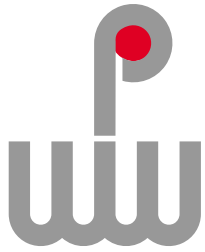


W.P.W

“Shear” Router Bits





W.P.W. ENGINEERING LTD.

WPW "Shear" Router Bits

WPW "Shear" Router Bits are carbide tipped Straight bits with negative - down-cut as well as positive - up-cut shear angle.

These bits are compromise between the most popular Straight bits and the industrial expensive Spiral bits. They have very sharp - helical ground - cutting edge, which leaves superior cut on the wood. By spreading the cutting action over a larger edge, they produce smoother cuts with less energy and vibration than parallel standard Straight bits, that have no shear angle at all.

The shear angle allows control on direction of chips removal – up or down.

For hand routing - "Shear" bits are safer than Spiral bits. Down cut Spiral bit is risky to use, as it's screw-driven forces are sufficient to pick up the router machine and twist it out of your hands. Up cut Spiral bit can pick up a work piece if it is not properly secured.

Shear Bits have a higher wear resistance, extended life and better performance, than the standard Straight bits. They are also easily resharpened, unlike Spiral bits that require special grinding facilities.

"Shear" bits are the most economical choice for the skilled woodworker.

This line includes the following tools:

- Straight Up-Cut Bits
- Straight Down-Cut Bits
- Staggered, Up and Down-Cut Shear Compression Bit
- Flush Trim Down-Cut Bits
- Bevel Trim Down-Cut Bits



Straight, Carbide tipped, plunging Router Bits

PU

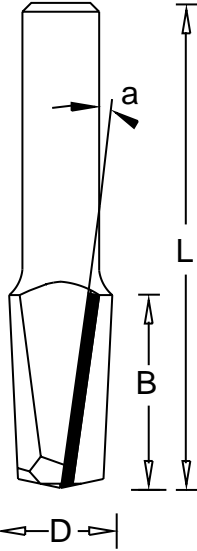
Straight Up-Cut Bits

Positive shear angle.

Directs chips up toward the shank.

Better removal of chips in most routing applications, especially - plunging and grooving.

Cleaner edge in laminates when used in "inverted" router table.



1/2" or 12 mm shank

Tool No.	D		B		L		a
	mm	inch	mm	inch	mm	inch	
PU40958	9.5	3/8	25	1	70	2-3/4	5°
PU41278	12.7	1/2	25	1	67	2-5/8	7°
PU51278	12.7	1/2	32	1-1/4	73	2-7/8	6°
PU61278	12.7	1/2	38	1-1/2	80	3-1/8	5°
PU81278	12.7	1/2	51	2	108	4-1/4	4°
PU51908	19.0	3/4	32	1-1/4	73	2-7/8	8°
PU52548	25.4	1	32	1-1/4	73	2-7/8	12°
3/4" shank							
PU51909	19.0	3/4	32	1-1/4	83	3-1/4	8°
PU81909	19.0	3/4	51	2	102	4	5°



STS

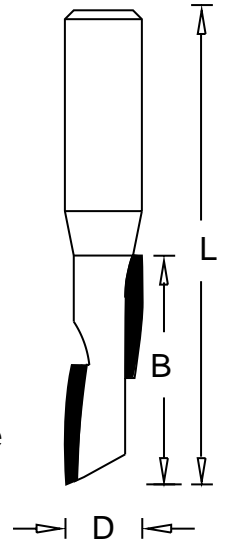
Staggered, Up and Down-Cut

Shear Compression Bit

Directs chips towards the middle of the board.

Ensures a clean cut on both sides of the work piece.

For trimming veneered and double faced melamine-coated boards, plywood and natural timber.



1/2" or 12mm shank

Tool No.	D		B		L	
	mm	inch	mm	inch	mm	inch
STS6128	12.7	1/2	38	1-1/2	80	3-1/8
STS8128	12.7	1/2	51	2	105	4-1/8

PS

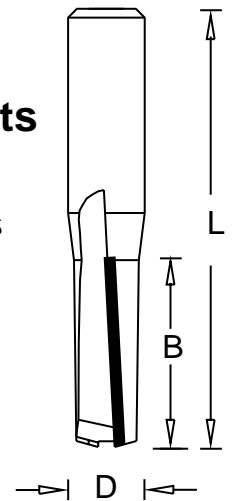
Straight Down-Cut Bits

3 deg. Negative shear angle.

Directs chips downward towards the work piece.

Better surface - cleaner edge - in any routing applications. Ideal for trimming veneered plywood and any laminated boards.

Great for dados, but require slower movements to enable chips clearing up.



1/2" or 12 mm shank

Tool No.	D		B		L	
	mm	inch	mm	inch	mm	inch
PS40958H	9.5	3/8	25	1	70	2-3/4
PS51278H	12.7	1/2	32	1-1/4	73	2-7/8
PS61278H	12.7	1/2	38	1-1/2	80	3-1/8
PS81278H	12.7	1/2	51	2	108	4-1/4



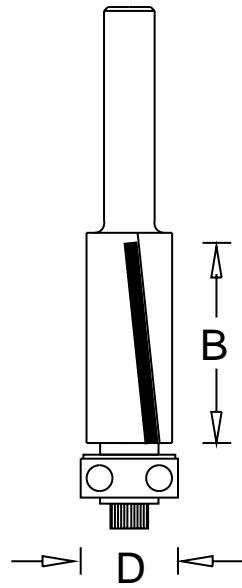
Laminate Trimming bits

FS

Flush Trim Down-Cut Bits

Better surface - cleaner edge.
Ideal for trimming veneered plywood and any laminated boards.

1/4" or 6mm shank



Tool No.	D		B		No. of Flutes	Ball Bearing
	mm	inch	mm	inch		
FS41274	12.7	1/2	25	1	2	B127048
F221604	16.0	5/8	16	5/8	2	B160050
F221904	19.0	3/4	16	5/8	2	B190063
1/2" or 12mm shank						
FS41278	12.7	1/2	25	1	2	B127048
FS61908	19.0	3/4	38	1-1/2	2	B190063
FS81908	19.0	3/4	51	2	2	B190063

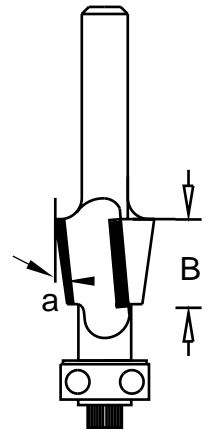


SL

Bevel Trim Down-Cut Bits

Negative shear angle
For slightly beveling (8 deg.) the laminate edge.
Extended Bearing – enables smooth guiding, despite excess of glue.
Better surface finish.

1/4" or 6mm shank



Tool No.	a	B		No. of Flutes	Ball Bearing
		mm	inch		
SL20804	8	12	1/2	2	B127048

