

ROUTER BITS FOR PORTABLE ROUTERS

The high quality **Klein** router bits satisfy the most accurate applications required by the marketplace today. In order to achieve the highest level of quality, our production department has continually invested in and equipped with the advanced technologies and versatile engineering systems over the years.

Moreover we always pay detail attention to the choice of raw materials. For example, in developing our special TCT straight router bits, we collaborated with our supplier in material selection, so that these bits are produced for top market performance, precision and cutting life.

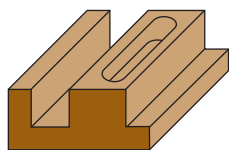
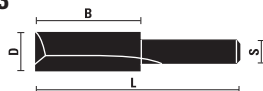
Various diameters and lengths of router bits can be found in our **Klein** catalogue; in fact, there are more than a thousand different items which can meet any particular requirement in both industrial and handcraft applications.

Table for the choice of straight router bits

Items	Soft wood	Hard wood	Composite
A/B/C 101-102 VHW	XXX	XXX	XXX
A/B/C 101-102 HW brazed	XX	XXX	XXX

VHW STRAIGHT BITS

ART. A101/2/3 - B101/2/3 - C101/2/3



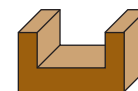
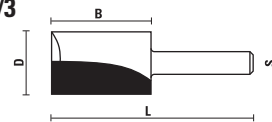
- Solid carbide
- Straight cut and plunging (Z=2+1)
- To be used also for working plastic materials, acrylic, polypropylene, acetates and polycarbonates
- To be used also for C.N.C. machines



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	B	L	Z
A101.015.R			1,5	4	46	2+1
A101.020.R	B101.020.R		2	4	46	2+1
	B101.024.R		2,4	6	46	2+1
A101.025.R			2,5	8	48	2+1
A101.030.R	B101.030.R	C101.030.R	3	11	51	2+1
	B101.032.R		3,2	11	51	2+1
A101.040.R	B101.040.R	C101.040.R	4	11	51	2+1
	B101.048.R		4,8	11	51	2+1
A101.050.R		C101.050.R	5	11	51	2+1
A101.060.R	B101.060.R	C101.060.R	6	19	51	2+1
	B101.064.R		6,4	19	51	2+1
A101.070.R	B101.070.R	C101.070.R	7	19	51	2+1
A101.080.R	B101.080.R	C101.080.R	8	19	51	2+1
	B102.048.R		4,8	16	55	2+1
A102.050.R		C102.050.R	5	16	55	2+1
A102.060.R	B102.060.R	C102.060.R	6	25	57	2+1
	B102.064.R		6,4	25	57	2+1
A102.080.R	B102.080.R	C102.080.R	8	25	57	2+1
A103.080.R	B103.080.R	C103.080.R	8	32	63	2+1

HW STRAIGHT BITS

ART. A101/2/3 - B101/2/3 - C101/2/3



- Straight cut
- Z=2+1 also plunging

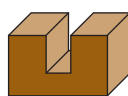


S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	B	L	Z
A101.090.R		C101.090.R	9	19	51	2
	B101.095.R		9,5	19	51	2
A101.100.R	B101.100.R	C101.100.R	10	19	51	2
A101.101.R		C101.101.R	10	19	51	2+1
A101.110.R	B101.110.R	C101.110.R	11	19	51	2
A101.120.R	B101.120.R	C101.120.R	12	19	51	2
A101.121.R		C101.121.R	12	19	51	2+1
	B101.127.R		12,7	19	51	2
A101.130.R		C101.130.R	13	19	51	2
A101.140.R	B101.140.R	C101.140.R	14	19	51	2
A101.141.R		C101.141.R	14	19	51	2+1
A101.150.R	B101.150.R	C101.150.R	15	19	51	2
A101.160.R	B101.160.R	C101.160.R	16	19	51	2
A101.161.R		C101.161.R	16	19	51	2+1
A101.170.R		C101.170.R	17	19	51	2
A101.180.R	B101.180.R	C101.180.R	18	19	51	2
A101.181.R		C101.181.R	18	19	51	2+1
A101.190.R	B101.190.R	C101.190.R	19	19	51	2
		C101.191.R NEW	19	19	51	2+1
A101.200.R	B101.200.R	C101.200.R	20	19	51	2
A101.201.R		C101.201.R	20	19	51	2+1
A101.210.R		C101.210.R	21	19	51	2
A101.220.R	B101.220.R	C101.220.R	22	19	51	2
A101.221.R		C101.221.R	22	19	51	2+1
		C101.240.R	24	19	51	2
A101.250.R		C101.250.R	25	19	51	2
	B101.254.R		25,4	19	51	2
	B102.095.R		9,5	25	57	2
A102.100.R	B102.100.R	C102.100.R	10	25	57	2
A102.101.R		C102.101.R	10	25	57	2+1
A102.120.R	B102.120.R	C102.120.R	12	25	57	2
A102.121.R		C102.121.R	12	25	57	2+1
	B102.127.R		12,7	25	57	2
		C102.140.R	14	25	57	2
A102.160.R	B102.160.R	C102.160.R	16	25	57	2
A102.161.R		C102.161.R	16	25	57	2+1
	B103.095.R		9,5	32	63	2
A103.100.R	B103.100.R	C103.100.R	10	32	63	2
A103.120.R	B103.120.R	C103.120.R	12	32	63	2
	B103.127.R		12,7	32	63	2
A103.150.R			15	32	63	2
A103.160.R	B103.160.R	C103.160.R	16	32	63	2

Straight bits sets in wooden case see page 1.28 and 1.31

VHW DOUBLE FLASH TRIMMING BITS

ART. A101



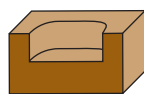
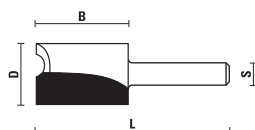
Solid carbide



S Ø 6	D	B	L	Z
A101.031.R	3	11	65	2+1

HW MORTISING PILOT BITS Z=2

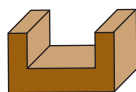
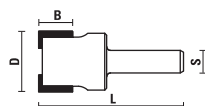
ART. A104 - B104 - C104



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	B	L
A104.127.R	B104.127.R	C104.127.R	12,7	19	51
A104.160.R	B104.160.R	C104.160.R	16	19	51
A104.190.R	B104.190.R	C104.190.R	19	19	51

HW HINGE MORTISING BITS Z=2

ART. A104



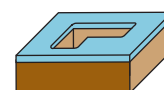
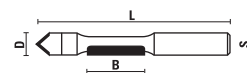
Suitable for routing lateral shallow recesses such as hinge leaves or general large shallow cuts, thanks to the shorter length. Especially made with lateral slots for better chip evacuation.



S Ø 6	D	B	L
A104.580.R NEW	8	9	37
A104.600.R NEW	10	9	37
A104.620.R NEW	12	9	37
A104.630.R NEW	13	9	37
A104.640.R NEW	14	9	37
A104.650.R NEW	15	9	37
A104.660.R NEW	16	9	37
A104.670.R NEW	17	9	37
A104.680.R NEW	18	9	37
A104.700.R NEW	20	9	37
A104.710.R NEW	21	9	37
A104.720.R NEW	22	9	37
A104.730.R NEW	23	9	37
A104.740.R NEW	24	9	37
A104.750.R NEW	25	9	37
A104.800.R NEW	30	9	37

HW PANEL PILOT BITS Z=1+1

ART. A105 - B105 - C105



Ideal for working laminated panels

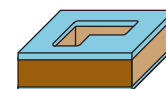
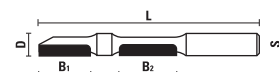


S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	B	L
A105.060.R ▲			6	19	63
A105.064.R	B105.064.R	C105.064.R	6,4	19	63
		C105.080.R	8	19	63

▲ Solid carbide

HW DOUBLE PANEL PILOT BITS

ART. A106 - C106

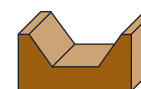
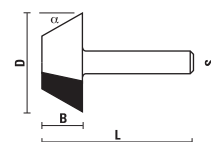


Ideal for working laminated panels top and bottom side

S Ø 6	S Ø 8	D	B1	B2	L
A106.060.R	C106.060.R	6	18	18	75

HW BEVEL TRIM BITS Z=2

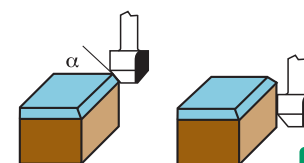
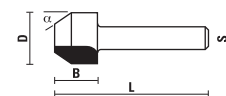
ART. A107 - B107 - C107



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	α	B	L
A107.127.R	B107.127.R		12,7	15°	13	51
A107.143.R	B107.143.R		14,3	10°	16	45
A107.222.R	B107.222.R	C107.222.R	22,2	23°	10	38
A107.254.R	B107.254.R	C107.254.R	25,4	30°	10	38
A107.350.R	B107.350.R	C107.350.R	35	45°	10	38

HW BEVEL TRIM BITS Z=2

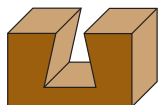
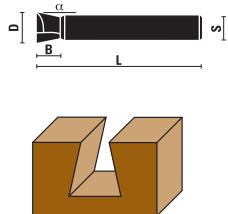
ART. A107 - B107 - C107



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	α	B	L
A107.030.R	B107.030.R	C107.030.R	12,7	30°	12,7	41
A107.045.R	B107.045.R	C107.045.R	12,7	45°	12,7	41

VHW DOVETAIL BITS Z=2

ART. A108



- To use for joints "Hoffmann" system.
- For frames, matchboards, drawers, window and door frames, pallets and wood products in general.



S Ø 6	S Ø 8	D	α	B	L	Nr.
A108.053.R ▲		5,3	17°	4	43	1
A108.078.R ▲		7,8	18°	6	43	2
A108.093.R ▲		9,3	19°	7,5	43	3
	C108.161.R	15,8	20°	13	43	4

▲ Solid carbide

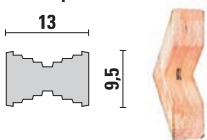
Dowel pin nr. 1



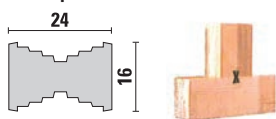
Dowel pin nr. 2



Dowel pin nr. 3

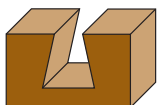
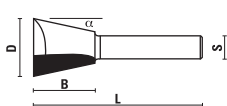


Dowel pin nr. 4



HW DOVETAIL BITS Z=2

ART. A108 - B108 - C108



S Ø 6	S Ø 6,4 (1/4")	D	α	B	L
A108.064.R ▲	B108.064.R	6,4	7°	8	63
A108.080.R ▲	B108.080.R	8	9°	9,5	63
A108.095.R	B108.095.R	9,5	9°	9,5	42
A108.127.R	B108.127.R	12,7	14°	13	45
A108.150.R		15	12°	14,5	58
A108.160.R	B108.160.R	16	7°	16	45
A108.190.R	B108.190.R	19	7°	19	65

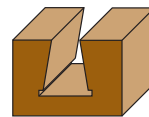
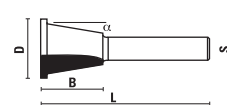
▲ Solid carbide

S Ø 8	D	α	B	L
C108.064.R	6,4	7°	8	44
C108.080.R	8	9°	9,5	42
C108.095.R	9,5	9°	9,5	47
C108.127.R	12,7	14°	13	49
C108.150.R	15	12°	14,5	61
C108.160.R	16	7°	16	49
C108.190.R	19	14°	19	55
C108.191.R	19	7°	19	60

Dovetail bits sets in wooden case see page 1.29 and 1.33

HW DOVETAIL BITS Z=2

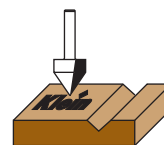
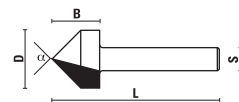
ART. A108 - B108 - C108



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	α	B	L
A108.143.R	B108.143.R	C108.143.R	14,3	13°	13,5	55

HW V-GROOVE AND SIGNMAKING BITS

ART. A109 - B109 - C109
A110 - B110 - C110



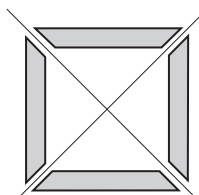
- Suitable for engravings and sign writing

S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	α	B	L	Z
A109.060.R ▲		C109.060.R	6	90°	8	45	2
A109.095.R	B109.095.R	C109.095.R	9,5	90°	11	45	2
A109.127.R	B109.127.R	C109.127.R	12,7	90°	13	45	2
A109.160.R	B109.160.R	C109.160.R	16	90°	13	45	2
A109.190.R		C109.190.R	19	90°	16	45	2
A109.254.R	B109.254.R	C109.254.R	25,4	90°	19	48	2
		① C109.380.R	38	90°	20	63	2

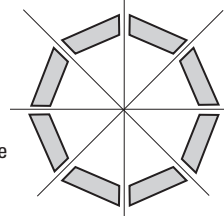
A110.127.R	B110.127.R	C110.127.R	12,7	60°	16	45	2
A110.140.R	B110.140.R	C110.140.R	14	60°	22	57	3
		② C110.190.R	19	45°	25	63	2

▲ Solid carbide

① - ② Items for working plasterboard panels



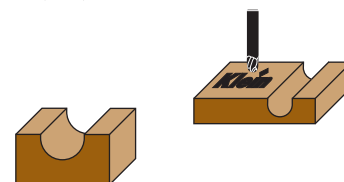
① Bit makes a 45° chamfer that can be used to build square share



② Bit makes a 22,5° chamfer that can be used to build a B-side box (to an octagonal)

VHW U-GROOVE AND SIGNMAKING BITS

ART. A111

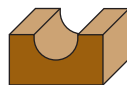
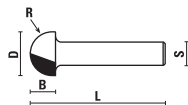


- Solid carbide
- Suitable for engravings and sign writing

S Ø 6	D	R	B	L	Z
A111.060.R	6	3	9	60	3

HW CORE BOX BITS Z=2

ART. A111 - B111 - C111

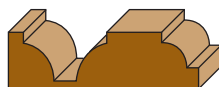
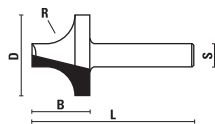


S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A111.032.R ▲	B111.032.R	C111.032.R	3,2	1,6	10	44
A111.048.R ▲	B111.048.R	C111.048.R	4,8	2,4	13	44
A111.064.R ▲	B111.064.R	C111.064.R	6,4	3,2	13	44
A111.080.R ▲	B111.080.R	C111.080.R	8	4	13	47
A111.095.R	B111.095.R	C111.095.R	9,5	4,8	7	38
A111.127.R	B111.127.R	C111.127.R	12,7	6,4	10	38
A111.160.R	B111.160.R	C111.160.R	16	8	11	40
A111.180.R	B111.180.R	C111.180.R	18	9	19	47
		C111.190.R	19	9,5	11	47
		C111.200.R NEW	20	10	19	47
		C111.220.R	22	11	14	45
		C111.254.R	25,4	12,7	17	47

▲ Solid carbide

HW PLUNGING ROUND-OVER BITS Z=2

ART. A112 - B112 - C112

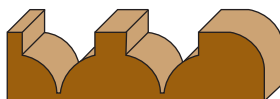


S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A112.140.R		C112.140.R	14	4	13	41
A112.160.R		C112.160.R	16	5	13	41
A112.180.R		C112.180.R	18	6	13	41
A112.190.R	B112.190.R	C112.190.R	19	6,4	13	41
A112.220.R	B112.220.R*	C112.220.R	22	8	14,5	43
A112.254.R	B112.254.R	C112.254.R	25,4	9,5	16	44
		C112.350.R	35	12,7	25,4	63

* Selling out

HW PLUNGING ROUND-OVER BITS Z=2

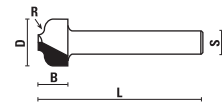
ART. C112



S Ø 8	D	R	B	L
C112.030.R	8	3	10	50
C112.040.R	10	4	10	50
C112.050.R	12	5	10	50

HW PLUNGE TYPE OGEE BITS Z=2

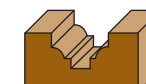
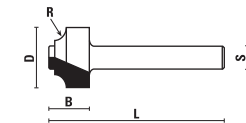
ART. A113 - B113 - C113



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A113.095.R		C113.095.R	9,5	1,6	8	51
A113.127.R	B113.127.R	C113.127.R	12,7	2	10	51
A113.190.R	B113.190.R	C113.190.R	19	3,5	13	54

HW PLUNGE TYPE TRADITIONAL BITS Z=2

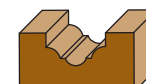
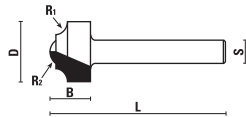
ART. A114 - B114 - C114



S Ø 6	S Ø 8	D	R	B	L
A114.127.R	C114.127.R	12,7	2	10	51
A114.190.R	C114.190.R	19	3,5	11	52

HW PLUNGE TYPE CLASSICAL BITS Z=2

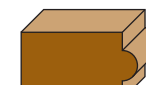
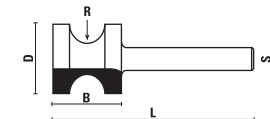
ART. A115 - B115 - C115



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R1	R2	B	L
A115.127.R	B115.127.R	C115.127.R	12,7	2,5	3,5	10	51
A115.190.R	B115.190.R	C115.190.R	19	3,7	4	13	54
		C115.254.R	25,4	5	6,4	17,5	73

HW BULL NOSE RADIUS BITS Z=2

ART. A116 - B116 - C116

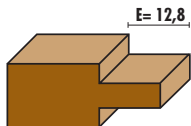
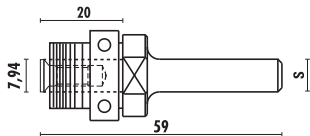


S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A116.135.R	B116.135.R	C116.135.R	13,5	2	13	41
A116.150.R	B116.150.R	C116.150.R	15	2,8	13	42
A116.167.R	B116.167.R	C116.167.R	16,7	3,6	19	48
A116.222.R	B116.222.R	C116.222.R	22,2	5,2	19	48
A116.260.R*		C116.260.R	26	6,8	25	54

* Selling out

SLOT CUTTER ARBORS

ART. A117 - B117 - C117 - E117 - G117



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	S Ø 12	S Ø 12,7 (1/2")
A117.280.R	B117.280.R	C117.280.R	E117.280.R	G117.280.R

With ball bearing



Z050.008.N



Z051.015.R



nr. 2 - Z057.002.N - 1 mm
nr. 2 - Z057.003.N - 0,5 mm
nr. 5 - Z057.004.N - 0,1 mm
nr. 2 - Z057.005.N - 3 mm

Change the ball bearing to get different cutting depths (see page 10.05)

A117.281.R	B117.281.R	C117.281.R	E117.281.R	G117.281.R
Without ball bearing				



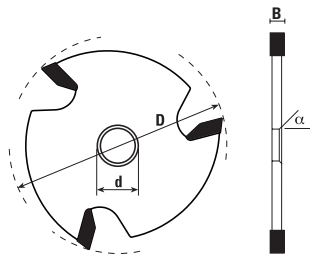
Z051.015.R



nr. 3 - Z057.002.N - 1 mm
nr. 2 - Z057.003.N - 0,5 mm
nr. 6 - Z057.004.N - 0,1 mm
nr. 2 - Z057.005.N - 3 mm
nr. 1 - Z057.006.N - 6 mm

HW SLOT CUTTERS SPECIAL FIXING SCREW Z=3

ART. C118

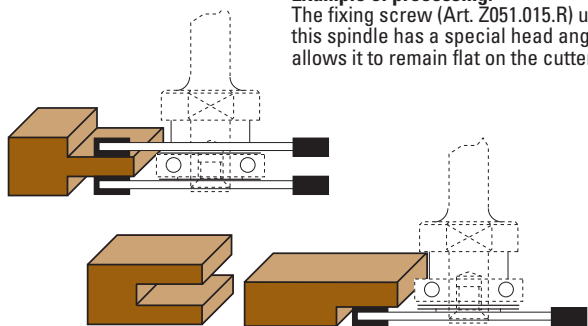


- To be used with slot cutter arbors
- $\alpha = 45^\circ$ bore



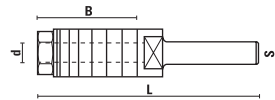
Item	d	D	B	Z
C118.830.R	7,94	47,6	3	3
C118.832.R	7,94	47,6	3,2	3
C118.840.R	7,94	47,6	4	3
C118.848.R	7,94	47,6	4,8	3
C118.850.R	7,94	47,6	5	3
C118.860.R	7,94	47,6	6	3
C118.864.R	7,94	47,6	6,4	3

Example of processing:
The fixing screw (Art. Z051.015.R) used on this spindle has a special head angle that allows it to remain flat on the cutter level.



SLOT CUTTER ARBORS

ART. A117 - B117 - C117 - E117 - G117



Used with cutters Art. A118 - C118, spacers Art. Z057 and ball bearing Art. Z050 (see section 10)

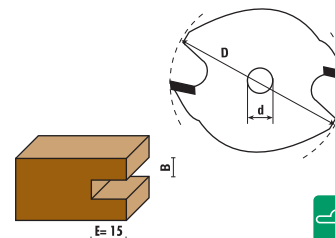


S Ø 6	S Ø 6,4 (1/4")	S Ø 8	d	B	L
A117.060.R	B117.060.R		6	17	52
A117.080.R	B117.080.R		7,94	34	67
		C117.060.R	6	17	57
		C117.079.R	7,94	34	70
		C117.080.N	7,94	53	96
		C117.081.N	7,94	66	108
		C117.082.N	7,94	38	80

S Ø 12	S Ø 12,7 (1/2")	d	B	L
E117.120.N	G117.120.R	7,94	53	96
E117.121.N	G117.121.R	7,94	66	108
E117.122.N	G117.122.R	7,94	38	80
E117.123.N	G117.123.R	7,94	34	76

HW SLOT CUTTERS Z=2

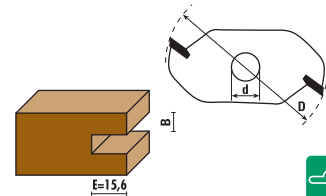
ART. A118



Bore Ø 6	d	D	B	Z
A118.015.R	6	40	1,5	2
A118.018.R	6	40	1,8	2
A118.020.R	6	40	2	2
A118.025.R	6	40	2,5	2
A118.030.R	6	40	3	2
A118.035.R	6	40	3,5	2
A118.040.R	6	40	4	2
A118.050.R	6	40	5	2
A118.060.R	6	40	6	2

HW SLOT CUTTERS Z=2

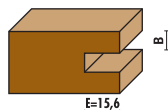
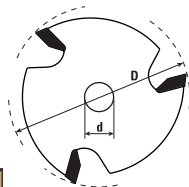
ART. C118



Item	d	D	B	Z
C118.216.R	7,94	47,6	1,6	2
C118.220.R	7,94	47,6	2	2
C118.224.R	7,94	47,6	2,4	2
C118.230.R	7,94	47,6	3	2
C118.232.R	7,94	47,6	3,2	2
C118.240.R	7,94	47,6	4	2
C118.248.R	7,94	47,6	4,8	2
C118.250.R	7,94	47,6	5	2
C118.260.R	7,94	47,6	6	2
C118.264.R	7,94	47,6	6,4	2

HW SLOT CUTTERS Z=3

ART. C118



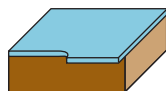
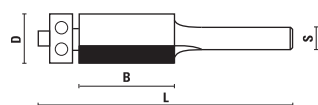
Item	d	D	B	Z
C118.316.R	7,94	47,6	1,6	3
C118.320.R	7,94	47,6	2	3
C118.324.R	7,94	47,6	2,4	3
C118.330.R	7,94	47,6	3	3
C118.332.R	7,94	47,6	3,2	3
C118.340.R	7,94	47,6	4	3
C118.348.R	7,94	47,6	4,8	3
C118.350.R	7,94	47,6	5	3
C118.360.R	7,94	47,6	6	3
C118.364.R	7,94	47,6	6,4	3



To be used with **SLOT CUTTER ARBORS**
ART. A117 - B117 - C117 - E117 - G117

HW TRIMMING BITS WITH BALL BEARING Z=2

ART. A119 - B119 - C119

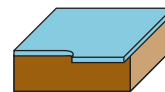
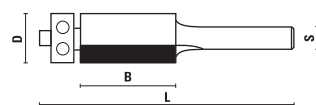


Ideal for working laminated panels

S Ø 6	S Ø 6,4 (1/4")	D	B	L	
A119.064.R	B119.064.R	6,4	13	53	
Z050.017.N	Z051.006.N				
S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	B	L
A119.095.R	B119.095.R	C119.095.R	9,5	13	54
Z050.002.N	Z053.002.N	Z054.002.N			Z051.002.R
S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	B	L
A119.127.R	B119.127.R	C119.127.R	12,7	13	60
Z050.003.N	Z053.002.N	Z054.002.N			Z051.002.R

HW TRIMMING BITS WITH BALL BEARING Z=2

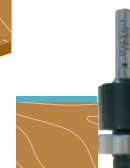
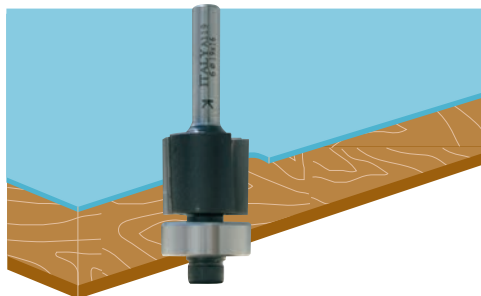
ART. A119 - B119 - C119



- Ideal for working laminated panels
- **Shear angle cutting edge**

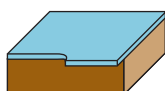
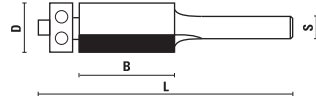
S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	B	L
A119.160.R	B119.160.R	C119.160.R	16	16	56
Z050.004.N	Z053.004.N	Z054.002.N			Z051.002.R

S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	B	L
A119.190.R	B119.190.R	C119.190.R	19	16	60
A119.191.R	B119.191.R	C119.191.R	19	25	72
Z050.005.N	Z053.002.N	Z051.004.R			



HW TRIMMING BITS WITH BALL BEARING Z=2

ART. A120 - B120 - C120

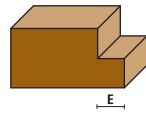
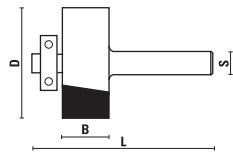


Ideal for working laminated panels

S Ø 6	S Ø 6,4 (1/4")	D	B	L	
A120.064.R	B120.064.R	6,4	25	67	
Z050.017.N	Z051.006.N				
S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	B	L
A120.095.R	B120.095.R	C120.095.R	9,5	25	67
Z050.002.N	Z053.002.N	Z054.002.N			Z051.002.R
S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	B	L
A120.127.R	B120.127.R	C120.127.R	12,7	25	67
Z050.003.N	Z053.003.N	Z054.002.N			Z051.002.R

HW RABBETING BITS WITH BALL BEARING Z=2

ART. A121 - B121 - C121



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	B	E	L
A121.240.R	B121.240.R	C121.240.R	24	13	4	54



Z050.011.N



Z054.003.N



Z051.004.N

S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	B	E	L
A121.317.R	B121.317.R	C121.317.R	31,7	13	9,5	51
A121.350.R	B121.350.R	C121.350.R	35	13	11	51



Z050.003.N



Z053.003.N



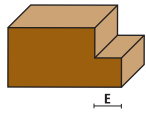
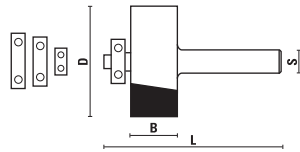
Z054.002.N



Z051.002.R

HW RABBETING BITS WITH BALL BEARING Z=2

ART. A121 - B121 - C121



Supplied with nr. 4 ball bearings in order to obtain E= 8 - 9,5 - 11 - 12,7

S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	B	E	L
A121.850.R	B121.850.R	C121.850.R	35	13	8/9,5/11/12,7	51



E=8 Z050.023.N



E=9,5 Z050.022.N



E=11 Z050.003.N



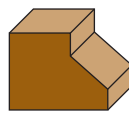
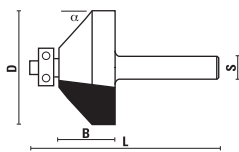
E=12,7 Z050.002.N



Z051.002.R

HW BEVEL TRIM BITS WITH BALL BEARING Z=2

ART. A122 - B122



S Ø 6	S Ø 6,4 (1/4")	D	α	B	L
A122.350.R	B122.350.R	35	45°	18	57



Z050.003.N



Z053.003.N



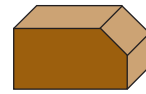
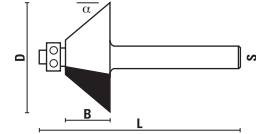
Z054.002.N



Z051.002.R

HW BEVEL TRIM BITS WITH BALL BEARING GUIDE

ART. A122 - B122 - C122



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	α	B	L	Z
A122.010.R	B122.010.R	C122.010.R	17,5	10°	10	49	3
A122.015.R	B122.015.R	C122.015.R	19	15°	10	49	3
A122.025.R	B122.025.R	C122.025.R	22	25°	10	49	3
A122.045.R	B122.045.R	C122.045.R	30	45°	10	49	3



Z050.004.N



Z053.004.N



Z054.002.N



Z051.002.R

S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	α	B	L	Z
A122.130.R	B122.130.R	C122.130.R	13	15°	12,7	46	2
A122.190.R	B122.190.R	C122.190.R	19	25°	12,7	46	2
A122.317.R	B122.317.R	C122.317.R	31,7	45°	13	51	2



Z050.001.N



Z053.001.N



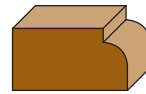
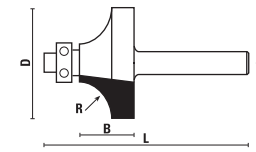
Z054.001.N



Z051.001.R

HW CORNER ROUNDING BITS WITH BALL BEARING Z=2

ART. A123 - B123 - C123



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A123.160.R	B123.160.R	C123.160.R	16	1,6	8	46
A123.167.R		C123.167.R	16,7	2	8	47
A123.187.R		C123.187.R	18,7	3	9,5	49
A123.190.R	B123.190.R	C123.190.R	19	3,2	10	48
A123.207.R	B123.207.R	C123.207.R	20,7	4	10	49
A123.222.R	B123.222.R	C123.222.R	22,2	4,8	13	51
A123.227.R		C123.227.R	22,7	5	12	51
A123.247.R		C123.247.R	24,7	6	12	51
A123.254.R	B123.254.R	C123.254.R	25,4	6,4	13	51
A123.286.R	B123.286.R	C123.286.R	28,6	8	13	51
A123.318.R	B123.318.R	C123.318.R	31,8	9,5	16	56
A123.327.R		C123.327.R	32,7	10	16	55
A123.354.R	B123.354.R	C123.354.R	35,4	11	17	57
A123.367.R		C123.367.R	36,7	12	20	57
A123.380.R	B123.380.R	C123.380.R	38	12,7	19	57



Z050.003.N



Z053.003.N



Z054.002.N

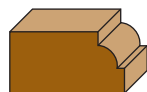
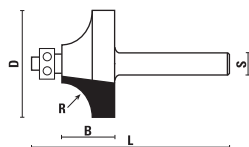


Z051.002.R

Corner rounding bits sets in wooden case see page 1.34

HW BEADING BITS WITH BALL BEARING GUIDE Z=2

ART. A124 - B124 - C124



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A124.160.R	B124.160.R	C124.160.R	16	1,6	8	46
A124.167.R		C124.167.R	16,7	2	8	47
A124.187.R		C124.187.R	18,7	3	9,5	49
A124.190.R	B124.190.R	C124.190.R	19	3,2	10	48
A124.207.R	B124.207.R	C124.207.R	20,7	4	10	49
A124.222.R	B124.222.R	C124.222.R	22,2	4,8	13	51
A124.227.R		C124.227.R	22,7	5	12	51
A124.247.R		C124.247.R	24,7	6	12	51
A124.254.R	B124.254.R	C124.254.R	25,4	6,4	13	51
A124.286.R	B124.286.R	C124.286.R	28,6	8	13	51
A124.318.R	B124.318.R	C124.318.R	31,8	9,5	16	56
A124.327.R		C124.327.R	32,7	10	16	55
A124.367.R		C124.367.R	36,7	12	20	57
A124.380.R	B124.380.R	C124.380.R	38	12,7	19	57



Z050.002.N



Z053.002.N



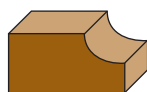
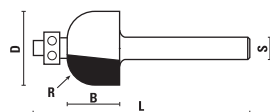
Z054.002.N



Z051.002.R

HW COVE BITS WITH BALL BEARING GUIDE Z=2

ART. A125 - B125 - C125



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A125.160.R	B125.160.R	C125.160.R	16	3,2	13	51
A125.190.R	B125.190.R	C125.190.R	19	4,8	14	51
A125.222.R	B125.222.R	C125.222.R	22,2	6,4	14	51
A125.254.R	B125.254.R	C125.254.R	25,4	8	14	51
A125.286.R	B125.286.R	C125.286.R	28,6	9,5	14	51
A125.350.R	B125.350.R	C125.350.R	35	12,7	16	54



Z050.001.N



Z053.001.N



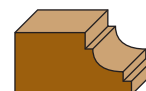
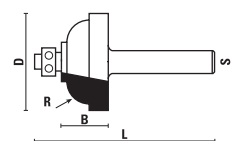
Z054.001.N



Z051.001.R

HW DOUBLE FILLET COVE BITS WITH BALL BEARING GUIDE Z=2

ART. A126 - B126 - C126



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A126.286.R	B126.286.R	C126.286.R	28,6	4,8	13	51
A126.350.R	B126.350.R	C126.350.R	35	8	16	54



Z050.003.N



Z053.003.N



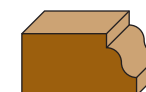
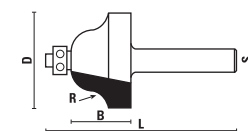
Z054.002.N



Z051.002.R

HW ROMAN OGEE BITS WITH BALL BEARING GUIDE Z=2

ART. A127 - B127 - C127



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A127.254.R	B127.254.R	C127.254.R	25,4	4	16	54
A127.350.R	B127.350.R	C127.350.R	35	6,4	20	57



Z050.001.N



Z053.001.N



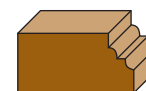
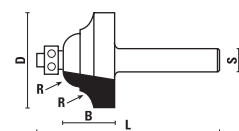
Z054.001.N



Z051.001.R

HW DOUBLE ROMAN OGEE BITS Z=2

ART. A128 - B128 - C128



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A128.254.R	B128.254.R	C128.254.R	25,4	4	16	53
A128.350.R	B128.350.R	C128.350.R	35	6,4	20	57



Z050.001.N



Z053.001.N



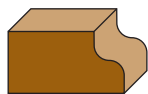
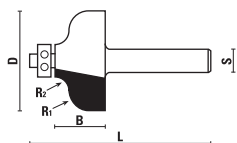
Z054.001.N



Z051.001.R

HW OGEE BITS WITH BALL BEARING GUIDE Z=2

ART. A129 - B129 - C129



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R1	R2	B	L
A129.286.R	B129.286.R	C129.286.R	28,6	4,5	4	13	51
A129.350.R	B129.350.R	C129.350.R	35	6	5	18	55



Z050.003.N



Z053.003.N



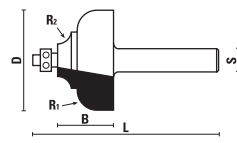
Z054.002.N



Z051.002.R

HW OGEE BITS WITH BALL BEARING GUIDE Z=2

ART. A132 - B132 - C132



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R1	R2	B	L
A132.286.R	B132.286.R	C132.286.R	28,6	4	4	13	51
A132.350.R	B132.350.R	C132.350.R	35	6,4	4,8	18	56



Z050.002.N



Z053.002.N



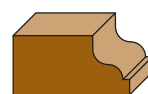
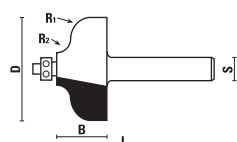
Z054.002.N



Z051.002.R

HW OGEE BITS WITH BALL BEARING GUIDE Z=2

ART. A130 - B130 - C130



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R1	R2	B	L
A130.286.R	B130.286.R	C130.286.R	28,6	4,5	4	13	51
A130.350.R	B130.350.R	C130.350.R	35	6	5	18	55



Z050.002.N



Z053.002.N



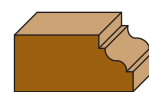
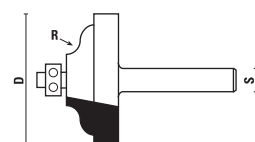
Z054.002.N



Z051.002.R

HW OGEE BITS WITH BALL BEARING GUIDE Z=2

ART. A133 - B133 - C133



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A133.350.R	B133.350.R	C133.350.R	35	4	14	52



Z050.002.N



Z053.002.N



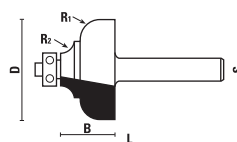
Z054.002.N



Z051.002.R

HW OGEE BITS WITH BALL BEARING GUIDE Z=2

ART. A131 - B131 - C131



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R1	R2	B	L
A131.286.R	B131.286.R	C131.286.R	28,6	4	4	13	51
A131.350.R	B131.350.R	C131.350.R	35	6,4	4,8	18	56



Z050.003.N



Z053.003.N



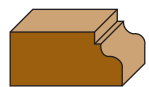
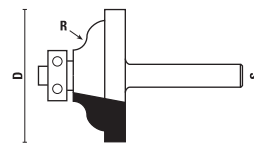
Z054.002.N



Z051.002.R

HW OGEE BITS WITH BALL BEARING GUIDE Z=2

ART. A134 - B134 - C134



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A134.350.R	B134.350.R	C134.350.R	35	4	14	52



Z050.003.N



Z053.003.N



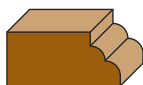
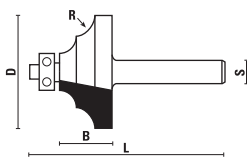
Z054.002.N



Z051.002.R

HW CLASSICAL MOULDING BITS WITH BALL BEARING GUIDE Z=2

ART. A135 - B135 - C135



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A135.286.R	B135.286.R	C135.286.R	28,6	4	13	51
A135.350.R	B135.350.R	C135.350.R	35	5,5	18	60



Z050.003.N



Z053.003.N



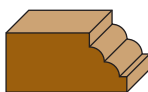
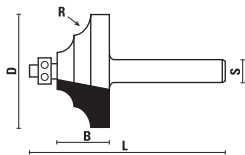
Z054.002.N



Z051.002.R

HW CLASSICAL MOULDING BITS WITH BALL BEARING GUIDE Z=2

ART. A136 - B136 - C136



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A136.286.R	B136.286.R	C136.286.R	28,6	4	13	51
A136.350.R	B136.350.R	C136.350.R	35	5,5	18	60



Z050.002.N



Z053.002.N



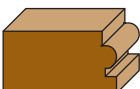
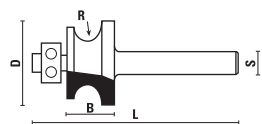
Z054.002.N



Z051.002.R

HW CORNER BEADING BITS WITH BALL BEARING GUIDE Z=2

ART. A137 - B137 - C137



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A137.220.R	B137.220.R	C137.220.R	22	3,2	14	54



Z050.003.N



Z053.003.N



Z054.002.N



Z051.002.R

S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A137.280.R	B137.280.R	C137.280.R	28	4,8	16	57
A137.320.R	B137.320.R	C137.320.R	32	6,4	19	58



Z050.004.N



Z053.004.N



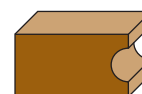
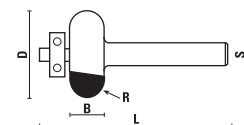
Z054.002.N



Z051.002.R

HW EDGE-FLUTING BITS WITH BALL BEARING GUIDE Z=2

ART. A138 - B138



S Ø 6	S Ø 6,4 (1/4")	D	R	B	L
A138.210.R	B138.210.R	21	4	8	47
A138.230.R	B138.230.R	23	5	10	49
A138.250.R	B138.250.R	25	6	12	51



Z050.003.N



Z053.003.N



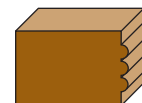
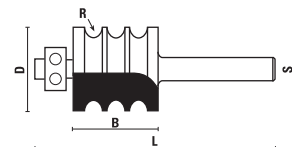
Z054.002.N



Z051.002.R

HW MULTI-BEADING BITS WITH BALL BEARING GUIDE Z=2

ART. A139 - B139



S Ø 6	S Ø 6,4 (1/4")	D	R	B	L
A139.220.R*	B139.220.R*	22	3	25	65

* Selling out



Z050.004.N



Z053.004.N



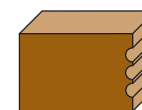
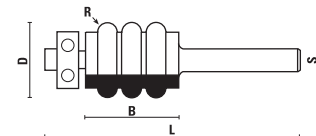
Z054.002.N



Z051.002.R

HW MULTI-BEADING BITS WITH BALL BEARING GUIDE Z=2

ART. A140



S Ø 6	D	R	B	L
A140.220.R*	22	3	25	64

* Selling out



Z050.004.N



Z053.004.N



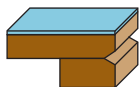
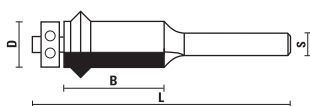
Z054.002.N



Z051.002.R

HW FLUSH-TRIM "V" GROOVE BITS WITH BALL BEARING GUIDE Z=2

ART. A141 - B141



- Ideal for working laminated and melamine panels
- V-decor along the joints of the two wood pieces



S Ø 6	S Ø 6,4 (1/4")	D	B	L
A141.127.R	B141.127.R	12,7	25,4	67



Z050.003.N



Z053.003.N



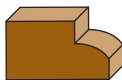
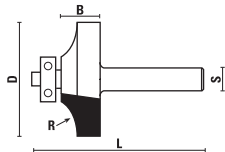
Z054.002.N



Z051.002.R

HW FLAT ROUNDING OVER BITS WITH BALL BEARING GUIDE Z=2

ART. A142 - B142



S Ø 6	S Ø 6,4 (1/4")	D	R	B	L
A142.300.R	B142.300.R	30	12	10	48



Z050.003.N



Z053.003.N



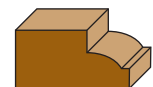
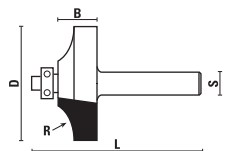
Z054.002.N



Z051.002.R

HW FLAT ROUNDING OVER BITS WITH BALL BEARING GUIDE Z=2

ART. A143 - B143



S Ø 6	S Ø 6,4 (1/4")	D	R	B	L
A143.300.R	B143.300.R	30	12	10	48



Z050.002.N



Z053.002.N



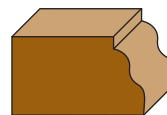
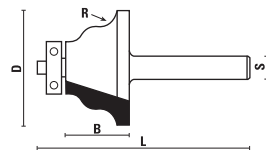
Z054.002.N



Z051.002.R

HW PROFILE BITS WITH BALL BEARING GUIDE

ART. A144 - B144



S Ø 6	S Ø 6,4 (1/4")	D	R	B	L
A144.318.R	B144.318.R	31,8	4	17,5	57



Z050.003.N



Z053.003.N



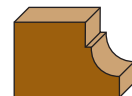
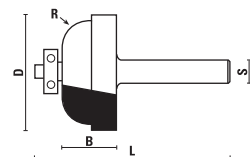
Z054.002.N



Z051.002.R

HW FLAT OGEE BITS WITH BALL BEARING GUIDE Z=2

ART. A145 - C145



S Ø 6	S Ø 8	D	R	B	L
A145.286.R*	C145.286.R	28,6	4,8	13	51
A145.350.R*	C145.350.R	35	8	16	55

* Selling out



Z050.003.N



Z053.003.N



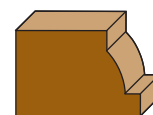
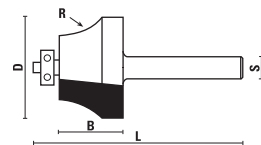
Z054.002.N



Z051.002.R

HW OVOLO JOINT BITS WITH BALL BEARING GUIDE Z=2

ART. A146 - C146



This tool can be used in combination with Art. A175 - B175 - C175

S Ø 6	S Ø 8	D	R	B	L
A146.270.R	C146.270.R*	27	17	17	57
A146.335.R*	C146.335.R*	33,5	9	15	57

* Selling out



Z050.002.N



Z053.002.N



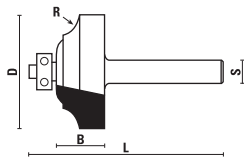
Z054.002.N



Z051.002.R

HW OGEE BITS WITH BALL BEARING GUIDE Z=2

ART. A147 - B147 - C147



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A147.318.R*		C147.318.R*	31,8	5	13	51
A147.380.R	B147.380.R	C147.380.R*	38	6	16	54

* Selling out



Z050.003.N



Z053.003.N



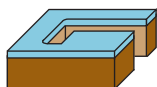
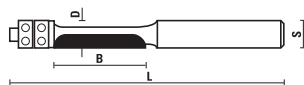
Z054.002.N



Z051.002.R

HW PANEL PILOT BITS WITH BALL BEARING GUIDE Z=1

ART. A150 - C150



Ideal for working laminated panels

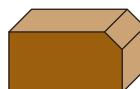
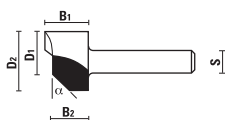
S Ø 6	S Ø 8	D	B	L
A150.064.R	C150.064.R	6,4	19	57



Z050.017.N

HW FLUSH AND BEVEL TRIM BITS Z=2

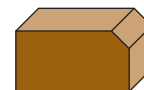
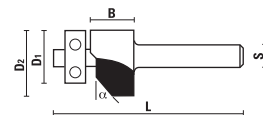
ART. A151 - C151



S Ø 6	S Ø 8	D1	D2	B1	B2	α
A151.200.R	C151.200.R	20	24	15	11	0°/45°

HW FLUSH AND BEVEL TRIM BITS WITH BALL BEARING GUIDE Z=2

ART. A152 - C152



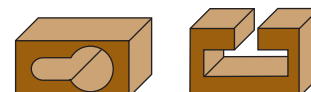
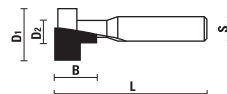
S Ø 6	S Ø 8	D1	D2	B	L	α
A152.190.R	C152.190.R	19	26	15	53	0°/45°



Z050.006.N

HW KEYHOLE BITS Z=1

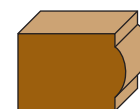
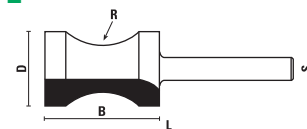
ART. A153 - B153 - C153



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D1	D2	B	L
A153.098.R	B153.098.R	C153.098.R	9,8	5	9,8	38,1
A153.127.R	B153.127.R	C153.127.R	12,7	8	9,8	38,1

HW CONVEX EDGING BITS Z=2

ART. A154 - C154

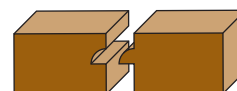
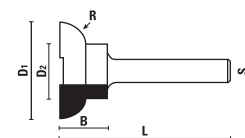


S Ø 6	S Ø 8	D	R	B	L
A154.202.R*	C154.202.R	20,2	18	32	62,6

* Selling out

HW FINGER GRIP BITS Z=2

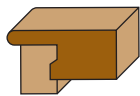
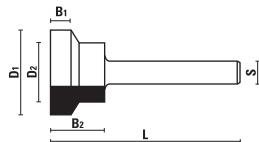
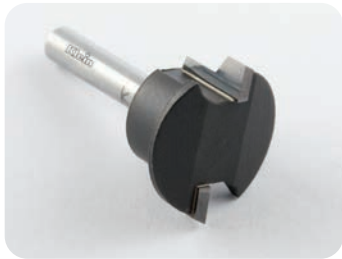
ART. A155



S Ø 6	D1	D2	R	B	L
A155.280.R	28	15	6,4	13	41

HW DRAWER LOCK BITS Z=2

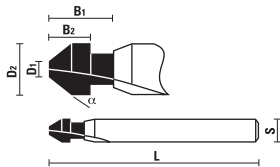
ART. A156



S Ø 6	D1	D2	B1	B2	L
A156.254.R	25,4	18,5	4	13	49

HW SEAL PROFILE BITS Z=2

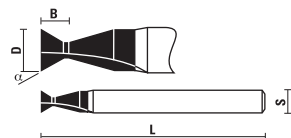
ART. A157 - B157



S Ø 6	S Ø 6,4 (1/4")	D1	D2	α	B1	B2	L
A157.055.R	B157.055.R	2	5,5	38°	8	4	65

HW DOVETAIL SEAL BITS Z=2

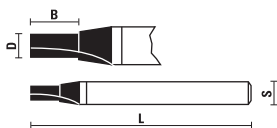
ART. A158 - B158



S Ø 6	S Ø 6,4 (1/4")	D	α	B	L
A158.051.R	B158.051.R	5,1	25°	4	60

HW SEAL BITS Z=2

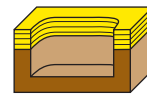
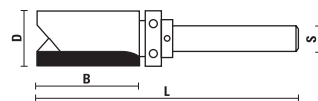
ART. A159 - B159



S Ø 6	S Ø 6,4 (1/4")	D	B	L
A159.030.R	B159.030.R	3	8	55

HW FLUSH TRIM BITS WITH UPPER BALL BEARING GUIDE Z=2

ART. A160 - B160



- Suitable for trimming and milling on every type of wood

S Ø 6	S Ø 6,4 (1/4")	D	B	L
A160.125.R NEW	B160.125.R NEW	12,7	13	55
A160.126.R NEW	B160.126.R NEW	12,7	19	55
A160.127.R	B160.127.R	12,7	25,4	63
A160.128.R	B160.128.R	12,7	32	69



Z050.007.N



Z058.001.N



Z052.005.N



Z051.005.R

S Ø 6	S Ø 6,4 (1/4")	D	B	L
A160.160.R	B160.160.R 16	25,4	63	



Z050.011.N



Z058.001.N



Z052.005.N



Z051.005.R

S Ø 8	D	B	L
C160.161.R NEW	16	32	69



Z050.018.N



Z058.004.N



Z052.005.N



Z051.005.R

S Ø 6	S Ø 6,4 (1/4")	D	B	L
A160.190.R	B160.190.R	19	25,4	63



Z050.005.N



Z058.001.N



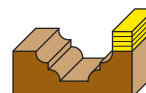
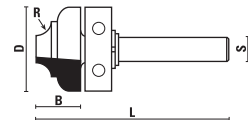
Z052.005.N



Z051.005.R

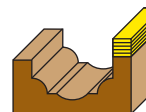
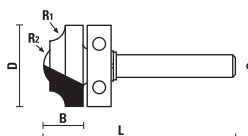
HW FLUSH TRIM BITS WITH UPPER BALL BEARING GUIDE Z=2

ART. A161 - B161



S Ø 6	S Ø 6,4 (1/4")	D	R	B	L
A161.220.R	B161.220.R	22	3,5	11	51

ART. A162 - B162



S Ø 6	S Ø 6,4 (1/4")	D	R1	R2	B	L
A162.220.R	B162.220.R	22	4	5,5	12	51



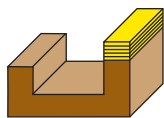
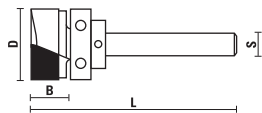
Z050.008.N



DIN 471-15

HW FLUSH TRIM BITS WITH UPPER BALL BEARING GUIDE Z=2

ART. A163 - B163

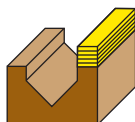
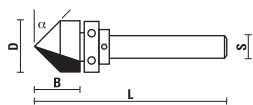


If shank Ø8 mm is needed, use bushings Art. Z001 see page 10.03

S Ø 6	S Ø 6,4 (1/4")	D	B	L
A163.190.R	B163.190.R	19	11	56
Z050.005.N	Z058.001.N	Z051.005.R		

HW GROOVE BITS WITH UPPER BALL BEARING GUIDE Z=2

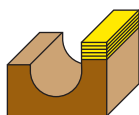
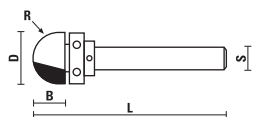
ART. A164 - B164



S Ø 6	S Ø 6,4 (1/4")	D	α	B	L
A164.127.R	B164.127.R	12,7	45°	13	51
Z050.007.N	Z058.001.N	Z052.005.N	Z051.005.R		

HW CORE BOX BITS WITH UPPER BALL BEARING GUIDE Z=2

ART. A165 - B165 - C165



Suitable for cutting round-bottom groove that can be both decorative and functional on every type of wood.

S Ø 6	S Ø 6,4 (1/4")	D	R	B	L
A165.127.R	B165.127.R	12,7	6,4	9,5	51
Z050.007.N	Z058.001.N	Z051.005.R			

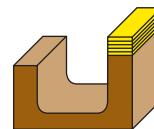
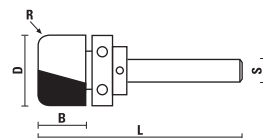
S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A165.160.R NEW	B165.160.R NEW	C165.160.R NEW	16	8	11	54
Z050.018.N	Z058.004.N	Z051.005.R				

S Ø 6	S Ø 6,4 (1/4")	D	R	B	L
A165.190.R NEW	B165.190.R NEW	19	9,5	11	54
Z050.006.N	Z058.005.N	Z051.005.R			

S Ø 8	D	R	B	L
C165.190.R NEW	19	9,5	11	54
Z050.026.N	Z058.006.N	Z051.005.R		

HW BOWL AND TRAY BITS WITH UPPER BALL BEARING GUIDE Z=2

ART. A166 - B166 - C166



Suitable for making custom bowls, boxes, plates in any shape you can cut template for.

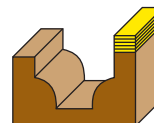
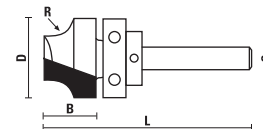
S Ø 6	S Ø 6,4 (1/4")	D	R	B	L
A166.127.R	B166.127.R	12,7	3,2	13	54
Z050.007.N	Z058.001.N	Z051.005.R			

S Ø 6	S Ø 6,4 (1/4")	D	R	B	L
A166.190.R	B166.190.R	19	6,4	16	59
Z050.005.N	Z058.001.N	Z051.005.R			

S Ø 8	D	R	B	L
C166.190.R NEW	19	6,4	16	67
Z050.026.N	Z058.006.N	Z051.005.R		

HW FLUSH TRIM BITS WITH UPPER BALL BEARING GUIDE Z=2

ART. A167 - B167



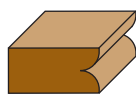
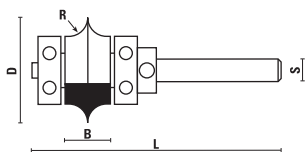
S Ø 6	S Ø 6,4 (1/4")	D	R	B	L
A167.127.R	B167.127.R	12,7	3	9,5	48
Z050.007.N	Z058.001.N	Z051.005.R			

S Ø 6	S Ø 6,4 (1/4")	D	R	B	L
A167.220.R	B167.220.R	22	5	12	55
Z050.008.N	Z058.001.N	Z051.005.R			

S Ø 6	D	R	B	L
A167.286.R	28,6	8	15	58
Z050.015.N	Z058.003.N	Z051.005.R		

HW "LEAF-EDGE" BEADING BITS WITH DOUBLE BALL BEARING GUIDE Z=2

ART. A168 - B168



S Ø 6	S Ø 6,4 (1/4")	D	R	B	L
A168.254.R	B168.254.R	25,4	4,8	13	66



Z050.011.N



Z058.001.N



Z053.002.N



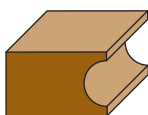
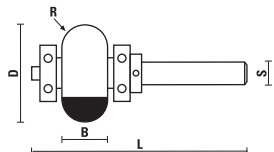
Z051.004.R



Z051.005.R

HW "EDGE-FLUTING" BITS WITH DOUBLE BALL BEARING GUIDE Z=2

ART. A169 - B169



S Ø 6	S Ø 6,4 (1/4")	D	R	B	L
A169.230.R	B169.230.R	23	5	10	61



Z050.007.N superiore



Z058.001.N



Z051.005.R



Z050.003.N inferiore



Z053.003.N



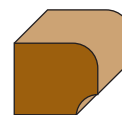
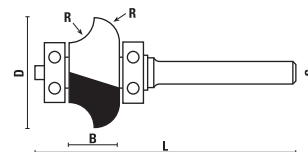
Z054.002.R



Z051.002.R

HW RADIUS BITS WITH DOUBLE BALL BEARING GUIDE Z=2

ART. A170 - C170



Patent

S Ø 6	S Ø 8	D	R	B	L
A170.285.R*	C170.285.R*	28,5	6,4	14	66
A170.320.R*	C170.320.R*	32	8	17	69
A170.350.R*	C170.350.R*	35	9,5	20	72

* Selling out



Z050.018.N



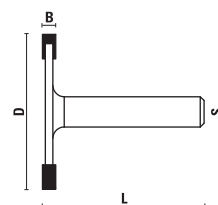
Z058.001.N



Z051.005.R

T-SLOT HW CUTTERS Z=4

ART. C173

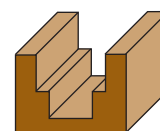
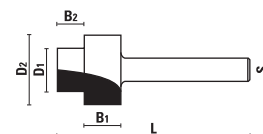


Four wings slot cutters for working plastic material

S Ø 8	D	B	L
C173.020.R NEW	41	2	43
C173.025.R NEW	41	2,5	43
C173.030.R NEW	41	3	44
C173.035.R NEW	41	3,5	44
C173.040.R NEW	41	4	45
C173.045.R NEW	41	4,5	45
C173.050.R NEW	41	5	46

HW DOUBLE DIAMETER BITS Z=2

ART. A180 - B180



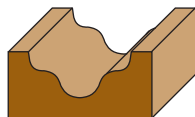
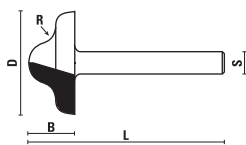
S Ø 6	S Ø 6,4 (1/4")	D1	D2	B1	B2	L
A180.127.R	B180.127.R	12,7	19	9,5	6,4	51



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HW DOUBLE RADIUS BITS Z=2

ART. A181 - C181

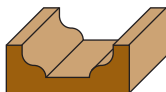
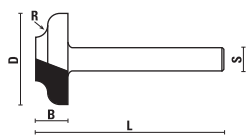


S Ø 6	S Ø 8	D	R	B	L
A181.270.R*	C181.270.R	27	6	12	52

* Selling out

HW DOUBLE RADIUS BITS Z=2

ART. A182 - C182

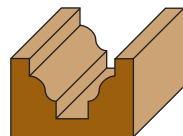
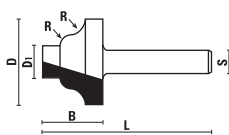


S Ø 6	S Ø 8	D	R	B	L
A182.254.R*	C182.254.R	25,4	3,2	9,5	50

* Selling out

HW DOUBLE RADIUS BITS Z=2

ART. A185

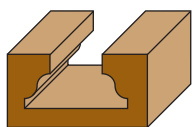
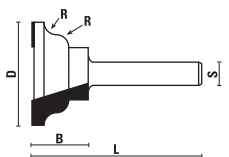


S Ø 6	D	D ₁	R	B	L
A185.210.R*	21	8	3,2	13	42
A185.250.R*	25	8	4	17	45

* Selling out

HW DOUBLE RADIUS BITS Z=2

ART. A186 - B186

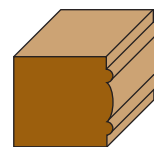
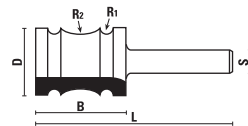


S Ø 6	S Ø 6,4 (1/4")	D	D ₁	R	B	L
A186.250.R	B186.250.R	25	12	3,2	13	42
A186.290.R*		29	12	4	17	45

* Selling out

HW MULTI RADIUS BITS Z=2

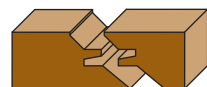
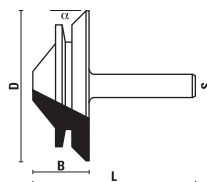
ART. A191



S Ø 6	D	R ₁	R ₂	B	L
A191.190.R	19	2	6	25	55

HW 45 DEGREE LOCK MITRE JOINT BITS Z=2

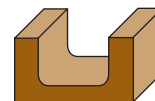
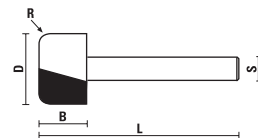
ART. A195 - B195



S Ø 6	S Ø 6,4 (1/4")	D	α	B	L
A195.420.R	B195.420.R	42	45°	16	45

HW BOWL AND TRAY BITS Z=2

ART. A196 - B196 - C196



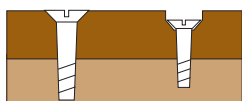
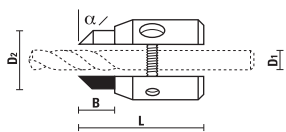
Suitable for cutting hollows into bowls, boxes, plates, serving trays and spoon

S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
		C196.110.R NEW	11	3	12,7	54
A196.190.R NEW	B196.190.R NEW	C196.190.R NEW	19	6,4	16	60



HW ADJUSTABLE COUNTERSINKS Z=2

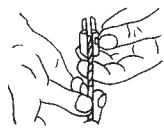
ART. A199



- Spare key supplied; single packed
- On request display free of charge by min order 10 pcs.



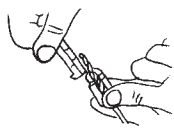
Item	D1	D2	α	B	L
A199.030.R	3/7	11/15	45°	12	32
A199.060.R NEW	6/10	15,5/19,5	45°	12	34



Insert the tool



Adjust the boring depth



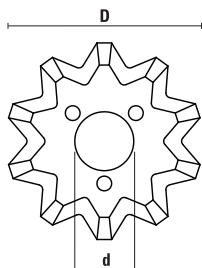
Line up the cutting edges of countersink and tool



Tighten the screws

HS FLUSH TRIMMERS FOR TABLE EDGE BANDING MACHINES

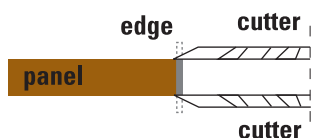
ART. AG



To be used on "VITAP" machines

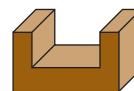
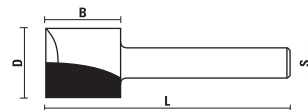


Item	D	d	B	Z
AG040.01012	40	12	1,1	10



HW PLUNGE TYPE STRAIGHT BITS FOR "ELU" Z=2+1

ART. C190



Straight cut plunging

S Ø 8	D	B	L	Z
C190.030.R ▲	3	10	55	2+1
C190.040.R ▲	4	12	55	2+1
C190.050.R ▲	5	14	55	2+1
C190.060.R ▲	6	16	55	2+1
C190.070.R ▲	7	18	55	2+1
C190.080.R ▲	8	20	55	2+1
C190.081.R ▲	8	40	90	2+1
C190.090.R ▲	9	20	55	2+1
C190.100.R ▲	10	20	55	2+1
C190.101.R	10	30	70	2+1
C190.102.R	10	40	90	2+1
C190.120.R	12	20	60	2+1
C190.121.R	12	20	100	2+1
C190.122.R	12	30	70	2+1
C190.123.R	12	40	90	2+1
C190.140.R	14	20	60	2+1
C190.141.R	14	20	100	2+1
C190.142.R	14	40	90	2+1
C190.150.R	15	20	70	2+1
C190.160.R	16	20	70	2+1
C190.161.R	16	20	100	2+1
C190.162.R	16	40	90	2+1
C190.163.R	16	30	70	2+1
C190.180.R	18	20	70	2+1
C190.181.R	18	30	70	2+1
C190.182.R	18	40	90	2+1
C190.200.R	20	20	70	2+1
C190.201.R	20	20	100	2+1
C190.202.R	20	30	70	2+1
C190.203.R	20	40	90	2+1
C190.220.R	22	16	70	2+1
C190.221.R	22	20	100	2+1
C190.222.R	22	30	70	2+1
C190.223.R	22	40	90	2+1
C190.240.R	24	16	70	2+1
C190.241.R	24	30	70	2+1
C190.250.R	25	16	70	2+1

▲ Solid Carbide

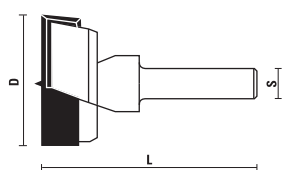
visit our website

www.sistemiklein.com



HW BORING BITS

ART. C192



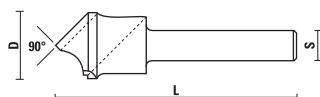
Without spurs



RH rotation	D	L	S
C192.250.R	25	57	8
C192.260.R	26	57	8
C192.300.R	30	57	8
C192.350.R	35	57	8

HS COUNTERSINKS

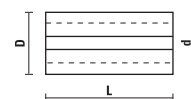
ART. C240



S Ø 8x30	D	L
C240.160.R	16	55

BUSHINGS

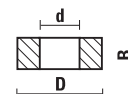
ART. Z001



Item	D	d	L
Z001.001.N	8	6	25
Z001.002.N	9,5	6	25
Z001.003.N	9,5	8	25
Z001.004.N	10	8	25
Z001.005.N	12	8	25
Z001.006.N	12	6	25
Z001.009.N	8	6,4	25
Z001.011.N	10	6	25
Z001.017.N	9,5	6,4	25
Z001.019.N	12,7	8	25
Z001.020.N	12,7	6,4	25

SPACERS

ART. Z057



Item	D	d	B
Z057.001.N	16	7,94	3,6
Z057.002.N	16	7,94	1
Z057.003.N	16	7,94	0,5
Z057.004.N	16	7,94	0,1
Z057.005.N	16	7,94	3
Z057.006.N	16	7,94	6
Z057.007.N	16	7,94	0,4
Z057.008.N	16	7,94	0,05
Z057.009.N	16	7,94	5,3
Z057.010.N	9,5	6,4	2,2
Z057.101.N	10	6	1
Z057.102.N	10	6	1,5
Z057.103.N	10	6	3

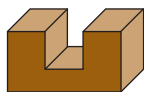
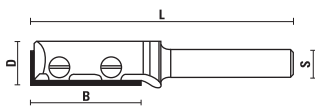
INSERT ROUTER BITS FOR PORTABLE ROUTERS

Always looking for innovative products and most useful solutions, **SISTEMI** has developed a new line of **Klein** router bits with interchangeable carbide knives, which have a higher hardness than the tips used in traditional brazed router bits.

- The main advantages granted by the use of HW reversible knives and the possibility of their easy replacement are:
- **Longer tool life** ⇒ the knives are getting less worn out and in case of damage they can be easily replaced;
 - **Better finish quality** ⇒ also working abrasive materials, the cutting edge can be maintained always sharp;
 - **Higher measures precision** ⇒ the dimensions of the tools are not changing because there is no resharping;
 - **Better Quality/Price ratio** ⇒ higher production efficiency, less costs and better performances.

HW INSERT FLUSH TRIMMING BITS Z=1

ART. WC101

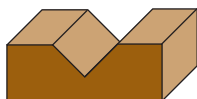
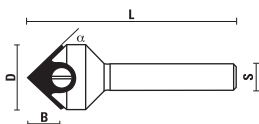


Complete with reversible knives

S Ø 8	D	B	L
WC101.120.R	12	29,5	66
Z055.330.N	Z051.501.R		

HW INSERT V-GROOVING BITS Z=1

ART. WC109

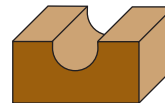
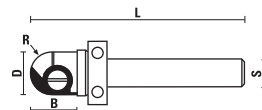


Complete with reversible knives

S Ø 8	D	B	α	L
WC109.176.R	17,6	8,5	45°	53
Z055.001.N	Z051.501.R			

AHW INSERT CORE BOX BITS WITH UPPER BALL BEARING Z=1

ART. WC111

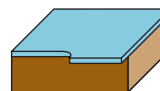
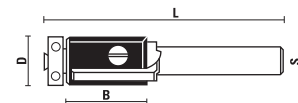


Complete with reversible knives

S Ø 8	D	B	R	L
WC111.127.R	12,7	13	6	59
Z050.018.N	Z055.550.N	Z051.501.R		

HW INSERT FLUSH TRIMMING BITS WITH BALL BEARING

ART. WC120

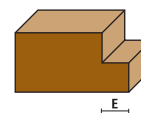
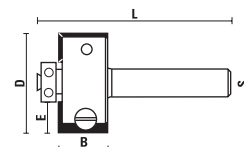


Complete with reversible knives

S Ø 8	D	B	L	Z
WC120.127.R	12,7	20	62	2
Z050.003.N	Z055.551.N	Z051.503.N Screw for ball bearing	Z051.501.R Screw for knives	

HW INSERT RABBET BITS WITH BALL BEARING Z=2

ART. WC121

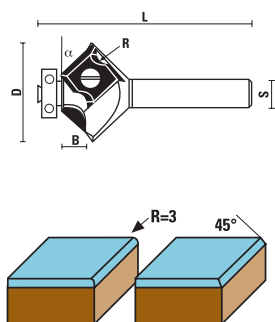


Complete with reversible knives

S Ø 8	D	B	E	L
WC121.286.R	28,6	13,2	7,95	48
Z050.002.N	Z055.552.N	Z051.503.N Screw for ball bearing	Z051.501.R Screw for knives	

HW INSERT FLUSH TRIMMING BITS WITH BALL BEARING Z=2

ART. WC122



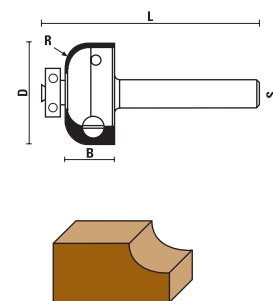
- Complete with reversible knives
- The same knives can be used for both 45° and R= 3 bevel



S Ø 8	D	B	R	α	L
WC122.273.R	27,3	5,7	3	45°	59
Z050.003.N	Z055.553.N				
Z051.503.N Screw for ball bearing	Z051.501.R Screw for knives				

HW INSERT COVER BITS WITH BALL BEARING Z=2

ART. WC125



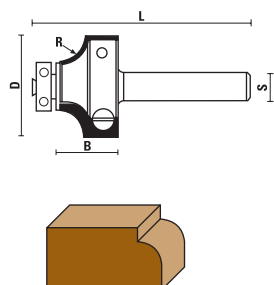
Complete with reversible knives



S Ø 8	D	B	R	L
WC125.260.R	26	12,7	6	55
Z050.003.N	Z055.555.N			
Z051.503.N Screw for ball bearing	Z051.501.R Screw for knives			

HW INSERT CORNER ROUNDING BITS WITH BALL BEARING Z=2

ART. WC123



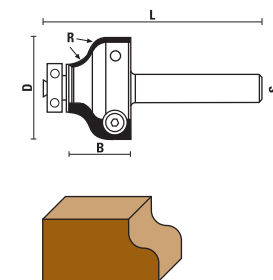
Complete with reversible knives



S Ø 8	D	B	R	L
WC123.260.R	26	15,7	6	55
Z050.003.N	Z055.554.N			
Z051.503.N Screw for ball bearing	Z051.501.R Screw for knives			

HW INSERT OGEE BITS WITH BALL BEARING Z=2

ART. WC129



Complete with reversible knives



S Ø 8	D	B	R	L
WC129.260.R	26	15,7	4,5	55
Z050.003.N	Z055.556.N			
Z051.503.N Screw for ball bearing	Z051.501.R Screw for knives			

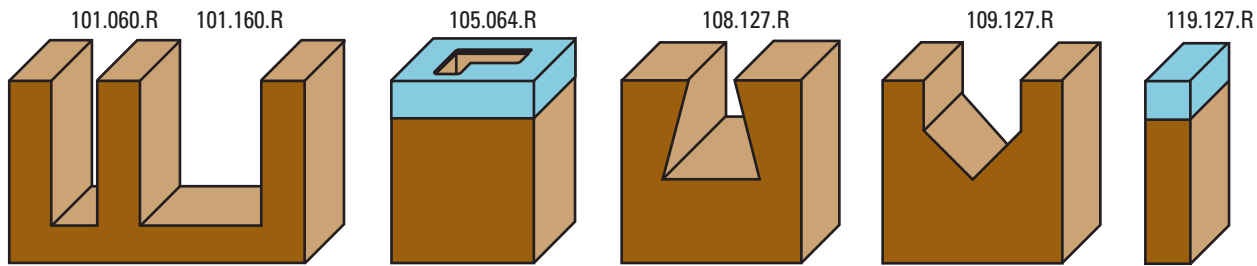
6 PIECE STRAIGHT-DOVETAIL INSERT ROUTER BITS "STARTER SET"

ART. X001



- Set including the 6 most popular T.C.T. router bits in a robust and practical wooden box.
- Ideal to have always on hand the right bit for straight cuts, trimming and engraving.

Item		
X001.006.R (S Ø 6)	X001.064.R (S Ø 6,4 (1/4"))	X001.008.R (S Ø 8)
6-pcs router bit set:	6-pcs router bit set:	6-pcs router bit set:
A101.060.R	B101.064.R	C101.060.R
A101.160.R	B101.160.R	C101.160.R
A105.064.R	B105.064.R	C105.064.R
A108.127.R	B108.127.R	C108.127.R
A109.127.R	B109.127.R	C109.127.R
A119.127.R	B119.127.R	C119.127.R



Scale 1:1

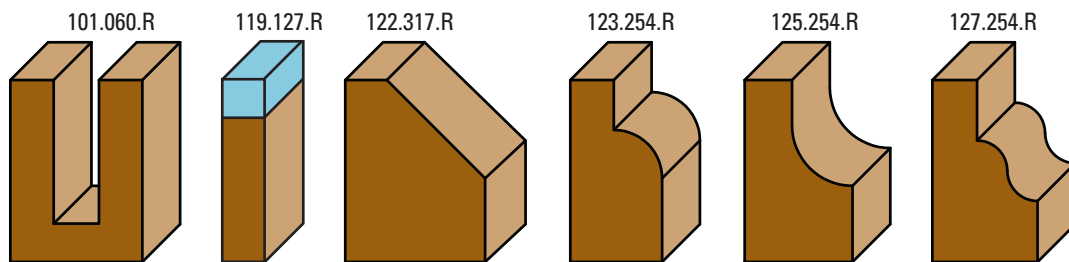
6 PIECE PROFILE ROUTER BITS "STARTER SET"

ART. X002



- Set including the 6 most popular T.C.T. router bits in a robust and practical wooden box.
- Ideal to have always on hand the right bit for straight cuts, trimming and profiling.

Item		
X002.006.R (S Ø 6)	X002.064.R (S Ø 6,4 (1/4"))	X002.008.R (S Ø 8)
6-pcs router bit set:	6-pcs router bit set:	6-pcs router bit set:
A101.060.R	B101.064.R	C101.060.R
A119.127.R	B119.127.R	C119.127.R
A122.317.R	B122.317.R	C122.317.R
A123.254.R	B123.254.R	C123.254.R
A125.254.R	B125.254.R	C125.254.R
A127.254.R	B127.254.R	C127.254.R



Scale 1:1

6 PIECE STRAIGHT BITS "STARTER SET"

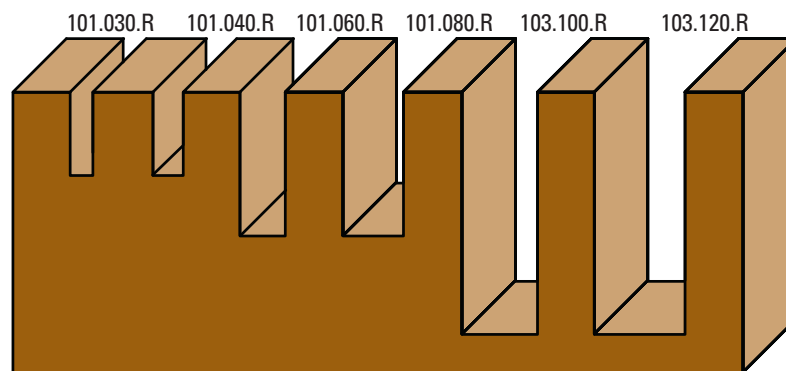
ART. X003



- Set including the 6 most popular T.C.T. router bits in a robust and practical wooden box.
- Ideal to have always on hand the right bit for straight cuts.

Item

X003.006.R (S Ø 6)	X003.064.R (S Ø 6,4 (1/4"))	X003.008.R (S Ø 8)
6-pcs router bit set:	6-pcs router bit set:	6-pcs router bit set:
A101.030.R	B101.030.R	C101.030.R
A101.040.R	B101.040.R	C101.040.R
A101.060.R	B101.060.R	C101.060.R
A101.080.R	B101.080.R	C101.080.R
A103.100.R	B103.100.R	C103.100.R
A103.120.R	B103.120.R	C103.120.R



Scale 1:1

6 PIECE CORNER ROUNDING BITS "STARTER SET"

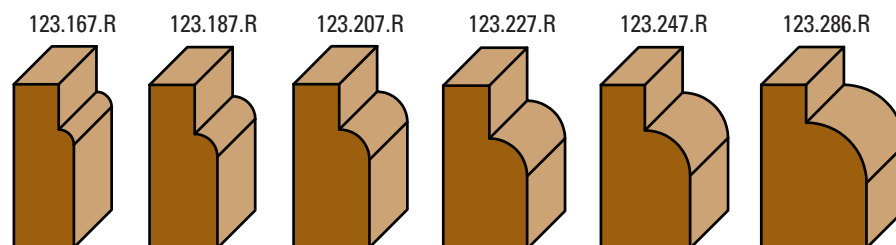
ART. X011



- Set including the 6 most popular T.C.T. router bits in a robust and practical wooden box.
- Ideal to have always on hand the right bit to produce corner roundings.

Item

X011.006.R (S Ø 6)	X011.064.R (S Ø 6,4 (1/4"))	X011.008.R (S Ø 8)
6-pcs router bit set:	6-pcs router bit set:	6-pcs router bit set:
A123.167.R	B123.167.R	C123.167.R
A123.187.R	B123.187.R	C123.187.R
A123.207.R	B123.207.R	C123.207.R
A123.227.R	B123.227.R	C123.227.R
A123.247.R	B123.247.R	C123.247.R
A123.286.R	B123.286.R	C123.286.R



Scale 1:1

6 PIECE DOVETAIL BITS "STARTER SET"

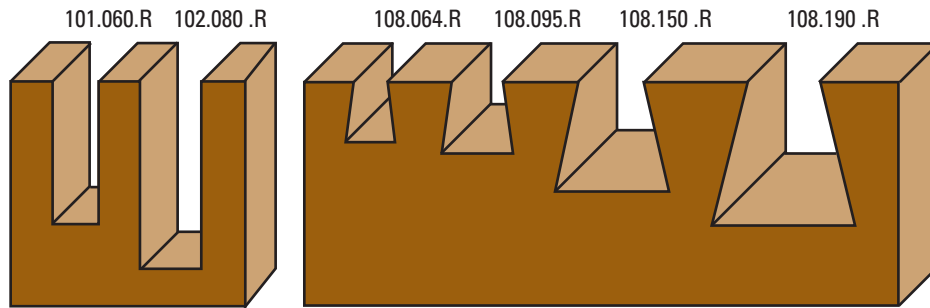
ART. X012



- Set including the 6 most popular T.C.T. router bits in a robust and practical wooden box.
- Ideal to have the right bit for straight cuts and dovetail joints.

Item

X012.006.R (S Ø 6)	X012.064.R (S Ø 6,4 (1/4"))	X012.008.R (S Ø 8)
6-pcs router bit set:	6-pcs router bit set:	6-pcs router bit set:
A101.060.R	B101.060.R	C101.060.R
A102.080.R	B102.080.R	C102.080.R
A108.064.R	B108.064.R	C108.064.R
A108.095.R	B108.095.R	C108.095.R
A108.150.R	B108.150.R	C108.150.R
A108.190.R	B108.190.R	C108.190.R



Scale 1:1

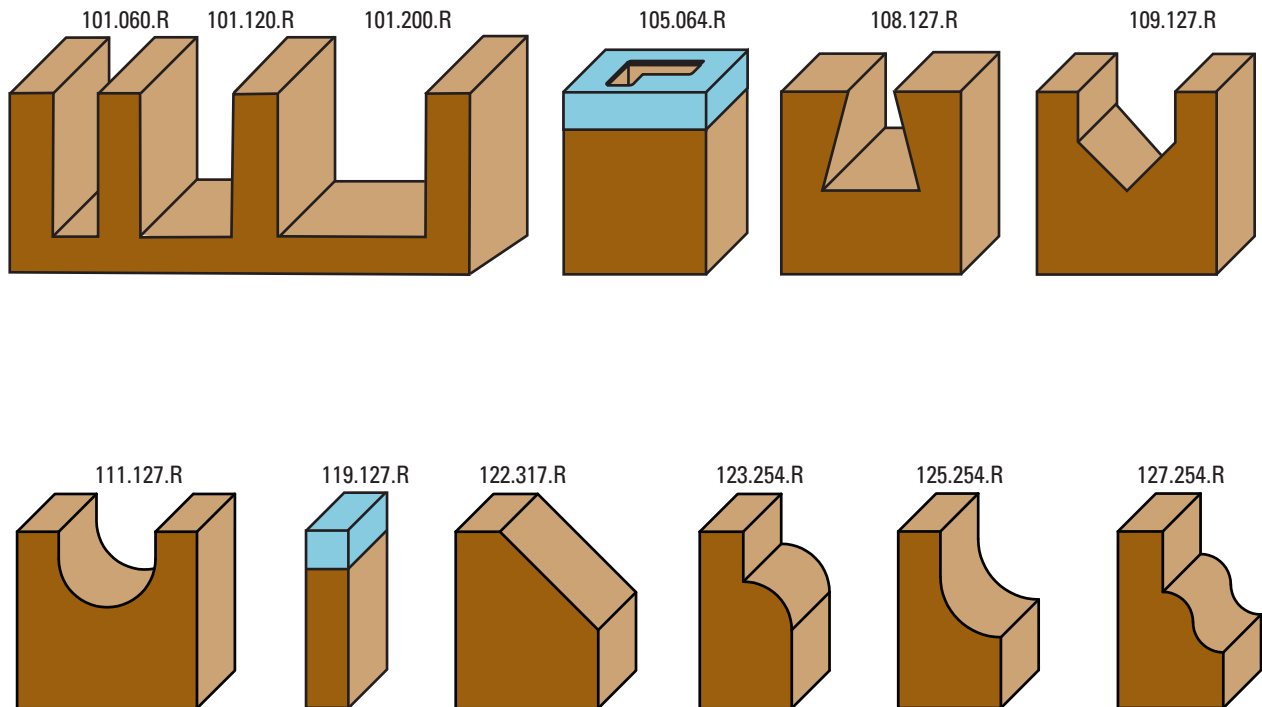
12 PIECE CLASSICAL ROUTER BITS "STARTER SET"

ART. X005



- Set including the 12 most popular T.C.T. router bits in a robust and practical wooden box.
- Ideal to have always on hand the right bit for straight cuts, trimming, engraving and profiling.

Item		
X005.006.R (S Ø 6)	X005.064.R (S Ø 6,4 (1/4"))	X005.008.R (S Ø 8)
12-pcs router bit set:	12-pcs router bit set:	12-pcs router bit set:
A101.060.R	B101.064.R	C101.060.R
A101.120.R	B101.127.R	C101.120.R
A101.200.R	B101.190.R	C101.200.R
A105.064.R	B105.064.R	C105.064.R
A108.127.R	B108.127.R	C108.127.R
A109.127.R	B109.127.R	C109.127.R
A111.127.R	B111.127.R	C111.127.R
A119.127.R	B119.127.R	C119.127.R
A122.317.R	B122.317.R	C122.317.R
A123.254.R	B123.254.R	C123.254.R
A125.254.R	B125.254.R	C125.254.R
A127.254.R	B127.254.R	C127.254.R



Scale 1:1

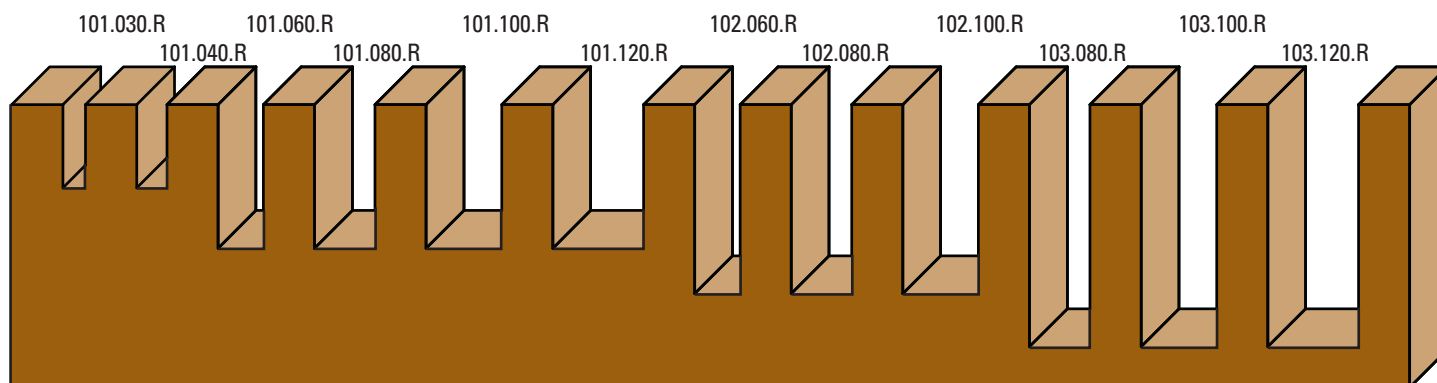
12 PIECE STRAIGHT BITS "ADVANCED SET"

ART. X006



- Set including the 12 most popular T.C.T. router bits in a robust and practical wooden box.
- Ideal to have always on hand the right bit for straight cuts.

Item		
X006.006.R (S Ø 6)	X006.064.R (S Ø 6,4 (1/4"))	X006.008.R (S Ø 8)
12-pcs router bit set:	12-pcs router bit set:	12-pcs router bit set:
A101.030.R	B101.030.R	C101.030.R
A101.040.R	B101.040.R	C101.040.R
A101.060.R	B101.060.R	C101.060.R
A101.080.R	B101.080.R	C101.080.R
A101.100.R	B101.100.R	C101.100.R
A101.120.R	B101.120.R	C101.120.R
A102.060.R	B102.060.R	C102.060.R
A102.080.R	B102.080.R	C102.080.R
A102.100.R	B102.100.R	C102.100.R
A103.080.R	B103.080.R	C103.080.R
A103.100.R	B103.100.R	C103.100.R
A103.120.R	B103.120.R	C103.120.R



Scale 1:1

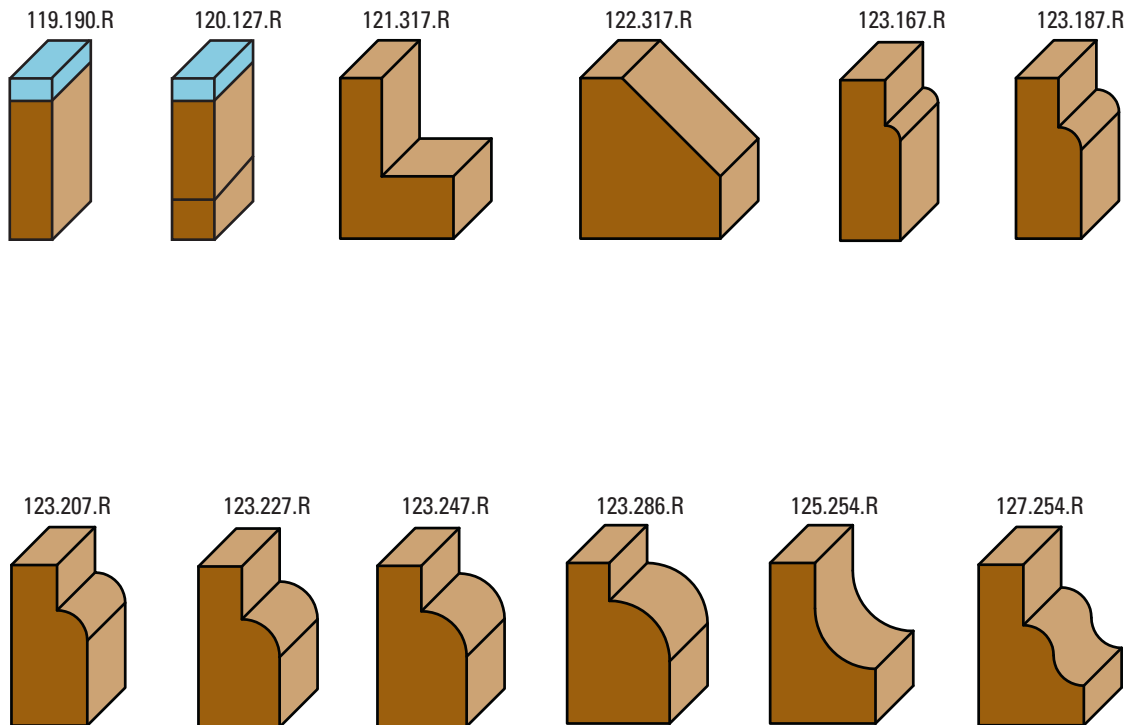
12 PIECE PROFILE ROUTER BITS "ADVANCED SET"

ART. X007



- Set including the 12 most popular T.C.T. router bits in a robust and practical wooden box.
- Ideal to have always on hand the right bit for trimming and profiling.

Item		
X007.006.R (S Ø 6)	X007.064.R (S Ø 6,4 (1/4"))	X007.008.R (S Ø 8)
12-pcs router bit set:	12-pcs router bit set:	12-pcs router bit set:
A119.190.R	B119.190.R	C119.190.R
A120.127.R	B120.127.R	C120.127.R
A121.317.R	B121.317.R	C121.317.R
A122.317.R	B122.317.R	C122.317.R
A123.167.R	B123.167.R	C123.167.R
A123.187.R	B123.187.R	C123.187.R
A123.207.R	B123.207.R	C123.207.R
A123.227.R	B123.227.R	C123.227.R
A123.247.R	B123.247.R	C123.247.R
A123.286.R	B123.286.R	C123.286.R
A125.254.R	B125.254.R	C125.254.R
A127.254.R	B127.254.R	C127.254.R



Scale 1:1

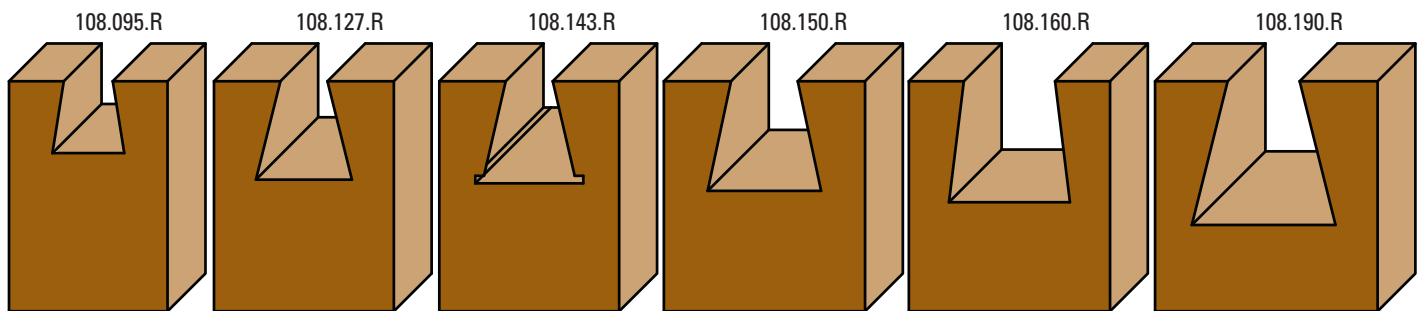
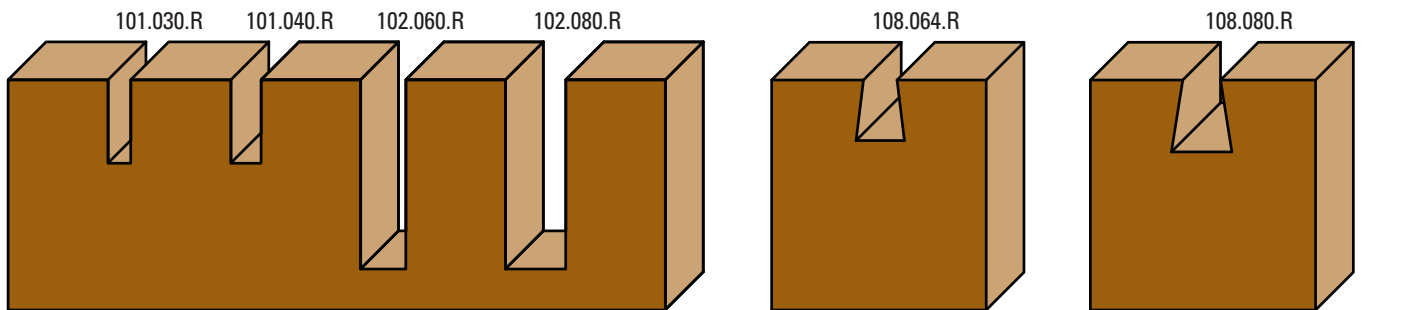
12 PIECE DOVETAIL BITS "ADVANCED SET"

ART. X008



- Set including the 12 most popular T.C.T. router bits in a robust and practical wooden box.
- Ideal to have the right bit for straight cuts and dovetail joints.

Item		
X008.006.R (S Ø 6)	X008.064.R (S Ø 6,4 (1/4"))	X008.008.R (S Ø 8)
12-pcs router bit set:	12-pcs router bit set:	12-pcs router bit set:
A101.030.R	B101.030.R	C101.030.R
A101.040.R	B101.040.R	C101.040.R
A102.060.R	B102.060.R	C102.060.R
A102.080.R	B102.080.R	C102.080.R
A108.064.R	B108.064.R	C108.064.R
A108.080.R	B108.080.R	C108.080.R
A108.095.R	B108.095.R	C108.095.R
A108.127.R	B108.127.R	C108.127.R
A108.143.R	B108.143.R	C108.143.R
A108.150.R	B108.150.R	C108.150.R
A108.160.R	B108.160.R	C108.160.R
A108.190.R	B108.190.R	C108.190.R



Scale 1:1

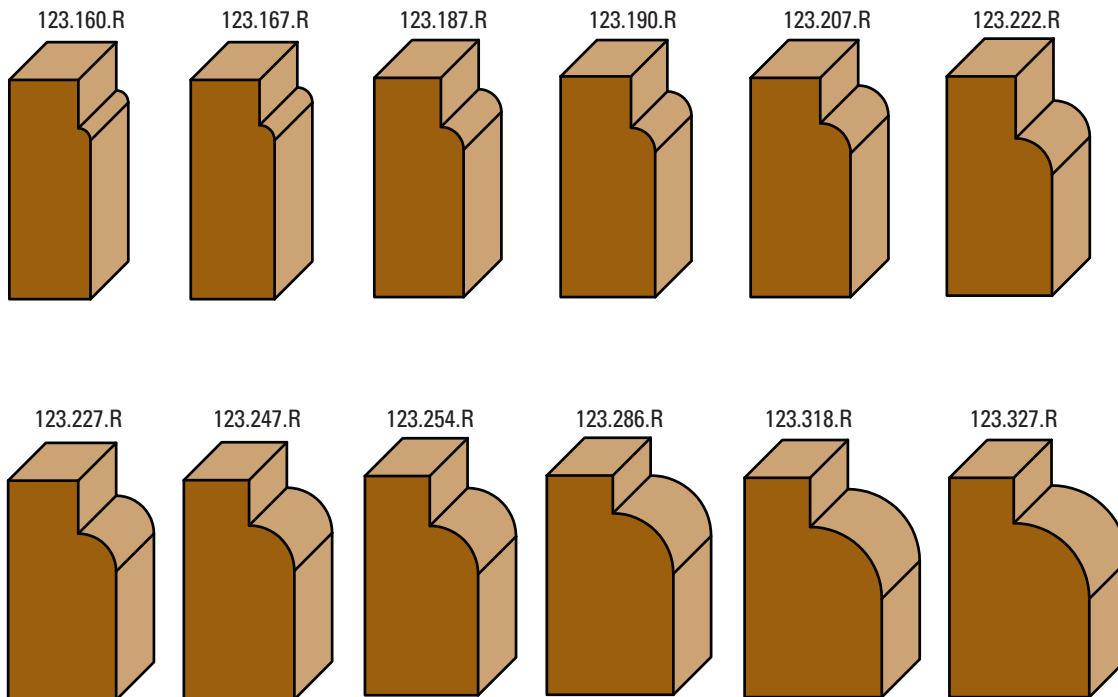
12 PIECE CORNER ROUNDING BITS "ADVANCED SET"

ART. X013



- Set including the 12 most popular T.C.T. router bits in a robust and practical wooden box.
- Ideal to have always on hand the right bit to produce corner roundings.

Item	
X013.006.R (S Ø 6)	X013.008.R (S Ø 8)
12-pcs router bit set:	12-pcs router bit set:
A123.160.R	C123.160.R
A123.167.R	C123.167.R
A123.187.R	C123.187.R
A123.190.R	C123.190.R
A123.207.R	C123.207.R
A123.222.R	C123.222.R
A123.227.R	C123.227.R
A123.247.R	C123.247.R
A123.254.R	C123.254.R
A123.286.R	C123.286.R
A123.318.R	C123.318.R
A123.327.R	C123.327.R



Scale 1:1

6 PIECE INSERT ROUTER BITS "SET"

ART. XWC



- Set including the 6 most popular HW router bits in S=8 in a robust and practical wooden box.
- Ideal to have always on hand the right bit for straight cuts, trimming and engraving.
- Router bits complete with reversible knives

Item

XWC.001.R

6-pcs router bit set:

WC101.120.R

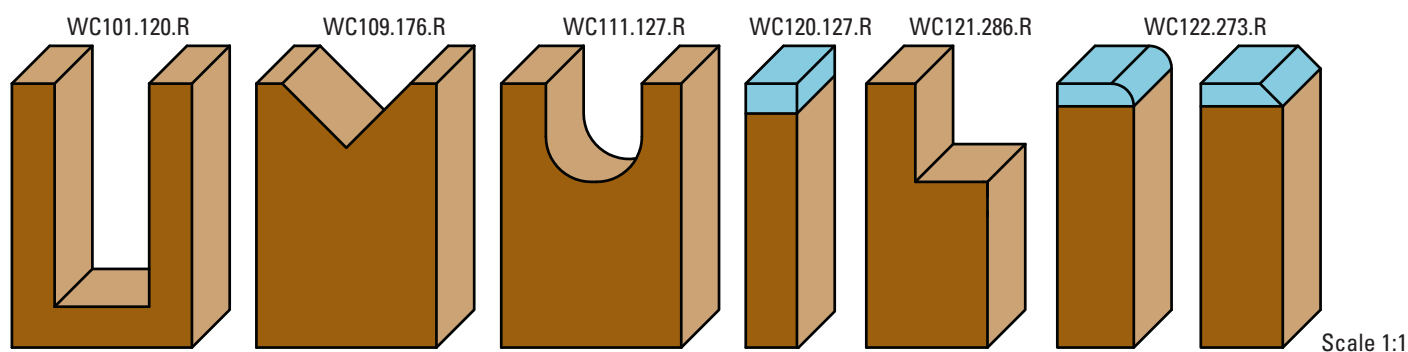
WC109.176.R

WC111.127.R

WC120.127.R

WC121.286.R

WC122.273.R



Scale 1:1

6 PIECE INSERT ROUTER BITS "SET"

ART. XWC



- Set including the 6 most popular HW router bits in S=8 in a robust and practical wooden box.
- Ideal to have always on hand the right bit for trimming and profiling.
- Router bits complete with reversible knives

Item

XWC.002.R

6-pcs router bit set:

WC120.127.R

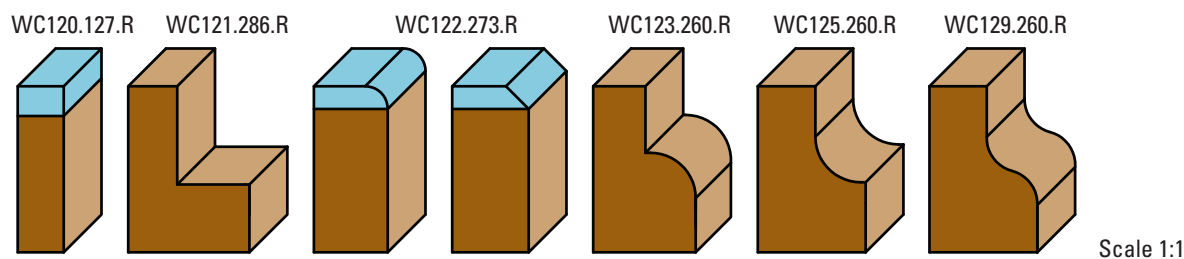
WC121.286.R

WC122.273.R

WC123.260.R

WC125.260.R

WC129.260.R



Scale 1:1

BASE

1 modular panel

Small display, ideal for starting with a basic assortment
Dimensions (cm): 110 (L) x 90 (H) x 30 (P)



Display code **Base 01**
 includes:
 Router bits S=6/8
 for portable routers
60 positions

Display code **Base 02**
 includes:
 Router bits S=12
 for portable routers
30 positions



**Display
 customizable**

STANDARD

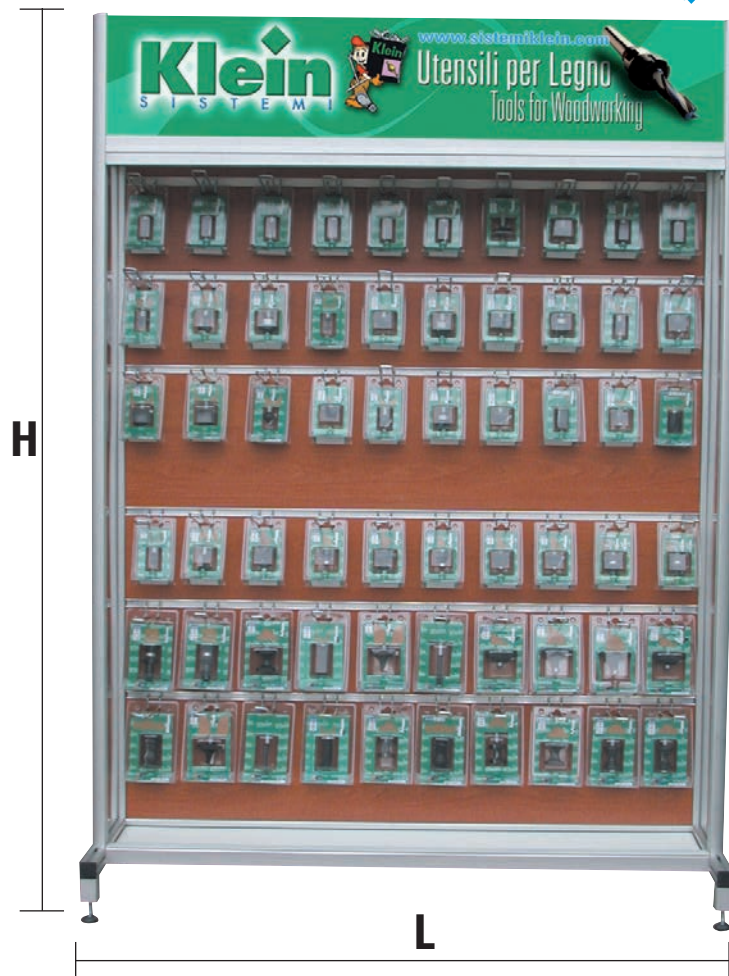
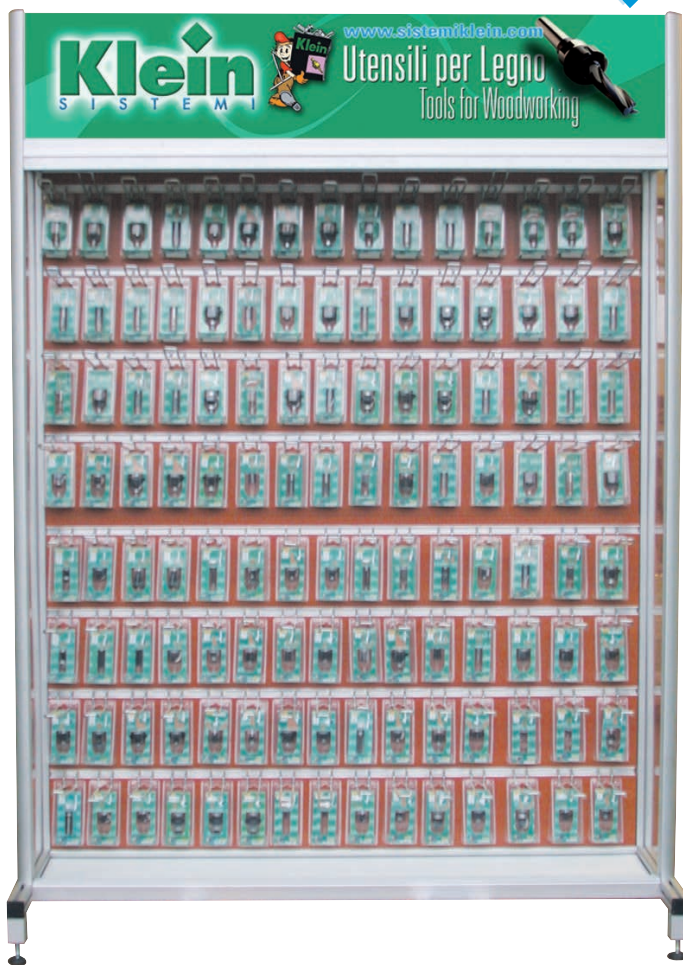
2 modular panels

Consisting of two displays "BASE", can be composed according to customers' needs.
 Suitable for those who want a good variety of products waiting to increase and improve the offer range.

Dimensions (cm): 110 (L) x 145 (H) x 36 (P)

Display code **Standard 01**
 includes:
 Router bits S=6/8 for portable routers
120 positions

Display code **Standard 02**
 includes:
 Router bits S=12 for portable routers
60 positions



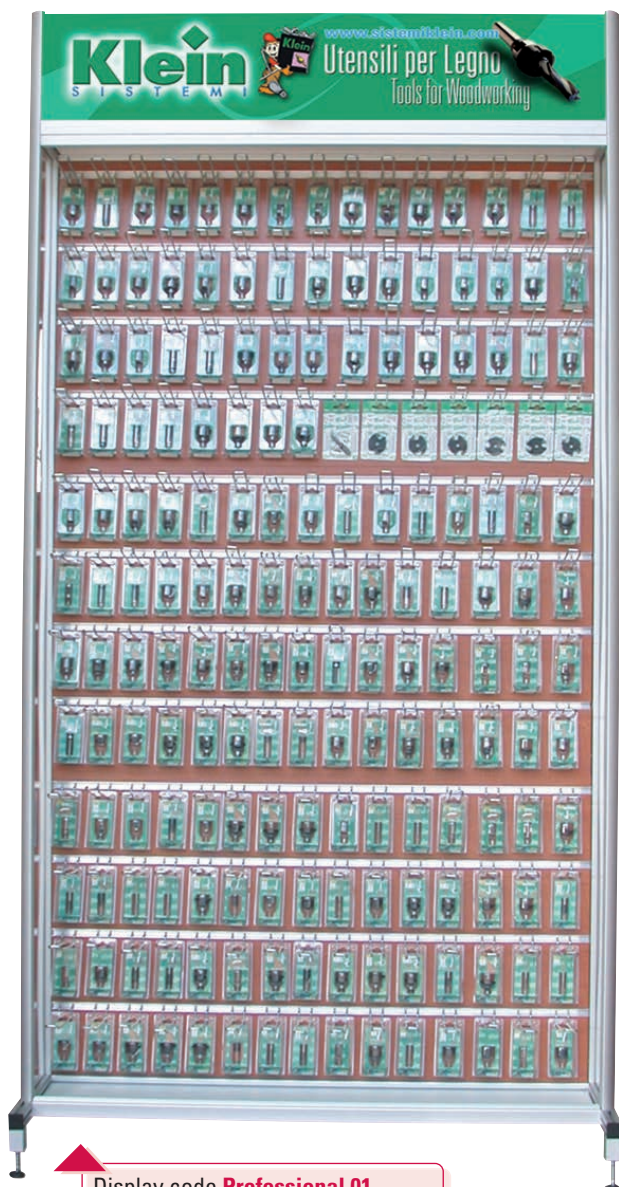
PROFESSIONAL

3 modular panels

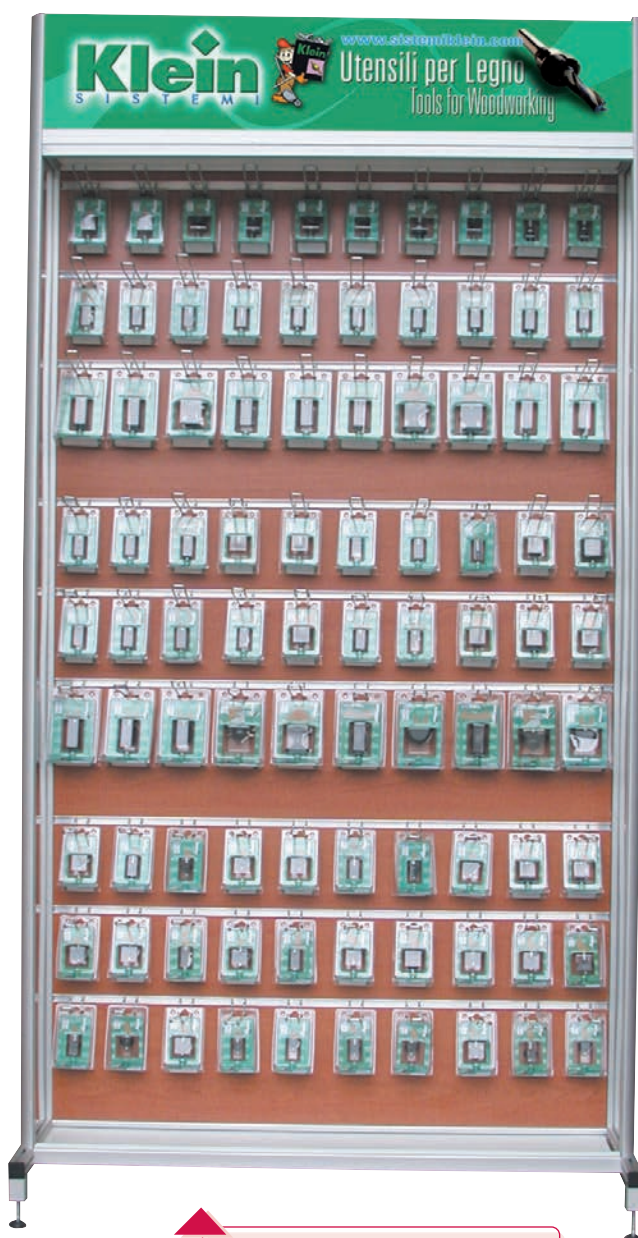
Big display consisting of three panels BASE, allows you to display a large variety of items.
With two or more displays you get the complete assortment to meet all the needs of professional woodworkers.

Dimensions (cm): 110 (L) x 200 (H) x 36 (P)

**Display
customizable**



Display code **Professional 01**
includes:
Router bits for portable routers
S= 6/8 - 180 positions



Display code **Professional 02**
includes:
Router bits for portable routers
S= 12 - 90 positions