TK10040 | 4.0 | 23 | 10 |
| TK10045 | 4.5 | 23 | 10 |
| TK10050 | 5.0 | 23 | 10 |
| TK10055 | 5.5 | 23 | 10 |
| TK10060 | 6.0 | 23 | 10 |
| TK10070 | 7.0 | 23 | 10 |
| TK10080 | 8.0 | 23 | 10 |





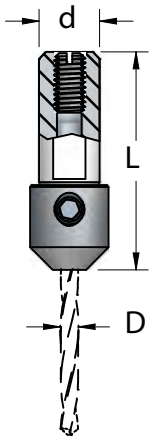

# TA

## Combi Chuck Adapters for Drills

Drill not included.

| Tool No. | D | L | d |
|---|---|---|---|
| | mm | mm | mm |
| TA10020 | 2.0 | 38 | 10x22 |
| TA10025 | 2.5 | 38 | 10x22 |
| TA10030 | 3.0 | 38 | 10x22 |
| TA10032 | 3.17 (1/8") | 38 | 10x22 |
| TA10035 | 3.5 | 38 | 10x22 |
| TA10040 | 4.0 | 38 | 10x22 |
| TA10050 | 5.0 | 38 | 10x22 |
| TA10063 | 6.35 (1/4") | 38 | 10x22 |

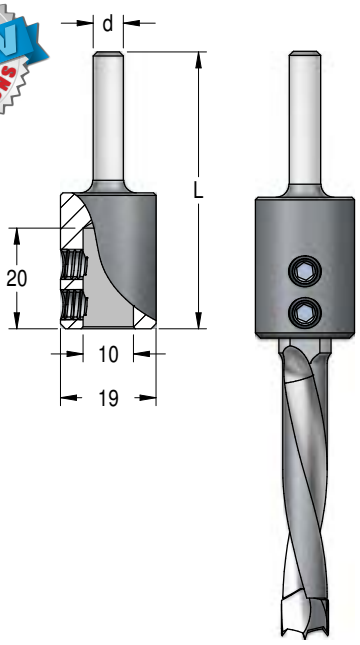
Locking screw - BR40050 (M4 x 5), Allen key - KEY5/64 (2mm)



# TA

## Adapters for “Combi” System drills

For CNC and Router machines
Allows using combi system drills, such as dowel drills, boring bits etc. in wide range of applications.



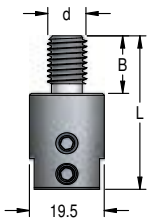

| Tool No. | d mm | L mm |
|---|---|---|
| TA10003 | 6 | 55 |
| TA10004 | 6.35 (1/4") | 55 |
| TA10005 | 8 | 57 |
| TA10007 | 10 | 55 |
| TA10002 | 12 | 62 |
| TA10008 | 12.7 (1/2") | 62 |

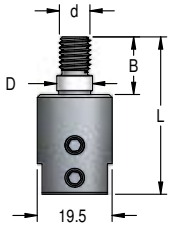
# TM

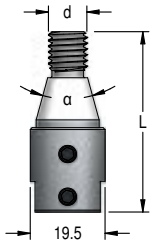
## Boring Machine Chucks - Combi System

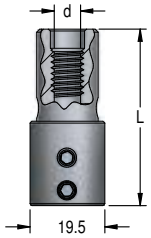
For 10mm Shank Boring Bits
Right hand and left hand rotation.

| Tool No. Right | Tool No. Left | d | D mm | α degrees | B mm | L mm | For Machines |
|---|---|---|---|---|---|---|---|
| TM08101R | TM08101L | M8 | - | - | 15 | 40 | NOTTMEYER |
| TM10103R | TM10103L | M10 | - | - | 15 | 40 | AYEN, TORWEGGE, HOLZMA... |
| TM08104R | TM08104L | M8 | 9 | - | 16 | 41 | NOTTMEYER |
| TM08114R | TM08114L | M8 | 9 | - | 16 | 52 | NOTTMEYER |
| TM10105R | TM10105L | M10 | 11 | - | 16 | 41 | HOLZMA, S.C.M.I., MORBIDELLI, BIESSE, TORWEGGE... |
| TM08106R | TM08106L | M10 | - | 20°48' | 12 | 51 | BILEK |
| TM10107R | TM10107L | M10 | - | - | - | 46 | SCHEER |




2 Locking screws - BR50050 (M5 x 5), Allen key - KEY02.5 (2.5mm)

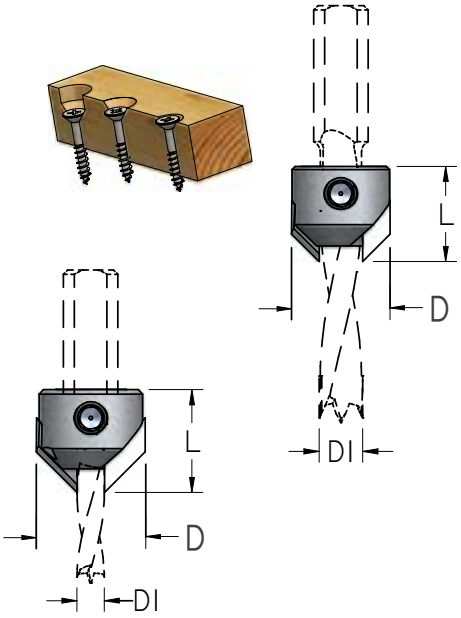
# AC3

## Countersinks for Dowel Drills

Carbide Tipped
Right hand and left hand rotation.
Drills not included.

| Tool No. | | D1 | D | L |
|---|---|---|---|---|
| Right | Left | mm | mm | mm |
| Designed to be assembled on the drill flute For individual drill Diameters | | | | |
| AC3040R | AC3040L | 4 | 15.5 | 18 |
| AC3050R | AC3050L | 5 | 16 | 18 |
| AC3060R | AC3060L | 6 | 16 | 18 |
| AC3070R | AC3070L | 7 | 16 | 18 |
| AC3080R | AC3080L | 8 | 18 | 18 |
| AC3090R | AC3090L | 9 | 18 | 18 |
| AC3100R | AC3100L | 10 | 20 | 18 |
| AC3120R | AC3120L | 12 | 20 | 18 |
| Designed to be assembled on the drill 10mm shank Fits a range of drill Diameters | | | | |
| AC31112R | AC31112L | 11-12 | 22 | 17 |
| AC35101R* | AC35101L* | 5-10 | 15.5 | 19 |
| AC3510R | AC3510L | 5-10 | 20 | 19 |

Locking screw - BR60060 (M6 x 6), Allen key - KEY03.0 (3mm)
*Locking screw - BR40040 (M4 x 4), Allen key - KEY5/64 (2mm)



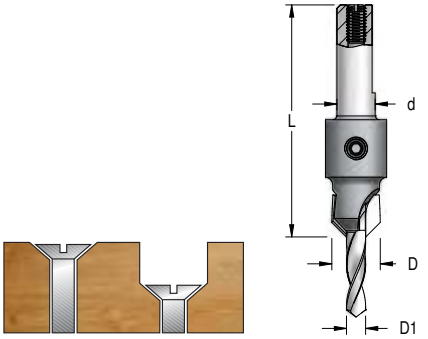

# ACK

## Countersinks - Combi System

Carbide Tipped.
HSS drill included.

| Tool No. | D1 | D | L | d |
|---|---|---|---|---|
| | mm | mm | mm | mm |
| ACK4007D | 4.0 | 12.7 | 60 | 10x30 |
| ACK5007D | 5.0 | 12.7 | 60 | 10x30 |

Locking screw - BR60050 (M6 x 5), Allen key - KEY03.0 (3mm)



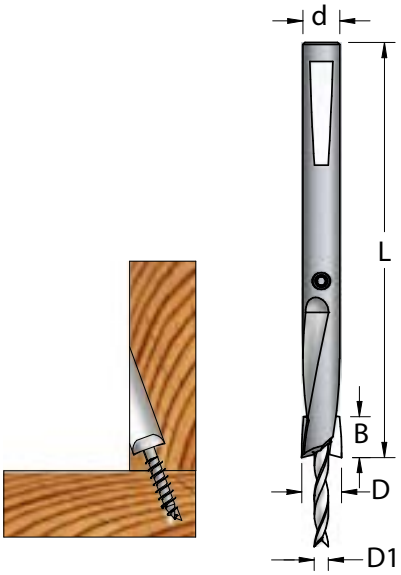

# ACF

## Face Frame Counterbore

Carbide tipped.
HSS drill included.

| Tool No. | D1 | D | B | L | d |
|---|---|---|---|---|---|
| | mm | mm | mm | mm | mm |
| ACFS950S | 3.45 | 9.5 | 9 | 104 | 9 |

Replaceable “Fish tail” drill - DR03450



# DIAMOND ROUTER BITS

PCD and Diamond Grit Coated router bits.

WPW PCD bits last 30- 50 times longer than Carbide tools and are very efficient in cutting abrasive materials including composites, particleboard, MDF and hardwoods.

Diamond Grit Coated Router Bits are designed for cutting Fiberglass, Carbon Fiber and other Composite materials.

| Year Developed | 1991 | 2003 | 2015 |
|---|---|---|---|

WPW

# Diamond Tipped PCD Router Bits

**Polycrystalline Diamond (PCD) is an extremely hard cutting material .These Diamond tipped tools last 30- 50 times longer than Carbide tipped tools.**

They are very efficient in cutting a wide variety of tough abrasive materials including composites, particleboard, MDF (either raw or laminated), HPL, veneers and hardwoods.

The common application is pre-cutting and sizing panels of abrasive materials in Point to Point CNC machines.

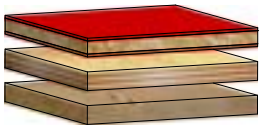
Designed for use on CNC machines, these tools have a much longer cutting life, eliminating the need to change tools often, saving setup time and minimizing the handling of dull tools.

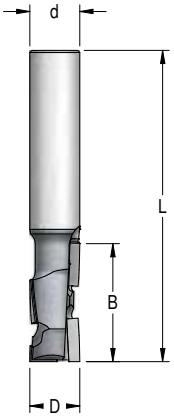
The Up / Down Shear design of the cutters, often referred to as “Compression” Bits, results in a good surface finish on double sided laminated materials.

## SR1

### 1+1 Straight PCD Bits - Up/Down

With Carbide Plunging tip.



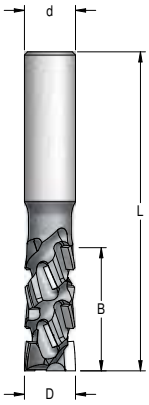



| Tool No. | | | | D | B | L |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2” | d=16mm | d=20mm | mm | mm | mm |
| | SR140958 | | | 9.5 | 25 | 75 |
| SR141202 | | | | 12 | 25 | 75 |
| SR151202 | | | | 12 | 34 | 85 |
| | SR141278 | | | 12.7 | 25 | 75 |
| | SR151278 | | | 12.7 | 34 | 85 |
| | | SR151601 | | 16 | 35 | 85 |
| | | | SR18200E | 20 | 52 | 112 |

## SR2

### 2+2 High Production Straight PCD Bits - Up/Down

With Carbide Plunging tip.



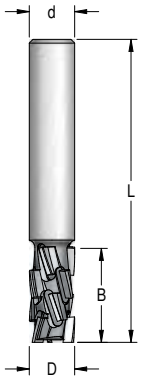

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=16mm | d=20mm | mm | mm | mm |
| SR251601 | | 16 | 34 | 94 |
| | SR25200E | 20 | 34 | 94 |

## SR3

### 3+3+1 Nesting Straight PCD Bits - Up/Down

With Diamond Plunging tip.

Body made of Densimet® (heavy metal tungsten alloy). Enables higher feed rates.

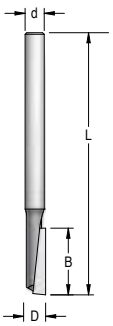



| Tool No. | D | B | L |
|---|---|---|---|
| d=12mm | mm | mm | mm |
| SR341202 | 12 | 24 | 75 |

## PD

### Straight Plunge PCD Bits.

Single Flute. Designed for Routing Solid wood panels.



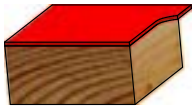

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=6mm | d=8mm | mm | mm | mm |
| PD120603 | | 6 | 12 | 60 |
| PD130603 | | 6 | 20 | 70 |
| | PD120805 | 8 | 12 | 70 |
| | PD130805 | 8 | 20 | 70 |

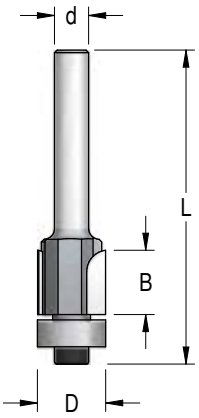
# FD

## Flush Trim PCD Bit.

2 Flutes. For super abrasive laminates, HPL, veneers ets.

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=6mm | d=1/4” | mm | mm | mm |
| FD221273 | FD221274 | 12.7 | 13 | 58 |






# Diamond Grit Coated Router Bits

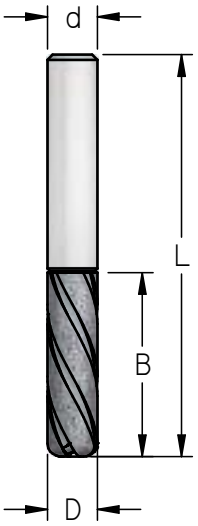
For cutting Fiberglass, Carbon Fiber and other Composite materials

# PG

## Straight “Down-Cut” Bits.

With spiral cooling slots.

| Tool No. | | | D | B | L | Diamond |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4” | d=3/8” | mm | mm | mm | Grit size |
| PG35063/501 | PG35064/501 | | 6.3 | 32 | 76 | D501 |
| PG36063/501 | PG36064/501 | | 6.3 | 38 | 76 | D501 |
| | | PG36096/501 | 9.5 | 38 | 76 | D501 |




# FG

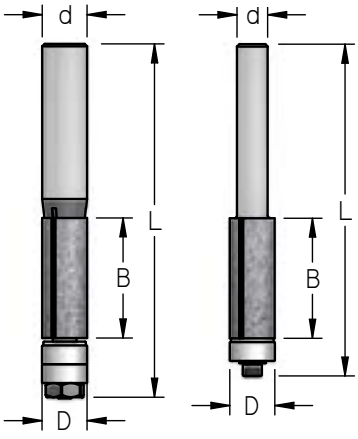
## Flush Trim Bits

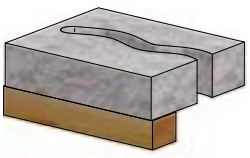
With straight cooling slots.

| Tool No. | | D | B | L | Diamond | Ball |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4” | mm | mm | mm | Grit size | Bearing |
| FG30633/427 | FG30634/427 | 6.3 | 19 | 59 | D427 | B063032 |
| FG40633/427 | FG40634/427 | 6.3 | 25 | 64 | D427 | B063032 |
| FG40953/427 | FG40954/427 | 9.5 | 25 | 67 | D427 | B095048 |

| Tool No. | | D | B | L | Diamond | Ball |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2” | mm | mm | mm | Grit size | Bearing |
| FG41272/427 | FG41278/427 | 12.7 | 25 | 83 | D427 | B127048 |
| FG71282/427 | FG71288/427 | 12.7 | 45 | 109 | D427 | B127048 x 2* |
| FG81282/427 | FG81288/427 | 12.7 | 51 | 111 | D427 | B127048 x 2* |

*Double Bearing for added stability



# PROFFESIONAL ROUTER BITS

With many creative ideas, this section presents a very 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 the most demanding applications in manufacturing and in the woodworking trade.

Tools with harder WPW K-Carbide grade have up to 200 % longer lifetime than tools with standard carbide. They are excellent for cutting MDF and other hard materials.

| Year Developed | 1963 | 1985 | 2006 | 2014 | 2015 |
|---|---|---|---|---|---|

WPW

# Solid Carbide Spiral CNC Bits

For higher feed rates and longer tool life in CNC machines.

These tools cut with less energy and less vibration than Carbide Tipped straight router bits, leaving a perfect and clean finish on hardwood, softwood and man made materials.

Upcut geometry pulls the chips from the working area, allowing deep grooving and higher feed rates.

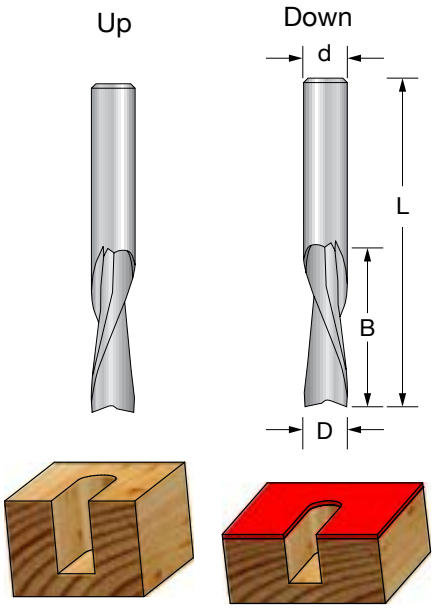
Downcut geometry directs chips towards the work piece and results smoother cut and cleaner edge of laminated boards.

The combination of Upcut and Downcut design, also called: “Compression”, is ideal for perfect cutting with clean edges of double-sided laminated materials.

## SCU, SCS

### Double flute Spiral Bits - Upcut and Downcut

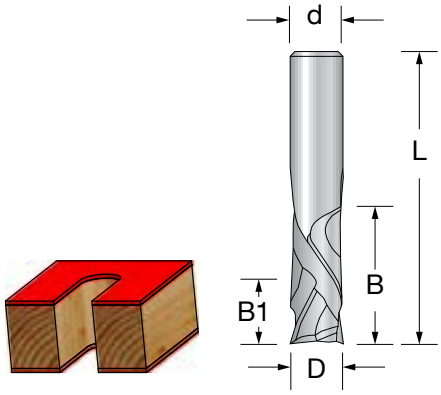
| Upcut Tool No. | Downcut Tool No. | d = D mm | B mm | L mm |
|---|---|---|---|---|
| SCU22040h | SCS22040h | 4 | 12 | 55 |
| SCU230603 | SCS230603 | 6 | 20 | 60 |
| SCU240805 | SCS240805 | 8 | 25 | 60 |
| SCU251007 | SCS251007 | 10 | 32 | 70 |
| SCU271202 | SCS271202 | 12 | 42 | 90 |




## SCC2

### ”Compression” Bits - 2 Flutes

| Tool No. | d = D mm | B mm | B1 mm | L mm |
|---|---|---|---|---|
| SCC240805 | 8 | 25 | 7 | 70 |
| SCC251007 | 10 | 32 | 8 | 80 |
| SCC251202 | 12 | 32 | 8 | 80 |

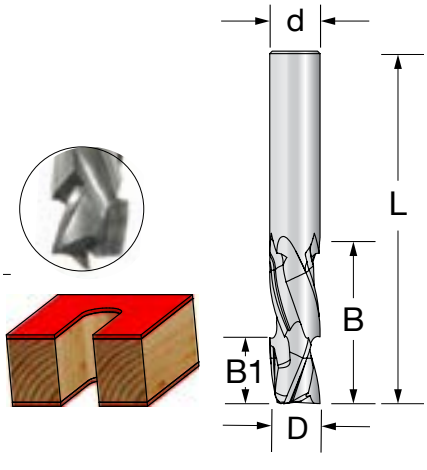



## SCC3

### Nesting “Compression” Bits – 3 flutes

The 3 flutes design allows higher feed rates than in any other cutting tool.
The common application is “nesting”, which is the process of laying out cutting patterns to minimize the raw material waste.

| Tool No. | d = D mm | B mm | B1 mm | L mm |
|---|---|---|---|---|
| SCC341007 | 10 | 25 | 7 | 70 |
| SCC351202 | 12 | 32 | 9 | 80 |
| SCC351278 | 12.7 (½”) | 32 | 9 | 76 |



# STRAIGHT PLUNGE-CUTTING BITS-2 FLUTES, CARBIDE TIPPED

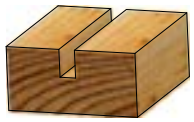
## P2

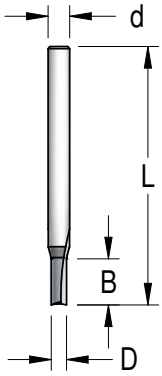
### Straight Plunge - Mini Bits

**1/8" Shank for CNC Routers, Dremel and equivalent rotary machines**

Solid Carbide Cutting Edge

| Tool No. d=1/8'' (3.17mm) | D mm | B mm | L mm |
|---|---|---|---|
| P21016i | 1.6 | 4.8 | 38 |
| P21024i | 2.4 | 8 | 38 |
| P21032i | 3.2 | 11 | 38 |
| P21048i | 4.8 | 11 | 38 |

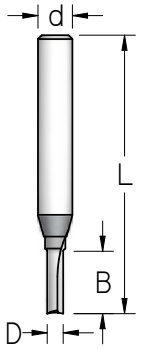





## P2

### Straight Bits with Solid Carbide Cutting Edge

| Tool No. d=6mm | Tool No. d=1/4" | Tool No. d=8mm | D mm | B mm | L mm |
|---|---|---|---|---|---|
| P210153 | P210154 | | 1.5 | 5 | 44 |
| P210163 | P210164 | | 1.6 | 5 | 44 |
| P210203 | P210204 | P210205 | 2.0 | 5 | 44 |
| P210253 | P210254 | | 2.5 | 8 | 51 |
| | | P210275 | 2.7 | 8 | 51 |
| P210303 | P210304 | P210305 | 3.0 | 11 | 51 |
| P200323 | P200324 | | 3.2 | 8 | 47 |
| P210323 | P210324 | | 3.2 | 11 | 51 |
| P210353 | P210354 | | 3.5 | 11 | 51 |
| P210403 | P210404 | P210405 | 4.0 | 11 | 51 |
| | | P220405 | 4.0 | 12 | 51 |
| P210483 | P210484 | | 4.8 | 11 | 51 |
| P210503 | P210504 | P210505 | 5.0 | 11 | 51 |
| P290503 | P290504 | | 5.0 | 11 | 60 |
| P220503 | P220504 | P220505 | 5.0 | 16 | 56 |
| P23S603 | P23S604 | P23S605 | 6.0 | 19 | 57 |
| | | P24S605 | 6.0 | 25 | 69 |

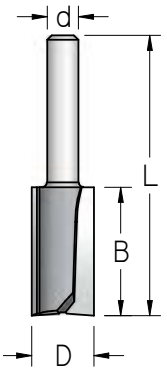


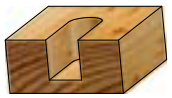
## P2

### Straight Bits

| Tool No. d=6mm | Tool No. d=1/4" | Tool No. d=8mm | D mm | B mm | L mm |
|---|---|---|---|---|---|
| P230603 | P230604 | P230605 | 6.0 | 19 | 51 |
| P240603 | P240604 | P240605 | 6.0 | 25 | 57 |
| P220633 | P220634 | | 6.3 | 13 | 51 |
| P230633 | P230634 | | 6.3 | 19 | 51 |
| P240633 | P240634 | | 6.3 | 25 | 57 |
| P290633 | P290634 | | 6.3 | 25 | 73 |
| P230703 | P230704 | P230705 | 7.0 | 19 | 51 |
| P240703 | P240704 | | 7.0 | 25 | 57 |
| P230803 | P230804 | P230805 | 8.0 | 19 | 51 |
| P240803 | P240804 | P240805 | 8.0 | 25 | 57 |
| P230953 | P230954 | | 9.5 | 19 | 51 |
| P240953 | P240954 | | 9.5 | 25 | 57 |
| P250953 | P250954 | | 9.5 | 32 | 63 |
| P231003 | P231004 | P231005 | 10.0 | 19 | 51 |
| P241003 | P241004 | P241005 | 10.0 | 25 | 57 |
| P251003 | P251004 | P251005 | 10.0 | 32 | 63 |
| P231103 | P231104 | | 11.0 | 19 | 51 |
| P241103 | P241104 | | 11.0 | 25 | 57 |

| Tool No. d=6mm | Tool No. d=1/4" | Tool No. d=8mm | D mm | B mm | L mm |
|---|---|---|---|---|---|
| P231203 | P231204 | P231205 | 12.0 | 19 | 51 |
| P241203 | P241204 | P241205 | 12.0 | 25 | 57 |
| | | P251205 | 12.0 | 32 | 63 |
| | | P271205 | 12.0 | 42 | 73 |
| P231273 | P231274 | | 12.7 | 19 | 51 |
| P241273 | P241274 | | 12.7 | 25 | 57 |
| P251273 | P251274 | P251275 | 12.7 | 32 | 63 |
| P231403 | P231404 | P231405 | 14.0 | 19 | 51 |
| P231433 | P231434 | | 14.3 | 19 | 51 |
| P231503 | P231504 | P231505 | 15.0 | 19 | 51 |
| P231603 | P231604 | P231605 | 16.0 | 19 | 51 |
| P241603 | P241604 | P241605 | 16.0 | 25 | 57 |
| P231703 | P231704 | | 17.0 | 19 | 51 |
| P231803 | P231804 | P231805 | 18.0 | 19 | 51 |
| P231903 | P231904 | P231905 | 19.0 | 19 | 51 |
| P232003 | P232004 | P232005 | 20.0 | 19 | 51 |
| P232203 | P232204 | P232205 | 22.0 | 19 | 51 |
| P232503 | P232504 | P232505 | 25.0 | 19 | 51 |
| P232543 | P232544 | | 25.4 | 19 | 51 |



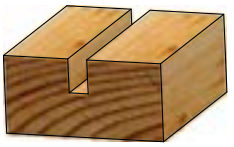



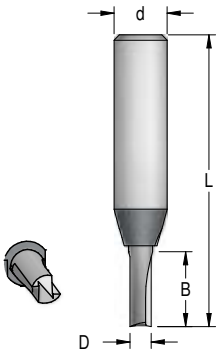
Produced with Harder K-Carbide whenever possible

# P2

## Straight Bits with Solid Carbide Cutting Edge.

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm |
| P210402 | P210408 | 4.0 | 11 | 63 |
| P210502 | P210508 | 5.0 | 11 | 63 |
| P23S602 | P23S608 | 6.0 | 19 | 63 |
| P24S602 | P24S608 | 6.0 | 25 | 76 |
| P24S632 | P24S638 | 6.3 | 25 | 76 |

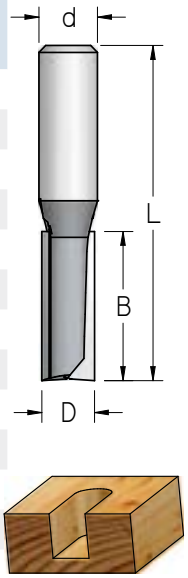




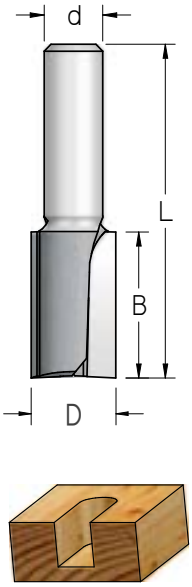

# P2

## Straight Bits

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm |
| P230602 | P230608 | 6.0 | 19 | 63 |
| P230632 | P230638 | 6.3 | 19 | 63 |
| P240632 | P240638 | 6.3 | 25 | 70 |
| P230702 | P230708 | 7.0 | 19 | 70 |
| P230802 | P230808 | 8.0 | 19 | 63 |
| P240802 | P240808 | 8.0 | 25 | 70 |
| P230952 | P230958 | 9.5 | 19 | 63 |
| P240952 | P240958 | 9.5 | 25 | 70 |
| P250952 | P250958 | 9.5 | 32 | 76 |
| P241002 | P241008 | 10.0 | 25 | 70 |
| P251002 | P251008 | 10.0 | 32 | 76 |
| P241102 | P241108 | 11.0 | 25 | 70 |
| P251102 | P251108 | 11.0 | 32 | 76 |
| P241202 | P241208 | 12.0 | 25 | 70 |
| P251202 | P251208 | 12.0 | 32 | 73 |
| P261202 | P261208 | 12.0 | 38 | 80 |
| P281202 | P281208 | 12.0 | 51 | 108 |
| P201202 | | 12.0 | 75 | 133 |
| P231272 | P231278 | 12.7 | 19 | 57 |
| P241272 | P241278 | 12.7 | 25 | 67 |
| P251272 | P251278 | 12.7 | 32 | 73 |
| P261272 | P261278 | 12.7 | 38 | 80 |
| P271272 | P271278 | 12.7 | 38 | 108 |
| P281272 | P281278 | 12.7 | 51 | 108 |
| P291272 | P291278 | 12.7 | 63 | 114 |
| P201272 | P201278 | 12.7 | 75 | 133 |
| P261302 | P261308 | 13.0 | 38 | 80 |
| P251352 | P251358 | 13.5 | 32 | 73 |
| P241402 | P241408 | 14.0 | 25 | 70 |
| P251402 | P251408 | 14.0 | 32 | 73 |




| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm |
| P241432 | P241438 | 14.3 | 25 | 70 |
| P251432 | P251438 | 14.3 | 32 | 73 |
| P241602 | P241608 | 16.0 | 25 | 70 |
| P251602 | P251608 | 16.0 | 32 | 73 |
| P261602 | P261608 | 16.0 | 38 | 80 |
| P281602 | P281608 | 16.0 | 51 | 96 |
| P241702 | P241708 | 17.0 | 25 | 70 |
| P251762 | P251768 | 17.5 | 32 | 73 |
| P241802 | P241808 | 18.0 | 25 | 70 |
| P251802 | P251808 | 18.0 | 32 | 73 |
| P241902 | P241908 | 19.0 | 25 | 70 |
| P251902 | P251908 | 19.0 | 32 | 73 |
| P261902 | P261908 | 19.0 | 38 | 80 |
| P281902 | P281908 | 19.0 | 51 | 96 |
| P252002 | P252008 | 20.0 | 32 | 73 |
| P282002 | P282008 | 20.0 | 51 | 96 |
| P252202 | P252208 | 22.0 | 32 | 73 |
| P252222 | P252228 | 22.2 | 32 | 73 |
| P252502 | P252508 | 25.0 | 32 | 73 |
| P242542 | P242548 | 25.4 | 25 | 70 |
| P252542 | P252548 | 25.4 | 32 | 73 |
| P253002 | P253008 | 30.0 | 32 | 73 |
| P253202 | P253208 | 31.8 | 32 | 73 |
| P253502 | P253508 | 35.0 | 32 | 73 |
| P253802 | P253808 | 38.1 | 32 | 73 |
| P254502 | P254508 | 44.5 | 32 | 73 |
| P255102 | P255108 | 51.0 | 32 | 73 |



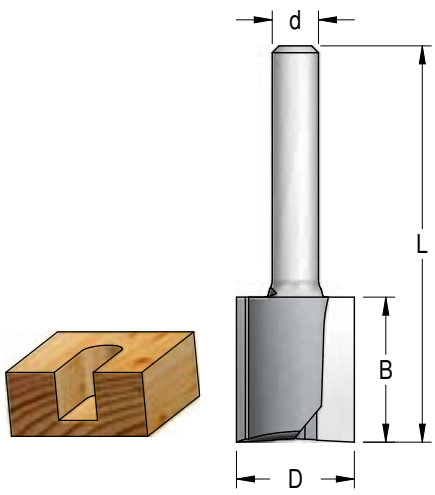

Produced with Harder K-Carbide whenever possible

# P2...XK

## Straight CNC Long Bits

Extended shank and hard K-Carbide grade, makes these tools perfect for CNC routing and router table jobs.
Excellent for cutting MDF and other hard material. Up to 200 % longer lifetime when cutting abrasive materials.
2 Flutes

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=8mm | d=12mm | mm | mm | mm |
| P241805XK | | 18.0 | 25 | 70 |
| P242005XK | | 20.0 | 25 | 70 |
| P242205XK | | 22.0 | 25 | 70 |
| P242405XK | | 24.0 | 25 | 70 |
| P242505XK | | 25.0 | 25 | 70 |
| | P261802XK | 18.0 | 38 | 90 |
| | P262002XK | 20.0 | 38 | 90 |
| | P262202XK | 22.0 | 38 | 90 |
| | P262402XK | 24.0 | 38 | 90 |
| | P262502XK | 25.0 | 38 | 90 |




## NEED AN EVEN LONGER TOOL?

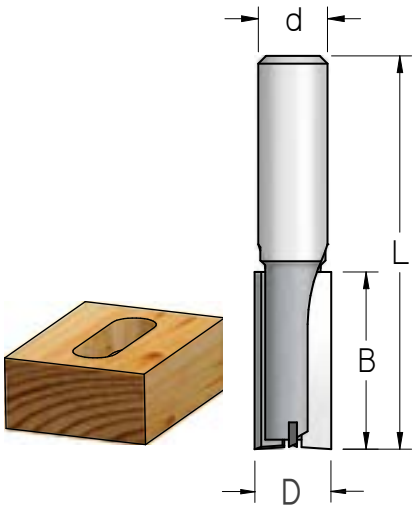
**Check our TX – Shank Extension Adapters, Pg 83.**
These adapters, allow deeper reach for wide range of applications.
Very useful when the bit is too short for the job.

# PT

## Straight Bits - Carbide Center Tip

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

| Tool No. | | | D | B | L |
|---|---|---|---|---|---|
| d=8mm | d=12mm | d=1/2" | mm | mm | mm |
| PT30805 | | | 8.0 | 19 | 51 |
| PT31005 | | | 10.0 | 19 | 51 |
| PT41205 | | | 12.0 | 25 | 57 |
| PT41605 | | | 16.0 | 25 | 57 |
| | PT30802 | PT30808 | 8.0 | 19 | 63 |
| | PT31002 | PT31008 | 10.0 | 19 | 63 |
| | PT41202 | PT41208 | 12.0 | 25 | 67 |
| | PT81202 | PT81208 | 12.0 | 51 | 108 |
| | PT41402 | PT41408 | 14.0 | 25 | 67 |
| | PT41602 | PT41608 | 16.0 | 25 | 67 |
| | PT81602 | PT81608 | 16.0 | 51 | 108 |
| | PT41802 | PT41808 | 18.0 | 25 | 67 |
| | PT42002 | PT42008 | 20.0 | 25 | 67 |
| | PT42542 | PT42548 | 25.4 | 25 | 67 |



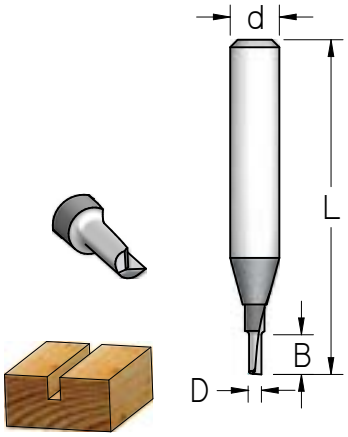
# Straight Plunge Cutting Bits - Single Flute

For faster feed rates and maximum stock removal.

## P1

### Single Flute with Solid Carbide cutting edge.

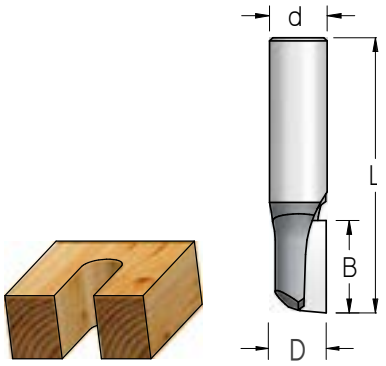
| Tool No. | | | D | B | L |
|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm |
| P110103 | P110104 | | 1.0 | 3 | 43 |
| P110153 | P110154 | | 1.5 | 5 | 43 |
| P110163 | P110164 | P110165 | 1.6 | 5 | 43 |
| P110183 | P110184 | | 1.8 | 5 | 43 |
| P110203 | P110204 | | 2.0 | 5 | 43 |




## P1

### Single Flute

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm |
| P130633 | P130634 | 6.3 | 19 | 51 |
| P131273 | P131274 | 12.7 | 19 | 51 |
| P131903 | P131904 | 19.0 | 19 | 51 |



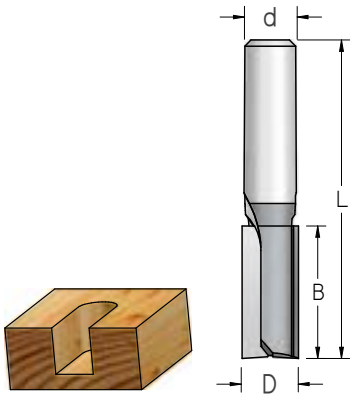

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm |
| P130632 | P130638 | 6.3 | 19 | 63 |
| P140952 | P140958 | 9.5 | 25 | 70 |
| P150952 | P150958 | 9.5 | 32 | 76 |
| P141272 | P141278 | 12.7 | 25 | 67 |
| P151272 | P151278 | 12.7 | 32 | 73 |
| P161272 | P161278 | 12.7 | 38 | 80 |
| P181272 | P181278 | 12.7 | 51 | 108 |

## P...L

### Left Hand Straight Plunge Cutting Bits

2 Flutes, left hand rotation

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm |
| P230632L | P230638L | 6.3 | 19 | 63 |
| P241272L | P241278L | 12.7 | 25 | 67 |
| P281272L | P281278L | 12.7 | 51 | 108 |

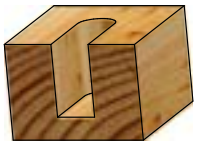


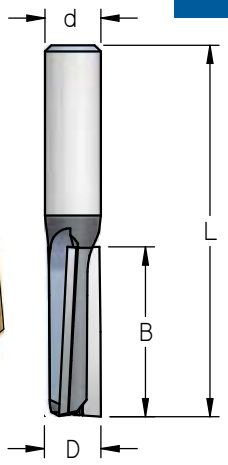
# P3, P3U

## Straight Plunge Cutting Bits - 3 Flutes

Hard K-Carbide grade.
For better surface finish and longer tool life than tools with 2 flutes

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm |
| P381272 | P381278 | 12.7 | 51 | 108 |
| Up Shear | | | | |
| P3U4102 | P3U4108 | 9.5 | 25 | 71 |
| P3U6122 | P3U6128 | 12.7 | 38 | 84 |



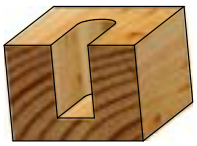


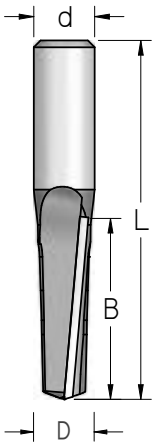

# PU

## 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.
2 Flutes

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=12mm | d=1/2” | mm | mm | mm |
| PU41272 | PU41278 | 12.7 | 25 | 67 |
| PU51272 | PU51278 | 12.7 | 32 | 73 |
| PU61272 | PU61278 | 12.7 | 38 | 80 |
| PU81272 | PU81278 | 12.7 | 51 | 108 |
| PU51902 | PU51908 | 19.0 | 32 | 73 |



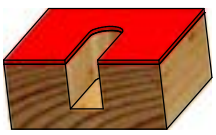


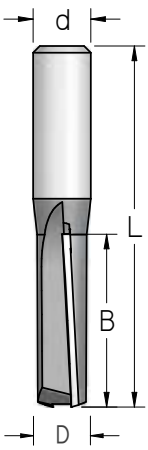

# PS

## Down Shear - Straight Bits

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

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=12mm | d=1/2” | mm | mm | mm |
| PS51272 | PS51278 | 12.7 | 32 | 73 |
| PS81272 | PS81278 | 12.7 | 51 | 108 |





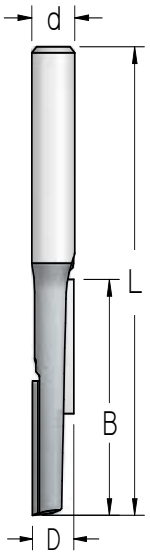
# STAGGER TOOTH STRAIGHT BITS

**For fast stock removal like a single flute, but better balanced and increased strength.**
1 + 1 Flutes

## ST

### Stagger Tooth Plunge Cutting Bits

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm |
| ST60952 | ST60958 | 9.5 | 38 | 80 |
| ST61272 | ST61278 | 12.7 | 38 | 80 |
| ST81272 | ST81278 | 12.7 | 51 | 108 |
| ST91272 | ST91278 | 12.7 | 57 | 114 |
| ST01272 | ST01278 | 12.7 | 63 | 114 |
| ST0X132X | ST0X138X | 12.7 | 67 | 120 |
| ST0X132G | ST0X138G | 12.7 | 67 | 140 |
| STT0132 | STT0138 | 12.7 | 87 | 158 |

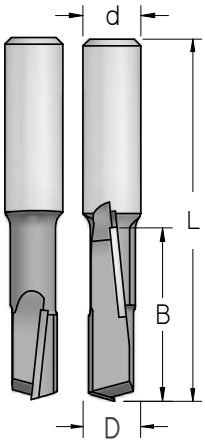



## STS

### 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 |
|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm |
| STS6132 | STS6138 | 12.7 | 38 | 79 |



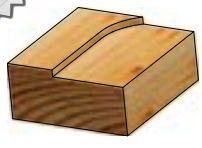

# Carbide Tipped Surfacing Bits

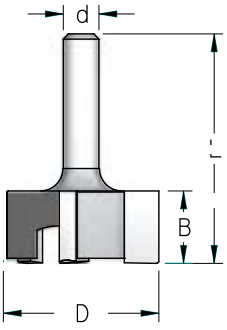
Used to resurface or plane machines Spoilboard. Also, used when unusual timbers need to be flattened before they can be used. For use in Router machines and CNC machines. The open structure allows fast chip ejection. The tools are designed with 3 and 4 flutes for smooth surface finish.

## P32

### 3 flutes.

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm |
| P322853 | P322854 | 28.5 | 12.7 | 41 |

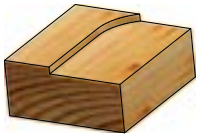


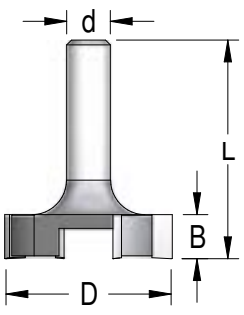



## P42

### 4 flutes

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm |
| P423802 | P423808 | 38.0 | 12.7 | 57 |
| P425102 | P425108 | 50.8 | 12.7 | 63 |





# MORTISING BITS

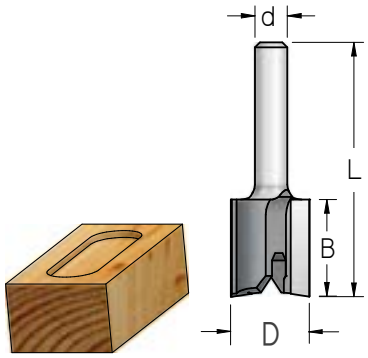
## MB

### Hinge Mortising Bits

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

| Tool No. | | | D | B | L |
|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm |
| | | MB12005 | 12.0 | 12 | 90 |
| MB31273 | MB31274 | | 12.7 | 19 | 51 |
| MB31603 | MB31604 | | 16.0 | 19 | 51 |
| MB31903 | MB31904 | | 19.0 | 19 | 51 |

| Tool No. | | | D | B | L |
|---|---|---|---|---|---|
| d=12mm | d=1/2" | d=8mm | mm | mm | mm |
| MB33202 | MB33208 | | 31.8 | 19 | 54 |

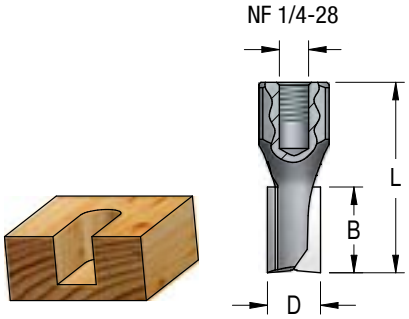


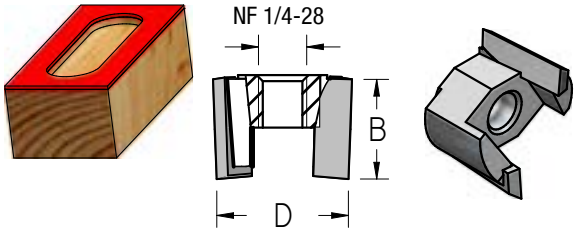

## MB...0

### Lock Mortising Cutters – Screw Type

2 Flutes

| Tool No. | D | B | L |
|---|---|---|---|
| | mm | mm | mm |
| | Straight Cut | | |
| P220630 | 6.3 | 12 | 34 |
| P220990 | 10.0 | 15 | 34 |
| | Down Shear | | |
| MB08000 | 12.7 | 15 | |
| MB10010 | 16.0 | 15 | |
| MB12020 | 19.0 | 15 | |
| MB200M0 | 20.0 | 15 | |
| MB14010 | 22.2 | 15 | |
| MB16010 | 25.4 | 15 | |
| MB18010 | 28.6 | 15 | |
| MB20000 | 31.8 | 16 | |

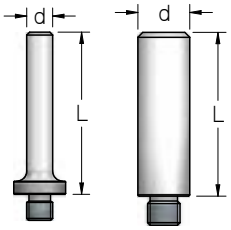



## NMB

### Arbors for Mortising Cutters – Screw Type

| Tool No. | | | | D | L |
|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=12mm | d=1/2" | | mm |
| NMB0013 | NMB0014 | | | NF 1/4-28 | 40 |
| | | NMB0032 | NMB0038 | NF 1/4-28 | 38 |
| | | NMB0012 | NMB0018 | NF 1/4-28 | 60 |

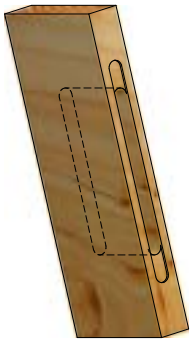


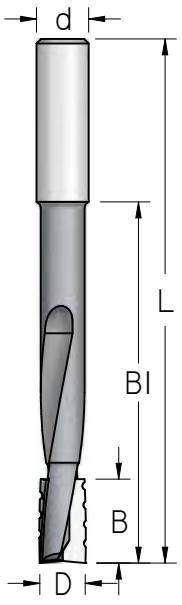

## DT

### Mortising Bits for Lock Case

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

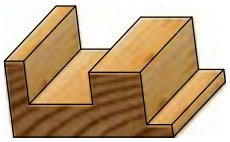
| Tool No. | | | D | B | B1 | L |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | d=16mm | mm | mm | mm | mm |
| DT12702 | DT12708 | | 12.7 | 25 | 72 | 151 |
| DT14002 | DT14008 | DT14001 | 14.0 | 25 | 110 | 160 |
| DT16002M | DT16008M | | 16.0 | 25 | 80 | 130 |
| DT16002 | DT16008 | DT16001 | 16.0 | 25 | 120 | 170 |
| DT18002 | DT18008 | DT18001 | 18.0 | 25 | 120 | 170 |
| DT19002 | DT19008 | | 19.0 | 25 | 120 | 170 |





# CNC STRAIGHT PRODUCTION BITS

Up-Shear POWER

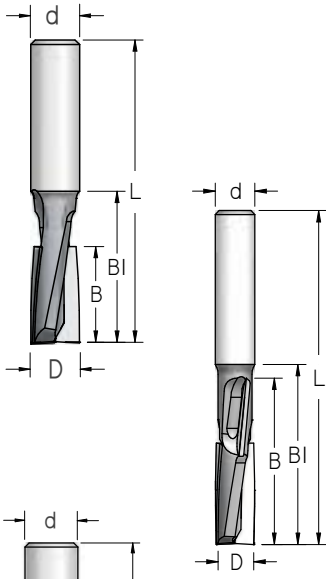


The shearing action of the US and UB series yields cleaner cuts with less energy and less vibration than the standard straight bits. The helical ground razor-sharp cutting edges provide superior finish. Spiral upshear geometry pulls the chips from the working area, allowing deeper penetration with higher 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.

## US2

### 2 Flutes

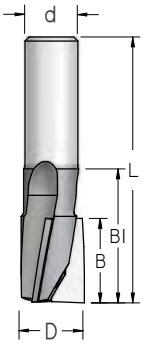
| Tool No. | | | | D | B | B1 | L |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | d=16mm | d=20mm | mm | mm | mm | mm |
| | | | 2 Flutes | | | | |
| US25132 | US25138 | | | 12.7 | 32 | 45 | 90 |
| US27132 | US27138 | | | 12.7 | 42 | 55 | 105 |
| | | US25161 | | 16.0 | 32 | 50 | 100 |
| | | | US2720E | 20.0 | 42 | 60 | 120 |
| | | | **2+2 Flutes** | | | | |
| US28132 | US28138 | | | 12.7 | 50 | 60 | 110 |
| | | | US2820E | 20.0 | 50 | 65 | 125 |




## US3

### 3 Flutes

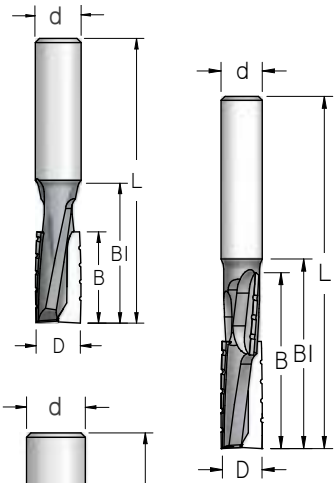
| Tool No. | | D | B | B1 | L |
|---|---|---|---|---|---|
| d=16mm | d=20mm | mm | mm | mm | mm |
| US35161 | | 16.0 | 32 | 50 | 100 |




## UB2

### 2 Flutes with Chipbreaker.
### For roughing and semi finishing.

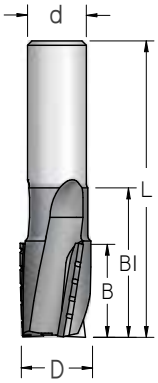
| Tool No. | | D | B | B1 | L |
|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm |
| | | 2 Flutes | | | |
| UB27132 | UB27138 | 12.7 | 42 | 55 | 105 |
| | | 2+2 Flutes | | | |
| UB28132 | UB28138 | 12.7 | 50 | 60 | 110 |




## UB3

### 3 Flutes with Chipbreakers

| Tool No. | | D | B | B1 | L |
|---|---|---|---|---|---|
| d=16mm | d=20mm | mm | mm | mm | mm |
| UB35161 | | 16.0 | 32 | 50 | 100 |



# PF TEMPLATE ROUTER BITS

Plunge-cutting straight Bits with shank mounted (top) bearing pilot.
This type of flush trim bits is designed for template / pattern routing from simple cuts to complex curves.

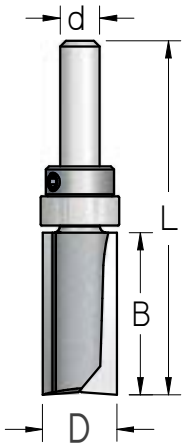
The bearing has the same Diameter as the cutter and it enables following pre-shaped templates and forming an exact duplicate of the template. Ideal for producing identical parts when needed.

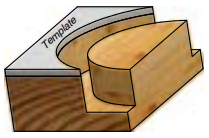
As the bearing is mounted on the shank, it has been limited to relatively big cutter Diameters. WPW has developed unique Line of tools (PFT), which enables us to offer smaller cutters than ever, as small as 4.8mm!

## PF

### Straight Plunge Template Bits

| Tool No. | | | D | B | L | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | | |
| PF10953 | PF10954 | | 9.5 | 6.5 | 44.5 | B095063 x2 | PF09500 |
| PF20953 | PF20954 | | 9.5 | 13 | 51 | B095063 x2 | PF09500 |
| PF30953 | PF30954 | | 9.5 | 19 | 56 | B095063 x2 | PF09500 |
| PF40953 | PF40954 | | 9.5 | 25 | 63 | B095063 x2 | PF09500 |
| | | PF41205 | 12.0 | 25 | 70 | B120080 x2 | PF08010 |
| PF01273 | PF01274 | | 12.7 | 6.3 | 42 | B127063 | PF06300 |
| PF11303 | PF11304 | | 12.7 | 9.5 | 57 | B127063 | PF06300 |
| PF11313 | PF11314* | | 12.7 | 9.5 | 60 | B159063 | PF06300 |
| PF21273 | PF21274 | | 12.7 | 13 | 50 | B127063 | PF06300 |
| PF31273 | PF31274 | | 12.7 | 19 | 57 | B127063 | PF06300 |
| PF41273 | PF41274 | | 12.7 | 25 | 63 | B127063 | PF06300 |
| PF51273 | PF51274 | | 12.7 | 32 | 70 | B127063 | PF06300 |
| PF41603 | PF41604 | | 16.0 | 25 | 63 | B159063 | PF06300 |
| | | PF41605 | 16.0 | 25 | 67 | B160080 | PF08000 |
| | | PF51605 | 16.0 | 32 | 73 | B160080 | PF08000 |
| PF41903 | PF41904 | | 19.0 | 25 | 63 | B190063 | PF06300 |
| | | PF42605 | 26.0 | 25 | 70 | B260100 | PF10000 |




*Fits Porter Cable kit model #59370 - Door Hinge template

| Tool No. | | D | B | L | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | | |
| PF31902 | PF31908 | 19.0 | 19 | 70 | B190127 x2 | PF19000 |
| PF41902 | PF41908 | 19.0 | 25 | 77 | B190127 x2 | PF19000 |
| PF71902 | PF71908 | 19.0 | 45 | 95 | B190127 x2 | PF19000 |
| PF81902 | PF81908 | 19.0 | 51 | 102 | B190127 x2 | PF19000 |
| PF72542 | PF72548 | 25.4 | 45 | 96 | B254127A | PF19000 |
| PF62852 | PF62858 | 28.6 | 38 | 90 | B285127 | PF12700 |
| PF82852 | PF82858 | 28.6 | 51 | 103 | B285127 | PF12700 |

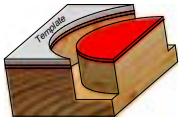
Produced with Harder K-Carbide whenever possible

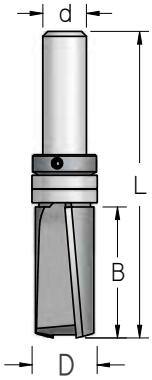
# PFS

## Straight Down Shear Template Bits

For better finish on laminates.

| Tool No. d=12mm | Tool No. d=1/2" | D mm | B mm | L mm | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|
| PFS5192 | PFS5198 | 19.0 | 32 | 83 | B190127 x2 | PF19000 |
| PFS6192 | PFS6198 | 19.0 | 38 | 89 | B190127 x2 | PF19000 |
| PFS8192 | PFS8198 | 19.0 | 51 | 102 | B190127 x2 | PF19000 |



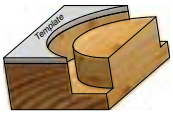



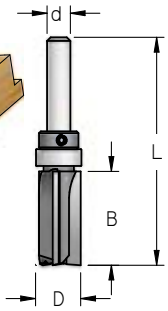

BITS LONGER TOOL LIFE

# P3F

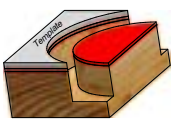
## Straight Plunge Template Bits - 3 Flutes

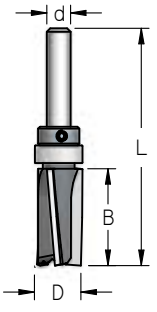
For better surface finish and longer tool life than tools with 2 flutes.




| Tool No. d=6mm | Tool No. d=1/4" | d=12mm | d=1/2" | D mm | B mm | L mm | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|---|---|
| P3F2103 | P3F2104 | | | 9.5 | 12 | 50 | B095063 x2 | PF09500 |
| P3F4123 | P3F4124 | | | 12.7 | 25 | 63 | B127063 | PF06300 |
| | | P3F4192 | P3F4198 | 19 | 25 | 76 | B190127 x2 | PF19000 |
| **Up Shear** | | | | | | | | |
| P3FU2103 | P3FU2104 | | | 9.5 | 12 | 50 | B095063 x2 | PF09500 |
| P3FU4123 | P3FU4124 | | | 12.7 | 25 | 63 | B127063 | PF06300 |
| | | P3FU1192* | P3FU1198* | 19 | 10 | 81 | B190127 x2 | PF19000 |
| | | P3FU4192* | P3FU4198* | 19 | 25 | 76 | B190127 x2 | PF19000 |
| | | P3FU5192* | P3FU5198* | 19 | 32 | 84 | B190127 x2 | PF19000 |
| **Down Shear** | | | | | | | | |
| P3FS2103 | P3FS2104 | | | 9.5 | 12 | 50 | B095063 x2 | PF09500 |
| P3FS4123 | P3FS4124 | | | 12.7 | 25 | 63 | B127063 | PF06300 |
| | | P3FS4192 | P3FS4198 | 19 | 25 | 76 | B190127 x2 | PF19000 |



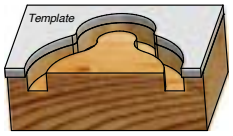

BITS LONGER TOOL LIFE

Produced with Harder K-Carbide whenever possible
* With Carbide Plunging Tip

# PFT

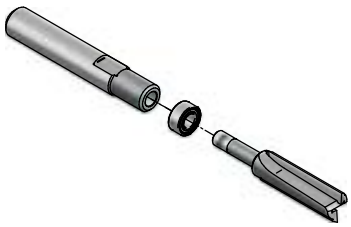
## Mini Straight Template Bits

**Template routing is now possible with a smaller cutter than ever!**



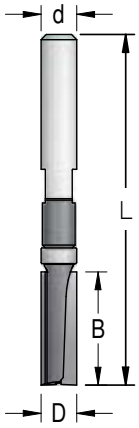

The top bearings have the same Diameter as the shank, or even smaller. Important feature in jobs with complex shapes when small diameter cutters are needed. Allows getting into tighter corners.

| Tool No. d=1/8" (3.17mm) | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|
| 1/8" Shank for CNC Routers, Dremel and equivalent rotary machines | | | | |
| PFT2048i | 4.8 | 12 | 50 | B048024 |
| PFT1063i | 6.3 | 6 | 50 | B063032 |



| Tool No. d=6mm | Tool No. d=1/4" | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|
| PFT10483 | PFT10484 | 4.8 | 6.5 | 47 | B048024 |
| PFT20483 | PFT20484 | 4.8 | 12 | 51 | B048024 |
| PFT10633 | PFT10634 | 6.3 | 6.5 | 49 | B063032 |
| PFT30633 | PFT30634 | 6.3 | 19 | 62 | B063032 |

| Tool No. d=12mm | Tool No. d=1/2" | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|
| PFT40952 | PFT40958 | 9.5 | 25 | 82 | B095063 x2 |
| PFT21272 | PFT21278 | 12.7 | 12 | 71 | B127063 |
| PFT51272 | PFT51278 | 12.7 | 32 | 90 | B127063 |
| PFT51602 | PFT51608 | 16 | 32 | 88 | B160080 |

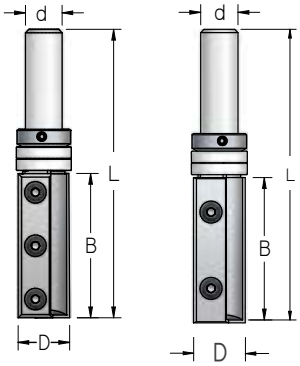



# PFM

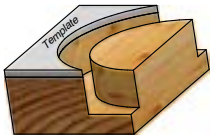
## Straight Plunge Template Bits with 2 Replaceable Carbide Blades

Reduces set-up time and is cost effective.
Supplied with Torx Key.

| Tool No. d=12mm | Tool No. d=1/2" | D mm | B mm | L mm | Blade No. | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|---|
| 2 gripping screws | | | | | | | |
| PFM7192 | PFM7198 | 19.0 | 50 | 100 | CM05012 x2 | B190127 x2 | PF19000 |
| 3 gripping screws for heavy duty tasks | | | | | | | |
| PFM8192 **/K** | PFM8198 **/K** | 19.0 | 50 | 100 | CM501217 x2 | B190127 x2 | PF19000 |

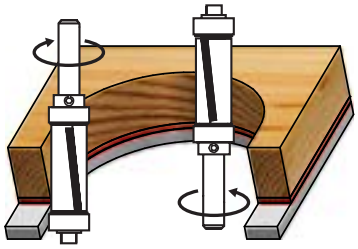



**K-** Can be ordered with Harder K-Carbide. While ordering, just add the letter "K" to the Tool No.
Torx Screw – BT40060



# FP Multi Trimmers

These multi purpose cutters integrate the standard flush trim bits - bottom bearing, with the template bits - top bearing. It allows the cutter to be used with the template mounted on either side of the work. 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.

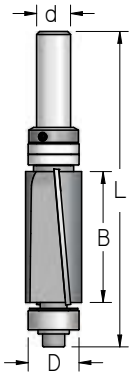


## FPS

### Down Shear Multi Trimmer

Ensures a clean cut even in difficult materials.

| Tool No. d=12mm | Tool No. d=1/2" | D mm | B mm | L mm | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|
| FPS5192 | FPS5198 | 19.0 | 32 | 96 | B190063 + B190127 x2 | PF19000 |
| FPS8192 | FPS8198 | 19.0 | 51 | 114 | B190063 + B190127 x2 | PF19000 |



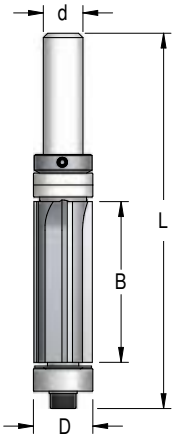

## F4P, FPF

### 3, 4 Flutes Multi Trimmer

For better surface finish and longer tool life in hard wood, solid surface and similar materials.

| Tool No. d=12mm | Tool No. d=1/2" | D mm | B mm | L mm | Flutes | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|---|
| F4P8192 | F4P8198 | 19.0 | 51 | 117 | 4 | B190063 + B190127 x 2 | PF19000 |

| Tool No. d=6mm | Tool No. d=1/4" | D mm | B mm | L mm | Flutes | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|---|
| FPF34133 | FPF34134 | 12.7 | 25 | 73 | 3 | B127048+B127063 | PF06300 |

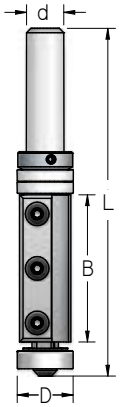



## FPM

### Multi Trimmer with 2 replaceable Carbide Blades

Reduces set up time and cost effective.
3 gripping screws for heavy duty tasks.
Supplied with Torx Key.

| Tool No. d=12mm | Tool No. d=1/2" | D mm | B mm | L mm | Blade No. | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|---|
| FPM1922 **/K** | FPM1928 **/K** | 19.0 | 50 | 118 | CM501217 x2 | B190063 + B190127 x 2 | PF19000 |



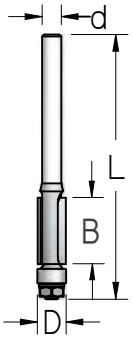

**K-** Can be ordered with Harder K-Carbide. While ordering, just add the letter "K" at the end of the Tool No.
Replacement Torx Screw – BT40060

# FLUSH TRIM BITS

With Ball Bearing Guide.

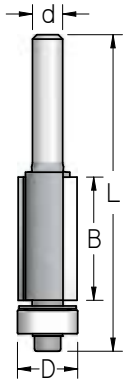
## F2

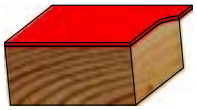
### 2 Flutes

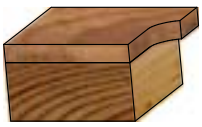


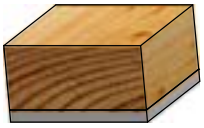

| Tool No. d=1/8" (3.17mm) | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|
| 1/8" Shank for CNC Routers, Dremel and equivalent rotary machines | | | | |
| F21048i | 4.8 | 10 | 44 | B048024 |

| Tool No. d=6mm | Tool No. d=1/4" | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|
| Nano Flush Trimmers with Miniature Bearing | | | | | |
| F210483 | F210484 | 4.8 | 11 | 51 | B048024 |
| F230483 | F230484 | 4.8 | 19 | 61 | B048024 |







| Tool No. d=6mm | Tool No. d=1/4" | Tool No. d=8mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| F220633 | F220634 | | 6.3 | 13 | 52 | B063032 |
| F230633 | F230634 | | 6.3 | 19 | 57 | B063032 |
| F240633 | F240634 | F240635 | 6.3 | 25 | 63 | B063032 |
| F250633 | F250634 | | 6.3 | 32 | 70 | B063032 |
| F240803 | F240804 | | 8.0 | 25 | 66 | B080040 |
| F220953 | F220954 | F220955 | 9.5 | 13 | 53 | B095048 |
| F230953 | F230954 | | 9.5 | 19 | 61 | B095048 |
| F240953 | F240954 | F240955 | 9.5 | 25 | 65 | B095048 |
| F250953 | F250954 | | 9.5 | 32 | 67 | B095048 |
| F221273 | F221274 | F221275 | 12.7 | 13 | 53 | B127048 |
| F231273 | F231274 | | 12.7 | 19 | 61 | B127048 |
| F241273 | F241274 | F241275 | 12.7 | 25 | 65 | B127048 |
| F251273 | F251274 | | 12.7 | 32 | 71 | B127048 |
| | | F271275 | 12.7 | 42 | 86 | B127048 |

| Tool No. d=12mm | Tool No. d=1/2" | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|
| F241272 | F241278 | 12.7 | 25 | 80 | B127048 |
| F251272 | F251278 | 12.7 | 32 | 90 | B127048 |
| F261272 | F261278 | 12.7 | 38 | 96 | B127048 |
| F281272 | F281278 | 12.7 | 51 | 115 | B127048 |
| F241902 | F241908 | 19.0 | 25 | 76 | B190063 |

Produced with Harder K-Carbide whenever possible

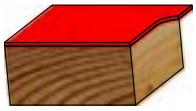
# F3

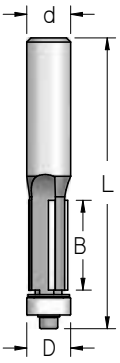
## 3 Flutes

For better surface finish and longer tool life in hard materials – wood, solid surface and others

| Tool No. d=6mm | Tool No. d=1/4" | Tool No. d=8mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| F321273 | F321274 | | 12.7 | 13 | 53 | B127048 |
| F341273 | F341274 | F341275 | 12.7 | 25 | 65 | B127048 |

| Tool No. d=12mm | Tool No. d=1/2" | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|
| F341272 | F341278 | 12.7 | 25 | 80 | B127048 |
| F361272 | F361278 | 12.7 | 38 | 96 | B127048 |
| F381272 | F381278 | 12.7 | 51 | 115 | B127048 |





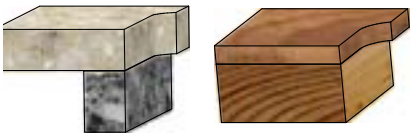

Produced with Harder K-Carbide whenever possible

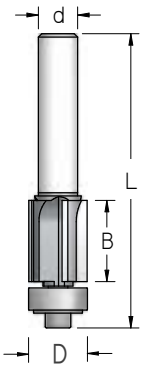
# F4

## 4 Flutes

For better surface finish and longer tool life in hard wood, solid surface and similar materials.

| Tool No. d=12mm | Tool No. d=1/2" | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|
| F441902 | F441908 | 19.0 | 25 | 75 | B190063 |
| F461902 | F461908 | 19.0 | 38 | 99 | B190063 |
| F481902 | F481908 | 19.0 | 51 | 115 | B190063 |





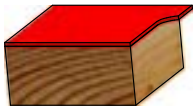

# F2/F3

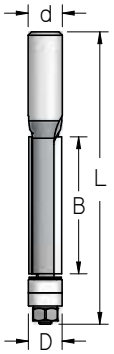
## Double Bearing Flush Trim Bits

For added stability.

| Tool No. d= 6mm | Tool No. d=1/4" | D mm | B mm | L mm | Flutes | Ball Bearing |
|---|---|---|---|---|---|---|
| F240983 | F240984 | 9.5 | 25 | 71 | 2 | B095048 x2 |

| Tool No. d=12mm | Tool No. d=1/2" | D mm | B mm | L mm | Flutes | Ball Bearing |
|---|---|---|---|---|---|---|
| F261282 | F261288 | 12.7 | 38 | 103 | 2 | B127048 x2 |
| F361282 | F361288 | 12.7 | 38 | 103 | 3 | B127048 x2 |
| F281282 | F281288 | 12.7 | 51 | 111 | 2 | B127048 x2 |



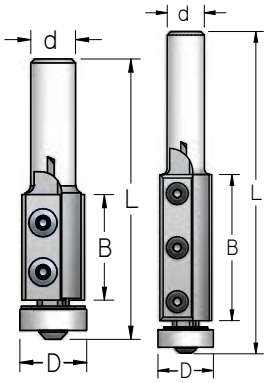



Produced with Harder K-Carbide whenever possible

# FM

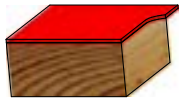
## Flush Trim Bit with replaceable Carbide Blades

Reduces set up time and cost effective.
Supplied with Torx Key.




| Tool No. d=6mm | Tool No. d=1/4" | Tool No. d=8mm | D mm | B mm | L mm | Blade No. | Ball Bearing |
|---|---|---|---|---|---|---|---|
| FM19003 | FM19004 | FM19005 | 19.0 | 12 | 52 | CM01212 x2 | B190060 |
| FM19013 /K | FM19014 /K | FM19015 /K | 19.0 | 30 | 70 | CM03012b x2 | B190060 |

| Tool No. d=12mm | Tool No. d=1/2" | D mm | B mm | L mm | Blade No. | Ball Bearing |
|---|---|---|---|---|---|---|
| 2 gripping screws | | | | | | |
| FM19012 /K | FM19018 /K | 19.0 | 30 | 79 | CM03012b x2 | B190060 |
| 3 gripping screws for heavy duty tasks | | | | | | |
| FM19022 /K | FM19028 /K | 19.0 | 50 | 110 | CM501217 x2 | B190060 |

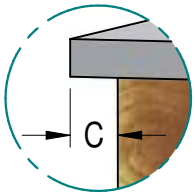


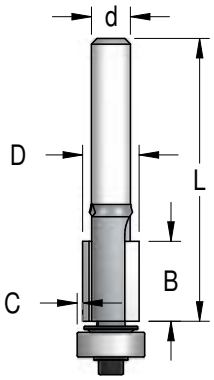
**K-** Can be ordered with Harder K-Carbide. While ordering, just add the letter "K" at the end of the Tool No.
Replacement Torx Screw – BT40060

# FO

## Overhang Trim Bits

Used when the upper panel should overhang the side panel.
Common for making lighted sign letters.



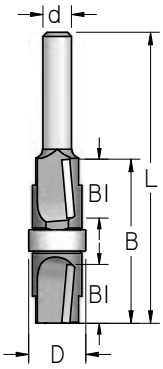




| Tool No. d=6mm | Tool No. d=1/4" | C mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| FO20953 | FO20954 | 0.75 | 9.5 | 13 | 53 | B110050 |
| FO21953 | FO21954 | 0.25 | 9.5 | 13 | 53 | B100050 |

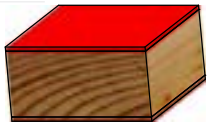
# FT

## Double Sided Laminate Trimmer

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




| Tool No. d=6mm | Tool No. d=1/4" | Tool No. d=8mm | D mm | B mm | B1 mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|
| FT51273 | FT51274 | FT51275 | 12.7 | 35 | 13 | 65 | B127063 |

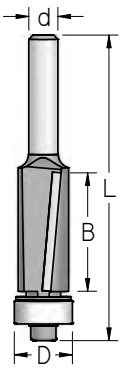


| Tool No. d=12mm | Tool No. d=1/2" | D mm | B mm | B1 mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| FT51272 | FT51278 | 12.7 | 35 | 13 | 79 | B127063 |

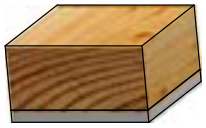
# FU

## Up Shear Flush Trim Bits

For Faster Feed Rates.




| Tool No. d=6mm | Tool No. d=1/4" | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|
| FU41273 | FU41274 | 12.7 | 25 | 80 | B127048 |



| Tool No. d=12mm | Tool No. d=1/2" | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|
| FU61902 | FU61908 | 19.0 | 38 | 100 | B190063 |
| FU81902 | FU81908 | 19.0 | 51 | 113 | B190063 |

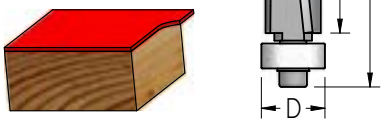
# FS

## Down Shear Laminate Trimmers

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

| Tool No. | | | D | B | L | Ball Bearing |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | |
| FS20953 | FS20954 | | 9.5 | 13 | 53 | B095048 |
| FS41273 | FS41274 | FS41275 | 12.7 | 25 | 65 | B127048 |
| F221603 | F221604 | | 16.0 | 16 | 55 | B160050 |
| F221903 | F221904 | | 19.0 | 16 | 61 | B190063 |

| Tool No. | | D | B | L | Ball Bearing |
|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | |
| FS41272 | FS41278 | 12.7 | 25 | 80 | B127048 |
| FS61902 | FS61908 | 19.0 | 38 | 100 | B190063 |
| FS81902 | FS81908 | 19.0 | 51 | 113 | B190063 |



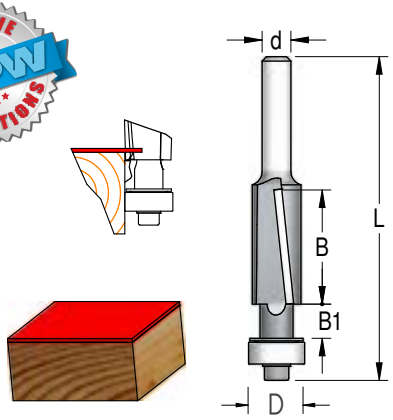

# FSG

## Laminate Trimmers with Adhesive Trapping Gap

Smooth guiding despite excess of glue.

| Tool No. | | D | B | B1 | L | Ball Bearing |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm | mm | |
| FSG1273 | FSG1274 | 12.7 | 25 | 8 | 72 | B127048 |

| Tool No. | | D | B | B1 | L | Ball Bearing |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | |
| FSG1272 | FSG1278 | 12.7 | 25 | 8 | 82 | B127048 |




# Bevel Trim Bits

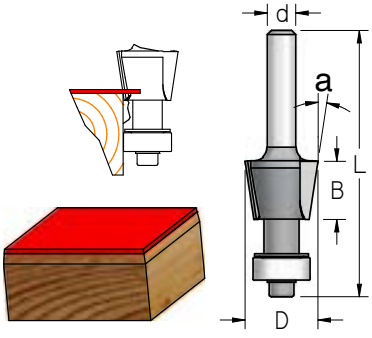
# SL

## Bevel Trim Bit - Down Shear

Smooth guiding despite excess of glue.

The combination of 8° bevel and the down shear flute design, ensures a perfect clean finish on laminates.

| Tool No. | | a | D | B | L | Ball Bearing |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | degrees | mm | mm | mm | |
| SL20803 | SL20804 | 8 | 16 | 12 | 58 | B127048 |

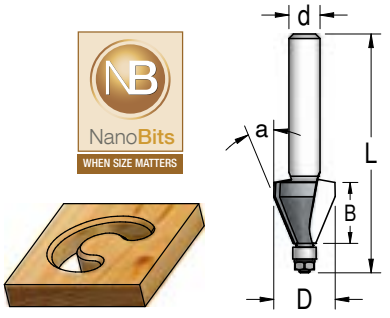



# SL

## Nano Bevel Trim bits with Miniature Bearing

2 Flutes

| Tool No. | | a | D | B | L | Ball Bearing |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | degrees | mm | mm | mm | |
| SL00073 | SL00074 | 7 | 6.3 | 8 | 48 | B048024 |
| SL00223 | SL00224 | 22.5 | 12.7 | 12 | 48 | B048024 |
| SL00453 | SL00454 | 45 | 14.3 | 6.3 | 48 | B048024 |

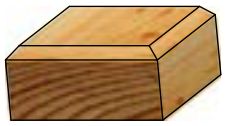


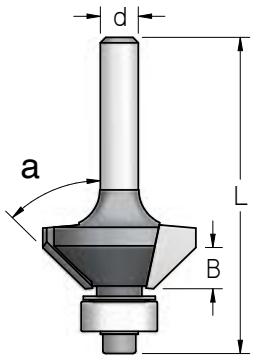
# SL2

## Bevel Trim bits - 2 Flutes

| Tool No. d=6mm | Tool No. d=1/4" | d=8mm | a degrees | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| MSL2223 | MSL2224 | | 22 | 7 | 45 | B063032 |
| MSL2453 | MSL2454 | | 45 | 6 | 45 | B080040 |
| SL21123 | SL21124 | SL21125 | 11.25 | 22 | 67 | B127048 |
| SL21503 | SL21504 | SL21505 | 15 | 6 | 51 | B127048 |
| SL21513 | SL21514 | | 15 | 16 | 60 | B127048 |
| SL22503 | SL22504 | | 25 | 6 | 51 | B127048 |
| SL22513 | SL22514 | | 25 | 10 | 51 | B095048 |
| SL24503 | SL24504 | SL24505 | 45 | 6 | 51 | B127048 |
| SL24513 | SL24514 | SL24515 | 45 | 11 | 51 | B127048 |

| Tool No. d=12mm | Tool No. d=1/2" | a degrees | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|
| SL22252 | SL22258 | 22.5 | 22 | 73 | B127048 |
| SL22512 | SL22518 | 25 | 18 | 66 | B127048 |
| SL24512 | SL24518 | 45 | 11 | 62 | B127048 |
| SL24532 | SL24538 | 45 | 19 | 70 | B127048 |
| SL24542 | SL24548 | 45 | 25 | 73 | B127048 |
| SL26002 | SL26008 | 60 | 8 | 69 | B127048 |





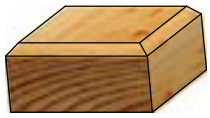

# SL3

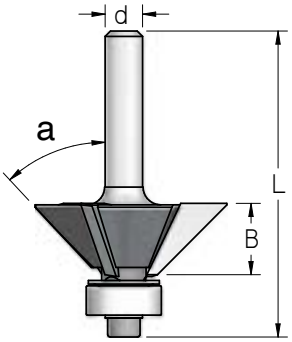
## Bevel Trim bits - 3 Flutes

For better surface finish and longer tool life.

| Tool No. d=6mm | Tool No. d=1/4" | a degrees | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|
| SL30703 | SL30704 | 7 | 10 | 51 | B160050 |
| SL31503 | SL31504 | 15 | 10 | 51 | B160050 |
| SL32203 | SL32204 | 22 | 10 | 51 | B160050 |
| SL33003 | SL33004 | 30 | 10 | 51 | B160050 |
| SL34503 | SL34504 | 45 | 11 | 51 | B127048 |

| Tool No. d=12mm | Tool No. d=1/2" | a degrees | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|
| SL34502 | SL34508 | 45 | 11 | 62 | B127048 |





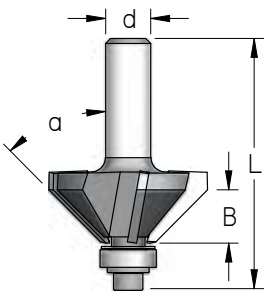

Produced with Harder K-Carbide whenever possible

# SL4

## Bevel Trim bit – 4 Flutes

For extra fine finish and longer tool life

| Tool No. d=12mm | Tool No. d=1/2" | a degrees | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|
| SL44522 | SL44528 | 45 | 14 | 67 | B159063 |

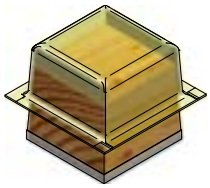


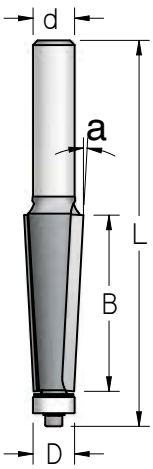
# SL

## 3° Patternmaker

For making wood vacuum-forming molds.
It can be used to bevel the leading edge on a door.

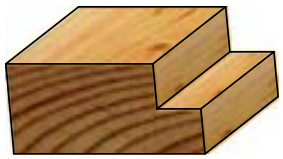
| Tool No. d=12mm | Tool No. d=1/2" | a degrees | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| SL20392 | SL20398 | 3 | 12.7 | 54 | 117 | B127048 |





# Rabbeting Bits

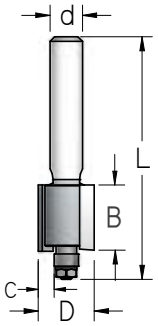
With Ball Bearing Guide.
Tools with 3 and 4 flutes are recommended,
when a smooth finish is required and for hard materials.



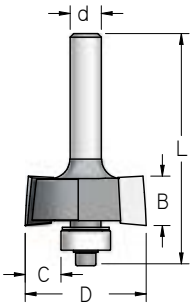
## E2

### 2 Flutes

| Tool No. d=6mm | Tool No. d=1/4" | C mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| Nano Flush Trimmers with Miniature Bearing | | | | | | |
| E200163 | E200164 | 1.5 | 7.9 | 12 | 50 | B048024 |
| E200323 | E200324 | 3.2 | 11.1 | 13 | 47 | B048024 |




| Tool No. d=6mm | Tool No. d=1/4" | Tool No. d=8mm | C mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|
| E220503 | E220504 | | 4.8 | 22.2 | 12.5 | 49 | B127048 |
| E220633 | E220634 | | 6.3 | 22.2 | 12.5 | 49 | B095048 |
| E220953 | E220954 | E220955 | 9.5 | 31.8 | 12.5 | 51 | B127048 |
| E221113 | E221114 | E221115 | 11.1 | 31.8 | 12.5 | 51 | B095048 |
| E221273 | E221274 | | 12.7 | 35.0 | 12.5 | 51 | B095048 |



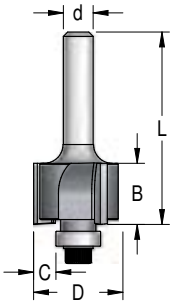

| Tool No. d=12mm | Tool No. d=1/2" | C mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| E220952 | E220958 | 9.5 | 31.8 | 12.5 | 59 | B127048 |
| E221112 | E221118 | 11.1 | 31.8 | 12.5 | 59 | B095048 |
| E221272 | E221278 | 12.7 | 35.0 | 12.5 | 59 | B095048 |

## E3

### 3 Flutes

For better surface finish and longer tool life.

| Tool No. d=6mm | Tool No. d=1/4" | C mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| E320323 | E320324 | 3.2 | 19.0 | 12.5 | 51 | B127048 |
| E320503 | E320504 | 4.8 | 22.2 | 12.5 | 49 | B127048 |



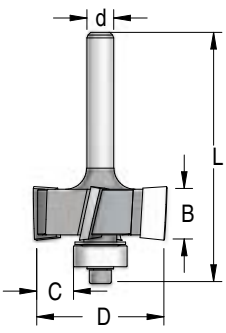

## E4

### 4 Flutes

For better surface finish and longer tool life.

| Tool No. d=6mm | Tool No. d=1/4" | C mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| E420953 | E420954 | 9.5 | 31.8 | 12.5 | 49 | B127048 |

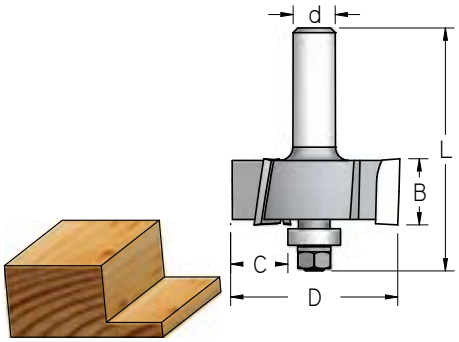
| Tool No. d=12mm | Tool No. d=1/2" | C mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| E420952 | E420958 | 9.5 | 31.8 | 12.5 | 59 | B127048 |



# E33

## Extra Large Rabbeting Bits - 3 Flutes

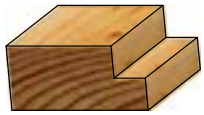
| Tool No. | | C | D | B | L | Ball Bearing |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | |
| E331502 | E331508 | 15 | 52.0 | 19 | 77 | B220060 |
| E331652 | E331658 | 16.5 | 52.0 | 19 | 77 | B190060 |
| E331852 | E331858 | 18.5 | 52.0 | 19 | 77 | B150060 x2 |
| E332002 | E332008 | 20 | 52.0 | 19 | 77 | B120060 x2 |

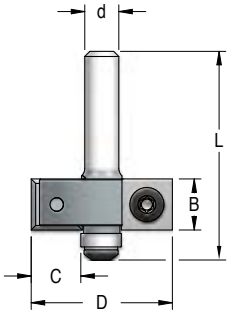



# EM

## Rabbeting bit with replaceable blades

Reduces set up time and cost effective.
Supplied with Torx key.






| | Tool No. | | Flutes | C | D | B | L | Ball Bearing | Blade No. |
|---|---|---|---|---|---|---|---|---|---|
| d=8mm | d=12mm | d=1/2" | | mm | mm | mm | mm | | |
| EM21275 **/K** | | | 2 | 12.7 | 35.0 | 12 | 54 | B095063 | CM01212 **/K** |
| | EM21272 **/K** | EM21278 **/K** | 2 | 12.7 | 35.0 | 12 | 65 | B095063 | CM01212 **/K** |
| | EM42222 **/K** | EM42228 **/K** | 4 | 22.2 | 57.0 | 12 | 67 | B127063 | CM01212 **/K** |

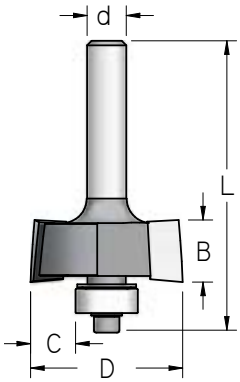
**K-** Can be ordered with Harder K-Carbide. While ordering, just add the letter "K" at the end of the Tool No.
Replacement Torx Screw – BT40060

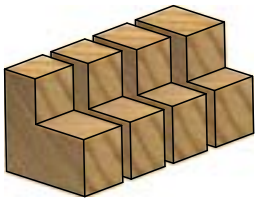
# ES

## Rabbeting Set - 2 flutes

4 Ball Bearing guides for different rabbets.

| Tool No. | | | D | B | L | C | Ball Bearing |
|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | mm | |
| ES20003 | ES20004 | | 31.8 | 12.5 | 60 | 6.3 | B190063 |
| | | | | | | 8.0 | B159063 |
| | | | | | | 9.5 | B127063 |
| | | | | | | 11 | B095063 |
| | | ES20005 | 31.8 | 12.5 | 60 | 6.3 | B190048 |
| | | | | | | 8.0 | B160048 |
| | | | | | | 9.5 | B127048 |
| | | | | | | 11 | B095048 |



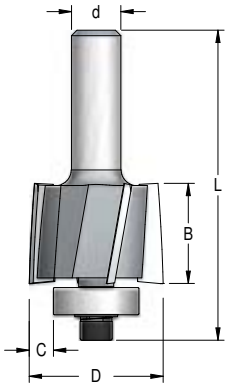
| Tool No. | | D | B | L | C | Ball Bearing |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | |
| ES20002 | ES20008 | 31.8 | 12.5 | 65 | 6.3 | B190063 |
| | | | | | 8.0 | B159063 |
| | | | | | 9.5 | B127063 |
| | | | | | 11 | B095063 |

# E4S

## Rabbeting Set - 4 flutes

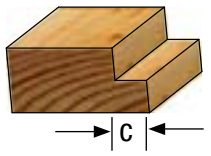
5 Ball Bearing guides for different rabbets

| Tool No. d=12mm | Tool No. d=1/2" | D mm | B mm | L mm | C mm | Ball Bearing |
|---|---|---|---|---|---|---|
| E4S3502 | E4S3508 | 35.0 | 24 | 79 | 6.5 | B220080 |
| | | | | | 8.0 | B190063 |
| | | | | | 9.5 | B159063 |
| | | | | | 11.1 | B127063 |
| | | | | | 12.7 | B095063 x 2 |




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

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




| Tool No. d=6mm | Tool No. d=1/4" | Tool No. d=8mm | Ball Bearing c=1.6 | c=3.2 | c=4.8 | c=6.3 | c=7.9 | c=9.5 | c=11.1 | c=12.7 |
|---|---|---|---|---|---|---|---|---|---|---|
| E200163 | E200164 | | B048024 | | | | | | | |
| E200323 | E200324 | | | B048024 | | | | | | |
| E220503 | E220504 | | B190048 | B160048 | B127048 | B095048 | | | | |
| E220953 | E220954 | E220955 | | | | B190048 | B160048 | B127048 | B095048 | |
| E221273 | E221274 | | | | | | B190048 | B160048 | B127048 | B095048 |
| E320323 | E320324 | | B160048 | B127048 | B095048 | | | | | |
| E320503 | E320504 | | B190048 | B160048 | B127048 | B095048 | | | | |
| E420953 | E420954 | | | | | B190048 | B160048 | B127048 | B095048 | |
| | | EM21275 | | | | | B190063 | B159063 | B127063 | B095063 |

| Tool No. d=12mm | Tool No. d=1/2" | Ball Bearing c=6.3 | c=7.9 | c=9.5 | c=11.1 | c=12.7 |
|---|---|---|---|---|---|---|
| E220952 | E220958 | B190048 | B160048 | B127048 | B095048 | |
| E221272 | E221278 | | B190048 | B160048 | B127048 | B095048 |
| E420952 | E420958 | B190048 | B160048 | B127048 | B095048 | |
| EM21272 | EM21278 | | B190063 | B159063 | B127063 | B095063 |

# Binding/Rabbeting Set

## Inlay Router Bits – Down Shear design with 3 flutes for clean cuts

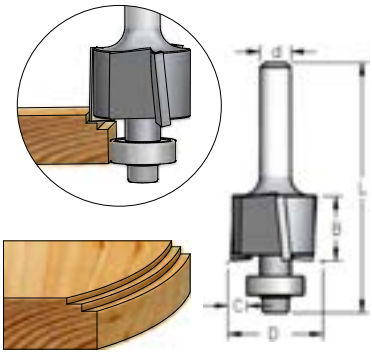
**The ultimate guitar binding set! Designed especially for Luthiers.**

These sets include five different bearings that allow producing 10 different rabbets from just 1.0mm rabbet up to 5.5mm (in 0.5mm increments). Extended gap between the cutter and the bearing for safely routing multiple passes.

## E3SG

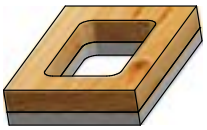
### 3 Flutes

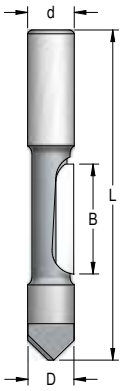
| Tool No. | | D | B | L | C | Ball |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm | | Bearing |
| E3SG153 | E3SG154 | 15.0 | 11.5 | 53 | 1.0 | B130040 |
| | | | | | 1.5 | B120040 |
| | | | | | 2.0 | B110040 |
| | | | | | 2.5 | B100040 |
| | | | | | 3.0 | B090040 |
| E3SG203 | E3SG204 | 20.0 | 13.5 | 53 | 3.5 | B130040 |
| | | | | | 4.0 | B120040 |
| | | | | | 4.5 | B110040 |
| | | | | | 5.0 | B100040 |
| | | | | | 5.5 | B090040 |




# PANEL PILOT BITS

Carbide Tipped with hardened pilot and boring point. Panel Pilot Bits are designed for fast cut out work, using a template. Widely used in the caravan industry.






## PPC

### Single Concave Flute

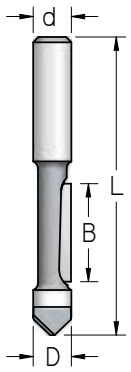
For better chip flow and longer tool life.

| Tool No. | | | | | D | B | L |
|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=3/8" | d=12mm | d=1/2" | mm | mm | mm |
| PPC0633 | PPC0634 | | | | 6.3 | 19 | 63 |
| | | PPC0956 | | | 9.5 | 25 | 79 |
| | | | PPC1272 | PPC1278 | 12.7 | 30 | 89 |

## PP

### Single Flute

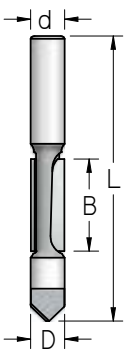
| Tool No. | | | | | D | B | L |
|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=3/8" | d=12mm | d=1/2" | mm | mm | mm |
| PP30633 | PP30634 | | | | 6.3 | 19 | 63 |
| | | PP40956 | | | 9.5 | 25 | 79 |
| | | | PP51272 | PP51278 | 12.7 | 30 | 89 |
| | | | PP81272 | PP81278 | 12.7 | 51 | 120 |
| | | | PP81602 | PP81608 | 16.0 | 51 | 120 |




## PP2

### Double Flute

| Tool No. | | | | | D | B | L |
|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=3/8" | d=12mm | d=1/2" | mm | mm | mm |
| PP20633 | PP20634 | | | | 6.3 | 19 | 63 |
| | | PP20956 | | | 9.5 | 25 | 79 |
| | | | PP21272 | PP21278 | 12.7 | 30 | 89 |
| | | | PP28122 | PP28128 | 12.7 | 51 | 120 |



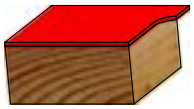
# SOLID CARBIDE BITS – SINGLE FLUTE

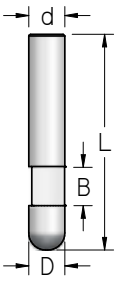
Classic design for mass production.
Integrated Pilot (without ball bearing).

## SCF

### Flush Trim Laminate bits

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm |
| SCF1633 | | 6.0 | 6 | 38 |
| | SCF1634 | 6.35 | 6 | 38 |
| SCF2633 | | 6.0 | 9.5 | 38 |
| | SCF2634 | 6.35 | 9.5 | 38 |



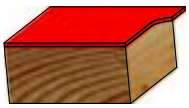


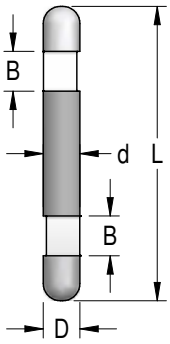

## SCF...W

### Double Ended Flush Trim Laminate bits.

Cost Effective.

| Tool No. | D | B | L |
|---|---|---|---|
| d=1/4" | mm | mm | mm |
| SCF1634W | 6.35 | 6 | 51 |

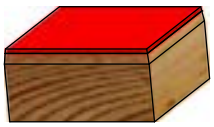


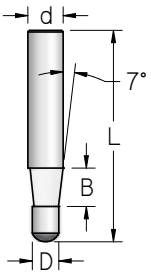



## SCSL

### Bevel Trim Laminate bits 7°

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm |
| SCSL073 | SCSL074 | 4.8 | 6 | 38 |



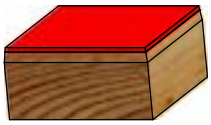


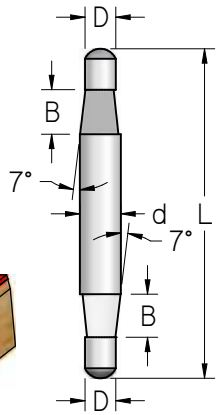

## SCSL...W

### Double Ended Bevel Trim Laminate bits 7°

Cost Effective.

| Tool No. | D | B | L |
|---|---|---|---|
| d=1/4" | mm | mm | mm |
| SCSL074W | 4.8 | 6 | 51 |

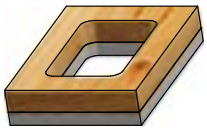


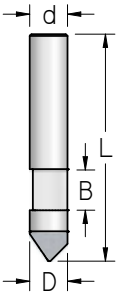



## SCPP

### Boring & Flush Trimmer

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm |
| SCPP633 | | 6.0 | 6.5 | 40 |
| | SCPP634 | 6.35 | 6.5 | 38 |



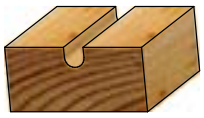


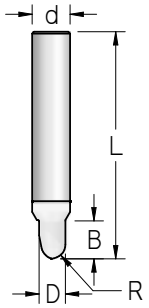
# SCRB

## Veining Bits

Solid Carbide, Single Flute

| Tool No. | | R | D | B | L |
|---|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm | mm |
| SCRB323 | SCRB324 | 1.6 | 3.2 | 5 | 38 |
| SCRB483 | SCRB484 | 2.4 | 4.8 | 6.5 | 38 |
| | SCRB634 | 3.2 | 6.35 | 9 | 38 |



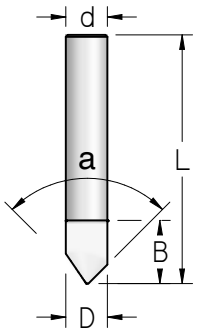



# SCV

## “V” Grooving Veining Bits

Solid Carbide, Single Flute

| Tool No. | | a | D | B | L |
|---|---|---|---|---|---|
| d=6mm | d=1/4" | degrees | mm | mm | mm |
| SCV6003 | | 60 | 6.0 | 12 | 40 |
| | SCV6004 | 60 | 6.35 | 12 | 38 |
| SCV9003 | | 90 | 6.0 | 9.5 | 40 |
| | SCV9004 | 90 | 6.35 | 9.5 | 38 |

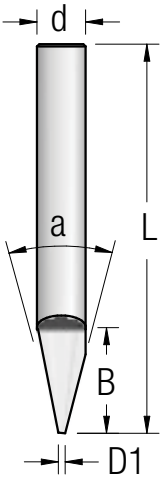



# SE

## Engraving Bits with Mirror Finish Carbide

For sign making and PCB milling. Used with CNC and industrial engraving machines for wood, plastic, brass, aluminum, copper and different composites.
Solid Carbide, Single Flute

| Tool No. | | | a | D1 | B | L |
|---|---|---|---|---|---|---|
| d=3mm | d=6mm | d=1/4” | degrees | mm | mm | mm |
| SE300130m | | | 30 | 0.1 | 11 | 40 |
| SE450130m | | | 45 | 0.1 | 11 | 40 |
| SE600130m | | | 60 | 0.1 | 11 | 40 |
| SE900130m | | | 90 | 0.1 | 11 | 40 |
| | SE300160m | | 30 | 0.1 | 14 | 40 |
| | SE30013 | | 30 | 0.1 | 14 | 50 |
| | SE30023 | | 30 | 0.25 | 14 | 50 |
| | SE30053 | | 30 | 0.5 | 14 | 50 |
| | SE30103 | | 30 | 1.0 | 14 | 50 |
| | SE450160m | | 45 | 0.1 | 14 | 40 |
| | SE600160m | | 60 | 0.1 | 14 | 40 |
| | SE900160m | | 90 | 0.1 | 14 | 40 |
| | | SE30014X | 30 | 0.1 | 14 | 58 |
| | | SE30024X | 30 | 0.25 | 14 | 58 |
| | | SE30054X | 30 | 0.5 | 14 | 58 |
| | | SE30084X | 30 | 0.75 | 14 | 58 |
| | | SE30104X | 30 | 1.0 | 14 | 58 |
| | | SE30154X | 30 | 1.5 | 14 | 58 |
| | | SE30254X | 30 | 2.5 | 14 | 58 |



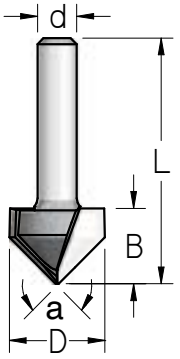
# Carbide Tipped "V" Grooving Bits

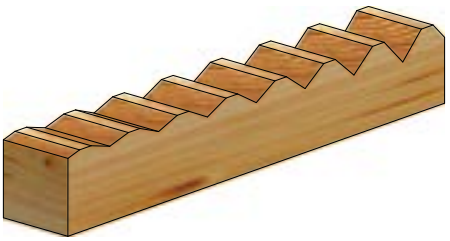
## V

### "V" - Grooving Bits

For General Woodworking

| Tool No. d=6mm | Tool No. d=1/4" | Tool No. d=8mm | a degrees | D mm | B mm | L mm |
|---|---|---|---|---|---|---|
| MV60953 | MV60954 | | 60 | 9.5 | 10 | 41 |
| V601273 | V601274 | V601275 | 60 | 12.7 | 16 | 45 |
| V900953 | V900954 | V900955 | 90 | 9.5 | 11 | 43 |
| V901273 | V901274 | V901275 | 90 | 12.7 | 12 | 44 |
| V901603 | V901604 | | 90 | 16.0 | 13 | 41 |
| | | V901605 | 90 | 16.0 | 13 | 45 |
| V901903 | V901904 | | 90 | 19.0 | 16 | 45 |
| | | V901905 | 90 | 19.0 | 16 | 48 |
| V902503 | V902504 | | 90 | 25.4 | 19 | 48 |
| | | V902505 | 90 | 25.4 | 19 | 51 |
| V903203 | V903204 | | 90 | 31.8 | 25 | 55 |
| V100323 | V100324 | | 100 | 31.8 | 21 | 53 |
| V110323 | V110324 | | 110 | 31.8 | 20 | 51 |
| V120323 | V120324 | | 120 | 31.8 | 18 | 48 |
| V130323 | V130324 | | 130 | 31.8 | 12 | 45 |
| V140323 | V140324 | | 140 | 31.8 | 12 | 43 |
| V150323 | V150324 | | 150 | 31.8 | 12 | 42 |



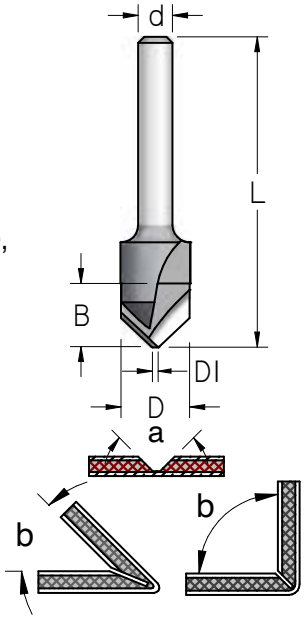



| Tool No. d=12mm | Tool No. d=1/2" | a degrees | D mm | B mm | L mm |
|---|---|---|---|---|---|
| V901272 | V901278 | 90 | 12.7 | 12 | 55 |
| V901602 | V901608 | 90 | 16.0 | 13 | 51 |
| V901902 | V901908 | 90 | 19.0 | 16 | 54 |
| V902502 | V902508 | 90 | 25.4 | 19 | 57 |
| V903202 | V903208 | 90 | 31.8 | 25 | 63 |
| V903802 | V903808 | 90 | 38.1 | 32 | 70 |
| V100322 | V100328 | 100 | 31.8 | 21 | 70 |
| V110322 | V110328 | 110 | 31.8 | 20 | 70 |
| V120322 | V120328 | 120 | 31.8 | 18 | 70 |
| V150322 | V150328 | 150 | 31.8 | 12 | 70 |

## VE

### "V"-Grooving for Shaping Panels

Designed for folding and shaping Aluminum Composite cladding Materials Such as Alucobond, Dibond etc. Routing V-shaped grooves into the aluminum cover and part of the polyethylene core, allows folding the remaining material by hand.




| Tool No. d=6mm | Tool No. d=1/4" | Tool No. d=8mm | a degrees | b degrees | D mm | D1 mm | B mm | L mm |
|---|---|---|---|---|---|---|---|---|
| VE90123 | VE90124 | | 90 | 90 | 13.0 | 3 | 12.5 | 57 |
| | | VE90125 | 90 | 90 | 13.0 | 2.4 | 12.5 | 57 |
| VE13503 | VE13504 | VE13505 | 135 | 45 | 18.0 | 2 | 15.5 | 57 |

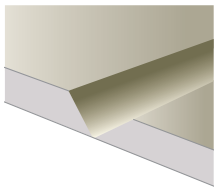
| Tool No. d=12mm | Tool No. d=1/2" | a degrees | b degrees | D mm | D1 mm | B mm | L mm |
|---|---|---|---|---|---|---|---|
| VE13512 | VE13518 | 135 | 45 | 19.0 | 2 | 9.5 | 63 |

# VG

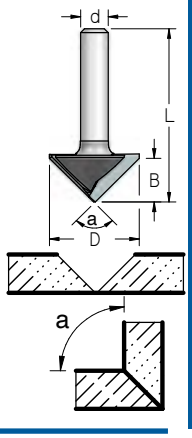
## Gypsum plasterboard “V” grooving bits

Cuts grooves for folding. The plasterboard cover is not cut through, allowing the corner to be folded.

| Tool No. | | | a | D | B | L |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | degrees | mm | mm | mm |
| VG45143 | VG45144 | VG45145 | 45 | 14.0 | 16 | 54 |
| VG90273 | VG90274 | VG90275 | 90 | 26.0 | 12.7 | 50 |
| | | VG90375 | 90 | 37.0 | 18 | 57 |



After Folding

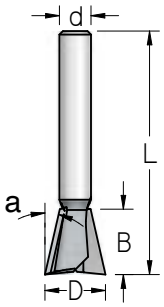



# Z

## Dovetail Bits

| Tool No. | | | a | D | B | L |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | degrees | mm | mm | mm |
| Z100903 | Z100904 | Z100905 | 9 | 9.5 | 9.5 | 51 |
| Z131403 | Z131404 | Z131405 | 14 | 12.7 | 12.5 | 51 |

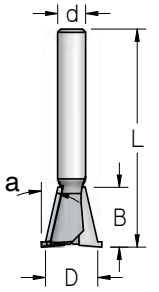
| Tool No. | | a | D | B | L |
|---|---|---|---|---|---|
| d=12mm | d=1/2" | degrees | mm | mm | mm |
| Z072202 | Z072208 | 7 | 22.0 | 22 | 60 |
| Z100902 | Z100908 | 9 | 9.5 | 9.5 | 54 |
| Z131402 | Z131408 | 14 | 12.7 | 12.5 | 54 |
| Z142542 | Z142548 | 14 | 25.4 | 25 | 69.5 |




# Z

## Dovetail Bits, with relieving teeth

| Tool No. | | a | D | B | L |
|---|---|---|---|---|---|
| d=6mm | d=1/4" | degrees | mm | mm | mm |
| Z141403 | Z141404 | 14 | 12.7 | 13 | 49 |

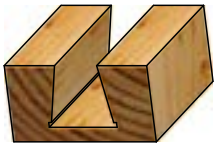


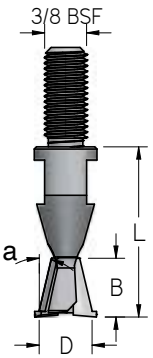

# ZB

## Brookman Dovetail Bits

For Brookman Machines

| Tool No. | a | D | B | L |
|---|---|---|---|---|
| | degrees | mm | mm | mm |
| ZB13146 | 10 | 13.2 | 12.7 | 38 |

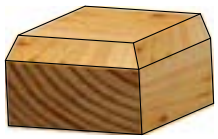


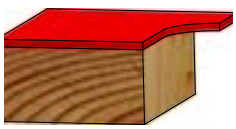


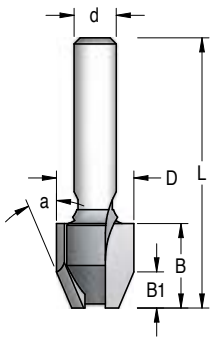

# SF

## Combination Flush & Bevel Trimming Bit

| Tool No. | | a | D | B | B1 | L |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | degrees | mm | mm | mm | mm |
| SF12123 | SF12124 | 23 | 12 | 12.5 | 5 | 41 |





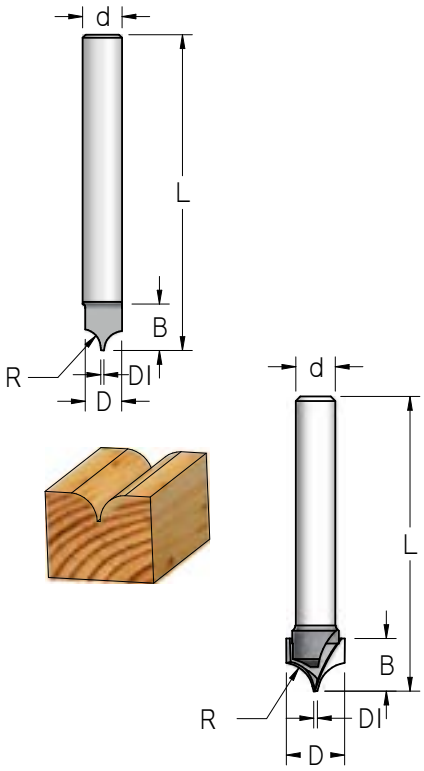


# RU

## Panel and Veining Bits

| Tool No. | | R | D | D1 | B | L |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm | mm | mm |
| | | Solid Carbide Single Flute | | | | |
| | SCRU084 | 0.8 | 2.8 | 0.5 | 4.8 | 57 |
| | SCRU164 | 1.6 | 4.0 | 0.5 | 5.5 | 57 |
| | SCRU244 | 2.4 | 5.0 | 0.5 | 6.3 | 57 |
| | SCRU324 | 3.2 | 6.3 | 0.5 | 7 | 51 |
| | | Carbide Tipped 2 Flutes | | | | |
| RU05003 | RU05004 | 4.8 | 9.5 | 0.7 | 9 | 51 |
| RU06003 | RU06004 | 6.2 | 13.0 | 0.7 | 13 | 51 |
| RU07003 | RU07004 | 7.5 | 14.5 | 0.7 | 15 | 55 |
| RU09003 | RU09004 | 9.5 | 19.0 | 1.1 | 18 | 51 |
| RU12003 | RU12004 | 12.7 | 25.4 | 1.0 | 19 | 51 |

| Tool No. | | R | D | D1 | B | L |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm |
| RU05002 | RU05008 | 4.8 | 9.5 | 0.7 | 9 | 54 |
| RU09002 | RU09008 | 9.5 | 19.0 | 1.1 | 18 | 57 |

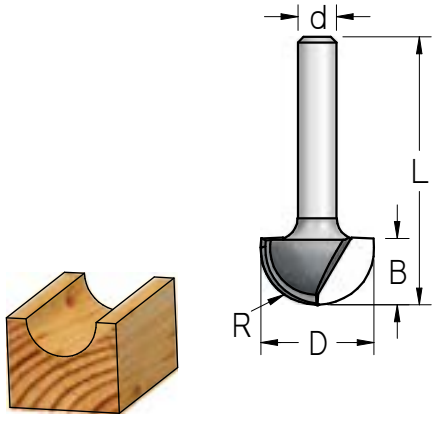



# RB

## Classical Core Box bits

| | Tool No. | | R | D | B | L |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | mm |
| RB06003 | RB06004 | RB06005 | 3.2 | 6.3 | 5.5 | 42 |
| RB08003 | RB08004 | RB08005 | 4.0 | 8.0 | 6 | 38 |
| RB10003 | RB10004 | | 4.8 | 9.5 | 6 | 38 |
| | | RB10005 | 4.8 | 9.5 | 6 | 42 |
| RB12003 | RB12004 | RB12005 | 6.3 | 12.7 | 9 | 41 |
| RB16003 | RB16004 | RB16005 | 8.0 | 16.0 | 9.5 | 43 |
| RB19003 | RB19004 | RB19005 | 9.5 | 19.0 | 11 | 44 |
| RB22003 | RB22004 | | 11.1 | 22.2 | 14 | 46 |
| | | RB22005 | 11.1 | 22.2 | 14 | 43 |
| RB25003 | RB25004 | | 12.7 | 25.4 | 16 | 48 |
| | | RB25005 | 12.7 | 25.4 | 16 | 50 |

| Tool No. | | R | D | B | L |
|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm |
| RB10002 | RB10008 | 4.8 | 9.5 | 6 | 51 |
| RB12002 | RB12008 | 6.3 | 12.7 | 9 | 54 |
| RB16002 | RB16008 | 8.0 | 16.0 | 9.5 | 51 |
| RB19002 | RB19008 | 9.5 | 19.0 | 11 | 52 |
| RB22002 | RB22008 | 11.1 | 22.2 | 14 | 57 |
| RB25002 | RB25008 | 12.7 | 25.4 | 16 | 60 |



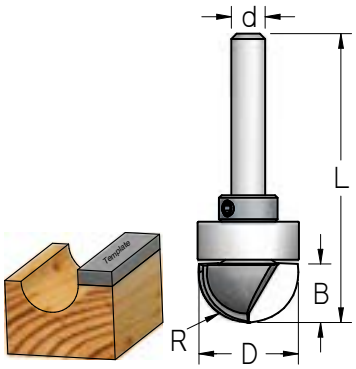
# DB

## Core Box Template Bits

With Ball Bearing Guide.

| Tool No. | | R | D | B | L | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm | mm | | |
| DB16003 | DB16004 | 8.0 | 16.0 | 9 | 52 | B159063 | PF06300 |
| DB19003 | DB19004 | 9.5 | 19.0 | 11 | 53 | B190063 | PF06300 |

| Tool No. | | R | D | B | L | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | | |
| DB19002 | DB19008 | 9.5 | 19.0 | 11 | 83 | B190127 x2 | PF19000 |
| DB25002 | DB25008 | 12.7 | 25.4 | 16 | 83 | B254127A | PF19000 |

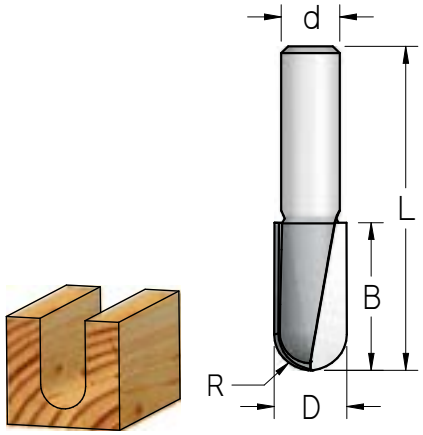



# RBL

## Core Box Bits - Extra Deep

| Tool No. | | | R | D | B | L |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | mm |
| RBL0323 | RBL0324 | RBL0325 | 1.6 | 3.2 | 9.5 | 44 |
| RBL0483 | RBL0484 | RBL0485 | 2.4 | 4.8 | 13 | 47 |
| RBL0633 | RBL0634 | RBL0635 | 3.2 | 6.3 | 13 | 47 |
| RBL0803 | RBL0804 | | 4.0 | 8.0 | 13 | 47 |
| | | RBL0805 | 4.0 | 8.0 | 13 | 50 |

| Tool No. | | R | D | B | L |
|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm |
| RBL1002 | RBL1008 | 4.8 | 9.5 | 25 | 70 |
| RBL1272 | RBL1278 | 6.3 | 12.7 | 32 | 73 |
| RBL1402 | RBL1408 | 7.1 | 14.2 | 32 | 73 |
| RBL1602 | RBL1608 | 7.9 | 16.0 | 32 | 70 |
| RBL1902 | RBL1908 | 9.5 | 19.0 | 32 | 70 |
| RBL2202 | RBL2208 | 11.1 | 22.2 | 32 | 70 |
| RBL2502 | RBL2508 | 12.7 | 25.4 | 32 | 70 |

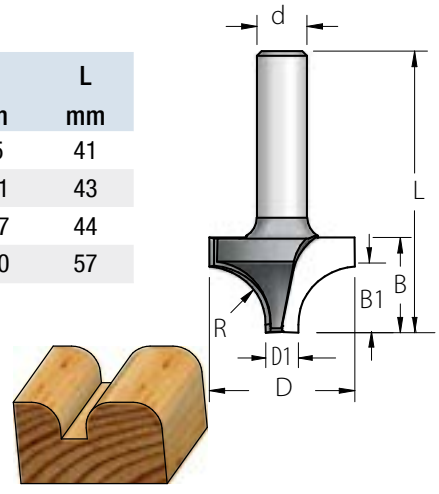



# RV

## Plunging Rounding Over Bits

| Tool No. | | | R | D | D1 | B | B1 | L |
|---|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | mm | mm | mm |
| RV06003 | RV06004 | RV06005 | 6.3 | 19.0 | 6.3 | 13 | 9.5 | 41 |
| RV08003 | RV08004 | RV08005 | 8.0 | 22.2 | 6.3 | 14 | 11.1 | 43 |
| RV10003 | RV10004 | RV10005 | 9.5 | 25.4 | 6.3 | 16 | 12.7 | 44 |
| | | RV12005 | 12.7 | 35.0 | 9.5 | 25 | 19.0 | 57 |

| Tool No. | | R | D | D1 | B | B1 | L |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm | mm |
| RV06002 | RV06008 | 6.3 | 19.0 | 6.3 | 13 | 9.5 | 51 |
| RV08002 | RV08008 | 8.0 | 22.2 | 6.3 | 14 | 11.1 | 52 |
| RV10002 | RV10008 | 9.5 | 25.4 | 6.3 | 16 | 12.7 | 54 |
| RV12002 | RV12008 | 12.7 | 35.0 | 9.5 | 25 | 19.0 | 63 |
| RV16002 | RV16008 | 16.0 | 44.5 | 12.7 | 32 | 25.4 | 70 |
| RV19002 | RV19008 | 19.0 | 50.8 | 12.7 | 38 | 28.6 | 75 |

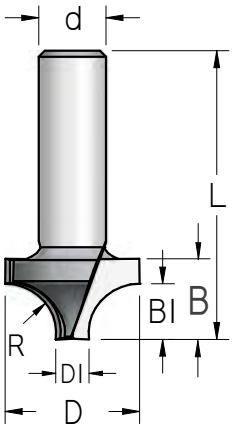


# RH

## Plunging Beading & Rounding Over Bits

| Tool No. | | R=B1 | D | D1 | B | L |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm | mm | mm |
| RH03003 | RH03004 | 3.2 | 9.5 | 3.3 | 7 | 48 |
| RH05003 | RH05004 | 4.8 | 13.5 | 4.0 | 9.5 | 41 |
| RH06003 | RH06004 | 6.3 | 17.5 | 4.8 | 13 | 44 |
| RH08003 | RH08004 | 8.0 | 22.2 | 6.3 | 14 | 46 |
| RH10003 | RH10004 | 9.5 | 25.4 | 6.3 | 16 | 46 |
| RH12003 | RH12004 | 12.7 | 31.8 | 6.3 | 17 | 49 |

| Tool No. | | R=B1 | D | D1 | B | L |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm |
| RH06002 | RH06008 | 6.3 | 17.5 | 4.8 | 13 | 54 |
| RH08002 | RH08008 | 8.0 | 22.2 | 6.3 | 14 | 56 |
| RH10002 | RH10008 | 9.5 | 25.4 | 6.3 | 16 | 56 |
| RH12002 | RH12008 | 12.7 | 31.8 | 6.3 | 17 | 59 |

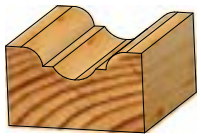


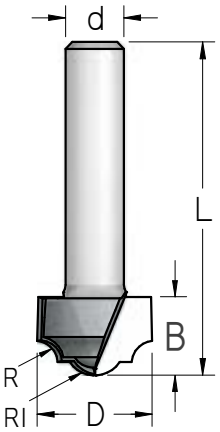
# RC

## Plunging Classical Bits

| Tool No. | | | R | R1 | D | B | L |
|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | mm | mm |
| MRC0303 | MRC0304 | | 4.0 | 3.2 | 12.7 | 8 | 38 |
| RC03003 | RC03004 | RC03005 | 2.4 | 3.5 | 12.7 | 9 | 51 |
| RC05003 | RC05004 | RC05005 | 3.6 | 5.0 | 19.0 | 13 | 52 |

| Tool No. | | R | R1 | D | B | L |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm |
| RC05002 | RC05008 | 3.6 | 5.0 | 19.0 | 13 | 69 |
| RC06002 | RC06008 | 5.0 | 6.3 | 25.4 | 16 | 73 |
| RC10002 | RC10008 | 7.0 | 10.0 | 35.0 | 15 | 65 |





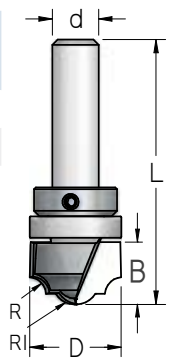

# DC

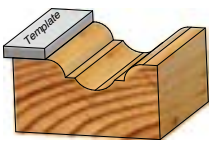
## Classical Template Bits

With Ball Bearing Guide.

| Tool No. | | | R | R1 | D | B | L | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | mm | mm | | |
| DC03003 | DC03004 | | 2.4 | 3.5 | 12.7 | 9 | 51 | B127063 | PF06300 |
| DC05003 | DC05004 | DC05005 | 3.6 | 5.0 | 19.0 | 13 | 58 | B190080 | PF08000 |

| Tool No. | | R | R1 | D | B | L | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm | | |
| DC06002 | DC06008 | 3.2 | 3.2 | 25.4 | 16 | 73 | B254127 | PF19000 |
| DC10002 | DC10008 | 3.2 | 5.0 | 35.0 | 15 | 73 | B350150 | PF12700 |



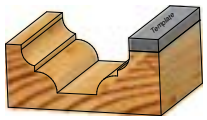



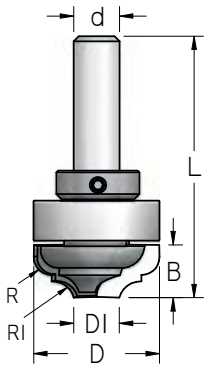
# DM

## Panelling Flat Bottom Groover

With Ball Bearing Guide.

| Tool No. | | R=R1 | D | D1 | B | L | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm | | |
| DM35002 | DM35008 | 5.5 | 35.0 | 12.7 | 14 | 66 | B350150 | PF12700 |

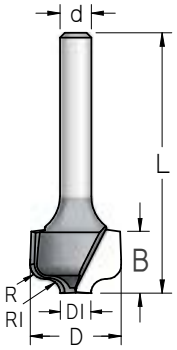




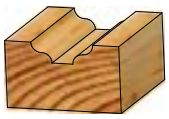

# RA, RRA

## Ogee Bits

| Tool No. | | | R=R1 | D | D1 | B | L |
|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | mm | mm |
| RA20003 | RA20004 | RA20005 | 2 | 12.7 | 4 | 9 | 51 |
| RA30003 | RA30004 | RA30005 | 3.2 | 19.0 | 6.4 | 13 | 54 |
| RRA2503 | RRA2504 | RRA2505 | 3.2 | 25.4 | 10.0 | 9.5 | 50 |



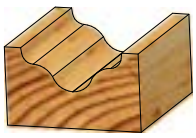

| Tool No. | | R=R1 | D | D1 | B | L |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm |
| RA30002 | RA30008 | 3.2 | 19.0 | 6.4 | 13 | 64 |
| RRA2502 | RRA2508 | 3.2 | 25.4 | 10.0 | 9.5 | 60 |
| RRA3502 | RRA3508 | 3.2 | 35.0 | 12.7 | 9.5 | 59 |

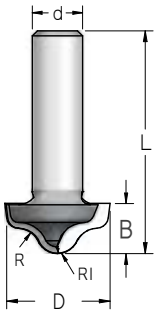


# RRC

## Plunge Ogee Bits

| Tool No. | | | R | R1 | D | B | L |
|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | mm | mm |
| MRR1203 | MRR1204 | MRR1205 | 3 | 3 | 12.7 | 8 | 38 |





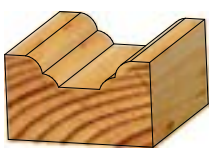

| Tool No. | | R | R1 | D | B | L |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm |
| RRC2702 | RRC2708 | 6 | 5 | 27.0 | 12 | 57 |

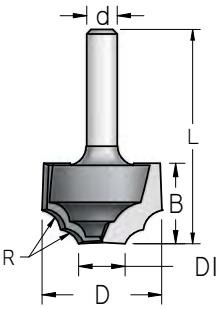
# RR

## Plunging Double Rounding Over Bits

| Tool No. | | R | D | D1 | B | L |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm | mm | mm |
| RR42543 | RR42544 | 4.5 | 25.4 | 10.0 | 16 | 44 |

| Tool No. | | R | D | D1 | B | L |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm |
| RR42542 | RR42548 | 4.5 | 25.4 | 10.0 | 16 | 67 |





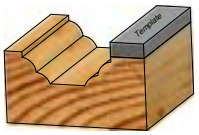
# DL

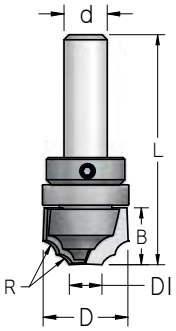
## Plunging Classical Template Bits

With Ball Bearing Guide

| Tool No. | | R | D | D1 | B | L | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm | mm | mm | | |
| DL42543 | DL42544 | 4.5 | 25.4 | 10.0 | 16 | 61 | B260100 | PF06300 |

| Tool No. | | R | D | D1 | B | L | Ball Bearing | Retaining Collar |
|---|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm | | |
| DL42542 | DL42548 | 4.5 | 25.4 | 10.0 | 16 | 67 | B254127A | PF19000 |



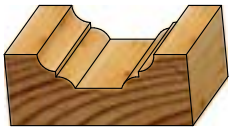



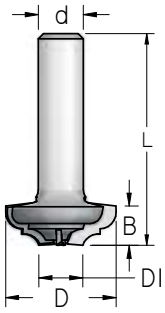

# RR

## Plunging Classical Bit Shallow Groove

With Carbide Plunging Tip.

| Tool No. | | D | D1 | B | L |
|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm |
| RR32002 | RR32008 | 31.8 | 12.5 | 11 | 61 |

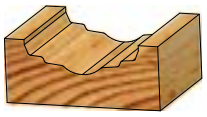


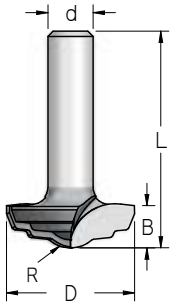



# RRI

## Plunging Classical Bit Shallow Groove

| Tool No. | | R | D | B | L |
|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm |
| RRI0502 | RRI0508 | 9.0 | 36.5 | 9.5 | 61 |



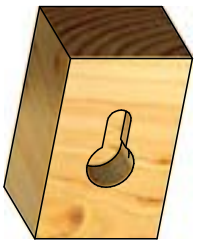


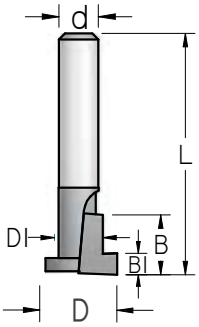

# MM

## Key Hole Bits - Single Flute

For “Key Hole” slots in picture frames.

| Tool No. | | | D | D1 | B | B1 | L |
|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | mm | mm |
| MM10953 | MM10954 | MM10955 | 9.5 | 4.8 | 9.5 | 4.8 | 40 |
| MM12953 | MM12954 | MM12955 | 12.7 | 8.0 | 9.5 | 4.8 | 38 |

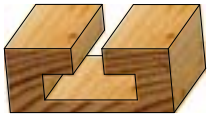


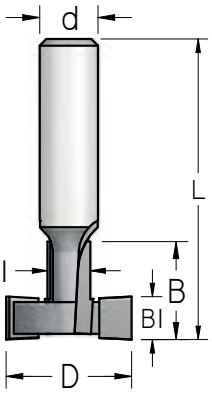



# MM

## T-Slot Bits

| Tool No. | | D | D1 | B | B1 | L |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm |
| MM28202 | MM28208 | 28.0 | 9.5 | 20.7 | 8 | 60 |
| MM35222 | MM35228 | 35.0 | 12.7 | 22.2 | 9.5 | 65 |





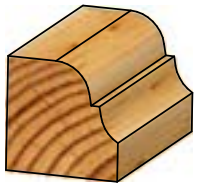
# RS

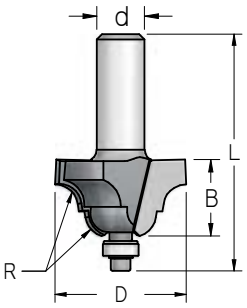
## Roman Ogee Stepped Bits

With Ball Bearing Guide.

| Tool No. d=6mm | Tool No. d=1/4" | d=8mm | R mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|
| MRS0303 | MRS0304 | | 3.0 | 20.0 | 10 | 47 | B080040 |
| RS04003 | RS04004 | RS04005 | 4.0 | 25.4 | 14.5 | 53 | B095048 |
| RS06003 | RS06004 | RS06005 | 6.3 | 35.0 | 19 | 59 | B095048 |

| Tool No. d=12mm | Tool No. d=1/2" | R mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| RS04002 | RS04008 | 4.0 | 25.4 | 14.5 | 63 | B095048 |
| RS06002 | RS06008 | 6.3 | 35.0 | 19 | 69 | B095048 |



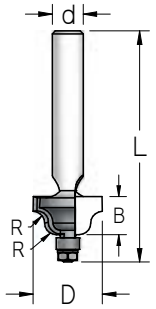



# RD

## Roman Ogee Bits

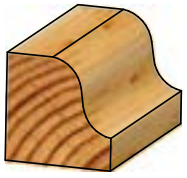
With Ball Bearing Guide.

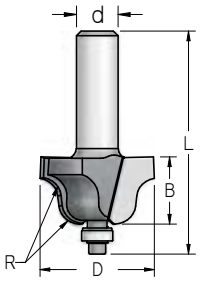
| Tool No. d=6mm | Tool No. d=1/4" | R mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| Nano Ogee Bits with Miniature Bearing | | | | | | |
| RD00253 | RD00254 | 2.4 | 14.3 | 8 | 47 | B048024 |




| Tool No. d=6mm | Tool No. d=1/4" | d=8mm | R mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|
| MRD0303 | MRD0304 | | 3.0 | 20.0 | 10 | 47 | B080040 |
| RD04003 | RD04004 | | 4.0 | 25.4 | 14.5 | 53 | B095032 |
| | | RD04005 | 4.0 | 25.4 | 14.5 | 53 | B095048 |
| RD06003 | RD06004 | RD06005 | 6.3 | 35.0 | 19 | 59 | B095032 |

| Tool No. d=12mm | Tool No. d=1/2" | R mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| RD04002 | RD04008 | 4.0 | 25.4 | 14.5 | 63 | B095032 |
| RD06002 | RD06008 | 6.3 | 35.0 | 19 | 69 | B095032 |





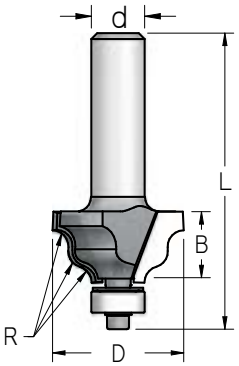

# RJ

## Wavy Edge Bits

With Ball Bearing Guide.

| Tool No. d=6mm | Tool No. d=1/4" | R mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| MRJ0303 | MRJ0304 | 2.5 | 20.0 | 10 | 47 | B080040 |

| Tool No. d=12mm | Tool No. d=1/2" | R mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| RJ04002 | RJ04008 | 4.0 | 31.8 | 17.5 | 71 | B127048 |



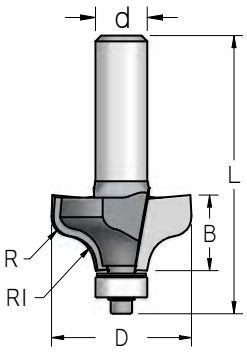
# RT

## Ogee Bits

With Ball Bearing Guide.

| Tool No. d=6mm | Tool No. d=1/4" | d=8mm | R mm | R1 mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|---|
| RT06003 | RT06004 | RT06005 | 6 | 5 | 35.0 | 17 | 58 | B127048 |

| Tool No. d=12mm | Tool No. d=1/2" | R mm | R1 mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|
| RT06002 | RT06008 | 6 | 5 | 35.0 | 17 | 68 | B127048 |



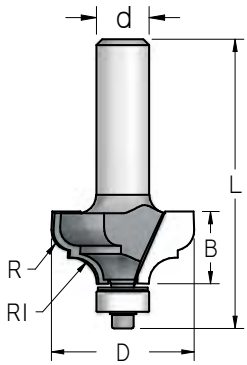

# RM

## Classical Cove and Bead Bits

With Ball Bearing Guide

| Tool No. d=6mm | Tool No. d=1/4" | d=8mm | R mm | R1 mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|---|
| MRM0303 | MRM0304 | | 3.0 | 3.0 | 20.0 | 10 | 47 | B080040 |
| RM04003 | RM04004 | RM04005 | 4.0 | 4.0 | 28.6 | 13 | 53 | B127048 |
| RM06003 | RM06004 | | 6.3 | 5.0 | 35.0 | 17 | 56 | B127048 |

| Tool No. d=12mm | Tool No. d=1/2" | R mm | R1 mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|
| RM04002 | RM04008 | 4.0 | 4.0 | 28.6 | 13 | 65 | B127048 |
| RM06002 | RM06008 | 6.3 | 5.0 | 35.0 | 17 | 65 | B127048 |



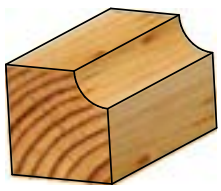

# RZ

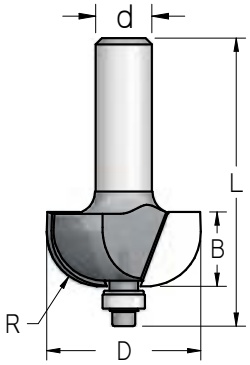
## Cove Bits

With Ball Bearing Guide

| Tool No. d=6mm | Tool No. d=1/4" | d=8mm | R mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|
| MRZ0303 | MRZ0304 | | 3.0 | 14.0 | 10 | 47 | B080040 |
| M07RZ63 | M07RZ64 | | 6.0 | 20.0 | 10 | 47 | B080040 |
| RZ06003 | RZ06004 | | 6.3 | 22.2 | 12 | 52 | B095032 |
| RZ08003 | RZ08004 | RZ08005 | 8.0 | 25.4 | 12 | 51 | B095032 |
| RZ10003 | RZ10004 | RZ10005 | 9.5 | 28.6 | 14 | 55 | B095032 |
| RZ12003 | RZ12004 | RZ12005 | 12.7 | 35.0 | 16 | 57 | B095032 |

| Tool No. d=12mm | Tool No. d=1/2" | R mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| RZ06002 | RZ06008 | 6.3 | 22.2 | 12 | 64 | B095032 |
| RZ08002 | RZ08008 | 8.0 | 25.4 | 12 | 63 | B095032 |
| RZ10002 | RZ10008 | 9.5 | 28.6 | 14 | 65 | B095032 |
| RZ12002 | RZ12008 | 12.7 | 35.0 | 16 | 66 | B095032 |





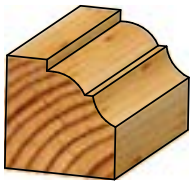
# RN

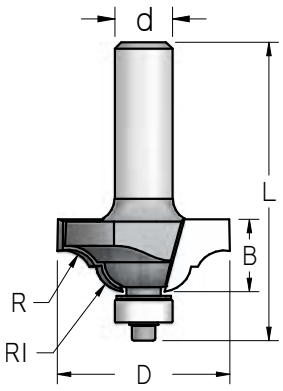
## Classical Bits

With Ball Bearing Guide

| Tool No. d=6mm | Tool No. d=1/4" | d=8mm | R mm | R1 mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|---|
| RN03003 | RN03004 | RN03005 | 5.0 | 6.0 | 31.8 | 13 | 52 | B127048 |
| RN04003 | RN04004 | RN04005 | 6.0 | 5.5 | 38.1 | 16 | 56 | B127048 |

| Tool No. d=12mm | Tool No. d=1/2" | R mm | R1 mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|
| RN03002 | RN03008 | 5.0 | 6.0 | 31.8 | 13 | 62 | B127048 |
| RN04002 | RN04008 | 6.0 | 5.5 | 38.1 | 16 | 68 | B127048 |





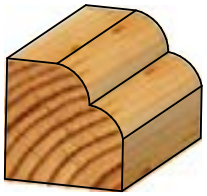

# RL

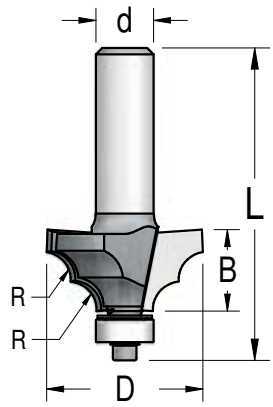
## Double Rounding Over Bits

With Ball Bearing Guide

| Tool No. d=6mm | Tool No. d=1/4" | d=8mm | R mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|
| RL04003 | RL04004 | RL04005 | 4.0 | 28.6 | 13 | 52 | B127048 |
| RL06003 | RL06004 | RL06005 | 5.5 | 35.0 | 17 | 58 | B127048 |

| Tool No. d=12mm | Tool No. d=1/2" | R mm | D mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|
| RL04002 | RL04008 | 4.0 | 28.6 | 13 | 63 | B127048 |
| RL06002 | RL06008 | 5.5 | 35.0 | 17 | 68 | B127048 |





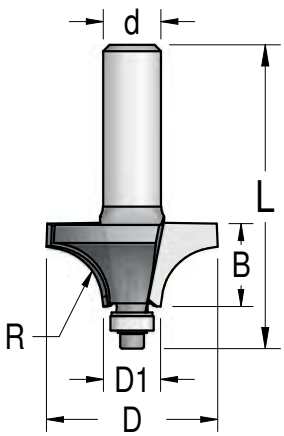

# RP

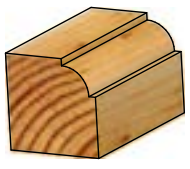
## Beading Bits

With Ball Bearing Guide.

| Tool No. d=6mm | Tool No. d=1/4" | d=8mm | R mm | D mm | D1 mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|---|
| RP05003 | RP05004 | RP05005 | 4.8 | 22.2 | 12.7 | 11 | 50 | B095048 |
| RP06003 | RP06004 | RP06005 | 6.3 | 25.4 | 12.7 | 11 | 50 | B095048 |
| RP10003 | RP10004 | RP10005 | 9.5 | 31.8 | 12.7 | 16 | 54 | B095048 |
| RP12003 | RP12004 | RP12005 | 12.7 | 38.1 | 12.7 | 18 | 59 | B095048 |

| Tool No. d=12mm | Tool No. d=1/2" | R mm | D mm | D1 mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|
| RP06002 | RP06008 | 6.3 | 25.4 | 12.7 | 11 | 61 | B095048 |
| RP10002 | RP10008 | 9.5 | 31.8 | 12.7 | 16 | 68 | B095048 |
| RP12002 | RP12008 | 12.7 | 38.1 | 12.7 | 18 | 68 | B095048 |
| RP16002 | RP16008 | 16.0 | 44.5 | 12.7 | 22 | 76 | B095048 |
| RP19002 | RP19008 | 19.0 | 50.8 | 12.7 | 25 | 78 | B095048 |



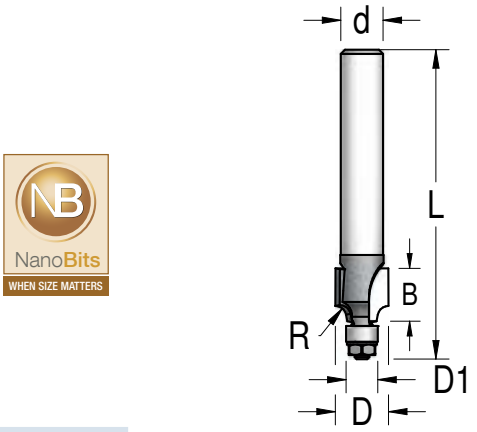



# RW

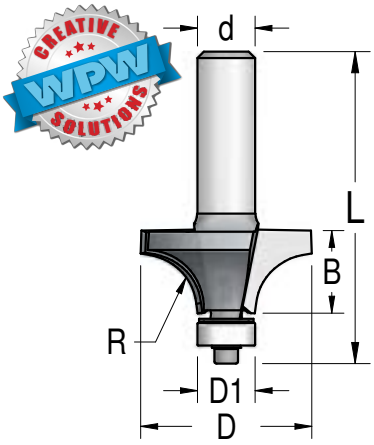
## Rounding Over Bits

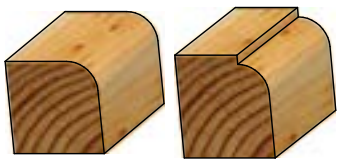
Extended line for wide range of applications.
Smaller bearings allow working in tight spaces.

| Tool No. d=6mm | Tool No. d=1/4" | R mm | D mm | D1 mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|
| | | Nano Rounding Over Bits | | | | | |
| RW00163 | RW00164 | 1.6 | 8 | 4.8 | 8 | 47 | B048024 |
| RW00243 | RW00244 | 2.4 | 9.5 | 4.8 | 9.5 | 47 | B048024 |
| RW00323 | RW00324 | 3.2 | 11.1 | 4.8 | 9.5 | 47 | B048024 |
| RW00403 | RW00404 | 4.0 | 12.7 | 4.8 | 9.5 | 47 | B048024 |
| RW00483 | RW00484 | 4.8 | 14.3 | 4.8 | 8.5 | 47 | B048024 |
| RW00633 | RW00634 | 6.3 | 17.4 | 4.8 | 10 | 47 | B048024 |




| Tool No. d=6mm | Tool No. d=1/4" | Tool No. d=8mm | R mm | D mm | D1 mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|---|
| RW60603 | RW60604 | | 6.3 | 19.0 | 6.3 | 6.8 | 47 | B063032 |
| RW61003 | RW61004 | | 9.5 | 25.4 | 6.3 | 10 | 52 | B063032 |
| | | | | | | | | |
| MRW0303 | MRW0304 | | 3.0 | 14.2 | 8.0 | 11 | 47 | B080040 |
| M12RW63 | M12RW64 | | 6.0 | 21.0 | 8.0 | 10 | 47 | B080040 |
| | | | | | | | | |
| RW90603 | RW90604 | | 6.3 | 22.2 | 9.5 | 7 | 50 | B095032 |
| RW91003 | RW91004 | | 9.5 | 28.6 | 9.5 | 10 | 54 | B095032 |
| | | | | | | | | |
| RW01603 | RW01604 | RW01605 | 1.6 | 15.9 | 12.7 | 7 | 48 | B127048 |
| RW02003 | RW02004 | RW02005 | 2.0 | 16.7 | 12.7 | 7 | 48 | B127048 |
| RW03003 | RW03004 | RW03005 | 3.2 | 19.0 | 12.7 | 9.5 | 48 | B127048 |
| RW04003 | RW04004 | RW04005 | 4.0 | 20.6 | 12.7 | 9.5 | 50 | B127048 |
| RW05003 | RW05004 | RW05005 | 4.8 | 22.2 | 12.7 | 11 | 50 | B127048 |
| RW06003 | RW06004 | RW06005 | 6.3 | 25.4 | 12.7 | 11 | 50 | B127048 |
| RW08003 | RW08004 | RW08005 | 8.0 | 28.6 | 12.7 | 13.5 | 53 | B127048 |
| RW10003 | RW10004 | RW10005 | 9.5 | 31.8 | 12.7 | 16 | 54 | B127048 |
| RW12003 | RW12004 | RW12005 | 12.7 | 38.1 | 12.7 | 18 | 59 | B127048 |
| | | RW15005 | 15.0 | 42.5 | 12.7 | 22 | 64 | B127048 |



| Tool No. d=12mm | Tool No. d=1/2" | R mm | D mm | D1 mm | B mm | L mm | Ball Bearing |
|---|---|---|---|---|---|---|---|
| RW03002 | RW03008 | 3.2 | 19.0 | 12.7 | 9.5 | 61 | B127048 |
| RW04002 | RW04008 | 4.0 | 20.6 | 12.7 | 9.5 | 59 | B127048 |
| RW05002 | RW05008 | 4.8 | 22.2 | 12.7 | 11 | 62 | B127048 |
| RW06002 | RW06008 | 6.3 | 25.4 | 12.7 | 11 | 61 | B127048 |
| RW08002 | RW08008 | 8.0 | 28.6 | 12.7 | 13.5 | 67 | B127048 |
| RW10002 | RW10008 | 9.5 | 31.8 | 12.7 | 16 | 68 | B127048 |
| RW12002 | RW12008 | 12.7 | 38.1 | 12.7 | 18 | 68 | B127048 |
| RW16002 | RW16008 | 16.0 | 44.5 | 12.7 | 22 | 76 | B127048 |
| RW19002 | RW19008 | 19.0 | 50.8 | 12.7 | 25 | 78 | B127048 |
| RW22002 | RW22008 | 22.2 | 57.1 | 12.7 | 30 | 79 | B127048 |
| RW25002 | RW25008 | 25.4 | 63.5 | 12.7 | 32 | 85 | B127048 |
| *RW32002 | *RW32008 | 31.8 | 76.3 | 12.7 | 38 | 98 | B127048 |
| **RW38002 | **RW38008 | 38.1 | 88.9 | 12.7 | 44 | 105 | B127048 |

*Max speed 18000 RPM
**Max speed 16000 RPM

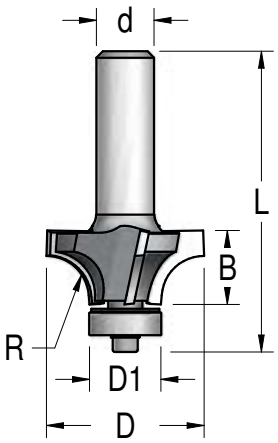
# RWG

## 4 Flutes Rounding Over Bits

With Ball Bearing Guide.
For better surface finish and longer tool life.

| Tool No. | | R | D | D1 | B | L | Ball Bearing |
|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm | mm | mm | |
| RWG0303 | RWG0304 | 3.2 | 22.2 | 15.9 | 9.5 | 49 | B160048 |
| RWG0503 | RWG0504 | 4.8 | 25.4 | 15.9 | 11 | 49 | B160048 |
| RWG0603 | RWG0604 | 6.3 | 28.6 | 15.9 | 11 | 51 | B159063 |
| RWG1003 | RWG1004 | 9.5 | 35.0 | 15.9 | 16 | 53 | B159063 |
| RWG1203 | RWG1204 | 12.7 | 41.3 | 15.9 | 18 | 58 | B159063 |

| Tool No. | | R | D | D1 | B | L | Ball Bearing |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm | |
| RWG0502 | RWG0508 | 4.8 | 25.4 | 15.9 | 11 | 62 | B160048 |
| RWG0602 | RWG0608 | 6.3 | 28.6 | 15.9 | 11 | 63 | B159063 |
| RWG1002 | RWG1008 | 9.5 | 35.0 | 15.9 | 16 | 66 | B159063 |
| RWG1202 | RWG1208 | 12.7 | 41.3 | 15.9 | 18 | 68 | B159063 |



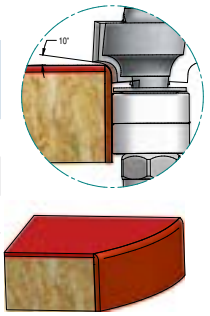

# RWB

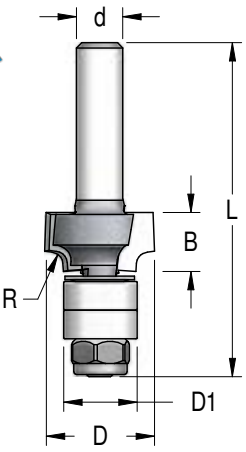
## Laminate Rounding Over Bits

### With 2 Ball Bearing Guides for added stability

Used especially for smoothing sharp corners of edge banded laminates.
Special design to avoid damaging the panel while doing this delicate job.

| Tool No. | | | R | D | D1 | B | L | Ball Bearing |
|---|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | mm | mm | |
| RWB0133 | RWB0134 | RWB0135 | 1.3 | 16.5 | 12.7 | 8 | 57 | B127048 x2 |
| RWB0203 | RWB0204 | RWB0205 | 2.0 | 18 | 12.7 | 8 | 57 | B127048 x2 |
| RWB0303 | RWB0304 | RWB0305 | 3.0 | 20 | 12.7 | 9.5 | 59 | B127048 x2 |



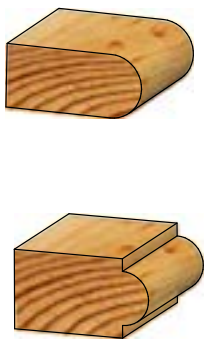


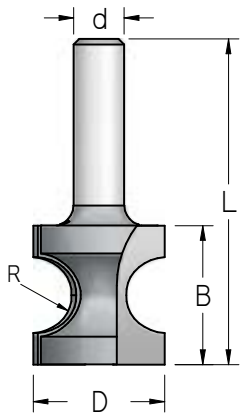

# RF

## Bull Nose Bits

| Tool No. | | | R | D | B | L |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | mm |
| RF02003 | RF02004 | | 2.0 | 13.5 | 13 | 41 |
| RF02803 | RF02804 | | 2.8 | 15.1 | 13 | 41 |
| | | RF02805 | 2.8 | 15.1 | 13 | 45 |
| RF03603 | RF03604 | | 3.6 | 16.7 | 19 | 47 |
| | | RF03605 | 3.6 | 16.7 | 19 | 51 |
| RF05203 | RF05204 | | 5.2 | 22.2 | 19 | 47 |
| | | RF05205 | 5.2 | 22.2 | 19 | 51 |

| Tool No. | | R | D | B | L |
|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm |
| RF05202 | RF05208 | 5.2 | 22.2 | 19 | 57 |
| RF09502 | RF09508 | 9.5 | 33.3 | 35 | 72 |
| RF12702 | RF12708 | 12.7 | 42.0 | 40 | 78 |

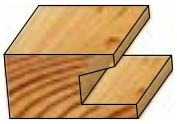


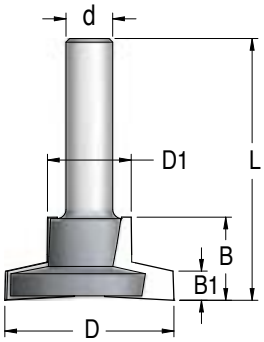


# RO

## Finger Grip Bits – Trapezoidal

| Tool No. | | D | D1 | B | B1 | L |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm |
| RO45002 | RO45008 | 45 | 25 | 21 | 8 | 61 |

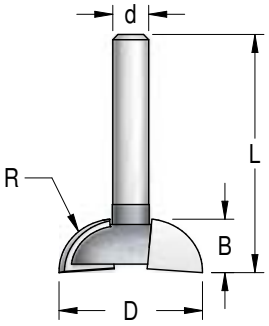





# RO

## Finger Grip Bits – Short cut

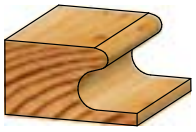
| Tool No. | | D | R | B | L |
|---|---|---|---|---|---|
| d=6mm | d=1/4" | mm | mm | mm | mm |
| RO10003 | RO10004 | 26 | 9.5 | 9.5 | 42 |

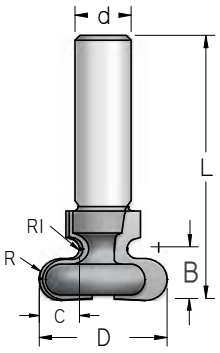



# RO

## Classic Finger Grip Bits

| Tool No. | | C | D | R | R1 | B | L |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm | mm |
| RO19002 | RO19008 | 4.5 | 19 | 4.8 | 2.3 | 14.3 | 57.5 |
| RO29002 | RO29008 | 9 | 29 | 4.8 | 2.3 | 14 | 60 |
| RO70002 | RO70008 | 8.0 | 31.8 | 4.8 | 2.5 | 12 | 70 |
| RO38002 | RO38008 | 10.5 | 38.0 | 5.5 | 2.0 | 14.5 | 59 |



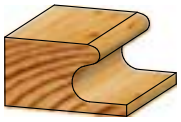


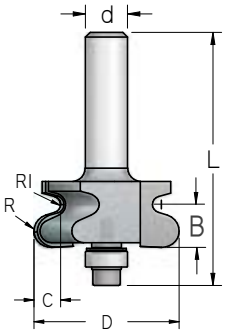

# RO

## Finger Grip Bits

With Ball Bearing Guide.

| Tool No. | | C | D | R | R1 | B | L | Ball Bearing |
|---|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm | mm | |
| RO70012 | RO70018 | 8 | 44.0 | 5.0 | 2.5 | 12 | 76 | B127063 |






# RECG

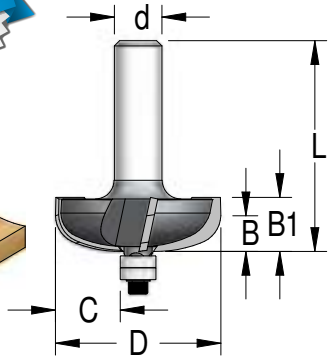
## Elliptic Cove Router Bits - 4 Flutes

**For shaping edges with wide Elliptic coves.**

4 flutes for better surface finish and longer tool life.

Double Bearing – wider Pilot for added stability.

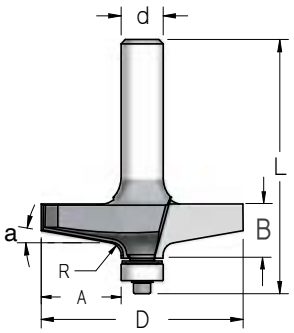
| Tool No. | | D | B | B1 | C | L | Ball Bearing |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm | |
| RECG102 | RECG108 | 44.5 | 9.5 | 14 | 17.5 | 68 | B095048 x2 |



# RK04

## Chamfering Bit with Radius

| Tool No. | | A | a | R | D | B | L | Ball Bearing |
|---|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | degrees | mm | mm | mm | mm | |
| RK04102 | RK04108 | 24 | 10 | 4.0 | 61 | 14 | 78 | B127048 |

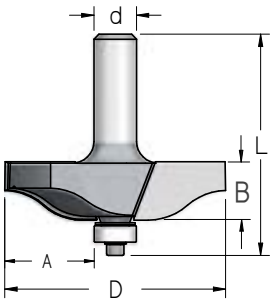



# RK

## Ogee

| Tool No. | | A | D | B | L | Ball Bearing |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | |
| RK17002 | RK17008 | 27.0 | 66.7 | 16 | 67.5 | B127048 |
| *RK18002 | *RK18008 | 36.5 | 85.7 | 16 | 75 | B127048 |

*Max speed 16000 RPM

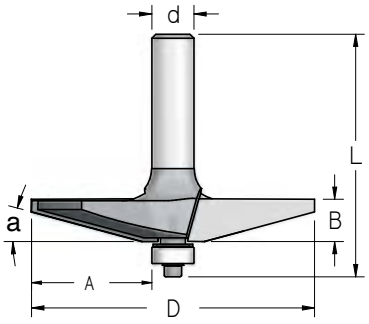



# RK15

## Traditional

| Tool No. | | A | a | D | B | L | Ball Bearing |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | degrees | mm | mm | mm | |
| *RK15002 | *RK15008 | 36.5 | 15 | 85.7 | 12.7 | 71 | B127048 |

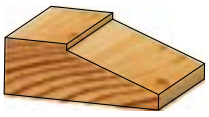
*Max speed 16000 RPM

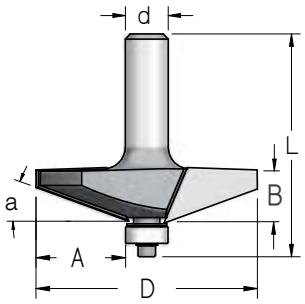



# RK20

## Traditional

| Tool No. | | A | a | D | B | L | Ball Bearing |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | degrees | mm | mm | mm | |
| RK20002 | RK20008 | 27 | 20 | 66.7 | 16 | 69 | B127048 |



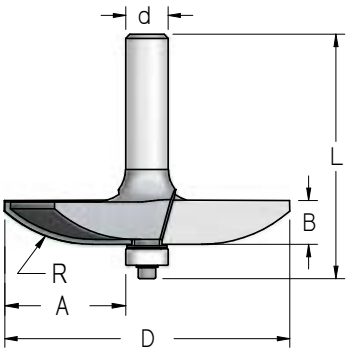



# RK40

## Cove

| Tool No. | | A | R | D | B | L | Ball Bearing |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm | |
| *RK40002 | * RK40008 | 36.5 | 40 | 85.8 | 12.7 | 72 | B127048 |

*Max. Speed 16000 RPM

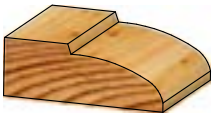


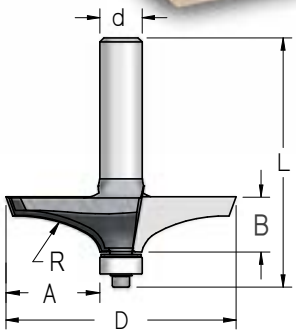
# RK43

## Raised Panel Thumbnail Bits

| Tool No. | | A | R | D | B | L | Ball Bearing |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm | |
| *RK43002 | *RK43008 | 28.2 | 43 | 69.2 | 16 | 76 | B127048 |

*Max. Speed 18000 RPM






# Tongue & Groove Easy Set For Profile Scribed Doors

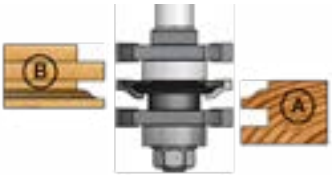
## Assembly with 2 ball bearing guides and 3 grooving cutters. No reassembly required.

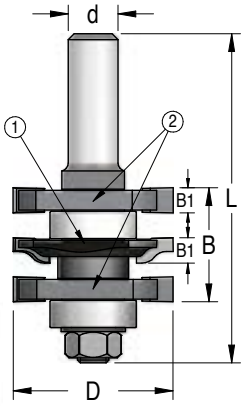
Both parts of the joint are cut by only changing the cutter height.

# RGD2

## Ogee

| Description | Tool No. | | | D | B | B1 | L |
|---|---|---|---|---|---|---|---|
| | d=8mm | d=12mm | d=1/2" | mm | mm | mm | mm |
| Assembly | RGD2005 | | | 41.0 | 22.0 | | 79 |
| | | RGD2002 | RGD2008 | 41.0 | 22.0 | | 84 |
| **Components** | | | | | | | |
| 1. Profile cutter | RGD2000 | RGD2000 | RGD2000 | 41.0 | | 6.3 | |
| 2. Cutter | NG41060 | NG41060 | NG41060 | 41.0 | | 6.3 | |
| Ball Bearing | B220080 | B220080 | B220080 | | | | |
| Arbor & Nut | NHRG825 | NHRG822 | NHRG828 | | | | |

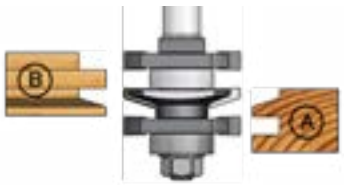


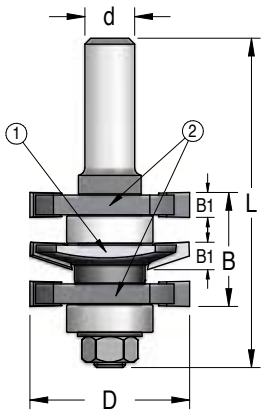



# RGD5

## Traditional

| Description | Tool No. | | | D | B | B1 | L |
|---|---|---|---|---|---|---|---|
| | d=8mm | d=12mm | d=1/2" | mm | mm | mm | mm |
| Assembly | RGD5005 | | | 41.0 | 22.0 | | 79 |
| | | RGD5002 | RGD5008 | 41.0 | 22.0 | | 84 |
| **Components:** | | | | | | | |
| 1. Profile cutter | RGD5000 | RGD5000 | RGD5000 | 41.0 | | 6.3 | |
| 2. Cutter | NG41060 | NG41060 | NG41060 | 41.0 | | 6.3 | |
| Ball Bearing | B220080 | B220080 | B220080 | | | | |
| Arbor & Nut | NHRG825 | NHRG822 | NHRG828 | | | | |





# TONGUE & GROOVE CLASSIC SETS

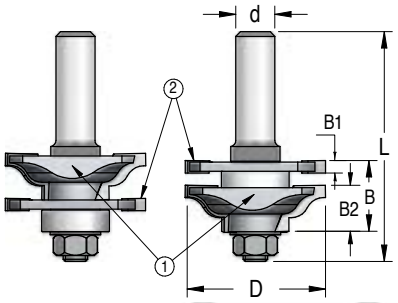
## Assembly with Ball Bearing Guide.

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

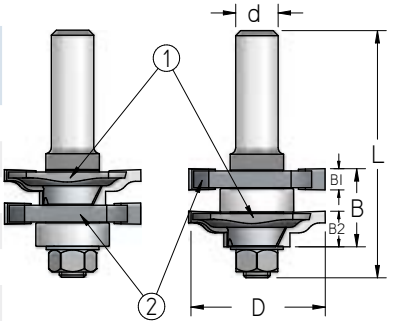
| Description | Tool No. | | | D | B | B1 | B2 | L |
|---|---|---|---|---|---|---|---|---|
| | d=8mm | d=12mm | d=1/2" | mm | mm | mm | mm | mm |
| Assembly | RG10005 | | | 46.0 | 22.0 | | | 70 |
| | | RG10002 | RG10008 | 46.0 | 22.0 | | | 76 |
| Components | | | | | | | | |
| 1. Profile cutter | RG10000 | RG10000 | RG10000 | 46.0 | | | 15 | |
| 2. Cutter | NG46040 | NG46040 | NG46040 | 46.0 | | 4 | | |
| Ball Bearing | B220080 | B220080 | B220080 | | | | | |
| Arbor & Nut | NG00005 | NG00002 | NG00008 | | | | | |

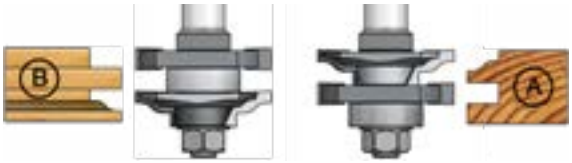


# RG2

## Ogee

| Description | Tool No. | | | D | B | B1 | B2 | L |
|---|---|---|---|---|---|---|---|---|
| | d=8mm | d=12mm | d=1/2" | mm | mm | mm | mm | mm |
| Assembly | RG20005 | | | 41.0 | 22.0 | | | 70 |
| | | RG20002 | RG20008 | 41.0 | 22.0 | | | 76 |
| Components | | | | | | | | |
| 1. Profile cutter | RG20000 | RG20000 | RG20000 | 41.0 | | | 11 | |
| 2. Cutter | NG41060 | NG41060 | NG41060 | 41.0 | | 6.3 | | |
| Ball Bearing | B220080 | B220080 | B220080 | | | | | |
| Arbor & Nut | NG00005 | NG00002 | NG00008 | | | | | |

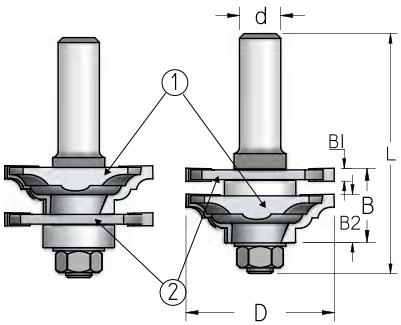





# RG3

## Ogee

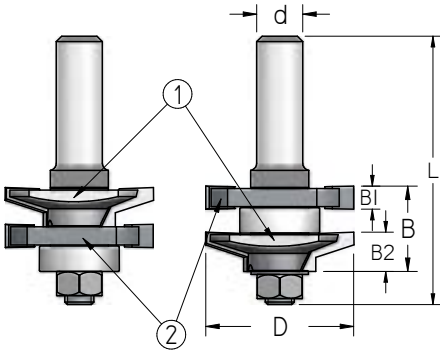
| Description | Tool No. | | | D | B | B1 | B2 | L |
|---|---|---|---|---|---|---|---|---|
| | d=8mm | d=12mm | d=1/2" | mm | mm | mm | mm | mm |
| Assembly | RG30005 | | | 46.0 | 22.0 | | | 70 |
| | | RG30002 | RG30008 | 46.0 | 22.0 | | | 76 |
| Components | | | | | | | | |
| 1. Profile cutter | RG30000 | RG30000 | RG30000 | 46.0 | | | 15 | |
| 2. Cutter | NG46040 | NG46040 | NG46040 | 46.0 | | 4 | | |
| Ball Bearing | B220080 | B220080 | B220080 | | | | | |
| Arbor & Nut | NG00005 | NG00002 | NG00008 | | | | | |

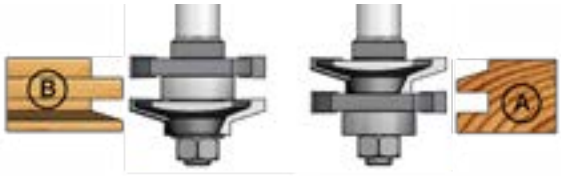


# RG5

## Traditional

| Description | Tool No. | | | D | B | B1 | B2 | L |
|---|---|---|---|---|---|---|---|---|
| | d=8mm | d=12mm | d=1/2" | mm | mm | mm | mm | mm |
| Assembly | RG50005 | | | 41.0 | 22.0 | | | 70 |
| | | RG50002 | RG50008 | 41.0 | 22.0 | | | 76 |
| **Components** | | | | | | | | |
| 1. Profile cutter | RG50000 | RG50000 | RG50000 | 41.0 | | | 11 | |
| 2. Cutter | NG41060 | NG41060 | NG41060 | 41.0 | | 6.3 | | |
| Ball Bearing | B220080 | B220080 | B220080 | | | | | |
| Arbor & Nut | NG00005 | NG00002 | NG00008 | | | | | |



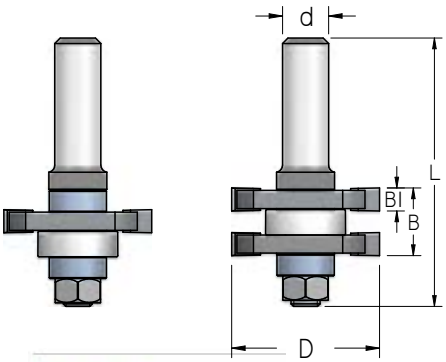



# RG6

## 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 | B1 | L |
|---|---|---|---|---|---|---|---|
| | d=8mm | d=12mm | d=1/2" | mm | mm | mm | mm |
| Assembly | RG60005 | | | 41.0 | 19.0 | | 61 |
| | | RG60002 | RG60008 | 41.0 | 19.0 | | 72 |
| **Components** | | | | | | | |
| Cutter (x2) | NG41060 | NG41060 | NG41060 | 41.0 | | 6.3 | |
| Ball Bearing | B220080 | B220080 | B220080 | | | | |
| Arbor & Nut | NHRG815 | NHRG812 | NHRG818 | | | | |

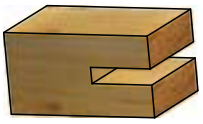


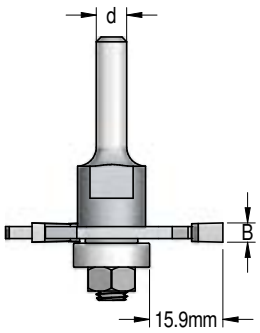
# N3

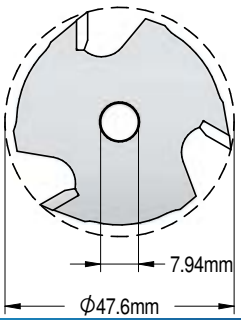
## Slotting Cutters 3 Wings

The assemblies include a cutter, arbor and bearing.

| B mm | Cutter Tool No. | Assembly No. d=6mm | d=1/4" | d=8mm | d=12mm | d=1/2" |
|---|---|---|---|---|---|---|
| 1.5 | N301500 | N301583 | N301584 | N301585 | N301582 | N301588 |
| 1.6 | N301600 | N301683 | N301684 | N301685 | N301682 | N301688 |
| 2.0 | N302000 | N302083 | N302084 | N302085 | N302082 | N302088 |
| 2.4 | N302400 | N302483 | N302484 | N302485 | N302482 | N302488 |
| 2.5 | N302500 | N302583 | N302584 | N302585 | N302582 | N302588 |
| 3.0 | N303000 | N303083 | N303084 | N303085 | N303082 | N303088 |
| 3.2 | N303200 | N303283 | N303284 | N303285 | N303282 | N303288 |
| 4.0 | N304000 | N304083 | N304084 | N304085 | N304082 | N304088 |
| 4.8 | N304800 | N304883 | N304884 | N304885 | N304882 | N304888 |
| 5.0 | N305000 | N305083 | N305084 | N305085 | N305082 | N305088 |
| 6.0 | N306000 | N306083 | N306084 | N306085 | N306082 | N306088 |
| 6.3 | N306300 | N306383 | N306384 | N306385 | N306382 | N306388 |





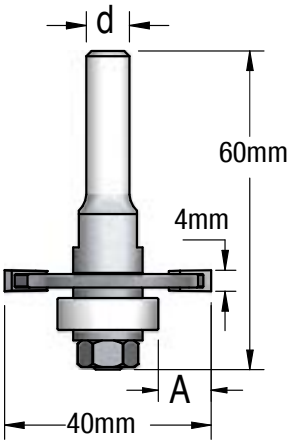

For all Arbors for Slotting Cutters see page 84.

# NB

## "Biscuit" Jointer Assembly

Includes slotting cutter, arbor and ball bearing guide.

| Tool No. d=6mm | d=1/4" | d=8mm | For Biscuit No. | A mm | Bearing |
|---|---|---|---|---|---|
| NB15003 | NB15004 | NB15005 | 0 | 9 | B220060 |
| NB19003 | NB19004 | NB19005 | 10 | 10.5 | B190060 |
| NB23003 | NB23004 | NB23005 | 20 | 12.5 | B150060 |
| **Components** | | | | | |
| 1. Arbor & Nut | | | | | |
| NB06003 | NB06004 | NB06005 | | | |
| 2. Cutter (2 wings) | | | | | |
| N204030 | N204030 | N204030 | | | |




# NBS

## Set for all 3 sizes of biscuits

Includes slotting cutter, arbor and 3 ball bearing guides.

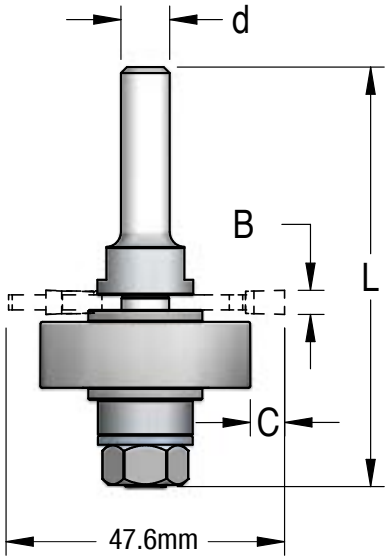
| Set No. d=6mm | d=1/4" | d=8mm |
|---|---|---|
| NBS0303 | NBS0304 | NBS0305 |

# NS

## Variable Depth Set for Slotting Cutters

Includes arbor and 5 ball bearings for changing cut depths.
All Slotting cutters N3 type can be used. Cutter not included.

| Set No. | | | C | Ball | L |
|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | Bearing | mm |
| | | | 2.8 | B420150 | |
| | | | 6.3 | B350150 | |
| NS79053 | NS79054 | NS79055 | 7.8 | B320150 | 70 |
| | | | 9.8 | B280150 | |
| | | | 12.8 | B220080 | |




| Set No. | | C | Ball | L |
|---|---|---|---|---|
| d=12mm | d=1/2" | mm | Bearing | mm |
| | | 2.8 | B420150 | |
| | | 6.3 | B350150 | |
| NS79052 | NS79058 | 7.8 | B320150 | 78 |
| | | 9.8 | B280150 | |
| | | 12.8 | B220080 | |

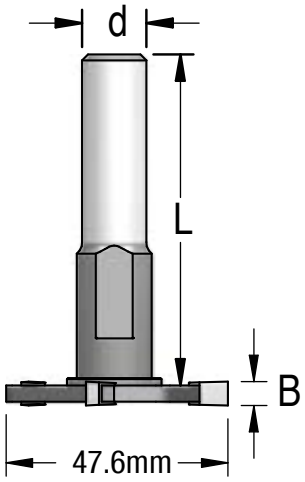
# NUS

## Slot & Undercut Bit with Variable Depth

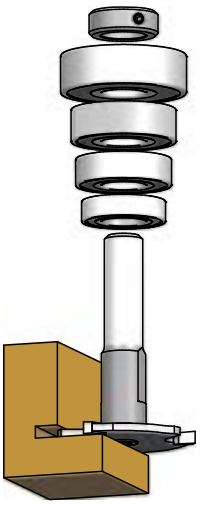
**For general Slotting and undercutting. Suitable for flooring.**

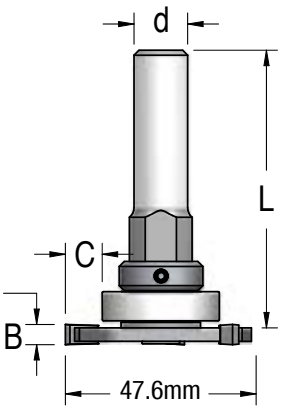
Exchangeable bearings enable achieving different depths of cut.
All assemblies are supplied with Torx Key T25.

| B | Cutter | Assembly No. | | |
|---|---|---|---|---|
| mm | Tool No. | d=8mm | d=12mm | d=1/2" |
| | | Includes Cutter and arbor | | |
| 3.0 | N3U0300 | NU03005* | NU03002* | NU03008* |
| 4.0 | N3U0400 | NU04005 | NU04002 | NU04008 |
| 5.0 | N3U0500 | NU05005 | NU05002 | NU05008 |
| 6.0 | N3U0600 | NU06005 | NU06002 | NU06008 |
| | | | | |
| | | Includes Cutter, arbor and 4 bearings | | |
| 3.0 | N3U0300 | NUS03045** | NUS03042** | NUS03048** |
| 4.0 | N3U0400 | NUS04045 | NUS04042 | NUS04048 |
| 5.0 | N3U0500 | NUS05045 | NUS05042 | NUS05048 |
| 6.0 | N3U0600 | NUS06045 | NUS06042 | NUS06048 |




*For NU03005/2/8 use the corresponding arbor - NU79005/2/8
**For NU03045/2/8 use the corresponding arbor - NU79005/2/8
Replacement Torx screw - BT50080
Retaining Collar - PF15000






## Arbors for Slot & Undercut Bit

| | Tool No. | | L |
|---|---|---|---|
| d=8mm | d=12mm | d=1/2" | mm |
| NU79015 | | | 57 |
| | NU79012 | NU79018 | 67 |

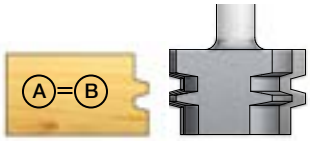
**Table for Choosing the bearing according to the desired slot**

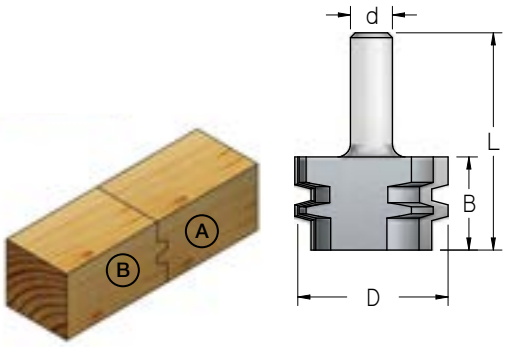
| | | | | |
|---|---|---|---|---|
| Ball Bearing | B420150 | B350150 | B320150 | B280150 |
| Slot Depth (C) | 2.8 mm | 6.3 mm | 7.8 mm | 9.8 mm |

# FJ2

## Glue Joint Bit

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm |
| FJ20002 | FJ20008 | 47.0 | 28 | 66 |

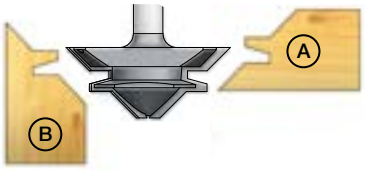


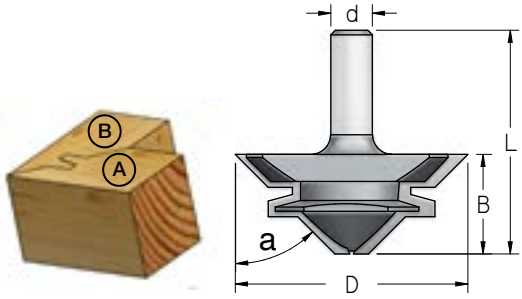




# FJ4

## 45° Lock Mitre Joint Bit

| Tool No. | | a | D | B | L |
|---|---|---|---|---|---|
| d=12mm | d=1/2" | degrees | mm | mm | mm |
| FJ40002 | FJ40008 | 45 | 67.0 | 30 | 69 |



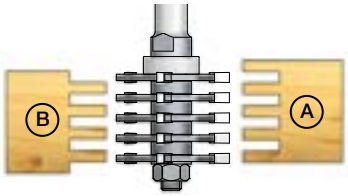



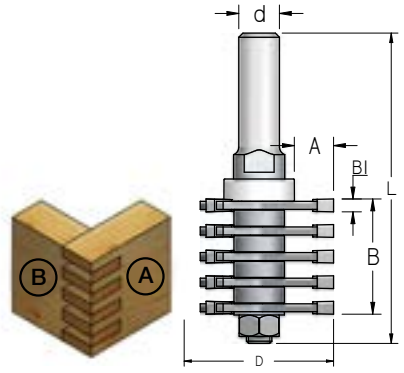

# FJ5

## Combi Joint Set

Assembly with Ball Bearing Guide.

| Description | Tool No. | | D | A | B | B1 | L |
|---|---|---|---|---|---|---|---|
| | d=12mm | d=1/2" | mm | mm | mm | mm | mm |
| Assembly | FJ50002 | FJ50008 | 47.6 | | 36.0 | | 96 |
| **Components** | | | | | | | |
| Cutter (x5) | N304000 | N304000 | 47.6 | | | 4.0 | |
| Arbor & Nut | NFJ5002 | NFJ5008 | | | | | |
| Delrin Set | BDEL500 | BDEL500 | | 9.8 | | | |
| Delrin Set | BDEL510 | BDEL510 | | 9.3 | | | |
| Delrin Set | BDEL520 | BDEL520 | | 6.8 | | | |



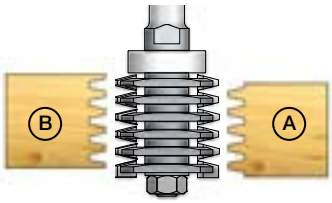



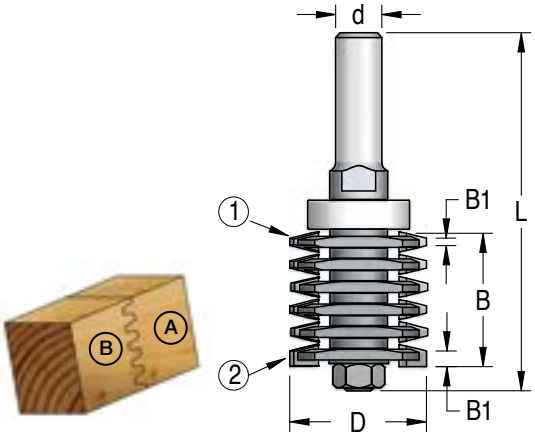

# FJ6

## Finger Joint Set

Assembly with Ball Bearing Guide.

| Description | Tool No. | | D | B | B1 | L |
|---|---|---|---|---|---|---|
| | d=12mm | d=1/2" | mm | mm | mm | mm |
| Assembly | FJ60002 | FJ60008 | 39.5 | 33.0 | | 96 |
| **Components** | | | | | | |
| 1.Cutter (x5) | NJ39020 | NJ39020 | 39.5 | | 1.9 | |
| 2.Cutter (x1) | NJ39050 | NJ39050 | 39.1 | | 5.5 | |
| Arbor & Nut | NFJ6002 | NFJ6008 | | | | |
| Ball Bearing | B280080 | B280080 | | | | |



# SOLID SURFACE (CORIAN®) ROUTER BITS

This line of router bits was designed especially for working on solid surface materials that are widely used for producing kitchen countertops as well as in other applications.

A special Low Friction Delrin® Bearing Assembly is used, in order to protect the material surface from scratches, and to achieve a clean surface. Using WPW unique 4 fluted tools result in a perfect surface finish on the workpiece and extra-long tool life. It might require slowing down the feed rate a little bit compared to using 2 fluted tools, but the results justify it.

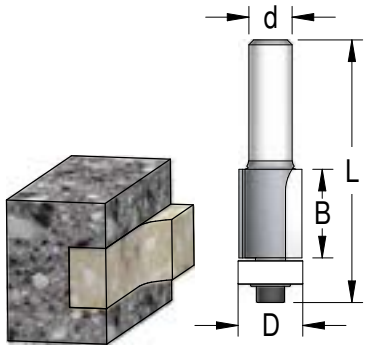
| Year Developed | 1998 | 2011 | 2019 |
|---|---|---|---|

WPW

# FLUSH TRIM BITS / INLAY TRIMMING BITS

## For trimming inlay or overlaps

Low Friction Delrin® Bearing Assembly




## F2...C

### 2 flutes with bottom ball bearing guide

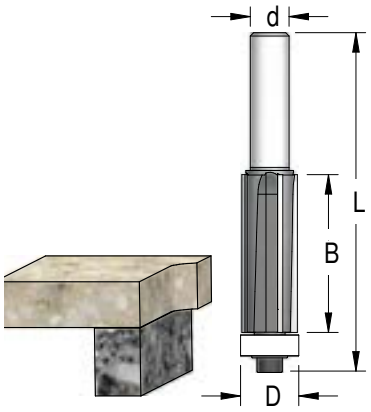
| Tool No. | | D | B | L | Ball Bearing |
|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | |
| F241902C | F241908C | 19.0 | 25 | 75 | B190063C |

For ordering F2…C with standard metal bearing (without Delrin®), drop the letter C at the end of the Tool Number

## F4...C

### 4 flutes with bottom ball bearing guide

For better surface finish and longer tool life than tools with 2 flutes

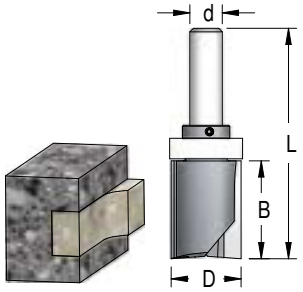



| Tool No. | | D | B | L | Ball Bearing |
|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | |
| F441902C | F441908C | 19.0 | 25 | 75 | B190063C |
| F461902C | F461908C | 19.0 | 38 | 99 | B190063C |
| F481902C | F481908C | 19.0 | 51 | 105 | B190063C |

For ordering F4…C with standard metal bearing (without Delrin®), drop the letter C at the end of the Tool Number

## PF...C

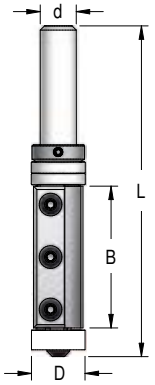
### 2 flutes with shank mounted bearing




| Tool No. | | D | B | L | Ball Bearing | Retainer |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | | |
| *PF424V2C | - | 24.0 | 25 | 83 | B240120C | BDK1100 |
| **PF72542 | ** PF72548 | 25.4 | 45 | 96 | B254127 | PF19000 |
| ***PF62852C | *** PF62858C | 28.6 | 38 | 90 | B285127C | PF12700 |

*Only with Delrin bearing
**Only with metal bearing (without Delrin®)
*** For ordering with standard metal bearing (without Delrin®), drop the letter C at the end of the Tool Number

## FPM...C

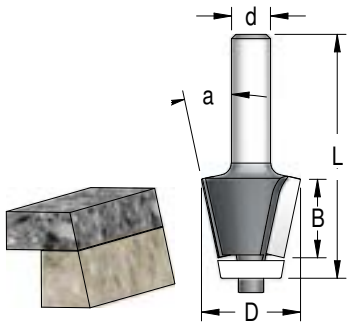



| Tool No. | | D | B | L | Blade No. | Ball Bearing | Retainer |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | | | |
| FPM1922C | FPM1928C | 19.0 | 50 | 118 | CM501217 x 2 | B190063C+ B190127x2 | PF19000 |

Only the bottom bearing is with Delrin bearing.
For ordering FPM…C with standard metal bearing (without Delrin®), drop the letter C at the end of the Tool Number

## SLS...C

### Bevel Trim Bit




| Tool No. | | a | D | B | L | Ball Bearing |
|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | degrees | mm | mm | mm | |
| SLS1242C | SLS1248C | 12° | 32 | 25 | 80 | B210100C |
| SLS1252C | SLS1258C | 12° | 39 | 32 | 78 | B250050C |

# ROUNDING OVER BITS

## Low Friction Delrin® Bearing Assembly

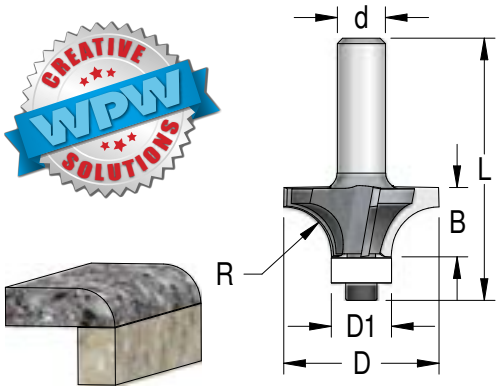
## RWG...C

### 4 flutes

Special design for perfect surface finish and longer tool life.

| Tool No. | | R | D | D1 | B | L | Ball Bearing |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm | |
| RWG0602C | RWG0608C | 6.3 | 28.6 | 15.9 | 11 | 64 | B159063C |
| RWG1202C | RWG1208C | 12.7 | 41.3 | 15.9 | 18 | 69 | B159063C |

For ordering RWG…C with standard metal bearing (without Delrin®), drop the letter C at the end of the Tool Number

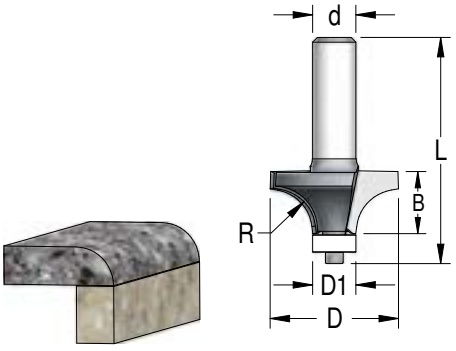



## RW...C

### 2 flutes

| Tool No. | | R | D | D1 | B | L | Ball Bearing |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm | |
| RW03002C | RW03008C | 3.2 | 19.0 | 12.7 | 9.5 | 61 | B127048C |
| RW06002C | RW06008C | 6.3 | 25.4 | 12.7 | 11 | 61 | B127048C |
| RW10002C | RW10008C | 9.5 | 31.8 | 12.7 | 16 | 68 | B127048C |
| RW12002C | RW12008C | 12.7 | 38.1 | 12.7 | 18 | 68 | B127048C |

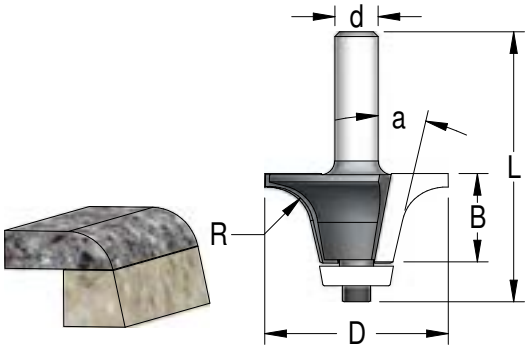
For ordering RW…C with standard metal bearing (without Delrin®), drop the letter C at the end of the Tool Number




## RVW...C

### Undermount Bowl Bits

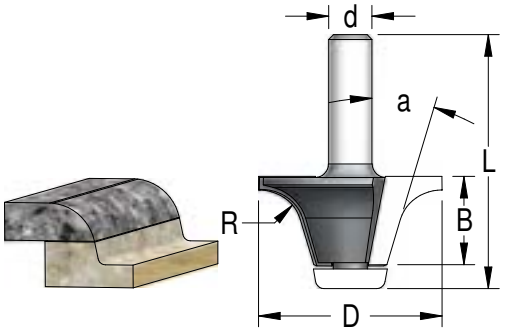
| Tool No. | | R | a | D | B | L | Ball Bearing |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | degrees | mm | mm | mm | |
| RVW13182C | RVW13188C | 13.0 | 18° | 54.0 | 25 | 79 | B210100C |
| RVW14182C | RVW14188C | 14.0 | 18° | 57.0 | 32 | 85 | B210100C |




## RVW...C

### Bevel Guided Bits

| Tool No. | | R | a | D | B | L | Ball Bearing |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | degrees | mm | mm | mm | |
| RVW10172C | RVW10178C | 9.5 | 17° | 45.2 | 18 | 64 | B220100C |
| RVW13172C | RVW13178C | 12.7 | 17° | 54.0 | 25 | 72 | B220100C |



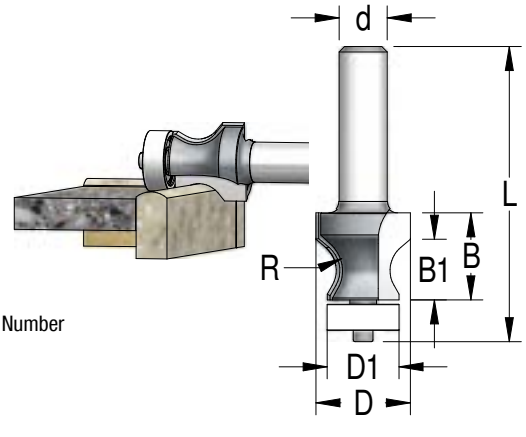

## RO...C

### "No Drip" Countertop Bit

Low Friction Delrin® Bearing Assembly

| Tool No. | | R | D | D1 | B | B1 | L | Ball Bearing |
|---|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | mm | mm | |
| RO251932C | RO251938C | 8.0 | 25.0 | 19.0 | 23 | 16 | 77 | B190063C |
| RO251942C | RO251948C | 8.0 | 25.0 | 19.0 | 29 | 24 | 83 | B190063C |

For ordering RO…C with standard metal bearing (without Delrin®), drop the letter C at the end of the Tool Number



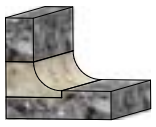
# DB..C

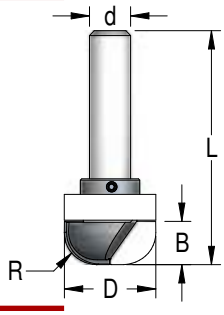
## Cove Bit

Shank mounted Low Friction Delrin® Bearing Assembly

| Tool No. | | R | D | B | L | Ball Bearing | Retainer |
|---|---|---|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm | mm | | |
| DB28102C | DB28108C | 10.0 | 28.6 | 13 | 73 | B285150C | PF15020 |

For ordering with standard metal bearing (without Delrin®), drop the letter C at the end of the Tool Number.



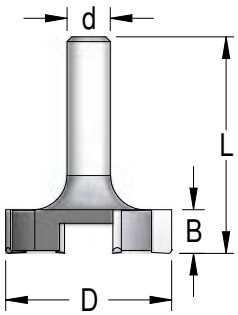



# P4...C

## 4 Flutes Countertop Surface trimmer

Create shallow recesses in counter tops. The rounded bottom of the tool produces a rounded edge on the countertop to make it easier for cleaning.

| Tool No. | | D | B | L |
|---|---|---|---|---|
| d=12mm | d=1/2" | mm | mm | mm |
| P425102C | P425108C | 50.8 | 13 | 63 |

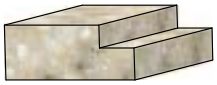


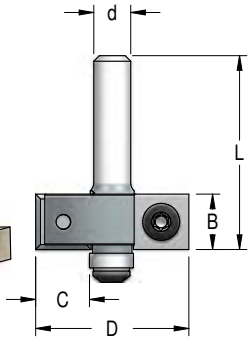

# EM

## Rabbeting bit with replaceable blades

Reduces set up time and cost effective.
Supplied with Torx key.

| Tool No. | | | Flutes | C | D | B | L | Ball Bearing | Blade No. |
|---|---|---|---|---|---|---|---|---|---|
| d=8mm | d=12mm | d=1/2" | | mm | mm | mm | mm | | |
| EM21275 | | | 2 | 12.7 | 35.0 | 12 | 54 | B095063 | CM01212 |
| | EM21272 | EM21278 | 2 | 12.7 | 35.0 | 12 | 65 | B095063 | CM01212 |
| | EM42222 | EM42228 | 4 | 22.2 | 57.0 | 12 | 67 | B127063 | CM01212 |

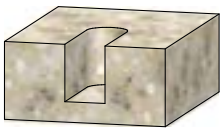


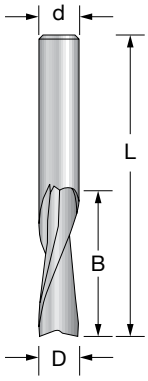



# SCU

## Double flute Upcut Spiral Bits

| Tool No. | d = D | B | L |
|---|---|---|---|
| | mm | mm | mm |
| SCU240805 | 8 | 25 | 60 |
| SCU271202 | 12 | 42 | 90 |



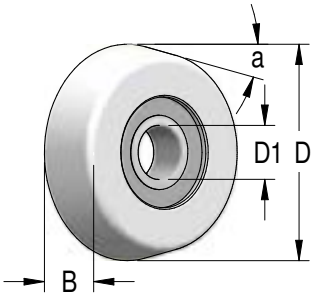


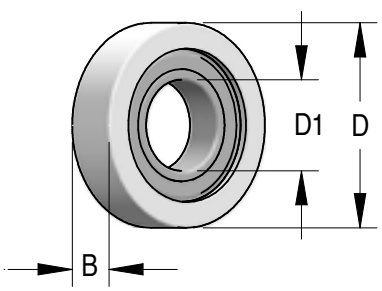

# B...C

## Low Friction Delrin® Bearing replacement Assembly

| Stock No. | D | D1 | B |
|---|---|---|---|
| | mm | mm | mm |
| B127048C | 12.7 | 4.8 | 5 |
| B159063C | 15.9 | 6.3 | 7 |
| B190063C | 19.0 | 6.3 | 7 |
| B240120C | 24.0 | 12.0 | 7 |
| B285127C | 28.5 | 12.7 | 8 |
| B285150C | 28.5 | 15.0 | 8.5 |

| Stock No. | a | D | D1 | B |
|---|---|---|---|---|
| | degrees | mm | mm | mm |
| B210100C | 10 | 21.8 | 6.3 | 5.7 |
| B220100C | 10 | 22.2 | 6.3 | 5.7 |
| B250050C | 5 | 25.4 | 6.3 | 8.2 |



# WOODPECKER

Economical line of quality carbide tipped router bits - essential for every craftsman and DIY amateur. A basic assortment of 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.

Year Developed

1992

WPW

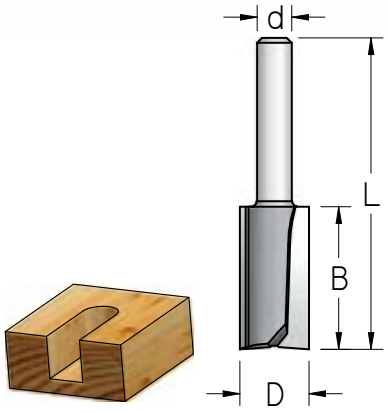
# Woodpecker Router Bits

Economical line of quality carbide tipped router bits

## HP

### Straight Bits

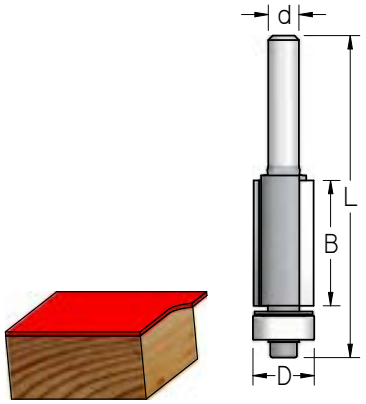
| Tool No. | | | D | B | L |
|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm |
| HP21053 | HP21054 | HP21055 | 5 | 12 | 48 |
| HP23063 | HP23064 | HP23065 | 6 | 20 | 48 |
| HP23083 | HP23084 | HP23085 | 8 | 20 | 48 |
| HP24083 | HP24084 | HP24085 | 8 | 25 | 56 |
| HP23103 | HP23104 | HP23105 | 10 | 20 | 48 |
| HP23123 | HP23124 | HP23125 | 12 | 20 | 48 |
| HP24123 | HP24124 | HP24125 | 12 | 25 | 56 |
| HP23133 | HP23134 | HP23135 | 12.7 | 20 | 48 |
| HP23143 | HP23144 | HP23145 | 14 | 20 | 48 |
| HP23163 | HP23164 | HP23165 | 16 | 20 | 48 |
| HP23183 | HP23184 | HP23185 | 18 | 20 | 48 |
| HP23193 | HP23194 | - | 19 | 20 | 48 |
| HP23203 | HP23204 | HP23205 | 20 | 20 | 48 |
| HP23253 | HP23254 | - | 25.4 | 20 | 48 |




## HF

### Flush Trimming Bits

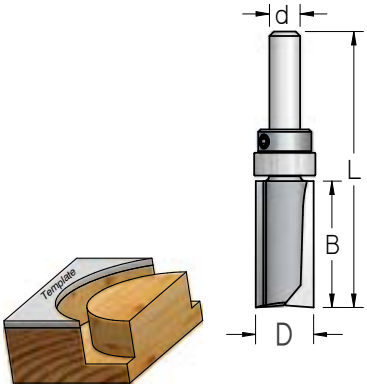
| Tool No. | | | D | B | L | Bearing |
|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | |
| HF22093 | HF22094 | HF22095 | 9.5 | 13 | 53 | B095032 |
| HF24093 | HF24094 | HF24095 | 9.5 | 25 | 65 | B095032 |
| HF22123 | HF22124 | HF22125 | 12.7 | 13 | 53 | B127048 |
| HF24123 | HF24124 | HF24125 | 12.7 | 25 | 65 | B127048 |




## HPF

### Straight Plunge Template Bits

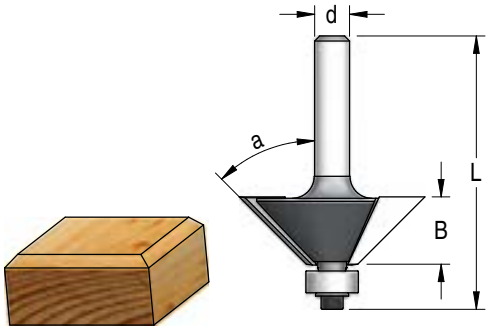
| Tool No. | | | D | B | L | Bearing | Retaining Collar |
|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | | |
| HPF4123 | HPF4124 | | 12.7 | 25 | 63 | B127063 | PF06300 |
| HPF4163 | HPF4164 | | 16 | 25 | 63 | B159063 | PF06300 |
| | | HPF4165 | 16 | 25 | 63 | B160080 | PF08000 |



# HSL

## Bevel Trimming Bits

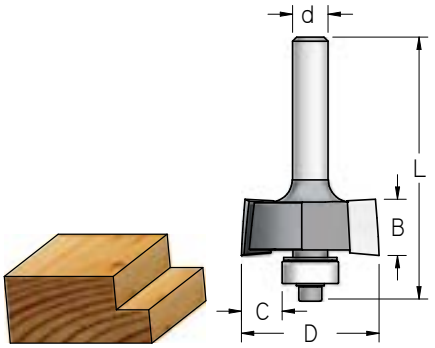
| d=6mm | Tool No. d=1/4" | d=8mm | a degrees | B mm | L mm | Bearing |
|---|---|---|---|---|---|---|
| HSL1503 | HSL1504 | HSL1505 | 15 | 6.5 | 51 | B127048 |
| HSL2253 | HSL2254 | HSL2255 | 25 | 6.5 | 46.5 | B095032 |
| HSL2453 | HSL2454 | HSL2455 | 45 | 11 | 50 | B095032 |




# HE

## Rabbeting Bits

| d=6mm | Tool No. d=1/4" | d=8mm | C mm | D mm | B mm | L mm | Bearing |
|---|---|---|---|---|---|---|---|
| HE22033 | HE22034 | HE22035 | 3.0 | 18.8 | 11 | 46 | B127048 |
| HE22103 | HE22104 | HE22105 | 9.5 | 28.6 | 12 | 47 | B095032 |
| HE22093 | HE22094 | HE22095 | 11.1 | 31.8 | 12 | 46.5 | B095048 |

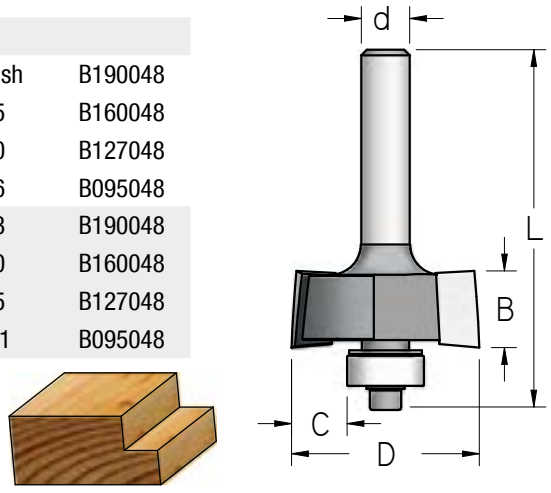



# HES

## Rabbeting & Flush Trim Set

2 bits - 4 bearing guides
Allows 8 different cuts

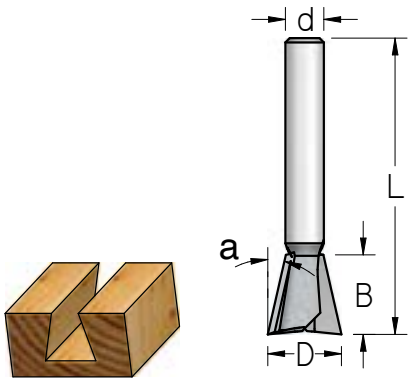
| d=6mm | Tool No. d=1/4" | d=8mm | D mm | B mm | L mm | C mm | Bearing |
|---|---|---|---|---|---|---|---|
| HES8003 | HES8004 | HES8005 | | | | | |
| Components | | | | | | | |
| HE22033 | HE22034 | HE22035 | 18.8 | 11 | 46 | 0-flush | B190048 |
| | | | | | | 1.5 | B160048 |
| | | | | | | 3.0 | B127048 |
| | | | | | | 4.6 | B095048 |
| HE22093 | HE22094 | HE22095 | 31.8 | 12 | 46 | 6.3 | B190048 |
| | | | | | | 8.0 | B160048 |
| | | | | | | 9.5 | B127048 |
| | | | | | | 11.1 | B095048 |




# HZ

## Dovetail Bit

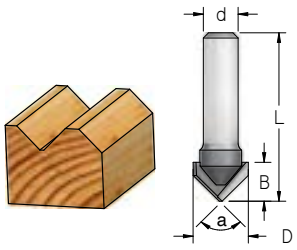
| d=6mm | Tool No. d=1/4" | d=8mm | a degrees | D mm | B mm | L mm |
|---|---|---|---|---|---|---|
| HZ13143 | HZ13144 | HZ13145 | 14 | 12.7 | 12 | 45 |



# HV

## “V”- Grooving Bits

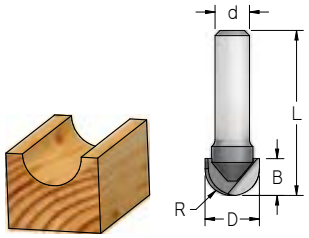
| d=6mm | Tool No. d=1/4" | d=8mm | a degrees | D mm | B mm | L mm |
|---|---|---|---|---|---|---|
| HV60953 | HV60954 | HV60955 | 60 | 9.5 | 10 | 41 |
| HV90123 | HV90124 | HV90125 | 90 | 12.7 | 8 | 38 |




# HRB

## Core Box Bits

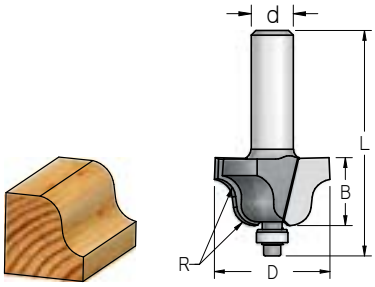
| d=6mm | Tool No. d=1/4" | d=8mm | R mm | D mm | B mm | L mm |
|---|---|---|---|---|---|---|
| HRB0603 | HRB0604 | HRB0605 | 3.2 | 6.3 | 5 | 42 |
| HRB1203 | HRB1204 | HRB1205 | 6.3 | 12.7 | 8 | 39 |




# HRD

## Roman Ogee Bits

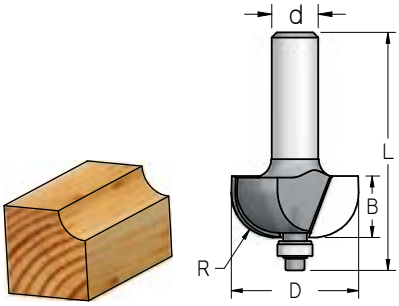
| d=6mm | Tool No. d=1/4" | d=8mm | R mm | D mm | B mm | L mm | Bearing |
|---|---|---|---|---|---|---|---|
| HRD0403 | HRD0404 | HRD0405 | 4.0 | 25 | 16 | 52 | B095032 |
| HRD0603 | HRD0604 | HRD0605 | 6.3 | 35 | 19 | 57.5 | B095032 |




# HRZ

## Cove Bits

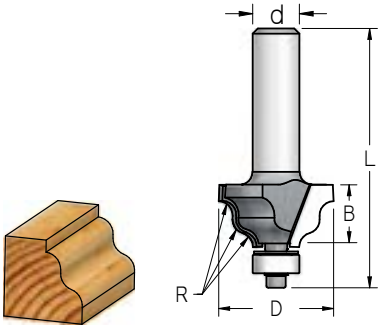
| d=6mm | Tool No. d=1/4" | d=8mm | R mm | D mm | B mm | L mm | Bearing |
|---|---|---|---|---|---|---|---|
| HRZ0603 | HRZ0604 | HRZ0605 | 6.3 | 22 | 13 | 49 | B095032 |
| HRZ1003 | HRZ1004 | HRZ1005 | 9.5 | 28.6 | 14 | 51 | B095032 |
| HRZ1203 | HRZ1204 | HRZ1205 | 12.7 | 35 | 15 | 54 | B095032 |




# HRJ

## Wavy Edge Bit

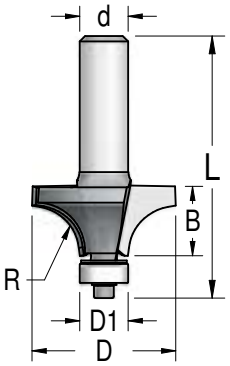
| d=6mm | Tool No. d=1/4" | d=8mm | R mm | D mm | B mm | L mm | Bearing |
|---|---|---|---|---|---|---|---|
| HRJ0303 | HRJ0304 | HRJ0305 | 3 | 23 | 13 | 47.5 | B095032 |



# HRW

## Rounding Over Bits

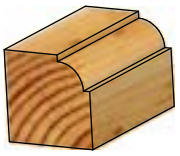
| Tool No. | | | R | D | D1 | B | L | Bearing |
|---|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | mm | mm | |
| HRW0303 | HRW0304 | HRW0305 | 3.2 | 15.8 | 9.5 | 10 | 45 | B095032 |
| HRW0603 | HRW0604 | HRW0605 | 6.3 | 22 | 9.5 | 13 | 47 | B095032 |
| HRW0803 | HRW0804 | HRW0805 | 8 | 25 | 9.5 | 15 | 49 | B095032 |
| HRW1003 | HRW1004 | HRW1005 | 9.5 | 28.6 | 9.5 | 17 | 51 | B095032 |
| HRW1213 | HRW1214 | HRW1215 | 12.7 | 38 | 12.7 | 17.5 | 59 | B127048 |

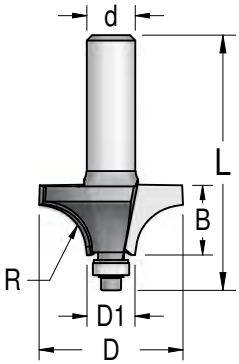



# HRP

## Beading Bits

| Tool No. | | | R | D | D1 | B | L | Bearing |
|---|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4" | d=8mm | mm | mm | mm | mm | mm | |
| HRP0303 | HRP0304 | HRP0305 | 3.2 | 15.8 | 9.5 | 10 | 45 | B063032 |
| HRP0603 | HRP0604 | HRP0605 | 6.3 | 22 | 9.5 | 13 | 47 | B063032 |
| HRP0803 | HRP0804 | HRP0805 | 8 | 25 | 9.5 | 15 | 49 | B063032 |
| HRP1003 | HRP1004 | HRP1005 | 9.5 | 28.6 | 9.5 | 17 | 51 | B063032 |
| HRP1213 | HRP1214 | HRP1215 | 12.7 | 38 | 12.7 | 17.5 | 59 | B095048 |






# HS06

## 6 Pcs. Starter Set

In a handsome wooden storage box.

| Set No. | | |
|---|---|---|
| d=6mm | d=1/4" | d=8mm |
| HS06223 | HS06224 | HS06225 |
| Consists of: | | |
| HP23063 | HP23064 | HP23065 |
| HP23123 | HP23124 | HP23125 |
| HRD0403 | HRD0404 | HRD0405 |
| HRP0603 | HRP0604 | HRP0605 |
| HRW1003 | HRW1004 | HRW1005 |
| HV90123 | HV90124 | HV90125 |

# HS04RW5

## 4 Pcs. Set of Rounding Over / Beading Bits

In a handsome wooden storage box.
Consists of 4 tools with 8mm shank plus a replacement bearing for using the tools as Beading Bits and a hex key.
Tools: HRW0305, HRW0605, HRW0805 and HRW1005
Replacement bearing: B063032

# REPLACEMENT PARTS

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

Year Developed

1998

2011

2015

WPW

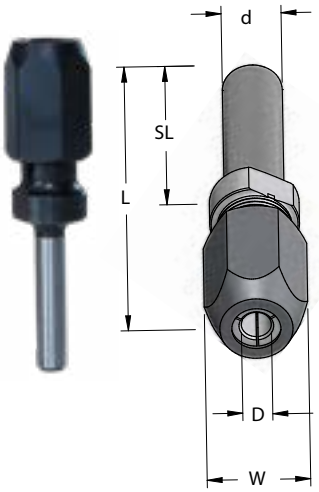
# Replacement Parts

Accessories for CNC machines, router machines, router bits, countersinks and Drilling tools.

## TX

### Shank Extension Adapters

For CNC and Router machines. Allows deeper reach for a wide range of applications.
Very useful when the bit is too short for the job.

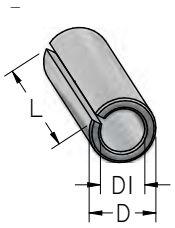


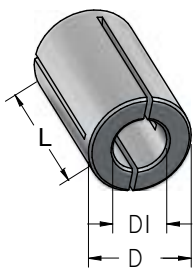

| Stock No. | | | | | D | W | SL | L |
|---|---|---|---|---|---|---|---|---|
| d=6mm | d=1/4” | d=8mm | d=12mm | d=1/2" | mm | mm | mm | mm |
| TX03203 | TX03204 | | | | 3.17 (1/8") | 11.1 | 28.5 | 57 |
| TX06303 | TX06304 | | | | 6.35 (1/4") | 16 | 28.5 | 67 |
| | | | TX06302 | TX06308 | 6.35 (1/4") | 19 | 38 | 87 |
| | | TX08005 | | | 8 | 16 | 32 | 67 |
| | | | TX12002 | | 12 | 25.4 | 42 | 92 |
| | | | TX12702 | TX12708 | 12.7 (1/2") | 25.4 | 42 | 92 |

## T/TL

### Reduction Sleeves

For reducing collet size to take smaller shank.




| Stock No | D | D1 | L |
|---|---|---|---|
| | mm | mm | mm |
| | Single spring slot | | |
| T060030 | 6 | 3 | 20 |
| T060032 | 6 | 3.17 (1/8") | 25 |
| T060040 | 6 | 4 | 25 |
| T063030 | 6.35 (1/4") | 3 | 25 |
| T063032 | 6.35 (1/4") | 3.17 (1/8") | 25 |
| T063040 | 6.35 (1/4") | 4.0 | 19 |
| T063048 | 6.35 (1/4") | 4.76 (3/16") | 25 |
| T080060 | 8 | 6 | 25 |
| T080063 | 8 | 6.35 (1/4") | 25 |
| T095063 | 9.5 (3/8") | 6.35 (1/4") | 25 |
| T095080 | 9.5 (3/8") | 8 | 25 |
| T100060 | 10 | 6 | 25 |
| T100063 | 10 | 6.35 (1/4") | 25 |
| T100080 | 10 | 8 | 25 |
| | 4 spring slots | | |
| T120060 | 12 | 6 | 25 |
| TL12063 | 12 | 6.35 (1/4") | 30 |
| T120080 | 12 | 8 | 25 |
| T120100 | 12 | 10 | 25 |
| T127032 | 12.7 (1/2") | 3.17 (1/8") | 25 |
| T127048 | 12.7 (1/2") | 4.76 (3/16") | 25 |
| TL12760 | 12.7 (1/2") | 6 | 30 |
| T127063 | 12.7 (1/2") | 6.35 (1/4") | 25 |
| TL12763 | 12.7 (1/2") | 6.35 (1/4") | 30 |
| T127079 | 12.7 (1/2") | 7.9 (5/16") | 25 |
| T127080 | 12.7 (1/2") | 8 | 25 |
| TL12795 | 12.7 (1/2") | 9.5 | 30 |
| T127100 | 12.7 (1/2") | 10 | 25 |

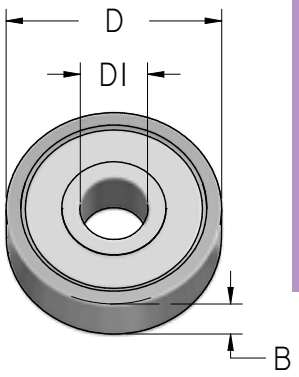
# B

## Ball Bearings

| Stock No | D mm | D1 mm | B mm |
|---|---|---|---|
| B048024 | 4.76 | 2.38 | 2.4 |
| B063032 | 6.35 | 3.17 | 2.8 |
| B080040 | 8.00 | 4.00 | 3 |
| B090040 | 9.00 | 4.00 | 4 |
| B095032 | 9.53 | 3.17 | 4 |
| B095048 | 9.53 | 4.76 | 3.2 |
| B095063 | 9.53 | 6.35 | 3.2 |
| B100040 | 10.00 | 4.00 | 4 |
| B100050 | 10.00 | 5.00 | 4 |
| B110040 | 11.00 | 4.00 | 4 |
| B110050 | 11.00 | 5.00 | 4 |
| B120040 | 12.00 | 4.00 | 4 |
| B120060 | 12.00 | 6.00 | 4 |
| B120080 | 12.00 | 8.00 | 3.5 |
| B124048* | 12.40 | 4.76 | 5 |
| B127048 | 12.70 | 4.76 | 5 |
| B127063 | 12.70 | 6.35 | 4.8 |
| B130040 | 13.00 | 4.00 | 5 |
| B150060 | 15.00 | 6.00 | 5 |

| Stock No | D mm | D1 mm | B mm |
|---|---|---|---|
| B159063 | 15.87 | 6.35 | 5 |
| B160048 | 15.87 | 4.76 | 5 |
| B160050 | 16.00 | 5.00 | 5 |
| B160080 | 16.00 | 8.00 | 5 |
| B190048 | 19.05 | 4.76 | 6 |
| B190060 | 19.00 | 6.00 | 6 |
| B190063 | 19.05 | 6.35 | 7.1 |
| B190127 | 19.05 | 12.70 | 4 |
| B220060 | 22.00 | 6.00 | 7 |
| B220080 | 22.00 | 8.00 | 7 |
| B254127A** | 25.40 | 12.70 | 8.5 |
| B260100 | 26.00 | 10.00 | 8 |
| B280150 | 28.00 | 15.00 | 7 |
| B285127 | 28.57 | 12.70 | 8 |
| B320150 | 32.00 | 15.00 | 9 |
| B350150 | 35.00 | 15.00 | 11 |
| B420150 | 42.00 | 15.00 | 13 |

*undersized Bearing – for use after resharpening Router Bits
**Aluminum Assembly

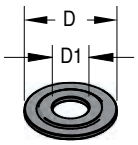



# BD

## Dust Shields

Mounted behind Ball Bearing in order to inhibit dust.

| Stock No | D1 mm | D mm | Ball Bearing |
|---|---|---|---|
| BD08040 | 4 | 6.5 | B080040 |
| BD09532 | 3.2 | 9 | B095032 |
| BD09548 | 4.8 | 9 | B095048 |
| BD12748 | 4.8 | 12 | B127048 |
| BD16050 | 5 | 15 | B160050 |
| BD16063 | 6.4 | 15 | B190063 |
| BD35150 | 15 | 30 | B350150 |

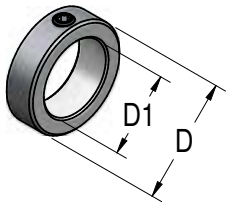



# PF...O

## Retaining Collars

Used for retaining Ball Bearings on Router Bit shanks.

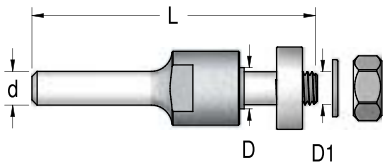
| Stock No | D1 mm | D mm | Screw No. |
|---|---|---|---|
| PF09500 | 6.35 | 9.3 | BR32026 |
| PF06300 | 6.35 | 11.0 | BR32026 |
| PF08010 | 8 | 11.5 | BR32026 |
| PF08000 | 8 | 14.0 | BR32032 |
| PF10000 | 10 | 16.0 | BR32026 |
| PF19000 | 12.7 | 18.5 | BR32026 |
| PF12700 | 12.7 | 23.0 | BR48048 |
| PF15000 | 15 | 20.0 | BR48048 |

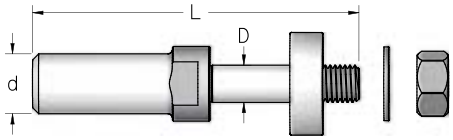



# N

## Arbors for Slotting Cutters

| Stock No. d=6mm | d=1/4" | d=8mm | d=12mm | d=1/2" | D mm | D1 mm | L mm |
|---|---|---|---|---|---|---|---|
| | | | Arbor & Nut | | | | |
| N000003 | N000004 | N000005 | | | 7.94 | 6.35 | 55 |
| | | | N000002 | N000008 | 7.94 | 6.35 | 68 |
| Arbor, Nut and Bearing | | | | B159063 | | | |
| N000803 | N000804 | N000805 | | | 7.94 | 6.35 | 55 |
| | | | N000802 | N000808 | 7.94 | 6.35 | 68 |
| | | | Arbor, Nut & Spacers | | | | |
| N000013 | N000014 | N000015 | | | 7.94 | - | 70 |
| | | | N000012 | N000018 | 7.94 | - | 78 |
| | | | Arbor, Nut, spacers and bearing B220080 | | | | |
| N000813 | N000814 | N000815 | | | 7.94 | - | 70 |
| | | | N000812 | N000818 | 7.94 | - | 78 |

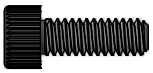


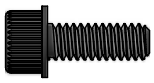



# BR/BT

## Screws

| Stock No. | Description | Application | Fixing Key No. |
|---|---|---|---|
| | | **Cap Screws** | |
| BR25063 | NC 3/48 x 6.3mm | Ball bearing fixing | KEY5/64 |
| BR25095 | NC 3/48 x 9.5mm | Ball bearing fixing | KEY5/64 |
| BR30100 | M3 x 10mm | Ball bearing fixing | KEY02.5 |
| BR32095 | NC 5/40 x 9.5mm | Ball bearing fixing | KEY3/32 |
| BR40120 | M4 x 12mm | ACM countersink and TATM | KEY03.0 |
| BR48127 | NF10-32 x 12.7mm | Ball bearing fixing | KEY04.0 |
| BR50150 | M5 x 15mm | ACM countersink and TATM | KEY04.0 |
| | | **Cap Screws with washer (SEMS)** | |
| BRW3295 | NC 5/40 x 9.5mm | Ball bearing fixing | KEY3/32 |
| | | **Set Screws** | |
| BR32026 | NC 5/40 x 2.6mm | Retaining Collars | KEY01.6 |
| BR32032 | NC 5/40 x 3.2mm | Retaining Collars | KEY01.6 |
| BR40050 | M4 x 5mm | Combi chuck adapters | KEY5/64 |
| BR48048 | NC 10/24 x 4.8mm | Countersinks & Counterbores | KEY3/32 |
| BR50050 | M5 x 5mm | Combi chucks | KEY02.5 |
| BR50100 | M5 x10mm | Combi drills & adapters | Screwdriver (slot) |
| BR60050 | M6 x 5mm | Countersinks & adapters | KEY03.0 |
| BR60060 | M6 x 6mm | Countersinks & Counterbores | KEY03.0 |
| BR63040 | NF1/4-28 x 4mm | Countersinks & Counterbores | KEY1/8 |
| BR63048 | NF1/4-28 x 4.8mm | Countersinks & Counterbores | KEY1/8 |
| BR63063 | NF1/4-28 x 6.3mm | Countersinks & Counterbores | KEY1/8 |
| | | **Torx Screws** | |
| BT40060 | Torx M4 x 6mm | Replaceable bits | KEY-TORX15 |
| BT50080 | Torx M5 x 8mm | Fixing Slot & Undercut bit | KEY-TORX25 |
| | | **Button Cap Screws** | |
| BRK6363 | NF1/4-28 x 6.3mm | Fixing Stopper on Countersink | KEY-4032 |



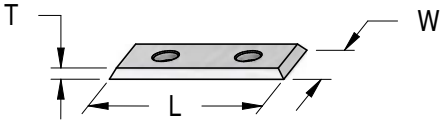


# CM

## Tungsten Carbide Replaceable Blades

For tools with replaceable Carbide blades.

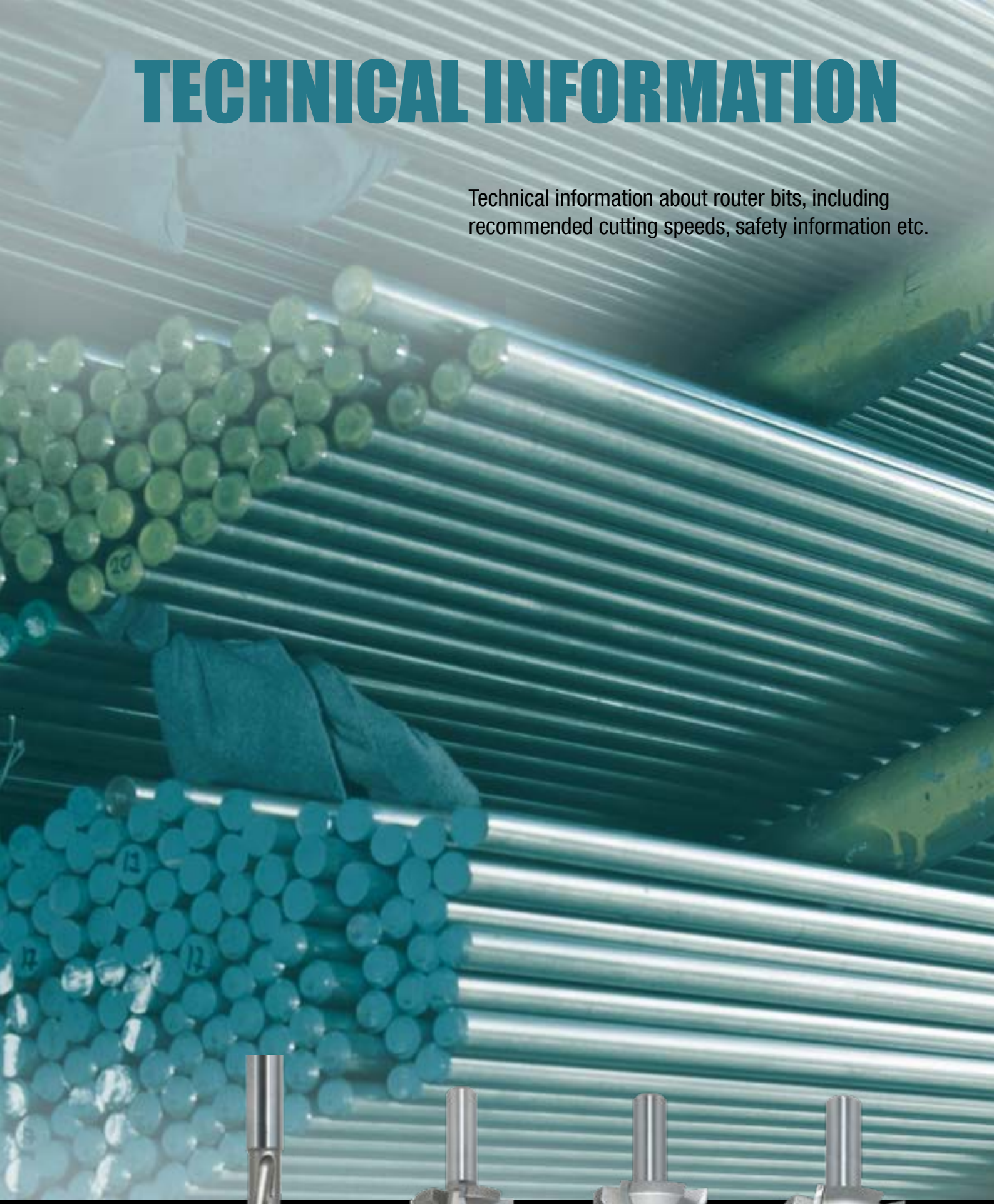
| Stock No | L mm | W mm | T mm | Cut. Edges | Holes |
|---|---|---|---|---|---|
| CM01212 **/K** | 12 | 12 | 1.5 | 4 | 1 |
| CM03012b **/K** | 30 | 12 | 1.5 | 2 | 2 |
| CM03012 | 29.5 | 12 | 1.5 | 4 | 2 |
| CM05012 | 49.5 | 12 | 1.5 | 4 | 2 |
| CM501217 **/K** | 50 | 12 | 1.7 | 4 | 3 |




**/K** Can be ordered with Harder Grade. While ordering, just add the letter "K" at the end of the Stock No.

# TECHNICAL INFORMATION

Technical information about router bits, including recommended cutting speeds, safety information etc.



Year Developed 2005 2009 2011 2019

WPW

# Technical Information

Tungsten Carbide Tipped (TCT) tools (1) 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, chipboard, MDF, plywood, plastic, Corian and other solid surface sheet goods.

WPW TCT tools with “K-Carbide” grade have up to 200 % longer lifetime than tools with standard carbide. Developed especially for working on materials that consist of synthetic polymer resins for bonding purposes, the K- carbide is excellent for cutting MDF, HDF and other hard materials.

Solid Carbide Spiral CNC Bits (2) can work with higher feed rates and have longer tool life than TCT tools. These tools cut using less energy and with less vibration, leaving a perfect and clean finish on hardwood, softwood and man-made materials.

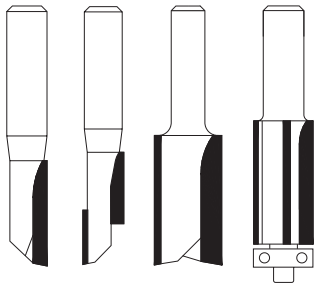
Aluminium and brass can also be cut, but only on stationary machines, provided that proper clamping devises are employed and the proper speed (RPM) and coolant are used.

Diamond Tipped PCD Router Bits (3) last 30- 50 times longer than Carbide tools and are very efficient in cutting abrasive materials including composites, particleboard, MDF and hardwoods.

Diamond Grit Coated Router Bits (4) are designed for cutting Fiberglass, Carbon Fiber and other Composite materials.

## 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 then, back off slightly - 1.5mm approx.




## Flutes

When the routing is inside the material, more flutes mean less space for the chips to clear out. Higher “chip load” is created. This requires slowing down the feed rate. The chips, tend to get hot and the material being cut starts to burn and the bit overheats.

**Single flute** Bits are used for free cutting and roughing with fast feed rates.

**Stagger**-Tooth combine the fast stock removal of single-flute bits with a better balance and increased strength.

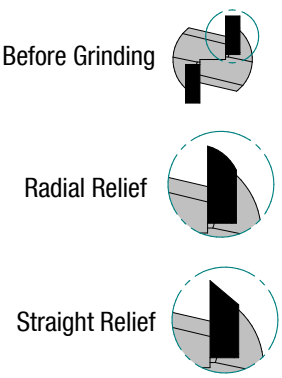
**Double flute** Router bits are good for roughing and finishing, and are the preferred choice for most woodworking jobs.

**3 flute bits** are better for finishing and have longer tool life while working on hard materials, such as solid surface materials or even aluminum. However, if the chips are not cleared fast enough, the feedrate must be slowed down.

**4 flute bits** are recommended when feeding the router along the outside edges of a work- piece, like in profiling jobs. They provide an extremely smooth finish.

## Cutter Clearance - Relief

The relief on the carbide-cutting tip of straight router bits can be ground with either Radial Relief or Straight Relief.

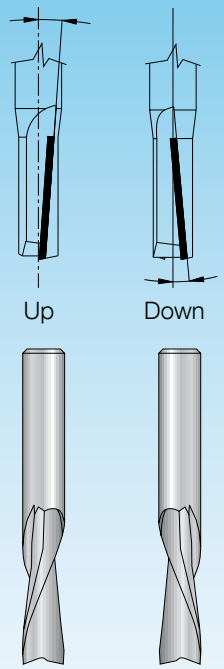



**Radial relief** is preferred for professional applications, as it keeps a strong cutting edge, achieving longer lifetime. After resharpening, it ensures that the Tool Diameter will be as close as possible to the original Diameter. WPW professional straight bits are ground this way to give the best possible performance.

**Straight relief** gives a sharper edge, it is more aggressive but it will not last as long. It is simpler to grind than the radial relief, but it is not recommended for working on hard materials. Our Woodpecker tools have a straight relief.

## Shear Angle

Straight Shear Bits and Solid Carbide Spiral Bits are made with negative - “down shear” or positive - “up shear” angle of the cutting edges. By spreading the cutting action over a larger part of the tool, they produce smoother cuts with less energy and less 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. Straight Shear Bits are a compromise between the standard Straight Bits and the expensive, industrial Solid Carbide Spiral Bits.




**“Up shear”** / Upcut geometry pulls the chips from the working area, allowing deep grooving and higher feed rates.

**“Down shear”** / Downcut geometry directs chips towards the work piece and results smoother cut and cleaner edge of laminated boards.

The combination of Upcut and Downcut design, also called: “Compression”, is suitable for perfect cutting with clean edges of double-sided laminated materials.

## 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: $\mathbf{n} = \frac{\mathbf{V} \times 60 \times 1000}{\pi \times \text{ØD}}$

**n** = router speed in RPM
**V** = cutting speed in meter/sec.
**ØD** = router bit’s diameter in mm
π = 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 |

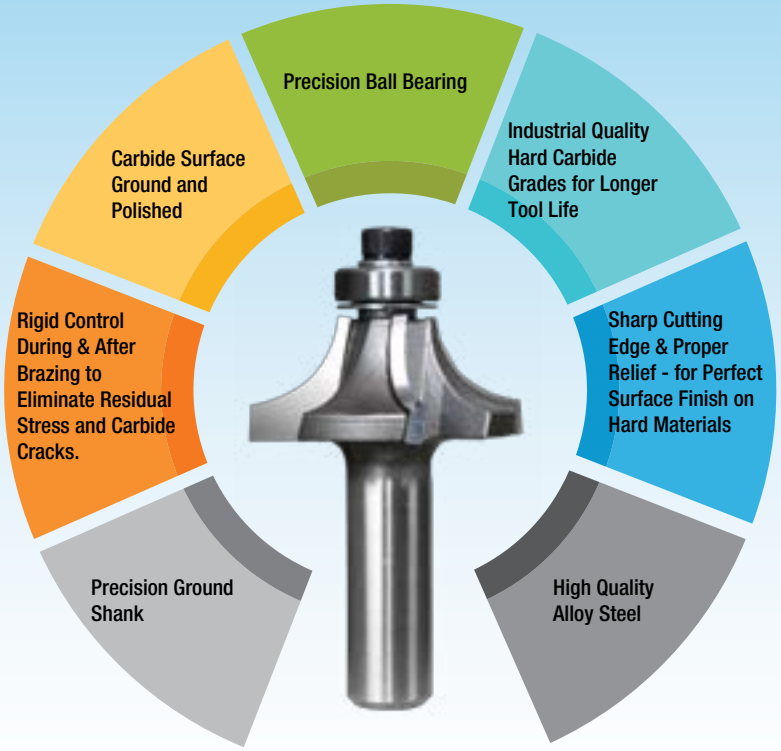
This speed is not always practical. Taking into consideration the speed and the power of Router machines that are available in the market, we suggest the following router speeds in terms of RPM (Revolutions Per Minute).

SUGGESTED ROUTER SPEED - RPM

| ØD | 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 |

# WPW Router Bit Features

**Strict Quality Control to precise standards.**
**Every tool undergoes inspection after production.**




# 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 resharpening tools, use adequate ventilation. The grinding process will produce dust that has potentially hazardous ingredients.

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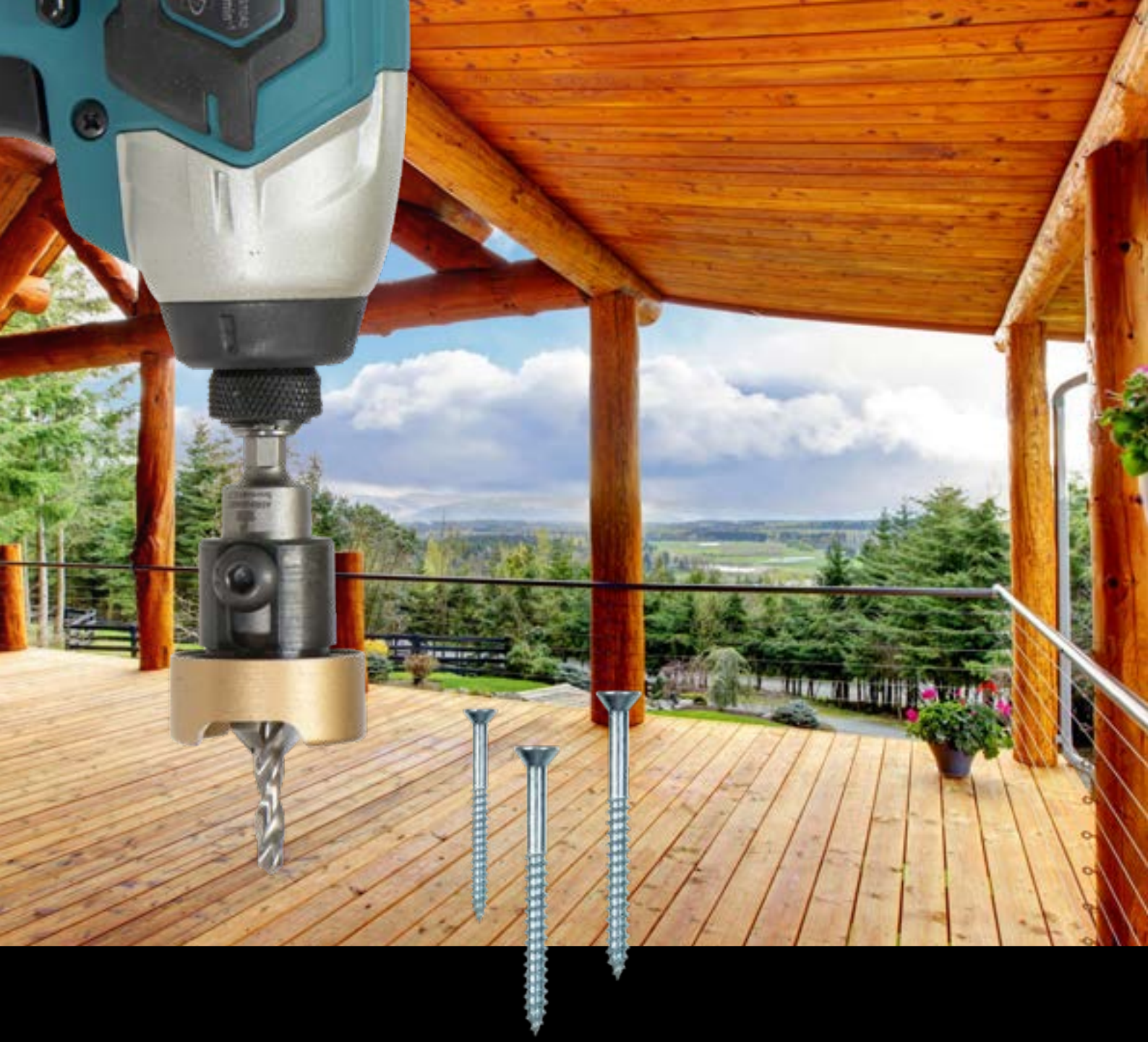

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