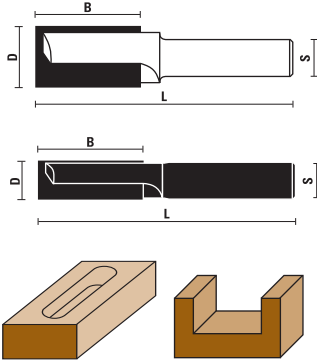


HW STRAIGHT BITS S=10 Z=2+1

ART. D101



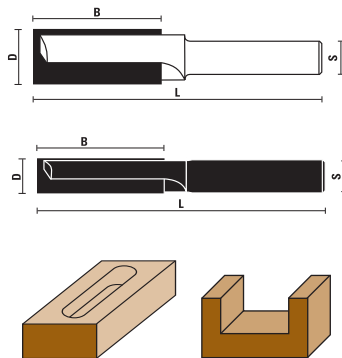
- Straight cut Z=2+1, plunging
- To be used also for working plastic materials, acrylic, polypropylene, HDPE, acetates and polycarbonates
- Also for C.N.C. machines

S Ø 10	D	B	L
D101.040.R ▲	4	13	49
D101.050.R ▲	5	15	49
D101.060.R ▲	6	16	53
D101.070.R ▲	7	20	55
D101.080.R ▲	8	23	60
D101.090.R ▲	9	23	60
D101.100.R ▲	10	23	70
D101.120.R	12	23	70
D101.140.R	14	23	70
D101.150.R	15	23	70
D101.160.R	16	23	70
D101.180.R	18	23	70
D101.200.R	20	23	70
D101.220.R	22	23	70
D101.240.R	24	23	70

▲ Solid carbide

HW STRAIGHT BITS S=10 LONG TYPE Z=2+1

ART. D102



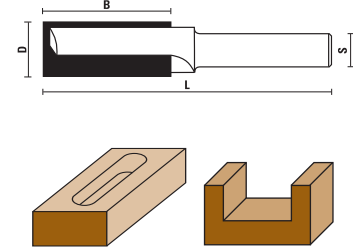
- Straight cut Z=2+1, plunging
- To be used also for working plastic materials, acrylic, polypropylene, HDPE, acetates and polycarbonates
- Also for C.N.C. machines

S Ø 10	D	B	L
D102.100.R ▲	10	40	87
D102.120.R	12	40	87
D102.140.R	14	40	87
D102.160.R	16	45	87
D102.180.R	18	45	87
D102.200.R	20	45	87

▲ Solid carbide

HW STRAIGHT BITS S=12 Z=2+1

ART. D103

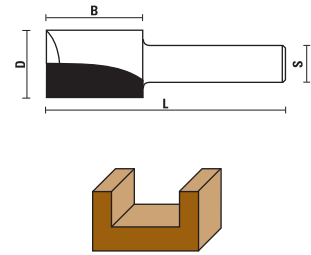


- Straight cut Z=2+1, plunging
- To be used also for working plastic materials, acrylic, polypropylene, HDPE, acetates and polycarbonates
- Also for C.N.C. machines

S Ø 12	D	B	L
D103.100.R	10	35	90
D103.120.R	12	35	90
D103.121.R	12	45	90
D103.140.R	14	35	90
D103.141.R	14	50	100
D103.160.R	16	35	90
D103.161.R	16	50	100
D103.180.R	18	35	90
D103.181.R	18	50	100
D103.200.R	20	35	90
D103.201.R	20	50	100
D103.220.R	22	35	90
D103.240.R	24	35	90

HW STRAIGHT BITS Z=2

ART. E101 - G101

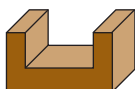
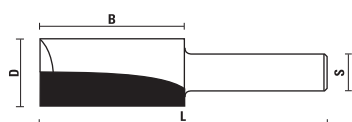


S Ø 12	S Ø 12,7 (1/2")	D	B	L
E101.040.R		4	11	63
E101.050.R		5	11	60
E101.060.R	G101.060.R	6	19	63
	G101.064.R	6,4	19	63
E101.070.R		7	19	63
E101.080.R	G101.080.R	8	19	63
	G101.095.R	9,5	25	70
E101.100.R	G101.100.R	10	25	70
E101.120.R		12	25	70
	G101.127.R	12,7	25	66
E101.140.R		14	32	73
	G101.143.R	14,3	32	73
E101.150.R		15	25	66
E101.160.R	G101.160.R	16	32	73
E101.170.R		17	32	73
E101.180.R		18	32	73
E101.190.R		19	32	73
E101.200.R		20	32	73
E101.220.R		22	32	73
E101.250.R		25	32	73
	G101.254.R	25,4	32	73
E101.300.R		30	32	73
E101.350.R		35	32	73
E101.400.R		40	32	73



HW STRAIGHT BITS Z=2 LONG TYPE

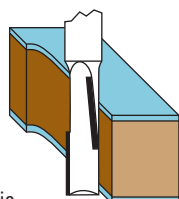
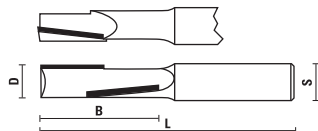
ART. E102 - G102 / E103 - G103



S Ø 12	S Ø 12,7 (1/2")	D	B	L
E102.080.R		8	25	70
	G102.095.R	9,5	32	76
E102.100.R	G102.100.R	10	32	76
E102.120.R	G102.120.R	12	38	80
	G102.127.R	12,7	38	80
E102.160.R	G102.160.R	16	38	80
E102.190.R	G102.190.R	19	38	80
<hr/>				
E103.120.R	G103.120.R	12	50	108
	G103.127.R	12,7	50	108
E103.180.R		18	50	92
E103.200.R		20	50	92
E103.220.R		22	50	92

HW STAGGER BITS Z=2

ART. E104 - G104

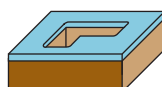
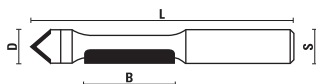


- Excellent for working laminated, panel, melaminic, veneered and plywood
- Good finishing top/bottom

S Ø 12	S Ø 12,7 (1/2")	D	B	L
E104.127.R	G104.127.R	12,7	38	79
E104.128.R	G104.128.R	12,7	54	108

HW PANEL PILOT BITS Z=1+1

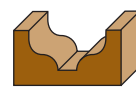
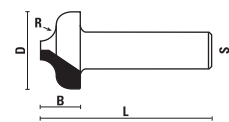
ART. E105 - G105



S Ø 12	S Ø 12,7 (1/2")	D	B	L
E105.127.R	G105.127.R	12,7	30	90

HW PLUNGE TYPE OGEE BITS Z=2

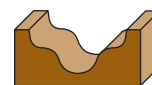
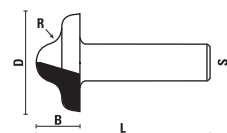
ART. E106 - G106



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E106.190.R	G106.190.R	19	3,5	13	68
E106.254.R	G106.254.R	25,4	3,2	9,5	50
E106.350.R	G106.350.R	35	3,2	9,5	59

HW PLUNGE TYPE OGEE BITS Z=2

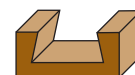
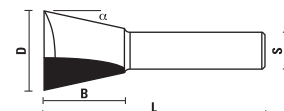
ART. E107 - G107



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E107.270.R	G107.270.R	27	6	12	57

HW DOVETAIL BITS Z=2

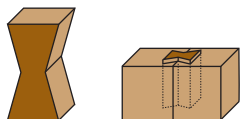
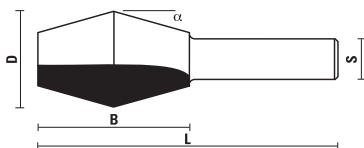
ART. E108 - G108



S Ø 12	S Ø 12,7 (1/2")	D	α	B	L
E108.161.R	G108.161.R	16	7°	22	65
E108.190.R	G108.190.R	19	14°	19	65
E108.191.R	G108.191.R	19	7°	22	65
E108.220.R	G108.220.R	22	14°	22	67
E108.221.R	G108.221.R	22	7°	22	60
E108.254.R	G108.254.R	25,4	14°	25,4	70

HW 14° BUTTERFLY SPLINE BITS Z=2

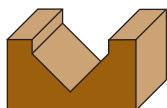
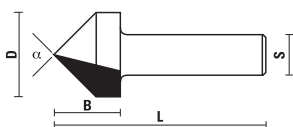
ART. E109 - G109



S Ø 12	S Ø 12,7 (1/2")	D	α	B	L
E109.280.R	G109.280.R	28	14°	46	84

HW V-GROOVE BITS Z=2

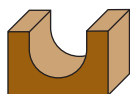
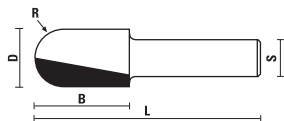
ART. E110 - G110



S Ø 12	S Ø 12,7 (1/2")	D	α	B	L
E110.127.R	G110.127.R	12,7	90°	13	54
E110.160.R	G110.160.R	16	90°	13	51
E110.190.R	G110.190.R	19	90°	16	54
E110.254.R	G110.254.R	25,4	90°	19	57
E110.320.R	G110.320.R	32	90°	25	64
E110.381.R	G110.381.R	38,1	90°	32	70
E110.501.R	G110.501.R	51	90°	44	83

HW CORE BOX BITS Z=2

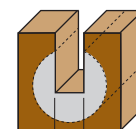
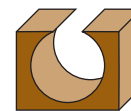
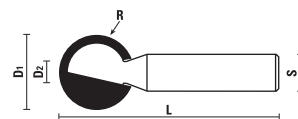
ART. E111 - G111



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E111.127.R	G111.127.R	12,7	6,4	32	73
E111.160.R	G111.160.R	16	8	32	70
E111.190.R	G111.190.R	19	9,5	32	70
E111.220.R	G111.220.R	22	11	32	70
E111.254.R	G111.254.R	25,4	12,7	32	70
E111.317.R	G111.317.R	32	16	32	70
E111.380.R	G111.380.R	38	19	32	70
E111.500.R	G111.500.R	50	25	32	70

HW BALL AND PLUNGE BITS Z=2

ART. E112 - G112



min 13



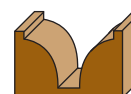
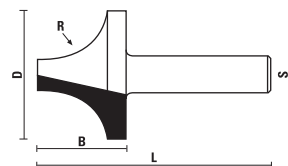
These tools can produce grooves for sliding panels or electrical wires, after a first groove which allows the tool shank moving

S Ø 12	S Ø 12,7 (1/2")	D1	D2	R	L
E112.127.R	G112.127.R	12,7	6,5	6,4	57
E112.160.R	G112.160.R	16	7,5	8	60
E112.190.R	G112.190.R	19	8,5	9,5	64
E112.254.R	G112.254.R	25,4	9	12,7	70
E112.286.R*		28,6	10,3	14,3	70
E112.320.R	G112.320.R	32	12,7	16	73

* Selling out

HW PLUNGING ROUND-OVER BITS Z=2

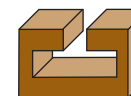
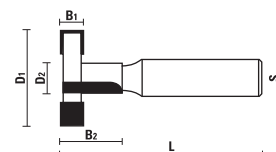
ART. E113 - G113



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E113.160.R	G113.160.R	16	5	11	49
E113.190.R	G113.190.R	19	6,4	13	51
E113.220.R	G113.220.R	22	8	14	52
E113.254.R	G113.254.R	25,4	9,5	16	54
E113.349.R	G113.349.R	34,9	12,7	25,4	63,5
E113.445.R	G113.445.R	44,5	16	31,8	70
E113.510.R	G113.510.R	51	19	36	75

HW T-SLOT ROUTER BITS Z=2

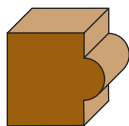
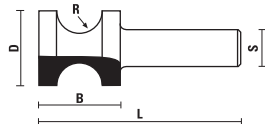
ART. E114 - G114



S Ø 12	S Ø 12,7 (1/2")	D1	D2	B1	B2	L
E114.280.R	G114.280.R	28	9,5	8	21	65
E114.350.R	G114.350.R	35	13	9,5	22	65

HW BULL NOSE RADIUS BITS Z=2

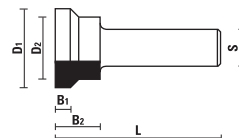
ART. E115 - G115



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E115.220.R	G115.220.R	22	5	19	57
E115.260.R	G115.260.R	26	6,8	25	63
E115.280.R	G115.280.R	28	8	25	64
E115.333.R	G115.333.R	33,3	9,5	35	73
E115.429.R	G115.429.R	42,9	12,7	40	78
E115.510.R	G115.510.R	51	16	50	88
E115.600.R	G115.600.R - max RPM 18.000	60	19	50	88

HW DRAWER LOCK BITS Z=2

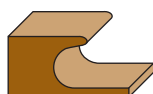
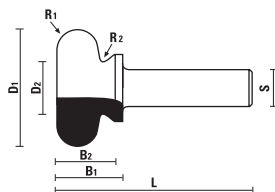
ART. E119 - G119



S Ø 12	S Ø 12,7 (1/2")	D1	D2	B1	B2	L
E119.254.R	G119.254.R	25,4	18,5	4	13	49

HW FINGER GRIP BITS Z=2

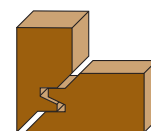
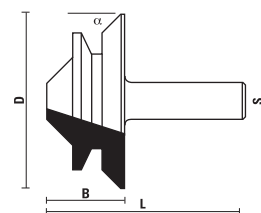
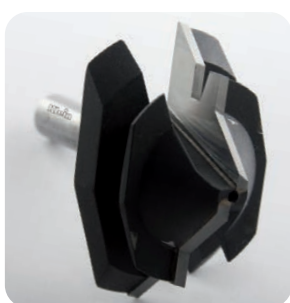
ART. E116 - G116



S Ø 12	S Ø 12,7 (1/2")	D1	D2	R1	R2	B1	B2	L
E116.190.R	G116.190.R	19	10	4,8	2,5	19	14	57
E116.381.R	G116.381.R	38,1	17	6	2	21	18	59
E116.445.R	G116.445.R	44,5	17	8	2	25	22	63

HW 45° LOCK MITER BITS Z=2

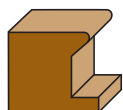
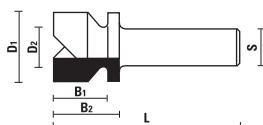
ART. E120 - G120



S Ø 12	S Ø 12,7 (1/2")	D	α	B	L
E120.445.R	G120.445.R	44,5	45°	20	58
E120.680.R	G120.680.R - max RPM 18.000	68	45°	29,5	68

HW FINGER GRIP BITS Z=2

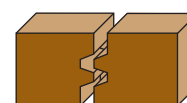
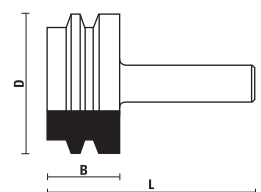
ART. E118 - G118



S Ø 12	S Ø 12,7 (1/2")	D1	D2	B1	B2	L
E118.220.R	G118.220.R	22	13	17	21	59

HW GLUE JOINT BITS Z=2

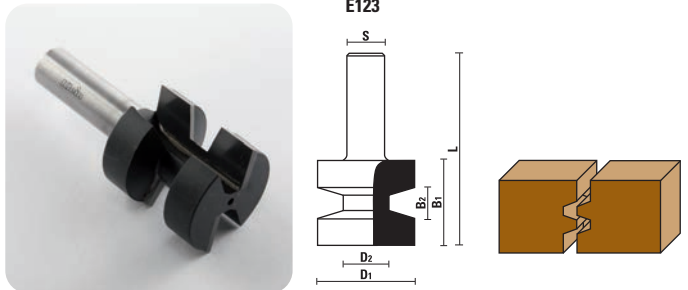
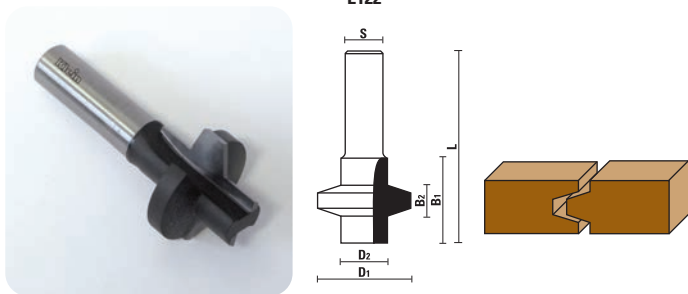
ART. E121 - G121



S Ø 12	S Ø 12,7 (1/2")	D	B	L
E121.470.R	G121.470.R	47	28	66

HW WEDGE TONGUE AND GROOVE BITS Z=2

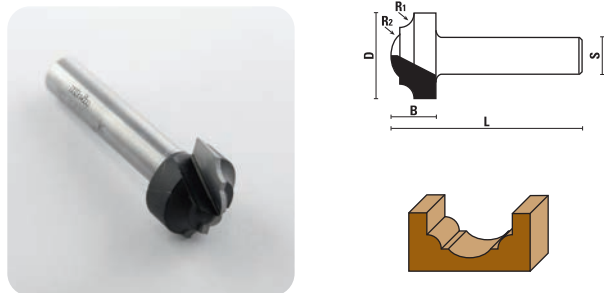
ART. E122 - G122 / E123 - G123



S Ø 12	S Ø 12,7 (1/2")	D1	D2	α	B1	B2	L
E122.320.R	G122.320.R	32	14	15°	32	11	70
E123.320.R	G123.320.R	32	14	15°	32	11	70

HW PROFILE BITS Z=2

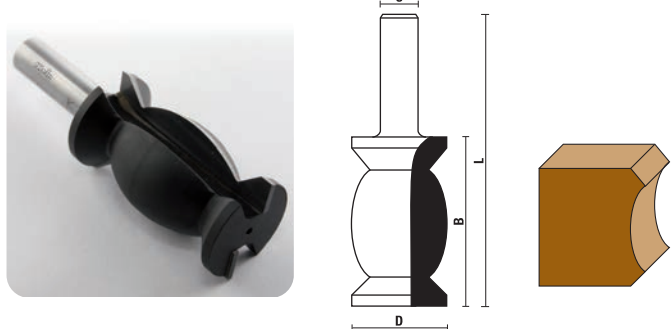
ART. E124 - G124



S Ø 12	S Ø 12,7 (1/2")	D	R1	R2	B	L
E124.190.R	G124.190.R	19	3,6	4	13	70
E124.254.R	G124.254.R	25,4	5	6,4	17,5	73

HW CROWN MOULDING BITS Z=2

ART. E125 - G125

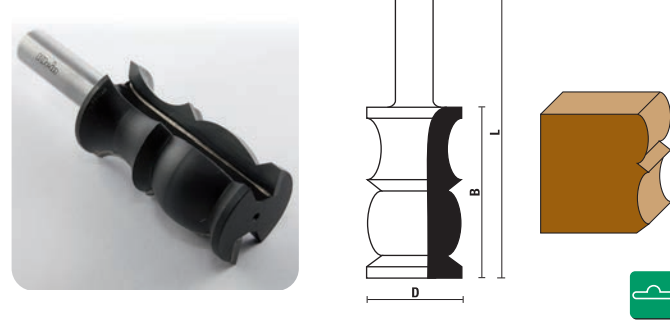


S Ø 12	S Ø 12,7 (1/2")	D	B	L
E125.320.R*	G125.320.R*	32	58	96

* Selling out

HW CROWN MOULDING BITS Z=2

ART. E126

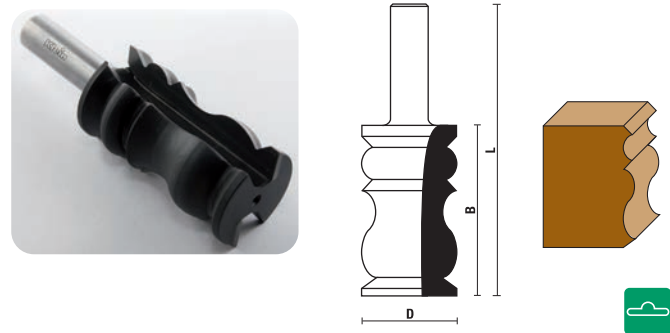


S Ø 12	D	B	L
E126.320.R*	32	58	96

* Selling out

HW CROWN MOULDING BITS Z=2

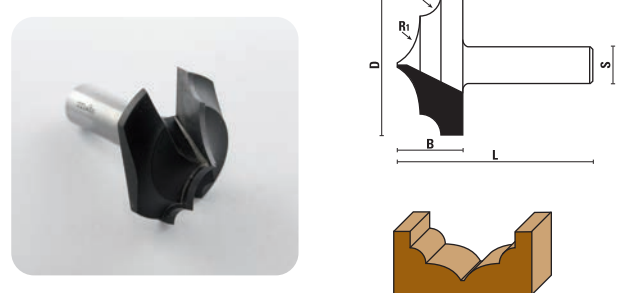
ART. E127 - G127



S Ø 12	S Ø 12,7 (1/2")	D	B	L
E127.320.R	G127.320.R	32	58	96

HW PROFILE BITS Z=2

ART. E128 - G128



For producing ornaments

S Ø 12	S Ø 12,7 (1/2")	D	R1	R2	B	L
E128.410.R	G128.410.R	41	6,4	15	18	56

HW PROFILE BITS Z=2

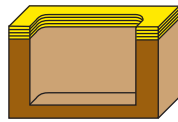
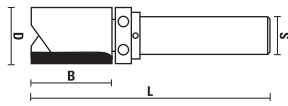
ART. E129 - G129



S Ø 12	S Ø 12,7 (1/2")	D	D1	R	B	L
E129.254.R	G129.254.R	25,4	9,5	4,8	15	53
E129.300.R	G129.300.R	30	12	6	15	53

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

ART. E130 - G130



S Ø 12	S Ø 12,7 (1/2")	D	B	L
E130.190.R	G130.190.R	19	25,4	77
E130.191.R	G130.191.R	19	51	92



Z050.012.N



Z058.002.N



Z051.005.N

S Ø 12	S Ø 12,7 (1/2")	D	B	L
E130.254.R	G130.254.R	25,4	45	95



Z050.009.N



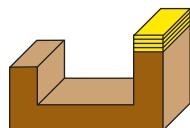
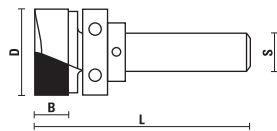
Z058.002.N



Z051.005.N

HW PLUNGE BITS WITH UPPER BALL BEARING GUIDE Z=2

ART. E131 - G131



S Ø 12	S Ø 12,7 (1/2")	D	B	L
E131.190.R	G131.190.R	19	11	64



Z050.012.N



Z058.002.N



Z051.005.N

S Ø 12	S Ø 12,7 (1/2")	D	B	L
E131.254.R	G131.254.R	25,4	11	64



Z050.009.N



Z058.002.N



Z051.005.N

S Ø 12	S Ø 12,7 (1/2")	D	B	L
E131.380.R	G131.380.R	38	16	69



Z050.013.N



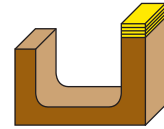
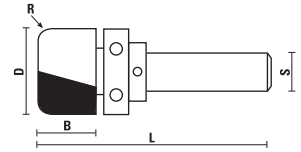
Z058.003.N



Z051.005.N

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

ART. E132 - G132



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E132.190.R	G132.190.R	19	6,4	16	67



Z050.012.N



Z058.002.N



Z051.005.N

S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E132.286.R	G132.286.R	28,6	6,4	16	67



Z050.015.N



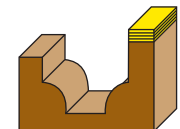
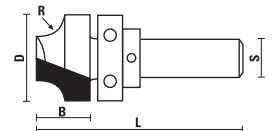
Z058.003.N



Z051.005.N

HW BEADING BITS WITH UPPER BALL BEARING GUIDE Z=2

ART. E133



S Ø 12	D	R	B	L
E133.286.R*	28,6	8	15	58

* Selling out



Z050.015.N



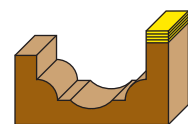
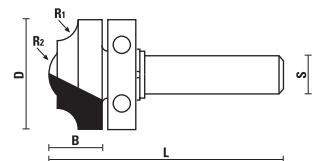
Z058.003.N



Z051.005.N

HW CLASSICAL PLUNGE BITS WITH UPPER BALL BEARING GUIDE Z=2

ART. E134 - G134



For producing ornaments

S Ø 12	S Ø 12,7 (1/2")	D	R1	R2	B	L
E134.350.R	G134.350.R	35	6,4	10	15	68



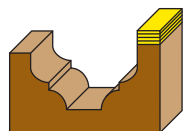
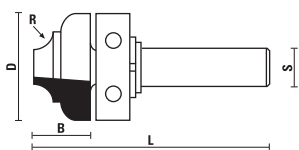
Z050.014.N



DIN 471-15

HW CLASSICAL PLUNGE BITS WITH UPPER BALL BEARING GUIDE Z=2

ART. E135 - G135



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E135.350.R	G135.350.R	35	5	14	67



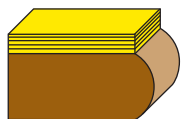
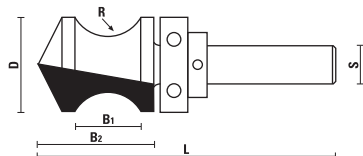
Z050.014.N



DIN 471-15

HW HAND GRIP PLUNGE BITS WITH UPPER BALL BEARING GUIDE Z=2

ART. E136 - G136



S Ø 12	S Ø 12,7 (1/2")	D	R	B1	B2	L
E136.286.R	G136.286.R	28,6	13	22	40	92



Z050.015.N



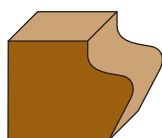
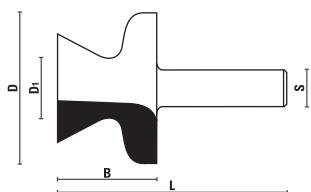
Z058.003.N



Z051.005.N

HW WINDOW SILL EDGE BITS Z=2

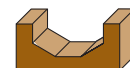
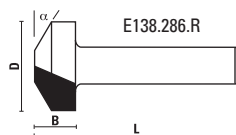
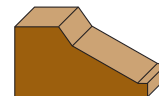
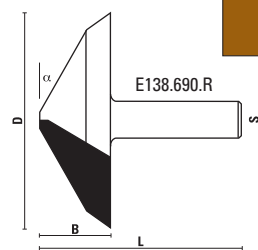
ART. E137 - G137



S Ø 12	S Ø 12,7 (1/2")	D	D1	B	L
E137.510.R	G137.510.R	51	19	32	70

HW RAISED PANEL BITS Z=2

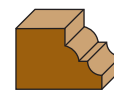
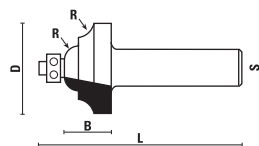
ART. E138 - G138



S Ø 12	S Ø 12,7 (1/2")	D	α	B	L
E138.286.R	G138.286.R	28,6	30°	13	70
E138.690.R	G138.690.R - max RPM 18.000	69	25°	19	57

HW DOUBLE RADIUS BITS Z=2

ART. E139 - G139



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E139.254.R	G139.254.R	25,4	4	16	63
E139.350.R	G139.350.R	35	6,4	20	67



Z050.001.N



Z053.001.N



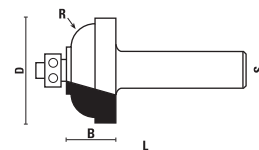
Z054.001.N



Z051.001.R

HW COVE BITS Z=2

ART. E140 - G140



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E140.286.R	G140.286.R	28,6	4,8	13	61
E140.350.R*		35	8	16	64

* Selling out



Z050.003.N



Z053.003.N



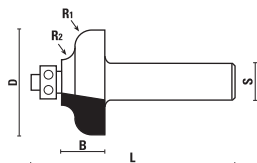
Z054.002.N



Z051.002.R

HW FLAT SUNK BEAD BITS Z=2

ART. E141 - G141



S Ø 12	S Ø 12,7 (1/2")	D	R1	R2	B	L
E141.350.R	G141.350.R	35	6	5	17,5	65



Z050.002.N



Z053.002.N



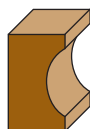
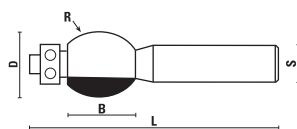
Z054.002.N



Z051.002.R

HW SUNK BEAD BITS Z=2

ART. E142 - G142



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E142.190.R	G142.190.R	19	8	13	70
E142.220.R	G142.220.R	22	12	19	78
E142.254.R	G142.254.R	25,4	32	38	98



Z050.003.N



Z053.003.N



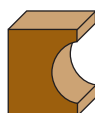
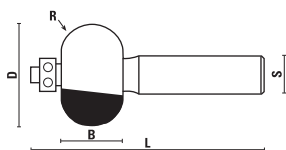
Z054.002.N



Z051.002.R

HW SUNK BEAD BITS Z=2

ART. E143 - G143



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E143.330.R	G143.330.R	33	10	20	75



Z050.003.N



Z053.003.N



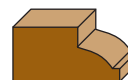
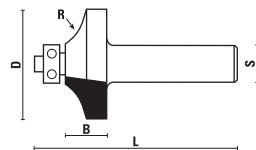
Z054.002.N



Z051.002.R

HW FLAT ROUNDING-OVER BITS Z=2

ART. E144 - G144



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E144.300.R	G144.300.R	30	12	10	57



Z050.003.N



Z053.003.N



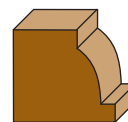
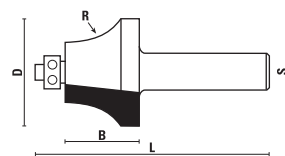
Z054.002.N



Z051.002.R

HW SUNK BEAD BITS Z=2

ART. E145 - G145



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E145.270.R	G145.270.R	27	17	17	67



Z050.003.N



Z053.003.N



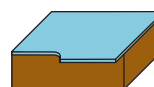
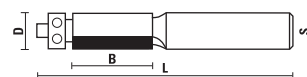
Z054.002.N



Z051.002.R

HW FLUSH TRIM BITS WITH BALL BEARING GUIDE Z=2

ART. E146 - G146



S Ø 12	S Ø 12,7 (1/2")	D	B	L
E146.126.R	G146.126.R	12,7	13	71
E146.127.R	G146.127.R	12,7	25	84
E146.128.R	G146.128.R	12,7	38	98
E146.129.R	G146.129.R	12,7	51	106



Z050.003.N



Z053.003.N



Z054.002.N



Z051.002.R

S Ø 12	S Ø 12,7 (1/2")	D	B	L
E146.190.R	G146.190.R	19	25	82
E146.191.R	G146.191.R shear angle	19	38	98
E146.192.R	G146.192.R shear angle	19	51	108



Z050.005.N



Z053.002.N



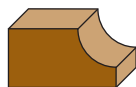
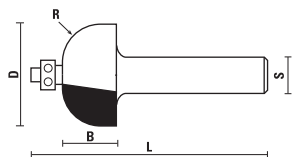
Z054.002.N



Z051.004.R

HW COVE BITS WITH BALL BEARING GUIDE

ART. E147 - G147



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L	Z
E147.222.R	G147.222.R	22,2	6,4	14	60	2
E147.254.R	G147.254.R	25,4	8	14	60	2
E147.286.R	G147.286.R	28,6	9,5	14	62	2
E147.350.R	G147.350.R	35	12,7	17	64	2
E147.410.R	G147.410.R	41	16	18	65	2



Z050.001.N



Z053.001.N



Z054.001.N



Z051.001.R

S Ø 12	S Ø 12,7 (1/2")	D	R	B	L	Z
E147.570.R	G147.570.R	57	22	32	81	2



Z050.003.N



Z053.003.N



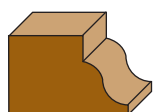
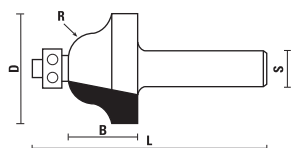
Z054.002.N



Z051.002.R

HW ROMAN OGEE BITS WITH BALL BEARING GUIDE Z=2

ART. E148 - G148



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E148.254.R	G148.254.R	25,4	4	16	63
E148.350.R	G148.350.R	35	6,4	20	67



Z050.001.N



Z053.001.N



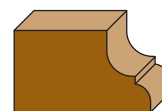
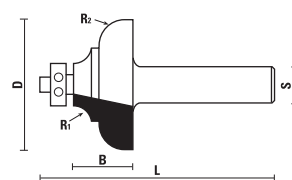
Z054.001.N



Z051.001.R

HW CLASSICAL OGEE BITS WITH BALL BEARING GUIDE Z=2

ART. E149 - G149



S Ø 12	S Ø 12,7 (1/2")	D	R1	R2	B	L
E149.286.R	G149.286.R	28,6	4	4	13	60
E149.350.R	G149.350.R	35	6	4,8	18	64
E149.380.R*		38	4,7	8	16	65
E149.510.R	G149.510.R	51	9,5	9,5	23	72

* Selling out



Z050.003.N



Z053.003.N



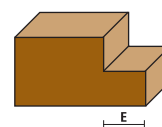
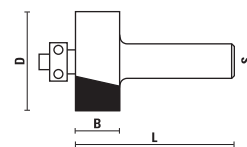
Z054.002.N



Z051.002.R

HW RABBETING BITS WITH BALL BEARING GUIDE Z=2

ART. E150 - G150



S Ø 12	S Ø 12,7 (1/2")	D	B	E	L
E150.320.R	G150.320.R	32	13	9,5	60
E150.350.R	G150.350.R	35	13	11	60

E150.850.R	G150.850.R	35	13	8-9,5-11-12,7	60
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Z050.002.N
Z050.003.N
Z050.004.N
Z050.023.N



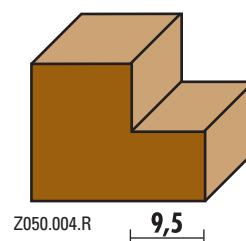
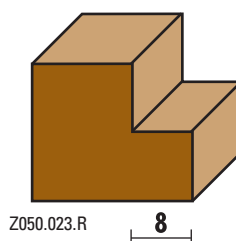
Z053.002.N
Z053.003.N
Z053.004.N



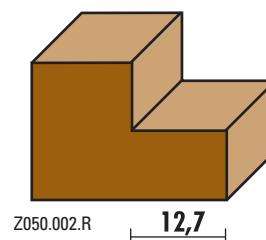
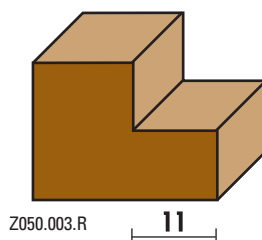
Z051.002.R

Art. E150.850.R/G150.850.R

Supplied with ball bearing set for different thickness rebates

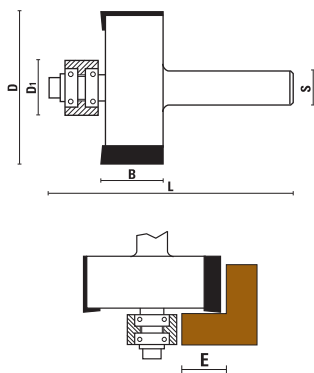


Scale 1:1



HW RABBETING BITS WITH BALL BEARING GUIDE Z=2

ART. E150 - G150



- Changing guide rings several thickness rebates 1,6 up to 18,25 mm can be obtained
 - This item is sold complete with a guide collar D=19 mm (our item Z050.903.N) to obtain rabbet width of E=16 mm.



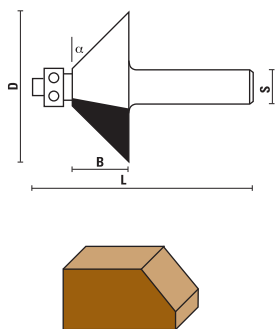
S Ø 12	S Ø 12,7 (1/2")	D	D1	B	E	L
E150.510.R	G150.510.R	51	19	22,5	16	78
Z050.007.N	Z057.010.N		Z051.008.R			

Spare rings	D1	E
Z050.901.N	14,3	18,25
Z050.902.N	16	17,5
Z050.903.N	19	16
Z050.904.N	20,6	15,2
Z050.905.N	22,2	14,3
Z050.906.N	25,4	12,7
Z050.907.N	27	12
Z050.908.N	28,6	11,1
Z050.909.N	31,8	9,5
Z050.910.N	32,5	9,25
Z050.911.N	35	8
Z050.912.N	38	6,4
Z050.913.N	39	6
Z050.914.N	41,3	4,8
Z050.915.N	44,4	3,2
Z050.916.N	47,6	1,6

Z050.999.N 16 rings set

HW BEVEL TRIM BITS WITH BALL BEARING GUIDE Z=2

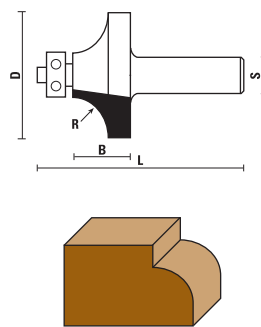
ART. E151 - G151



S Ø 12	S Ø 12,7 (1/2")	D	α	B	L
E151.351.R	G151.351.R	35	60°	20,6	60
E151.508.R	G151.508.R	50,8	45°	19	68
E151.635.R	G151.635.R	60,5	45°	25	74
Z050.003.N	Z053.003.N	Z054.002.N	Z051.002.R		

HW CORNER ROUNDING BITS WITH BALL BEARING GUIDE Z=2

ART. E152 - G152

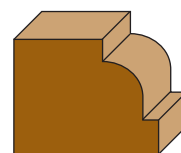


S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E152.191.R	G152.191.R	19,1	3,2	9,5	59
E152.207.R	G152.207.R	20,7	4	10	59
E152.220.R	G152.220.R	22	5	13	62
E152.254.R	G152.254.R	25,4	6,4	13	62
E152.286.R	G152.286.R	28,6	8	14	62
E152.318.R	G152.318.R	31,8	9,5	16	65
E152.327.R		32,7	10	16	65
E152.367.R		36,7	12	20	67
E152.380.R	G152.380.R	38	12,7	19	67
E152.410.R	G152.410.R*	41	14	20	70
E152.427.R	G152.427.R	42,7	15	22	70
E152.445.R	G152.445.R	44,5	16	22,2	71
E152.487.R		48,7	18	26	72
E152.508.R	G152.508.R	50,8	19	25,4	73
E152.527.R		52,7	20	27	73
E152.570.R	G152.570.R	57	22	29	78
E152.635.R	G152.635.R	63,5	25	32	81
E152.700.R	G152.700.R - max RPM 18.000	70	28	35	84
E152.726.R		72,6	30	36	85
E152.760.R	G152.760.R - max RPM 18.000	76	32	38	87
E152.825.R		82,5	35	41	90
E152.890.R	G152.890.R - max RPM 16.000	89	38	45	94

* Selling out

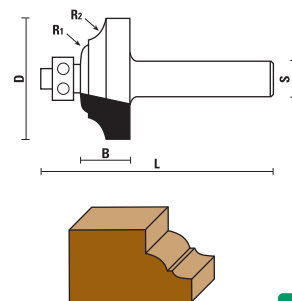


Changing the ball bearing art. Z050.003.N with art. Z050.002.N the profile shown can be obtained



HW CLASSICAL BITS WITH BALL BEARING GUIDE Z=2

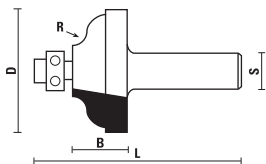
ART. E153



S Ø 12	D	R1	R2	B	L
E153.381.R	38,1	5,5	6	15,9	63,5
Z050.003.N	Z053.003.N	Z054.002.N	Z051.002.R		

HW OGEE BITS WITH BALL BEARING GUIDE Z=2

ART. E154 - G154



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E154.350.R*		35	4	13	61
E154.413.R	G154.413.R	41,3	6,4	19	67
E154.570.R*		57	9,5	25	75

* Selling out



Z050.002.N



Z053.002.N



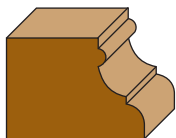
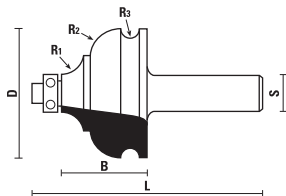
Z054.002.N



Z051.002.R

HW MOULDING BITS WITH BALL BEARING GUIDE Z=2

ART. E156 - G156



S Ø 12	S Ø 12,7 (1/2")	D	R1	R2	R3	B	L
E156.413.R	G156.413.R	41,3	6,4	9,5	3,2	28,5	75,5



Z050.003.N



Z053.003.N



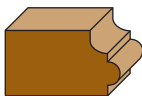
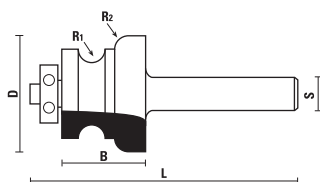
Z054.002.N



Z051.002.R

HW MOULDING BITS WITH BALL BEARING GUIDE Z=2

ART. E157 - G157



S Ø 12	S Ø 12,7 (1/2")	D	R1	R2	B	L
E157.400.R	G157.400.R	40	5,5	6	30	78



Z050.004.N



Z053.004.N



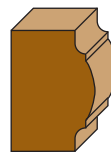
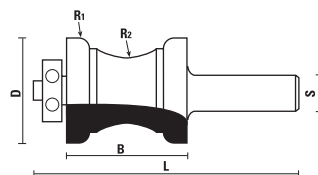
Z054.002.N



Z051.002.R

HW MOULDING BITS WITH BALL BEARING GUIDE Z=2

ART. E158 - G158



S Ø 12	S Ø 12,7 (1/2")	D	R1	R2	B	L
E158.350.R	G158.350.R	35	5	13	40	88



Z050.004.N



Z053.004.N



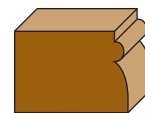
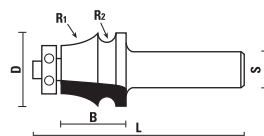
Z054.002.N



Z051.002.R

HW DRAWING LINE BITS WITH BALL BEARING GUIDE Z=2

ART. E159



S Ø 12	D	R1	R2	B	L
E159.254.R*	25,4	19	3,2	22	70

* Selling out



Z050.004.N



Z053.004.N



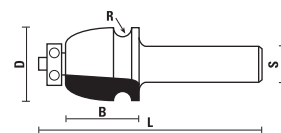
Z054.002.N



Z051.002.R

HW DRAWING LINE BITS WITH BALL BEARING GUIDE Z=2

ART. E160



S Ø 12	D	R	B	L
E160.260.R*	26	3,5	25	74

* Selling out



Z050.003.N



Z053.003.N



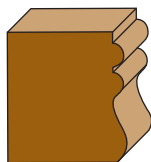
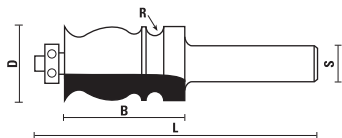
Z054.002.N







Z051.002.R

HW DRAWING LINE BITS WITH BALL BEARING GUIDE Z=2

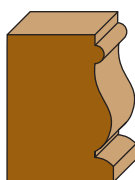
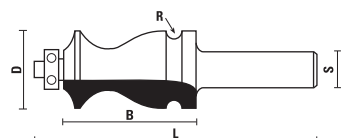
ART. E161 - G161







S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E161.254.R	G161.254.R	25,4	3,5	45	94
					
Z050.003.N	Z053.003.N	Z054.002.N	Z051.002.R		

HW ARCHITECTURAL MOULDING LINE BITS WITH BALL BEARING GUIDE Z=2

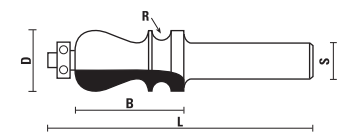
ART. E162 - G162







S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E162.270.R	G162.270.R	27	3	45	94
					
Z050.003.N	Z053.003.N	Z054.002.N	Z051.002.R		

HW ARCHITECTURAL MOULDING LINE BITS WITH BALL BEARING GUIDE Z=2

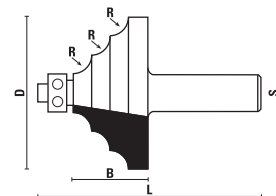
ART. E163 - G163







S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E163.220.R	G163.220.R	22	4	38	87
					
Z050.003.N	Z053.003.N	Z054.002.N	Z051.002.R		

HW MULTI RADIUS BITS Z=2

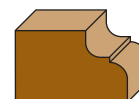
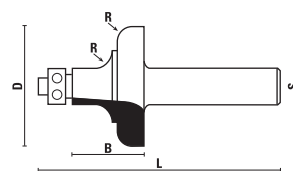
ART. E165 - G165







S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E165.470.R	G165.470.R	47	6	24	73
					
Z050.003.N	Z053.003.N	Z054.002.N	Z051.002.R		

HW MULTIPLE PROFILE BITS Z=2

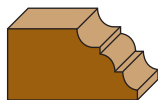
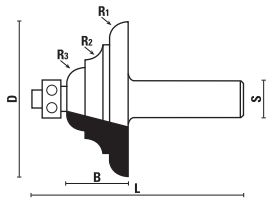
ART. E166 - G166



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E166.510.R	G166.510.R	51	8,5	31	80
					
Z050.003.N	Z053.003.N	Z054.002.N	Z051.002.R		

HW MULTIPLE PROFILE BITS Z=2

ART. E167 - G167



S Ø 12	S Ø 12,7 (1/2")	D	R1	R2	R3	B	L
E167.590.R	G167.590.R	59	6,5	6,5	7,5	22	70



Z050.003.N



Z053.003.N



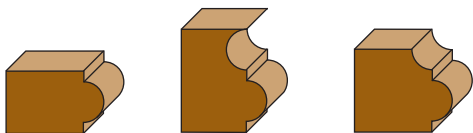
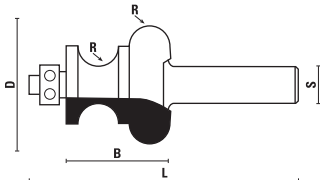
Z054.002.N



Z051.002.R

HW MULTIPLE PROFILE BITS Z=2

ART. E168 - G168



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E168.510.R	G168.510.R	51	6,4	32	80



Z050.004.N



Z053.004.N



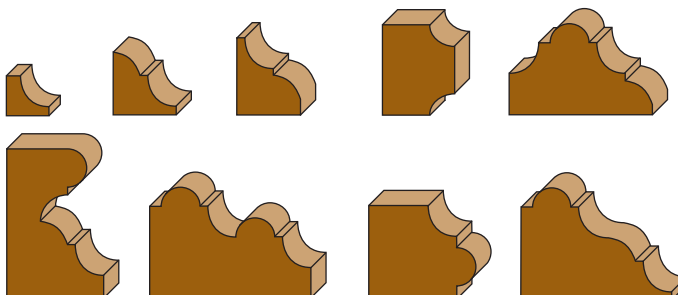
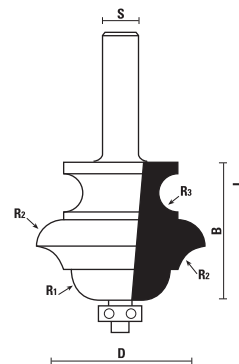
Z054.002.N



Z051.002.R

HW CLASSICAL MULTI-FORM BITS WITH BALL BEARING GUIDE Z=2

ART. E169 - G169



S Ø 12	S Ø 12,7 (1/2")	D	R1	R2	R3	B	L
E169.540.R	G169.540.R max RPM 18.000	54	9	8,5	6,4	47	96



Z050.003.N



Z053.003.N



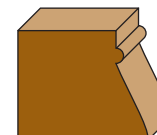
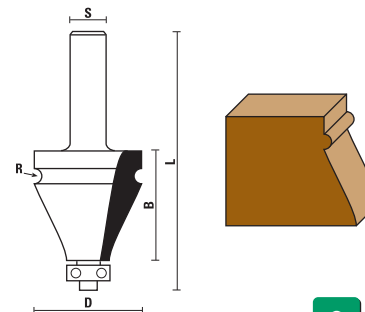
Z054.002.N



Z051.002.R

HW HANDRAIL BITS WITH BALL BEARING GUIDE Z=2

ART. E170 - G170



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E170.350.R	G170.350.R	35	3,2	37	86



Z050.003.N



Z053.003.N



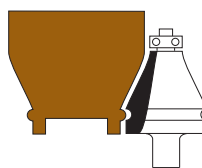
Z054.002.N



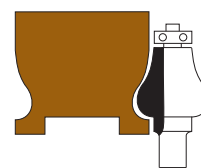
Z051.002.R

SAMPLE OF HANDRAIL PATTERNS

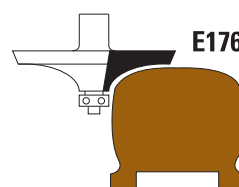
E170



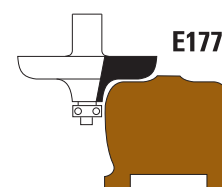
E171



E176



E177



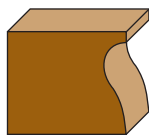
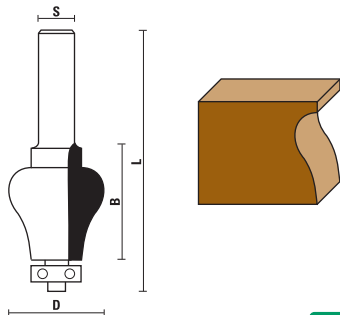
CONTACT US

(+39) 0721 28950

info@sistemiklein.com

HW HANDRAIL BITS WITH BALL BEARING GUIDE Z=2

ART. E171 - G171



S Ø 12	S Ø 12,7 (1/2")	D	R	B
E171.320.R	G171.320.R	32	38	87



Z050.003.N



Z053.003.N



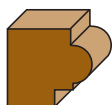
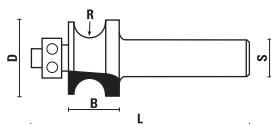
Z054.002.N



Z051.002.R

HW EDGE BEADING BITS Z=2

ART. E172 - G172



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E172.220.R	G172.220.R	22	3,2	14	63
E172.280.R	G172.280.R	28	4,8	16	66
E172.320.R	G172.320.R	32	6,4	19	67
E172.380.R	G172.380.R	38	9,5	25	74



Z050.004.N



Z053.004.N



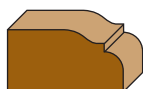
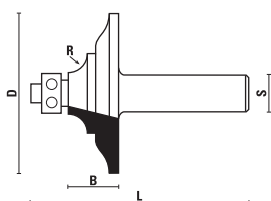
Z054.002.N



Z051.002.R

HW HANDRAIL AND TABLE EDGE BITS Z=2

ART. E173 - G173



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E173.640.R	G173.640.R - max RPM 18.000	64	6,5	20	69



Z050.003.N



Z053.003.N



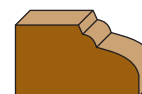
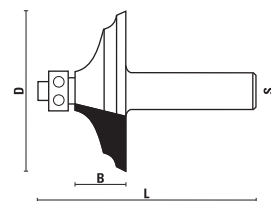
Z054.002.N



Z051.002.R

HW HANDRAIL AND TABLE EDGE BITS Z=2

ART. E174 - E174



S Ø 12	S Ø 6,4 (1/4")	D	B	L
E174.660.R	G174.660.R - max RPM 18.000	66	20	69



Z050.003.N



Z053.003.N



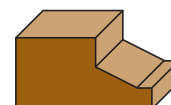
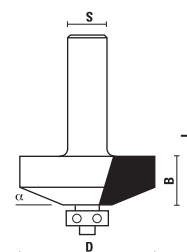
Z054.002.N



Z051.002.R

HW RAISED PANEL BITS WITH BALL BEARING GUIDE Z=2

ART. E175 - E175



S Ø 12	S Ø 12,7 (1/2")	D	α	B	L
E175.420.R	G175.420.R	42	25°	13	62



Z050.003.N



Z053.003.N



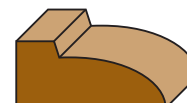
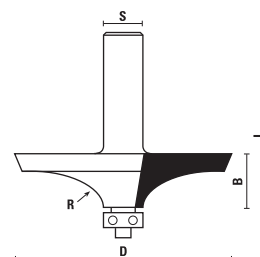
Z054.002.N



Z051.002.R

HW HANDRAIL-TABLE EDGE BITS WITH BALL BEARING GUIDE Z=2

ART. E176 - G176



S Ø 12	S Ø 6,4 (1/4")	D	R	B	L
E176.690.R	G176.690.R - max RPM 18.000	69	43	16	64



Z050.003.N



Z053.003.N



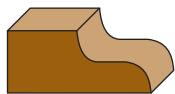
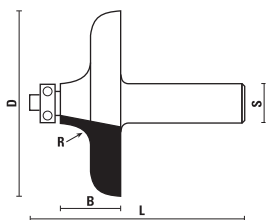
Z054.002.N







Z051.002.R

HW HANDRAIL-TABLE EDGE BITS WITH BALL BEARING GUIDE Z=2

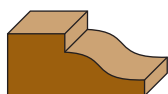
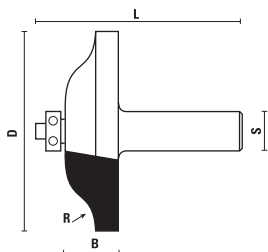
ART. E177 - G177







S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E177.640.R	G177.640.R - max RPM 18.000	64	9,5	20	69
					
Z050.003.N	Z053.003.N	Z054.002.N	Z051.002.R		

HW RAISED PANEL BITS WITH BALL BEARING GUIDE Z=2

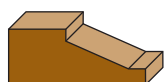
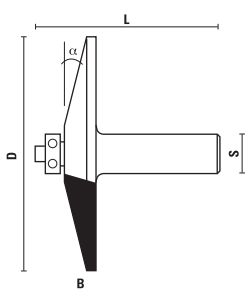
ART. E178 - G178







S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E178.670.R	G178.670.R - max RPM 18.000	67	19	17	65
E178.860.R	G178.860.R - max RPM 16.000	86	22	16	65
					
Z050.003.N	Z053.003.N	Z054.002.N	Z051.002.R		

HW RAISED PANEL BITS WITH BALL BEARING GUIDE Z=2

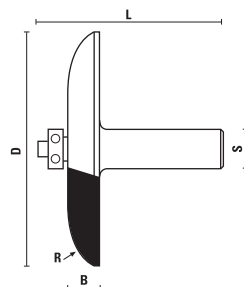
ART. E178 - G178






S Ø 12	S Ø 12,7 (1/2")	D	α	B	L
E178.861.R	G178.861.R - max RPM 16.000	86	15°	13	61
					
Z050.003.N	Z053.003.N	Z054.002.N	Z051.002.R		

HW RAISED PANEL BITS WITH BALL BEARING GUIDE Z=2

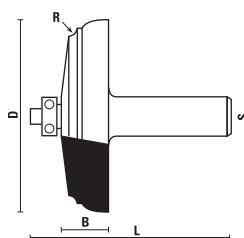
ART. E178 - G178







S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E178.862.R	G178.862.R - max RPM 16.000	86	40	13	61
					
Z050.003.N	Z053.003.N	Z054.002.N	Z051.002.R		

HW RAISED PANEL BITS WITH BALL BEARING GUIDE Z=2

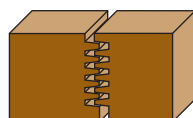
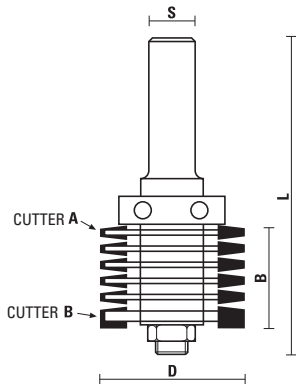
ART. E179 - G179



S Ø 12	S Ø 12,7 (1/2")	D	R	B	L
E179.640.R	G179.640.R - max RPM 18.000	64	3	13	62
					
Z050.003.N	Z053.003.N	Z054.002.N	Z051.002.R		

HW FINGER JOINT ASSEMBLY WITH BALL BEARING GUIDE Z=2

ART. E180 - G180



Working height 11 to 36 mm



S Ø 12	S Ø 12,7 (1/2")	D	B	L	Z
E180.397.R	G180.397.R	39,7	36	96	2

SPARE PARTS

Arbor

S Ø 12	S Ø 12,7 (1/2")
E117.120.R	G117.120.R

Finger cutter "A" (5 pcs.) Ø 39,2 x 1,85 d=8 Z=2
C180.500.R

Straight cutter "B" (1 pcs.) Ø 39,7 x 5,5 d=8 Z=2
C180.501.R



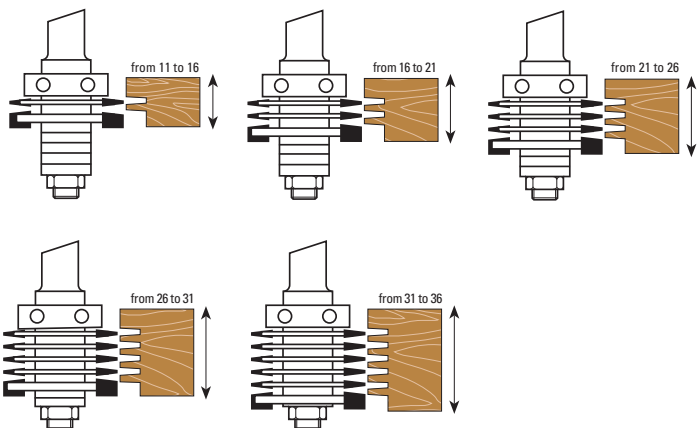
Z050.010.N



Z057.001.N - 6 pcs.

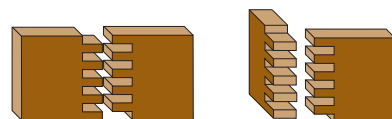
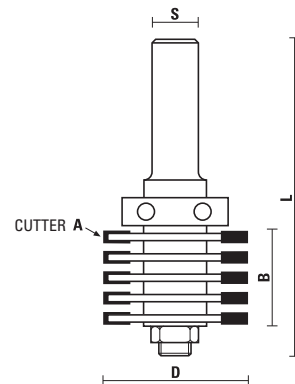


Z057.002.N - 2 pcs.
Z057.003.N - 1 pcs.
Z057.004.N - 10 pcs.



HW FINGER JOINT ASSEMBLY WITH BALL BEARING GUIDE Z=3

ART. E181 - G181



- Working height 22 to 45 mm
- Supplied with nr. 3 ball bearings for producing nr. 3 different cutting depths (E=9,8 - E=9,3 - E=6,8)



S Ø 12	S Ø 12,7 (1/2")	D	B	L	Z	E
E181.476.R	G181.476.R	47,6	36	96	3	9,8

SPARE PARTS

Arbor

S Ø 12	S Ø 12,7 (1/2")
E117.120.R	G117.120.R

Finger cutter "A" (5 pcs.) Ø 47,6 x 4 d=8 Z=3
C118.340.R



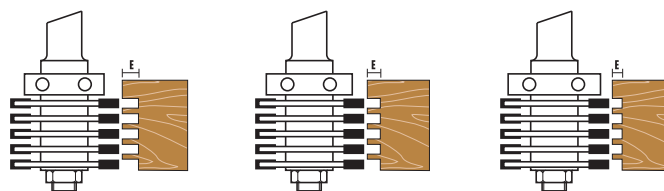
Z050.107.N - 1 pcs.
Z050.108.N - 1 pcs.
Z050.109.N - 1 pcs.



Z057.009.N - 4 pcs.



Z057.004.N - 4 pcs.
Z057.008.N - 8 pcs.



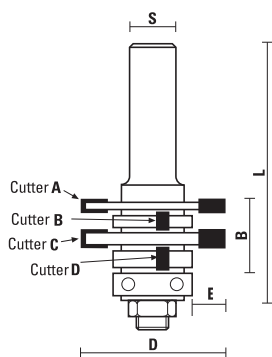
Z050.107.N
Ball bearing Ø28
E=9,8

Z050.108.N
Ball bearing Ø29
E=9,3

Z050.109.N
Ball bearing Ø34
E=6,8

HW SLOT CUTTER SET WITH BALL BEARING GUIDE Z=2

ART. E182 - G182



- For groovings 3,2 mm up to 18 mm
 - Some possible combinations to obtain different measures of grooves
 - Adding or removing the spacers included in the kit, can be obtained more measures (see drawing)



S Ø 12	S Ø 12,7 (1/2")	D	B	L	Z	E
E182.476.R	G182.476.R	47,6	3,2÷18	76	2	12,8

SPARE PARTS

Arbor

S Ø 12	S Ø 12,7 (1/2")
E117.123.R	G117.123.R

Cutter (4 pcs.)

"A" - C118.232.R	Ø 47,6 x 3,2	d=8	Z=2
"B" - C118.240.R	Ø 47,6 x 4	d=8	Z=2
"C" - C118.248.R	Ø 47,6 x 4,8	d=8	Z=2
"D" - C118.264.R	Ø 47,6 x 6,4	d=8	Z=2



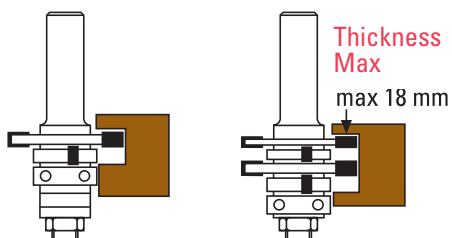
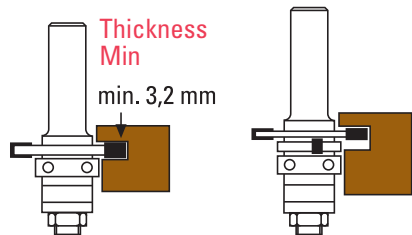
Z050.008.N - 1 pcs.



Z057.006.N - 3 pcs.
Z057.002.N - 5 pcs.

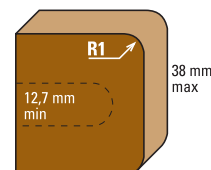
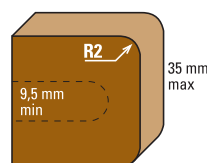
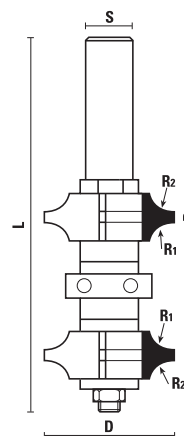


Z057.003.N - 5 pcs.
Z057.004.N - 10 pcs.



HW DOUBLE CORNER ROUND ASSEMBLY WITH BALL BEARING GUIDE Z=3

ART. E186 - G186 - C186



- R2 = 4,8 mm (working height 9,5 to 35 mm)
 - R1 = 6,4 mm (working height 12,7 to 38 mm)



S Ø 12	S Ø 12,7 (1/2")	S Ø 8	D	R1	R2	B	L
E186.350.R	G186.350.R	C186.350.R	35	6,4	4,8	14	108

SPARE PARTS

Arbor

S Ø 12	S Ø 12,7 (1/2")	S Ø 8
E117.121.R	G117.121.R	C117.081.R

Top cutter	Ø 35/Ø 8	Z=3	R1=6,4	R2=4,8
C186.500.R				

Bottom cutter	Ø 35/Ø 8	Z=3	R1=6,4	R2=4,8
C186.501.R				



Z050.008.N - 1 pcs.



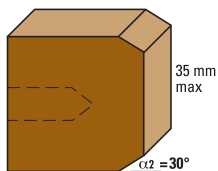
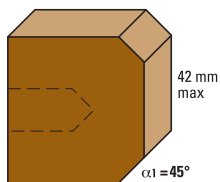
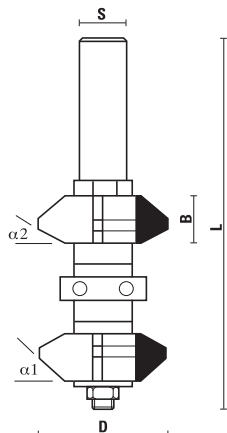
Z057.002.N - 2 pcs.
Z057.005.N - 2 pcs.
Z057.006.N - 2 pcs.



Z057.003.N - 1 pcs.
Z057.004.N - 4 pcs.

HW DOUBLE CHAMFER ASSEMBLY WITH BALL BEARING GUIDE Z=3

ART. E187 - G187 - C187



- $\alpha 1 = 45^\circ$ (Working height 0 to 42 mm)
- $\alpha 2 = 30^\circ$ (Working height 0 to 35 mm)



S Ø 12	S Ø 12,7 (1/2")	S Ø 8	D	B	$\alpha 1$	$\alpha 2$	L
E187.350.R	G187.350.R	C187.350.R	35	14	45°	30°	108

SPARE PARTS

Arbor

S Ø 12	S Ø 12,7 (1/2")	S Ø 8
E117.121.R	G117.121.R	C117.081.R

Top cutter	Ø 35/Ø 8	Z=3	$\alpha 1=45^\circ$	$\alpha 2=30^\circ$
C187.500.R				

Bottom cutter	Ø 35/Ø 8	Z=3	$\alpha 1=45^\circ$	$\alpha 2=30^\circ$
C187.501.R				



Z050.008.N - 1 pcs.



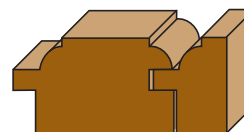
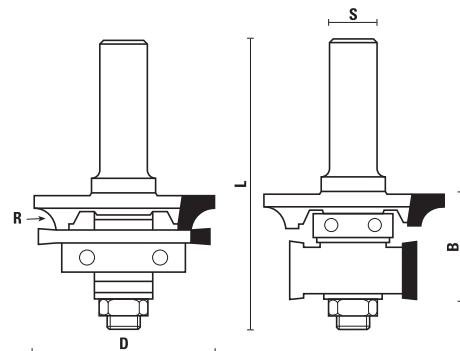
Z057.002.N - 3 pcs.
Z057.005.N - 2 pcs.
Z057.006.N - 2 pcs.



Z057.003.N - 1 pcs.
Z057.004.N - 4 pcs.

HW BEAD PANELING ASSEMBLY WITH BALL BEARING GUIDE Z=2

ART. E188 - G188 - C188



S Ø 12	S Ø 12,7 (1/2")	S Ø 8	D	R	B	L
E188.490.R	G188.490.R	C188.490.R	49	6	30	80

SPARE PARTS

Arbor

S Ø 12	S Ø 12,7 (1/2")	S Ø 8
E117.122.R	G117.122.R	C117.082.R

Profile cutter	Ø 49 x 9	d=8	Z=2
C188.500.R			

Grooving cutter	Ø 46 x 4	d=8	Z=2
C188.501.R			

Rabbeting cutter	Ø 33,5 x 17,5	d=8	Z=2
C188.502.R			



Z050.008.N - 1 pcs.
Z050.016.N - 1 pcs.



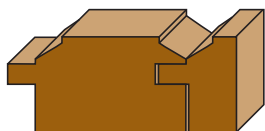
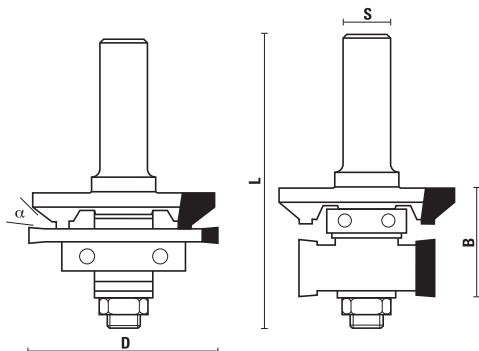
Z057.002.N - 2 pcs.
Z057.005.N - 3 pcs.



Z057.003.N - 1 pcs.
Z057.007.N - 1 pcs.
Z057.004.N - 3 pcs.
Z057.008.N - 1 pcs.

HW V PANELING ASSEMBLY WITH BALL BEARING GUIDE Z=2

ART. E189 - G189 - C189



S Ø 12	S Ø 12,7 (1/2")	S Ø 8	D	α	B	L
E189.425.R	G189.425.R	C189.425.R	42,5	45°	30	80

SPARE PARTS

Arbor		
S Ø 12	S Ø 12,7 (1/2")	S Ø 8
E117.122.R	G117.122.R	C117.082.R


Profile cutter 45°	Ø 42,5 x 9	d=8	Z=2
C189.500.R			

Grooving cutter	Ø 46 x 4	d=8	Z=2
C188.501.R			

Rabbeting cutter	Ø 33,5 x 17,5	d=8	Z=2
C188.502.R			

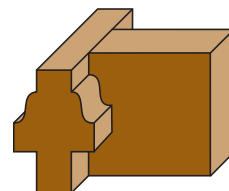
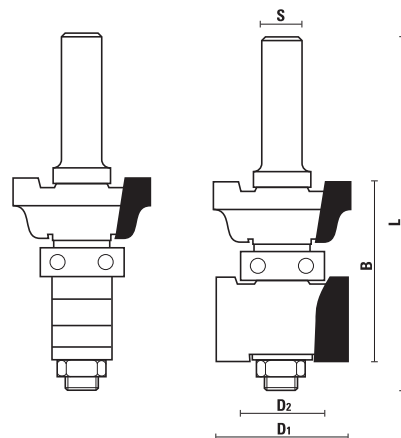
 Z050.008.N - 1 pcs.
Z050.016.N - 1 pcs.

 Z057.002.N - 2 pcs.
Z057.005.N - 3 pcs.

 Z057.003.N - 1 pcs.
Z057.007.N - 1 pcs.
Z057.004.N - 3 pcs.
Z057.008.N - 1 pcs.

HW OGEE WINDOW SASH ASSEMBLY WITH BALL BEARING GUIDE Z=2

ART. E191 - G191 - C191



S Ø 12	S Ø 12,7 (1/2")	S Ø 8	D1	D2	B	L
E191.350.R	G191.350.R	C191.350.R	35	22	47	96

SPARE PARTS


Arbor		
S Ø 12	S Ø 12,7 (1/2")	S Ø 8
E117.120.R	G117.120.R	C117.080.R

Profile cutter	Ø 35 x 17	d=8	Z=2
C191.500.R			

Rabbeting cutter	Ø 35 x 22	d=8	Z=2
C191.501.R			

 Z050.008.N - 1 pcs.

 Z057.005.N - 1 pcs.
Z057.006.N - 3 pcs.

 Z057.003.N - 1 pcs.
Z057.004.N - 3 pcs.
Z057.008.N - 1 pcs.

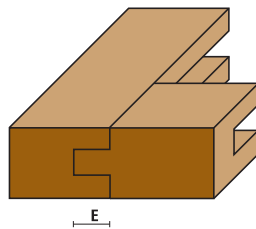
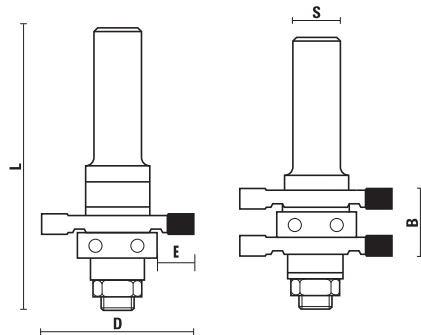
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HW TONGUE AND GROOVE ASSEMBLY WITH BALL BEARING GUIDE Z=2

ART. E193 - G193 - C193



S Ø 12	S Ø 12,7 (1/2")	S Ø 8	D	B	L	E
E193.410.R	G193.410.R		41	19	76	9,5
		C193.410.R	41	19	70	9,5

SPARE PARTS

Arbor

S Ø 12	S Ø 12,7 (1/2")	S Ø 8
E117.123.R	G117.123.R	C117.079.R

Grooving cutter (2 pcs.)	Ø 41 x 6,4	d=8	Z=2
C193.500.R			



Z050.008.N - 1 pcs.



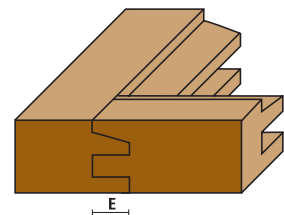
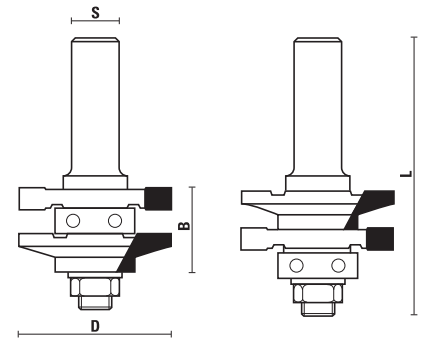
Z057.002.N - 1 pcs.
Z057.006.N - 2 pcs.



Z057.004.N - 4 pcs.
Z057.008.N - 2 pcs.

HW STILE AND RAIL ASSEMBLY WITH BALL BEARING GUIDE Z=2

ART. E194 - G194 - C194



S Ø 12	S Ø 12,7 (1/2")	S Ø 8	D	B	L	E
E194.410.R	G194.410.R		41	22	76	9,5
		C194.410.R	41	22	70	9,5

SPARE PARTS

Arbor

S Ø 12	S Ø 12,7 (1/2")	S Ø 8
E117.123.R	G117.123.R	C117.079.R

Profile cutter	Ø 41 x 11	d=8	Z=2
C194.500.R			

Grooving cutter	Ø 41 x 6,4	d=8	Z=2
C193.500.R			



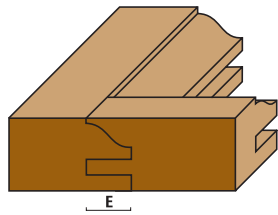
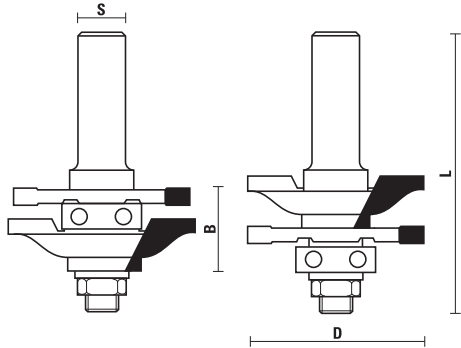
Z050.008.N - 1 pcs.



Z057.004.N - 3 pcs.
Z057.008.N - 1 pcs.

HW STILE AND RAIL ASSEMBLY WITH BALL BEARING GUIDE Z=2

ART. E195 - G195 - C195



S Ø 12	S Ø 12,7 (1/2")	S Ø 8	D	B	L	E
E195.460.R	G195.460.R		46	22	76	12
		C195.460.R	46	22	70	12

SPARE PARTS

Arbor		
S Ø 12	S Ø 12,7 (1/2")	S Ø 8
E117.123.R	G117.123.R	C117.079.R

Profile cutter	Ø 46 x 15	d=8	Z=2
C195.500.R			

Grooving cutter	Ø 46 x 4	d=8	Z=2
C188.501.R			



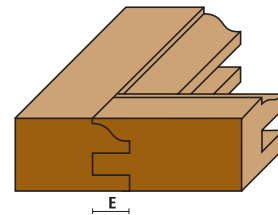
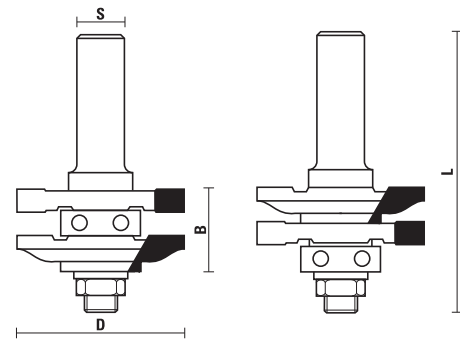
Z050.008.N - 1 pcs.



Z057.004.N - 3 pcs.
Z057.008.N - 1 pcs.

HW STILE AND RAIL ASSEMBLY WITH BALL BEARING GUIDE Z=2

ART. E196 - G196 - C196



S Ø 12	S Ø 12,7 (1/2")	S Ø 8	D	B	L	E
E196.410.R	G196.410.R		41	22	76	9,5
		C196.410.R	41	22	70	9,5

SPARE PARTS

Arbor		
S Ø 12	S Ø 12,7 (1/2")	S Ø 8
E117.123.R	G117.123.R	C117.079.R

Profile cutter	Ø 41 x 11	d=8	Z=2
C196.500.R			

Grooving cutter	Ø 41 x 6,4	d=8	Z=2
C193.500.R			



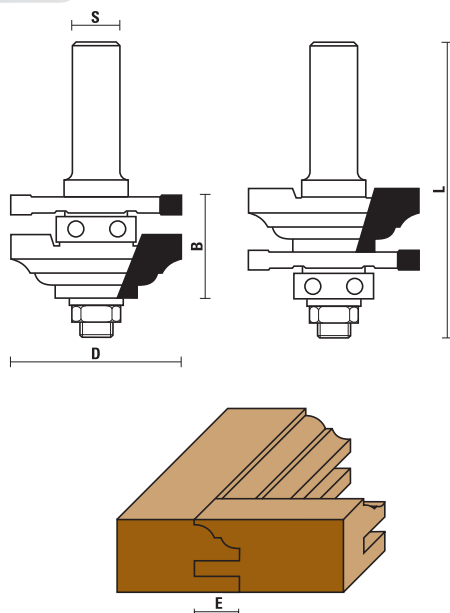
Z050.008.N - 1 pcs.



Z057.004.N - 2 pcs.
Z057.008.N - 2 pcs.

HW STILE AND RAIL ASSEMBLY WITH BALL BEARING GUIDE Z=2

ART. E197 - G197 - C197



S Ø 12	S Ø 12,7 (1/2")	S Ø 8	D	B	L	E
E197.460.R	G197.460.R		46	22	76	12
		C197.460.R	46	22	70	12

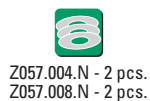
SPARE PARTS

Arbor

S Ø 12	S Ø 12,7 (1/2")	S Ø 8
E117.123.R	G117.123.R	C117.079.R

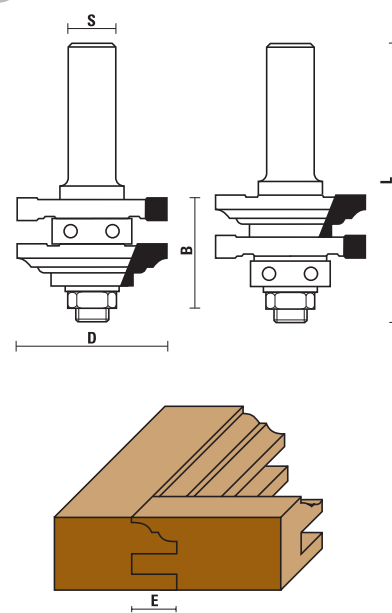
Profile cutter	Ø 46 x 15	d=8	Z=2
C197.500.R			

Grooving cutter	Ø 46 x 4	d=8	Z=2
C188.501.R			



HW STILE AND RAIL ASSEMBLY WITH BALL BEARING GUIDE Z=2

ART. E198 - G198 - C198



S Ø 12	S Ø 12,7 (1/2")	S Ø 8	D	B	L	E
E198.410.R	G198.410.R		41	22	76	9,5
		C198.410.R	41	22	70	9,5

SPARE PARTS

Arbor

S Ø 12	S Ø 12,7 (1/2")	S Ø 8
E117.123.R	G117.123.R	C117.079.R

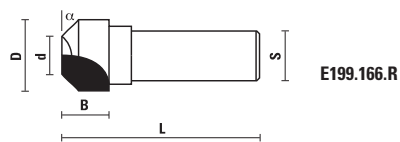
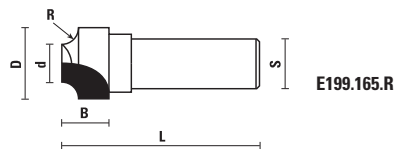
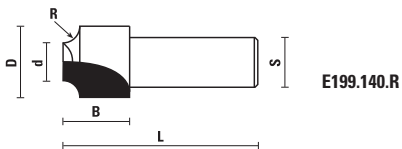
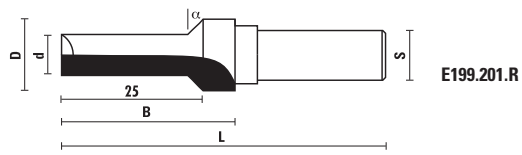
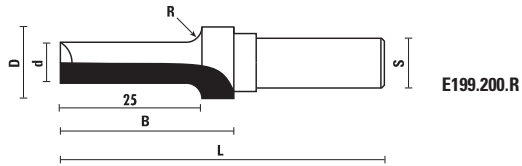
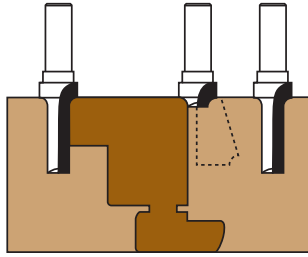
Profile cutter	Ø 41 x 11	d=8	Z=2
C198.500.R			

Grooving cutter	Ø 41 x 6,4	d=8	Z=2
C193.500.R			



HW BEADING BITS FOR RADIUS WINDOW Z=2

ART. E199 - C199

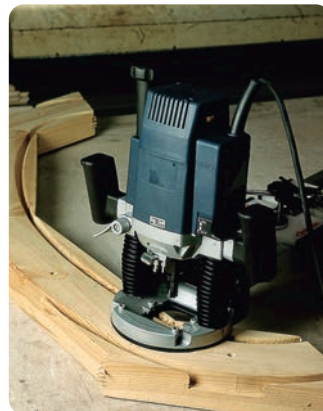
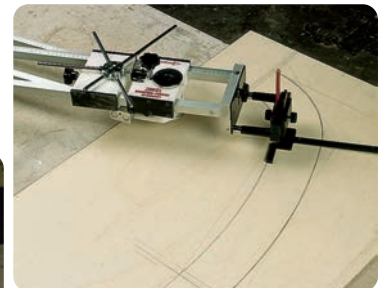
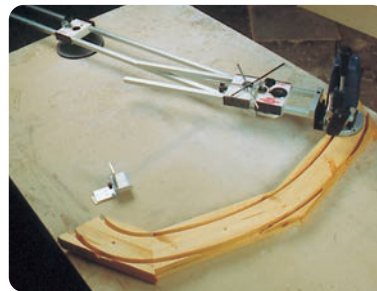


- To use on "ARKADE + ZINKEL" or on similar equipment
 - Bits for glass-fixing lath see item Art. T141.061.R (HW) page 7.38
 and Art. U211.061.R (HS) page 8.08



S Ø 12	S Ø 8	D	d	R	α	B	L
E199.140.R	C199.140.R	14	6	3	16	46	
E199.165.R	C199.165.R	16,5	8,5	3	11	46	
E199.166.R	C199.166.R	16,5	8,5		45°	11	46
E199.200.R	C199.200.R	20	12	3	33	68	
E199.201.R	C199.201.R	20	12		45°	33	68

The device for any single and double radius or elliptical frames

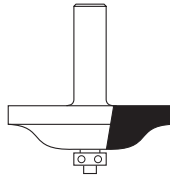


See section 16 page 16.03

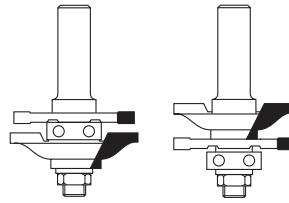
2 PIECE SET FOR CABINET DOORS MAKER "TYPE 1"

ART. X021

- Set including stile and rail bit, raised panel bit.
- Practical plastic case.



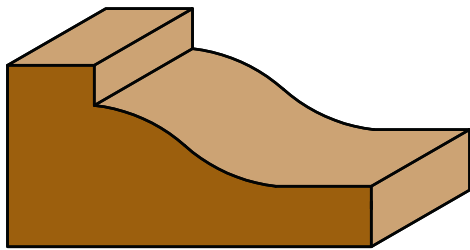
E178.860.R



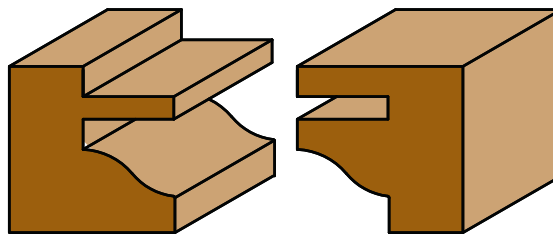
E195.460.R

Item

X021.012.R (S Ø 12)	X021.127.R (S Ø 12,7 (1/2"))
2-pcs router bit set:	2-pcs router bit set:
E178.860.R	G178.860.R
E195.460.R	G195.460.R



E178.860.R



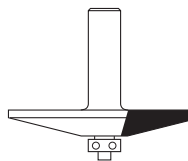
E195.460.R

Scale 1:1

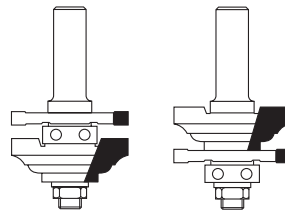
2 PIECE SET FOR CABINET DOORS MAKER "TYPE 2"

ART. X022

- Set including stile and rail bit, raised panel bit.
- Practical plastic case.



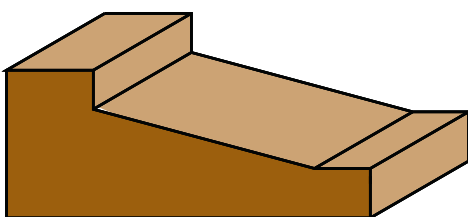
E178.861.R



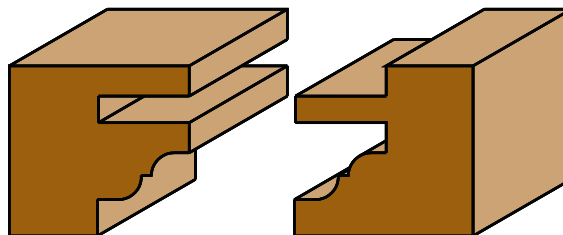
E197.460.R

Item

X022.012.R (S Ø 12)	X022.127.R (S Ø 12,7 (1/2"))
2-pcs router bit set:	2-pcs router bit set:
E178.861.R	G178.861.R
E197.460.R	G197.460.R



E178.861.R



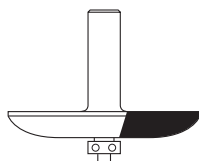
E197.460.R

Scale 1:1

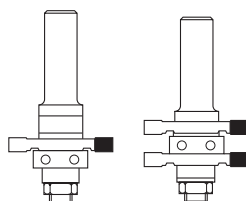
2 PIECE SET FOR CABINET DOORS MAKER "TYPE 3"

ART. X023

- Set including stile and rail bit, raised panel bit.
- Practical plastic case.

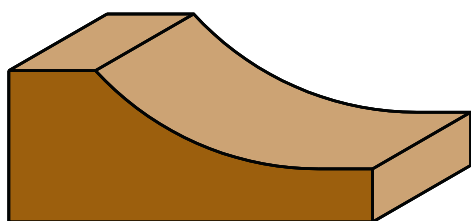


E178.862.R

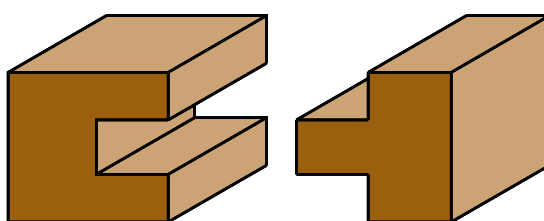


E193.410.R

Item	
X023.012.R (S Ø 12)	X023.127.R (S Ø 12,7 (1/2"))
2-pcs router bit set:	2-pcs router bit set:
E178.862.R	G178.862.R
E193.410.R	G193.410.R



E178.862.R



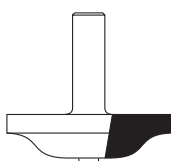
E193.410.R

Scale 1:1

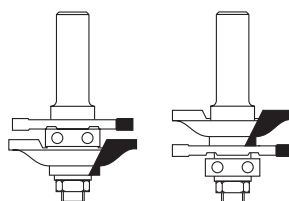
3 PIECE SET FOR CABINET DOORS MAKER AND JOINTS "TYPE 1"

ART. X024

- Set including stile and rail bit, raised panel bit and slot cutter.
- Practical plastic case.



E178.860.R

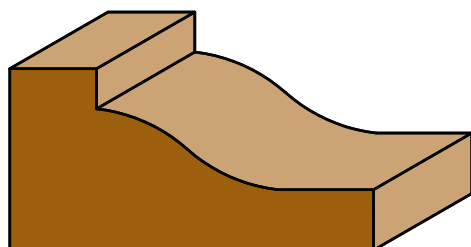


E195.460.R

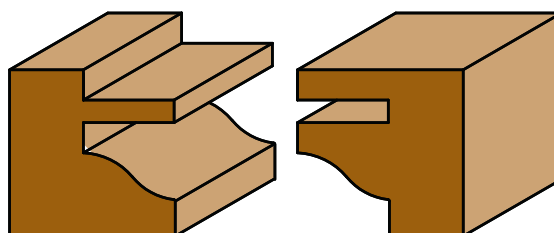


E182.476.R

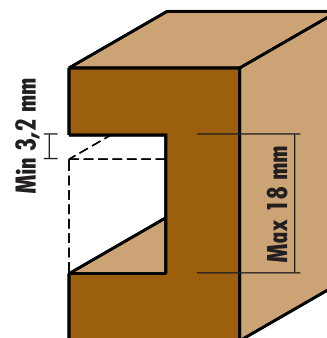
Item	
X024.012.R (S Ø 12)	X024.127.R (S Ø 12,7 (1/2"))
3-pcs router bit set:	3-pcs router bit set:
E178.860.R	G178.860.R
E195.460.R	G195.460.R
E182.476.R	G182.476.R



E178.860.R



E195.460.R



E182.476.R

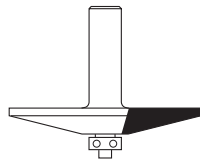
Scale 1:1

3 PIECE SET FOR CABINET DOORS MAKER AND JOINTS "TYPE 2"

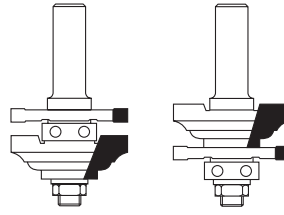
ART. X025

- Set including stile and rail bit, raised panel bit and slot cutter.

- Practical plastic case.



E178.861.R



E197.460.R



E182.476.R

Item

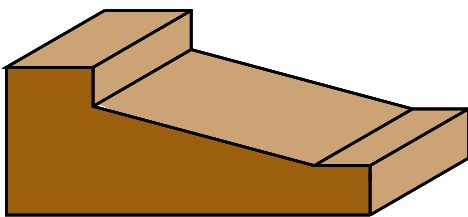
X025.012.R (S Ø 12) X025.127.R (S Ø 12,7 (1/2"))

3-pcs router bit set: 3-pcs router bit set:

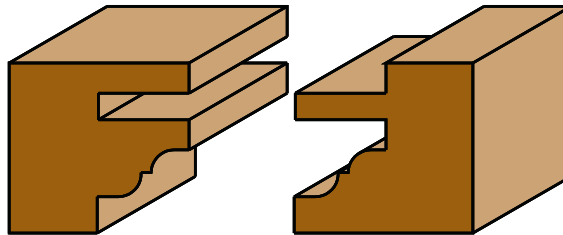
E178.861.R G178.861.R

E197.460.R G197.460.R

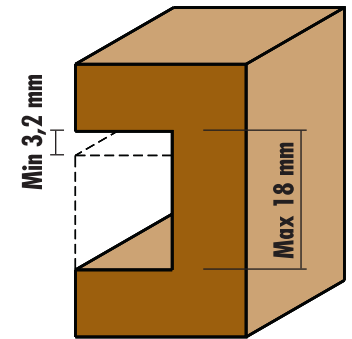
E182.476.R G182.476.R



E178.861.R



E197.460.R



E182.476.R

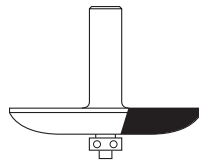
Scale 1:1

3 PIECE SET FOR CABINET DOORS MAKER AND JOINTS "TYPE 3"

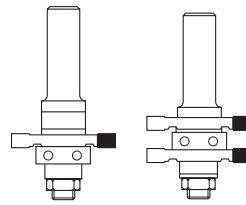
ART. X026

- Set including stile and rail bit, raised panel bit and slot cutter.

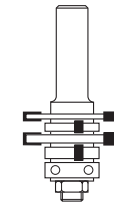
- Practical plastic case.



E178.862.R



E193.410.R



E182.476.R

Item

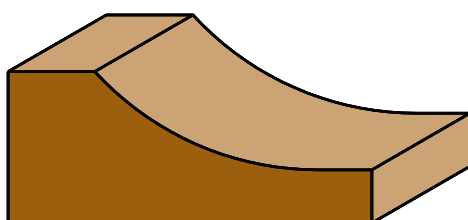
X026.012.R (S Ø 12) X026.127.R (S Ø 12,7 (1/2"))

3-pcs router bit set: 3-pcs router bit set:

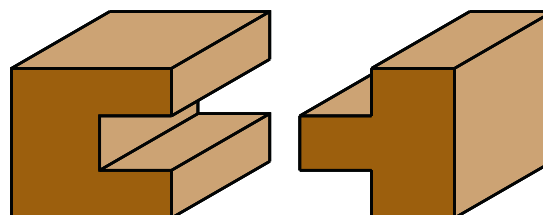
E178.862.R G178.862.R

E193.410.R G193.410.R

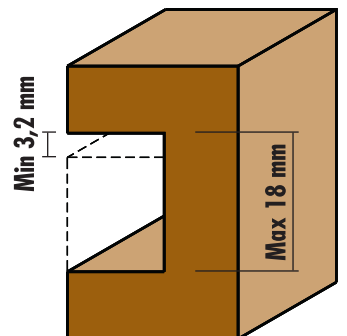
E182.476.R G182.476.R



E178.862.R



E193.410.R



E182.476.R

Scale 1:1

DISPLAY UNITS

BASE
1 modular panel

Little display unit, suitable for those who mean to start with a sufficient choice for a small number of customers.

Dimensions (cm): 110 (L) x 90 (H) x 30 (P)



STANDARD
2 modular panels

Consisting of two "Basic model" displays, can be composed according to the customer's requirements. It is suitable for anyone who wants to have a good choice of items in view to improve his offer.

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

PROFESSIONAL
3 modular panels

Large display, consisting of three "Basic model" units allows you to show a wide choice of items.

By the combination of two or more displays, you can equip a wall and meet all professional woodworkers' requirements.

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

