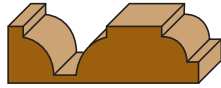
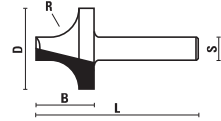


HW PLUNGING ROUND-OVER BITS Z=2

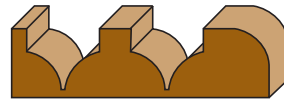
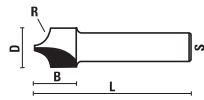
ART. A112 - B112 - C112



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

HW PLUNGING ROUND-OVER BITS Z=2

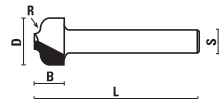
ART. C112



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

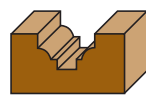
ART. A113 - B113 - C113



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A113.095.R	B113.095.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

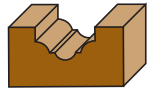
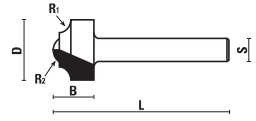
ART. A114 - B114 - C114



S Ø 6	S Ø 6,4 (1/4")	S Ø 8	D	R	B	L
A114.127.R	B114.127.R	C114.127.R	12,7	2	10	51
A114.190.R	B114.190.R	C114.190.R	19	3,5	11	52

HW PLUNGE TYPE CLASSICAL BITS Z=2

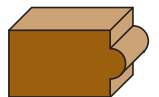
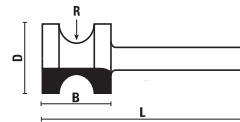
ART. A115 - B115 - C115



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	51
		C115.254.R	25,4	5	6,4	17,5	71

HW BULL NOSE RADIUS BITS Z=2

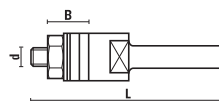
ART. A116 - B116 - C116



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	41
A116.167.R	B116.167.R	C116.167.R	16,7	3,6	19	41
A116.222.R	B116.222.R	C116.222.R	22,2	5,2	19	41
A116.260.R	B116.260.R	C116.260.R	26	6,8	25	51

SLOT CUTTER ARBORS

ART. A117 - B117 - C117 - E117 - G117



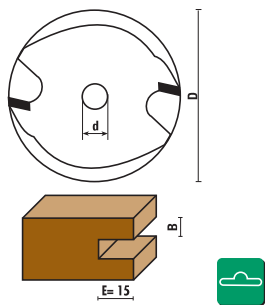
S Ø 6	S Ø 6,4 (1/4")	S Ø 8	d	B	L
A117.060.R	B117.060.R		6	17	51
A117.080.R	B117.080.R		7,94	34	61
		C117.060.R	6	17	51
		C117.079.R	7,94	34	71
		C117.080.N	7,94	53	91
		C117.081.N	7,94	66	101
		C117.082.N	7,94	38	81

S Ø 12	S Ø 12,7 (1/2")	d	B	L
E117.120.N	G117.120.R	7,94	53	91
E117.121.N	G117.121.R	7,94	66	101
E117.122.N	G117.122.R	7,94	38	81
E117.123.N	G117.123.R	7,94	34	71

Used with cutters Art. A118 - C118, spacers Art. Z057 and ball bearing Art. Z050.006.N (see section 10)

HW SLOT CUTTERS

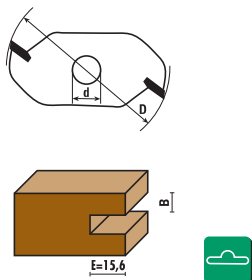
ART. A118



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

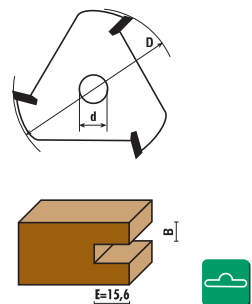
ART. C118



Bore Ø 8	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

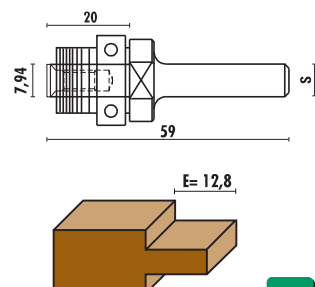
ART. C118



Bore Ø 8	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

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 - Z054.002.N - 1 mm
nr. 2 - Z054.003.N - 0,5 mm
nr. 5 - Z054.004.N - 0,1 mm
nr. 2 - Z054.005.N - 3 mm

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

A117.281.R B117.281.R C117.281.R E117.281.R G117.281.R

Without ball bearing



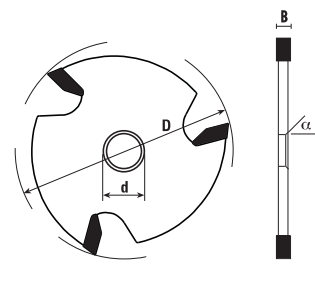
Z051.015.R



nr. 3 - Z054.002.N - 1 mm
nr. 2 - Z054.003.N - 0,5 mm
nr. 6 - Z054.004.N - 0,1 mm
nr. 2 - Z054.005.N - 3 mm
nr. 1 - Z054.006.N - 6 mm

HW SLOT CUTTERS SPECIAL FIXING SCREW

ART. C118



$\alpha = 45^\circ$ bore

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

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.

