

ROUTER BITS

Standard & Solid surface / Insert router bits

INDEX ROUTER BITS - TABLE OF CONTENTS

PRODUCT CATEGORY	PAGE NO.
"BOX JOINT" SLOTTING CUTTER SET	F33
"V" GROOVING VEINING BITS	F25
"V" GROOVING BITS	F23 - F24
4 RABBETING DEPTH ROUTER BIT SETS	F13
7 RABBETING DEPTH ROUTER BIT SETS	F14
ADJUSTABLE 3-WING UPPER CHAMFERING SET	F78
ADJUSTABLE ROUNDING OVER SET	F77 - F78
ANGULAR TONGUE AND GROOVE CUTTER SET	F35
ARBOR FOR CNC ROUTERS	F118
ARBORS FOR ROUTER CUTTERS	F118
BALL GROOVING BITS	F27
BEAD AND COVE EDGE MOULDING BIT	F90
BEAD AND COVE MOULDING BITS	F91
BEAD AND COVE PROFILE	F53 - F54
BEAD AND COVE STILE AND RAIL	F66, F68
BEAD AND COVE WITH TOP BEAD MOULDING BIT	F90
BEAD PROFILE	F50 - F51
BEAD PROFILE WITH FLAT BOTTOM	F42
BEAD PROFILE WITH ROUND NOSE BOTTOM	F41, F58
BEAD STILE AND RAIL	F65, F71
BEAD WITH ELLIPSE OGEE MOULDING BIT	F89
BEADED CAVETTO ARCHITECTURAL MOULDING BIT	F99
BEADED CAVETTO EDGE MOULDING BIT	F88
BEADED CAVETTO WITH BEAK ARCHITECTURAL BIT	F98
BEADED CONGE ARCHITECTURAL MOULDING BIT	F98
BEADED EDGE MOULDING BIT	F87
BEADED SCOTIA WITH THUMB ARCHITECTURAL	F99
BEADED SPLAY HANDRAIL BIT	F103
BEADED VASE WITH THUMBNAIL ARCHITECTURAL	F98
BEVEL BITS	F75
BEVEL GLUE JOINTS BITS	F39
BEVEL HOB BITS - SOLID SURFACE	F108
BEVEL TRIM BIT	F20 - F21
BEVEL TRIM INSERT BITS	F23
BEVEL UNDERMOUNT BOWL BITS - SOLID SURFACE	F107
BOWL AND COUNTERTOP TRIM BIT - SOLID SURFACE	F110

PRODUCT CATEGORY	PAGE NO.
BOWL AND TRAY BITS	F28
CAVETTO HANDRAIL BIT	F102
CAVETTO WITH BEAD MOULDING BIT	F93
CHAMFER FINGER GRIP BIT	F74
CLASSICAL OGEE MOULDING BIT	F94
COMBINATION BEVEL AND FLUSH LAMINATE TRIM BITS	F20
CONVEX BEADING BITS	F82 - F83
CORE BOX BIT	F28
CORNER BEADING PROFILE	F81
CORNER COVE BITS - SOLID SURFACE	F109
CORNER ROUNDING BITS - SOLID SURFACE	F105
COUNTERTOP BITS - SOLID SURFACE	F106
COUNTERTOP EDGE BIT - SOLID SURFACE	F110
COVE AND BEAD PROFILE WITH FLAT BOTTOM	F58
COVE AND BEAD PROFILE WITHOUT FILLET	F54
COVE AND BEAD WITH TOP COVE MOULDING BIT	F94
COVE BEADING BITS	F82
COVE BIT	F109
COVE PROFILE	F52
COVE PROFILE FOR RAISED PANELS	F59 - F60, F62
COVE PROFILE WITH TOP AND BOTTOM FILLET	F53
COVE PROFILE WITHOUT FILLET	F52
COVE STYLE FINGER GRIP BITS	F74
COVED ASTRAGAL MOULDING BITS	F93
DOUBLE BEADED VASE ARCHITECTURAL MOULDING BIT	F99
DOUBLE BEADING PROFILE BIT	F85
DOUBLE ECHINUS CROWN MOULDING BIT	F97
DOUBLE LEAF-EDGE BEADING PROFILE BIT	F85
DOUBLE ROUND OVER/BEAD PROFILE WITH FILLET	F51
DOVETAIL BITS	F40
DOWNSHEAR ROUTER BITS	F8
DRAWER LOCK BITS	F38
DRAWING LINE BEADING PROFILE	F82
ECHINUS MOULDING BIT	F91
ECHINUS WITH COVE MOULDING BIT	F92
EDGE BEADING PROFILE	F82

PRODUCT CATEGORY	PAGE NO.
EDGE BEVEL COUNTERTOP BIT - SOLID SURFACE	F107
EDGE COVE TRIMMING BIT	F106
EDGE ROUND OVER BITS	F76
ELLIPSE OGEE PROFILE WITH FLAT BOTTOM	F42
ELLIPSE OGEE PROFILE WITH TOP FILLET	F56
EXTERNAL CIRCLIP	F117
FACE INLAY BITS	F111
FINGER GRIP BIT	F73
FINGER JOINT ROUTER CUTTER SET	F34
FLAT BOTTOM VEINING BITS	F26
FLAT/SPRING WASHERS	F116
FLUSH AND BEVEL TRIM BITS	F20
FLUSH TRIM BITS	F16 - F17
FLUSH TRIM INSERT ROUTER BITS	F17 - F19
FLUSH TRIM WITH PLUNGE POINT BITS	F16
FLUTED OGEE WITH BEAK CROWN MOULDING BIT	F95
GLUE JOINT BITS	F38
HALF-ROUND BITS	F80
HEX NUTS FOR ROUTER ARBORS	F116
INLAY FLUSH TRIMMING BITS 0-DEGREES	F111
INVERTED ROUNDING OVER BITS - SOLID SURFACE	F105
KEYHOLE BIT	F27
LEAF-EDGE BEADING PROFILE BITS	F86
LEFT-HAND ROUTER BITS	F6
LOCK MITER BITS 90° CORNER	F39
LOCK RINGS	F117
MATCHING COVE AND BEAD PROFILES	F48
MATCHING QUARTER ROUND AND COVE PROFILES	F47
MORTISING BITS	F10
MULTI-PURPOSE SLOTTING CUTTER SET	F33
MULTI-RABBETING ROUTER BIT SETS	F15
MULTI-PROFILE BIT	F49
NYLON INSERT LOCKNUT	F116
OGEE EDGE MOULDING BIT	F88 - F89
OGEE PROFILE FOR RAISED PANELS	F59 - F60, F63
OGEE PROFILE WITH FILLET	F56

PRODUCT CATEGORY	PAGE NO.
OGEE PROFILE WITH FLAT BOTTOM	F43
OGEE PROFILE WITH ROUND NOSE BOTTOM	F41
OGEE PROFILE WITHOUT FILLET	F56
OGEE STILE AND RAIL	F67, F69, F71
OGEE WITH BEAD EDGE MOULDING BIT	F89
OGEE WITH BEAK CROWN MOULDING BIT	F97
OGEE WITH FILLET MOULDING BIT	F95
OGEE WITH SPLAY EDGE MOULDING BIT	F88
OUTER EDGE DOOR TRIMMER BIT	F73
OVERHAND 1/6" 5° ROUGH-OUT BIT	F105
OVOLO CAVETTO WITH BEAK CROWN MOULDING BITS	F96
PANEL PILOT AND TRIM BITS	F18
PROVINCIAL PROFILE FOR RAISED PANELS	F59, F61, F64
PROVINCIAL PROFILE WITH COVE AND BEAD PROFILE	F61
PROVINCIAL STILE AND RAIL	F67, F70
PROVINCIAL PROFILE	F45, F55
QUARTER ROUND WITH OGEE HANDRAIL BIT	F101
RABBETING BITS	F12
RADIUS T-SLOT BITS	F30
RADIUSED EDGE BEADING PROFILE	F82
RAISED WASHERS (DUST SHIELDS)	F116
RIP AND SLOTTING BIT	F25
ROMAN OGEE BIT - SOLID SURFACE	F110
ROMAN OGEE PROFILE	F55
ROMAN OGEE STILE AND RAIL	F69
ROMAN OGEE UNDERMOUNT BOWL BITS - SOLID SURFACE	F109
ROMAN OGEE WINDOW SASH ASSEMBLY	F72
ROMAN OGEE WITH BEAD MOULDING BIT	F92
ROUND BOTTOM VEINING BITS	F25
ROUND NOSE BITS	F29
ROUND OVER STILE AND RAIL	F70
ROUND OVER WITH CAVETTO HANDRAIL BIT	F102
ROUNDING OVER AND BEAD PROFILE	F44
ROUNDING OVER BITS	F76
ROUNDING OVER BITS - SOLID SURFACE	F106
ROUNDING OVER PROFILE	F44

PRODUCT CATEGORY	PAGE NO.
ROUNDING OVER UNDERMOUNT BOWL BITS - SOLID SURFACE	F108
ROUTER BIT ADAPTORS	F118
SASH BAR JOINT BITS	F72
SCOTIA WITH FILLET HANDRAIL BIT	F103
SCREWS	F116
SHALLOW BEAD AND COVE STILE AND RAIL	F68
SLOTTING CUTTER ASSEMBLY	F32
SLOTTING CUTTERS ONLY	F31
SOLID CARBIDE ENGRAVING BITS	F24
SPACERS - FLAT SHIMS	F117
SPLAYED CAVETTO CROWN MOULDING BIT	F96
SPLINE GLUE JOINT BITS	F38
STAGGER TOOTH STRAIGHT ROUTER BITS	F9
STAGGERED TOOTH INSERT FLUSH TRIM BITS	F19
STRAIGHT INSERT ROUTER BITS	F6 - F7
STRAIGHT ROUTER BITS	F1 - F6
SUPER-GLIDE BALL BEARING GUIDES	F115
SUPER-GLIDE RADIUS BALL BEARING GUIDES	F115
TALL OGEE PROFILE WITH FLAT BOTTOM	F43
TEE/BUMPER MOULDING GROOVING BIT	F26 - F27
THREADED ARBOR	F10, F118
THUMBNAIL HANDRAIL BIT	F101
THUMBNAIL PROFILE	F46, F57
THUMBNAIL PROFILE WITH ROUND NOSE BOTTOM	F46
THUMBNAIL WITH QUARTER ROUND HANDRAIL BIT	F101
TONGUE AND GROOVE	F37
TONGUE AND GROOVE "V" PANEL BIT SET	F36
TONGUE AND GROOVE CUTTER SET	F34
TRADITIONAL WITH BEAD AND COVE EDGE MOULDING	F87
TRADITIONAL WITH DOUBLE BEAD EDGE MOULDING BIT	F87
TRIM CUTTER ASSEMBLIES	F22
TRIM CUTTER	F22
TRIPLE BEAD MOULDING BIT	F94
TRIPLE BEADING PROFILE BIT	F84 - F85
TRIPLE FLUTE COVE PROFILE BIT	F83
TRUE BULL NOSE BITS	F79

ROUTER BITS - TABLE OF CONTENTS

PRODUCT CATEGORY	PAGE NO.
T-SLOT BITS	F30
UNDERMOUNT BOWL BITS - SOLID SURFACE	F108
UNDERMOUNT PROFILE BOWL BITS - SOLID SURFACE	F107
VARIED BEAD PROFILE BIT	F84
WAVY EDGE BIT	F55

ROUTER BITS - ALPHA-NUMERIC INDEX

PART NO.	PAGE NO.
AR11 - AR23	F118
AR12MB - AR14MB	F10, F118
ARCNC	F118
B01 - B84	F115
D1A15A - D1A22A	F8
D1B22 - D1B45A	F21
D1C - D1CA	F17
D1D22 - D1D45A	F23
D1E - D1EA	F6
FRB01-5 - FRB01-6	F43
FRB01-7 - FRB01-8	F46
FRB02 - FRB04	F42
FRB05	F45
FRB05-1	F46
FRB05-3 - FRB05-4	F44
FRB06 - FRB09	F43
FRB10 - FRB13	F41
FRB100 - FRB102	F87
FRB104	F88
FRB105	F90
FRB106 - FRB107	F88
FRB108 - FRB109	F89
FRB110	F90
FRB111	F89
FRB113 - FRB114	F91
FRB115 - FRB116	F92
FRB117 - FRB120	F93
FRB121	F95
FRB122 - FRB124	F94
FRB14 - FRB17	F53
FRB150	F95
FRB151 - FRB152	F96
FRB153 - FRB154	F97
FRB160 - FRB164	F48
FRB170	F36
FRB171	F37

PART NO.	PAGE NO.
FRB174 - FRB179	F30
FRB18 - FRB20	F56
FRB180 - FRB182	F101
FRB183	F102
FRB190	F102
FRB191 - FRB192	F103
FRB195	F49
FRB200 - FRB202	F47
FRB21 - FRB23	F57
FRB212 - FRB213	F72
FRB215 - FRB217	F65
FRB218 - FRB223	F66
FRB224 - FRB235	F67
FRB23-1 - FRB23-2	F41
FRB23-5	F63
FRB23-6	F64
FRB23-7	F62
FRB24 - FRB24-1	F60
FRB25	F55
FRB25-1	F61
FRB25-2	F60
FRB25-3	F61
FRB25-4	F45
FRB25-5	F59
FRB25-6	F60
FRB25-7 - FRB25-8	F59
FRB27 - FRB28	F69
FRB30 - FRB31	F68
FRB31-1	F70
FRB31-2	F71
FRB31-3	F70
FRB31-4	F71
FRB31-5	F72
FRB31-6	F35
FRB31-7	F34
FRB31-8	F73

PART NO.	PAGE NO.
FRB33 - FRB40	F54
FRB400 - FRB401	F106
FRB40-1 - FRB40-2	F55
FRB402	F107
FRB403 - FRB404	F109
FRB405 - FRB406	F108
FRB407 - FRB408	F105
FRB41 - FRB44	F56
FRB410 - FRB413	F106
FRB416	F110
FRB418	F105
FRB420	F107
FRB424	F111
FRB426	F106
FRB431 - FRB432	F105
FRB436	F108
FRB438	F107
FRB440	F109
FRB442	F110
FRB448	F108
FRB45 - FRB48	F51
FRB460 - FRB468	F111
FRB470	F110
FRB49 - FRB52	F53
FRB53 - FRB56	F52
FRB57 - FRB59	F74
FRB60 - FRB62	F73
FRB63 - FRB66	F58
FRB66-1 - FRB66-2	F42
FRB66-5	F27
FRB67 - FRB69	F57
FRB72 - FRB72-3	F38
FRB73 - FRB73-2	F39
FRB74 - FRB74-6	F81
FRB76 - FRB76-2	F86
FRB76-3	F85

PART NO.	PAGE NO.
FRB76-4 - FRB76-5	F84
FRB76-7	F83
FRB76-9 - FRB77	F82
FRB77-1 - FRB77-4	F82
FRB77-5 - FRB77-8	F85
FRB77-9	F84
FRB78-1 - FRB78-3	F98
FRB78-4 - FRB78-6	F99
R1000 - R2008-6	F1
R1100 - R1310	F1
R2009-1 - R2033	F2
R2034 - R2043-7	F3
R2044 - R2056	F4
R2057-0 - R2101	F5
R2110 - R2113	F8
R2150 - R2160	F6
R2200S - R2203-1	F8
R2206 - R2207	F9
R2211 - R2223	F6
R2232 - R2254	F9
R2300 - R2314	F10
R2320A - R2326	F11
R2400 - R2416	F29
R2406-9	F28
R2420 - R2423	F28
R2430 - R2434	F82
R2436 - R2444	F83
R2450 - R2452	F11
R2455 - R2461	F27
R2500-1 - R2511-1	F80
R2514 - R2517	F80
R2519 - R2521	F79
R2525 - R2526	F77
R2530	F78
R2535	F78
R2541 - R2560	F24

ROUTER BITS - ALPHA-NUMERIC INDEX

PART NO.	PAGE NO.
R2550	F23
R2600 - R2620	F40
R2630 - R2631	F26
R2632	F27
R2700 - R2707	F18
R2710	F24
R2800-1 - R2810	F52
R2900 - R2908	F12
R2950 - R2951	F13
R2960 - R2961	F14
R2970 - R2972	F15
R3000-1 - R3013	F76
R3020-1 - R3029	F76
R3030 - R3036	F51
R3100-1 - R3114	F50
R3200 - R3203	F55
R3300 - R3307	F75
R3310 - R3313	F22
R3320 - R3325	F21
R3330-1 - R3332	F75
R3400-1 - R3409	F17
R3500 - R3504	F17
R3510 - R3512	F16
R3520 - R3521	F19
R3600 - R3611	F22
R3700-1 - R3703	F19
R3801 - R3805	F20
R3840 - R3844	F21
R3900 - R3904	F31
R4000A - R4007	F31
R4100 - R4106	F31
R4120-12 - R4152-14	F32
R4160	F34
R4162 - R4164	F33
R4165	F38
R4167 - R4169	F39

PART NO.	PAGE NO.
R5000 - R5003-1	F16
R5001 - R5002	F20
R5004	F25
R6001 - R6003	F26
R6005 - R6009	F25
RD2062 - RD2087	F7
RD2067L - RD2069L	F7
RD2203 - RD2204	F19
RD3300 - RD3302	F23
RD3400 - RD3408	F18
RM100 - RM122	F2
RM130 - RM156	F4
W01 - W04	F117
W103214	F116
WA1214 - WA3814	F117
WC01 - WC02	F117
WF501 - WF618	F117
WFS500 - WFS510	F116
WN1024	F116
WNC338 - WNC2732	F116
WNF516 - WNF1012	F116
WR12 - WR59	F116

ROUTER BITS - IMAGE INDEX

STRAIGHT BITS

PAGE F1



PAGES F2 - F3



PAGES F4 - F5



PAGES F6 - F7



PAGE F8



...Continued
STRAIGHT BITS

PAGE F9



MORTISING BITS

PAGES F10 - F11



RABBETING BITS

PAGE F12



PAGE F13



...Continued
RABBETING BITS

PAGE F14



PAGE F15



TRIMMING BITS

PAGES F16 - F17



PAGES F18 - F19



...Continued
TRIMMING BITS

PAGES F20 - F21



PAGES F22 - F23



GROOVING/ENGRAVING BITS

PAGES F24



ROUTER BITS - IMAGE INDEX

SPECIALITY VEINING/SLOTTING/GROOVING BITS

PAGE F25 | PAGES F26 - F27 | PAGE F28



ROUND NOSE BITS

PAGE F29



T-SLOTTING BITS

PAGES F30 - F31



SLOTTING CUTTERS

PAGES F32 - F33



FINGER JOINT CUTTERS

PAGE F34



TONGUE AND GROOVE BITS

PAGES F34 - F35



...Continued

TONGUE AND GROOVE BITS

PAGES F36 - F37



GLUE JOINT/LOCK MITRE BITS

PAGES F38 - F39



DOVETAIL BITS

PAGE F40



PROFILING BITS - PLUNGE TYPE

PAGE F41 | PAGES F42 - F43 | PAGE F44



...Continued
PROFILING BITS - PLUNGE TYPE

PAGE F45



PAGE F46



PROFILING BITS - BALL BEARING GUIDE

PAGE F47



PAGES F48 - F49



...Continued
PROFILING BALL BEARING BITS

PAGES F50 - F51



PAGES F52 - F53



PAGES F54 - F55



...Continued
PROFILING BALL BEARING BITS

PAGES F56 - F57



PAGE F58



VERTICAL RAISED PANEL BITS

PAGES F59 - F60



RAISED PANEL BITS

PAGES F60 - F61



PAGES F62 - F63



...Continued

RAISED PANEL BITS

PAGE F64



STILE AND RAIL BITS

PAGE F65



PAGE F66



PAGE F67



...Continued

STILE AND RAIL BITS

PAGE F67



PAGES F68 - F69



PAGE F70



...Continued

STILE AND RAIL BITS

PAGE F70



PAGE F71



WINDOW SASH BITS

PAGE F72



DOOR EDGE/FINGER GRIP BITS

PAGE F73



PAGE F74



BEVEL BITS

PAGE F75



ROUNDING OVER BITS

PAGES F76 - F77



ROUTER BITS - IMAGE INDEX

CHAMFERING/ROUNDING OVER BITS
PAGE F78



BULLNOSE BITS
PAGE F79



HALF ROUND BITS
PAGES F80 - F81



BEADING/FLUTING BITS
PAGE F82



...Continued
BEADING/FLUTING BITS
PAGE F83



PAGES F84 - F86



EDGE MOULDING BITS
PAGES F87



...Continued
EDGE MOULDING BITS
PAGES F88 - F89



PAGE F90



...Continued
EDGE MOULDING BITS
PAGE F91



PAGES F92 - F93



PAGE F94



...Continued
EDGE MOULDING BITS

PAGE F95



CROWN MOULDING BITS

PAGES F95 - F97



ARCHITECTURAL MOULDING BITS

PAGE F98



...Continued
ARCHITECTURAL MOULDING BITS

PAGE F99



HANDRAIL BITS

PAGE F101



PAGE F102



...Continued
HANDRAIL BITS

PAGE F103



SOLID SURFACE BITS

PAGE F105



PAGE F106



...Continued
SOLID SURFACE BITS

PAGE F107



PAGES F108 - F109



...Continued

SOLID SURFACE BITS

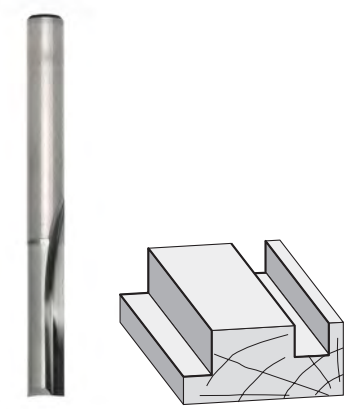
PAGE F110



PAGE F111

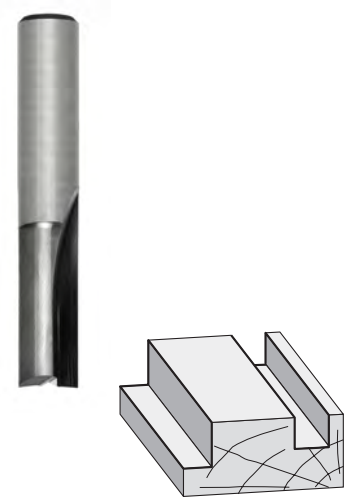


R1000 STRAIGHT ROUTER BITS, Z1
SOLID CARBIDE



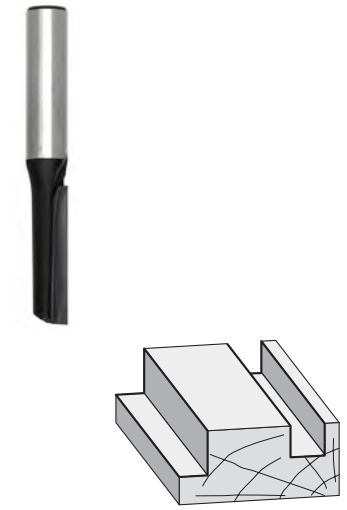
PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R1000	1/8"	3/8"	1/4"	1"	1-1/2"	1
R1008	7/32"	3/4"	1/4"	1"	2"	1

R1100 STRAIGHT ROUTER BITS, Z2
SOLID CARBIDE



PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R1100	1/8"	3/8"	1/4"	1"	1-1/2"	2
R1104	5/32"	5/8"	1/4"	7/8"	1-1/2"	2
R1106	3/16"	5/8"	1/4"	1-1/4"	2"	2
R1108	7/32"	3/4"	1/4"	1-1/4"	2"	2
R1110	1/4"	3/4"	1/4"	1-1/4"	2"	2
R1112	1/4"	1"	1/4"	1-1/4"	2-1/2"	2
R1302	3/8"	1"	3/8"	1-3/4"	3"	2
R1304	1/4"	3/4"	1/2"	1-1/4"	3"	2
R1306	1/4"	1"	1/2"	2"	3"	2
R1308	5/16"	1"	1/2"	2"	3"	2
R1310	1/2"	1-1/4"	1/2"	1-1/2"	3"	2

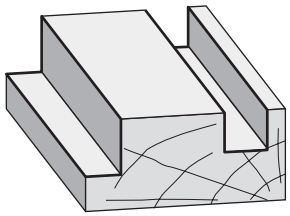
R2000 STRAIGHT ROUTER BITS, Z1
1/4" SHANK



PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R2000	1/8"	7/16"	1/4"	1-1/4"	2"	1
R2000-1	5/32"	7/16"	1/4"	1-5/16"	2"	1
R2001 •	3/16"	7/16"	1/4"	1-1/4"	2"	1
R2003	1/4"	1/2"	1/4"	1-5/16"	2"	1
R2004	1/4"	3/4"	1/4"	1-1/4"	2"	1
R2005 •	1/4"	1"	1/4"	1-1/4"	2-1/4"	1
R2006	9/32"	3/4"	1/4"	1"	2"	1
R2008	5/16"	1"	1/4"	1"	2-1/4"	1
R2008-1	3/8"	3/4"	1/4"	1"	1-15/16"	1
R2008-3	1/2"	3/4"	1/4"	1"	1-3/4"	1
R2008-4	1/2"	1"	1/4"	1"	2-1/8"	1
R2008-5	5/8"	3/4"	1/4"	1"	1-15/16"	1
R2008-6	3/4"	3/4"	1/4"	1"	1-3/4"	1

• Not guaranteed due to extreme length and/or fragility





METRIC SIZES - 1/4" SHANK

PART NO.	CUTTING DIAM.	CUTTING LENGTH	OVERALL LENGTH	NO. FLUTES
RM100	3mm	3/8"	2"	2
RM101	4mm	7/16"	2"	2
RM102	5mm	7/16"	2"	2
RM103	6mm	3/4"	2"	2
RM104	7mm	3/4"	2"	2
RM105	8mm	3/4"	2"	2
RM106	8mm	1"	2-1/4"	2
RM107	9mm	3/4"	2"	2
RM108	10mm	3/4"	2"	2
RM109	11mm	3/4"	2"	2
RM110	12mm	3/4"	2"	2
RM112	14mm	3/4"	2"	2
RM113	15mm	3/4"	2"	2
RM114	16mm	3/4"	2"	2
RM115	16mm	1-1/4"	2-1/4"	2
RM116	17mm	3/4"	2"	2
RM117	18mm	3/4"	2"	2
RM118	19mm	3/4"	2"	2
RM119	20mm	3/4"	2"	2
RM121	22mm	3/4"	2"	2
RM122	25mm	3/4"	2"	2

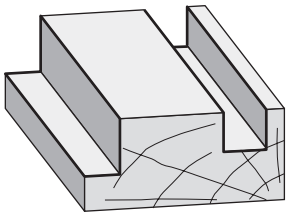
INCH SIZES - 1/4" SHANK

PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R2009-1 •	1/16"	3/16"	1-3/8"	1-5/8"	2
R2009-2	3/32"	1/4"	1-5/8"	1-7/8"	2
R2010	1/8"	7/16"	1-1/4"	2"	2
R2010-1	5/32"	7/16"	1-5/16"	2"	2
R2011	3/16"	7/16"	1-1/4"	2"	2
R2011-1	3/16"	5/8"	1-1/8"	2-1/8"	2
R2011-2	7/32"	3/4"	1-1/8"	1-7/8"	2
R2012	1/4"	1/2"	1-1/4"	2"	2
R2013	1/4"	3/4"	1-1/4"	2"	2
R2014 •	1/4"	1"	1-1/4"	2-1/4"	2
R2017	9/32"	3/4"	1-1/4"	2"	2
R2017-1	9/32"	1"	1-1/8"	2-1/4"	2
R2018	5/16"	3/4"	1-1/8"	2"	2
R2019	5/16"	1"	1-1/4"	2-1/4"	2
R2021	3/8"	3/4"	1-1/4"	2"	2
R2022	3/8"	1"	1-1/4"	2-1/4"	2
R2023	3/8"	1-1/4"	1-1/4"	2-1/2"	2
R2024	7/16"	1"	1-1/8"	2-1/4"	2
R2025	1/2"	3/4"	1-1/4"	2"	2
R2026	1/2"	1"	1"	2-1/4"	2
R2026-1	1/2"	1-1/4"	1-1/8"	2-1/2"	2
R2027	9/16"	3/4"	1-1/4"	2-1/8"	2
R2028	5/8"	3/4"	1-1/4"	2"	2
R2028-1	5/8"	1"	1-1/8"	2-1/4"	2
R2029	11/16"	3/4"	1-1/4"	2"	2
R2029-1	11/16"	1"	1-1/8"	2-1/4"	2
R2030	3/4"	3/4"	1"	2"	2
R2030-1	3/4"	1"	1-1/8"	2-1/4"	2
R2031	13/16"	3/4"	1-1/4"	2"	2
R2032	7/8"	3/4"	1-1/4"	2"	2
R2033	1"	3/4"	1-1/4"	2"	2

• Not guaranteed due to extreme length and/or fragility

R2034 STRAIGHT ROUTER BITS, Z1
3/8" SHANK



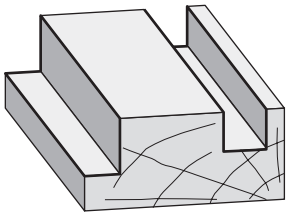


3/8" SHANK

PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R2034	1/4"	3/4"	3/8"	1-1/4"	2-1/4"	1
R2034-1	3/8"	1"	3/8"	1-1/4"	2-11/16"	1
R2034-2	3/8"	1-1/4"	3/8"	1-1/4"	2-5/8"	1

R2035 STRAIGHT ROUTER BITS
3/8" SHANK

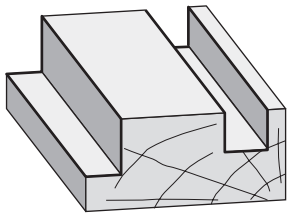




PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R2035	1/8"	7/16"	3/8"	1-1/4"	2"	2
R2035-1	5/32"	7/16"	3/8"	1-1/4"	2"	2
R2037	1/4"	3/4"	3/8"	1-3/8"	2-1/4"	2
R2038	5/16"	1"	3/8"	1-3/8"	2-1/2"	2
R2038-1	3/8"	3/4"	3/8"	1-1/2"	2-1/4"	2
R2039	3/8"	1"	3/8"	1-3/8"	2-1/2"	2
R2040	3/8"	1-1/4"	3/8"	1-3/8"	2-3/4"	2
R2042	7/16"	1"	3/8"	1-1/4"	2-1/2"	2
R2043	1/2"	1"	3/8"	1-1/4"	2-1/2"	2
R2043-1	1/2"	1-1/4"	3/8"	1-1/4"	2-1/2"	2
R2043-3	5/8"	3/4"	3/8"	1-1/4"	2-1/4"	2
R2043-5	13/16"	3/4"	3/8"	1-1/4"	2-1/4"	2
R2043-6	7/8"	3/4"	3/8"	1-1/4"	2-1/4"	2
R2043-7	1"	3/4"	3/8"	1-1/4"	2-1/4"	2

R2044 STRAIGHT ROUTER BITS, Z1
INCH SIZES, 1/2" SHANK



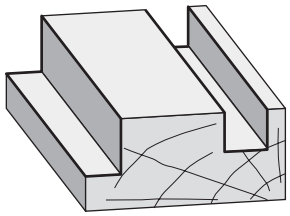


PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R2044 •	1/4"	3/4"	1/2"	1-3/8"	2-1/2"	1
R2045 •	1/4"	1"	1/2"	1-1/4"	2-1/2"	1
R2047	5/16"	1"	1/2"	1-1/2"	2-3/4"	1
R2049	3/8"	1"	1/2"	1-3/8"	2-1/2"	1
R2050 •	3/8"	1-1/4"	1/2"	1-3/8"	2-3/4"	1
R2051	1/2"	1"	1/2"	1-1/4"	2-1/2"	1
R2052	1/2"	1-1/4"	1/2"	1-3/8"	2-7/8"	1
R2054	1/2"	1-1/2"	1/2"	1-3/8"	3-1/8"	1
R2055	1/2"	2"	1/2"	1-7/8"	4-1/4"	1
R2056	9/16"	1-1/4"	1/2"	1-1/4"	2-7/8"	1

• Not guaranteed due to extreme length and/or fragility

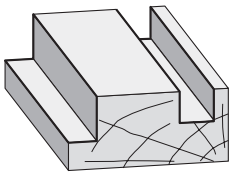
RM130 STRAIGHT ROUTER BITS
METRIC SIZES, 1/2" SHANK





PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
RM130	6mm	3/4"	1/2"	2-1/2"	2
RM131	8mm	1"	1/2"	2-3/4"	2
RM132	10mm	1"	1/2"	2-1/2"	2
RM133	10mm	1-1/4"	1/2"	3"	2
RM134	12mm	1"	1/2"	2-5/8"	2
RM135	12mm	1-1/4"	1/2"	2-7/8"	2
RM136	12mm	1-1/2"	1/2"	3"	2
RM137	12mm	2"	1/2"	4-1/4"	2
RM138	14mm	1"	1/2"	2-5/8"	2
RM140	16mm	1"	1/2"	2-5/8"	2
RM141	16mm	1-1/4"	1/2"	2-7/8"	2
RM142	16mm	1-1/2"	1/2"	3-1/8"	2
RM143	18mm	1-1/4"	1/2"	2-7/8"	2
RM144	19mm	1"	1/2"	2-5/8"	2
RM145	19mm	1-1/4"	1/2"	2-7/8"	2
RM146	19mm	1-1/2"	1/2"	3-1/8""	2
RM147	20mm	1"	1/2"	2-5/8"	2
RM148	20mm	1-1/4"	1/2"	2-7/8"	2
RM149	22mm	1"	1/2"	2-5/8"	2
RM150	25mm	1-1/4"	1/2"	2-7/8"	2
RM152	27mm	1-1/4"	1/2"	2-7/8"	2
RM153	30mm	1"	1/2"	2-5/8"	2
RM155	40mm	1-1/4"	1/2"	2-7/8"	2
RM156	51mm	1-1/4"	1/2"	2-7/8"	2



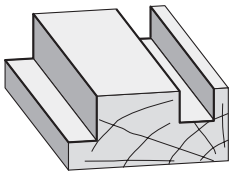


PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R2057-0	15/64"	3/4"	1/2"	1-3/8"	2-1/2"	2
R2057-1 •	1/4"	1/2"	1/2"	1-3/8"	2"	2
R2058 •	1/4"	3/4"	1/2"	1-3/8"	2-1/2"	2
R2058-1 •	1/4"	1"	1/2"	1-3/8"	2-3/4"	2
R2059	5/16"	3/4"	1/2"	1-3/8"	2-1/2"	2
R2060 •	5/16"	1"	1/2"	1-3/8"	2-3/4"	2
R2061	3/8"	3/4"	1/2"	1-3/8"	2-1/2"	2
R2062	3/8"	1"	1/2"	1-3/8"	2-3/4"	2
R2063 •	3/8"	1-1/4"	1/2"	1-3/8"	3"	2
R2063A	13/32"	1"	1/2"	1-3/8"	2-3/4"	2
R2064	7/16"	1"	1/2"	1-1/4"	2-5/8"	2
R2065	7/16"	1-1/4"	1/2"	1-3/8"	3"	2
R2065-1	31/64"	1"	1/2"	1-3/8"	2-5/8"	2
R2066	1/2"	1"	1/2"	1-3/8"	2-5/8"	2
R2067	1/2"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2069	1/2"	1-1/2"	1/2"	1-3/8"	3"	2
R2070	1/2"	1-1/2"	1/2"	2-1/2"	4-1/4"	2
R2071 •	1/2"	2"	1/2"	1-7/8"	4-1/4"	2
R2072 •	1/2"	2-1/2"	1/2"	1-7/8"	4-1/2"	2
R2074	17/32"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2075	9/16"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2076	5/8"	1"	1/2"	1-3/8"	2-5/8"	2
R2077	5/8"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2078	5/8"	1-1/2"	1/2"	1-3/8"	3"	2
R2079	5/8"	2"	1/2"	1-1/4"	3-5/8"	2
R2081	21/32"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2083	11/16"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2083-1	23/32"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2084	3/4"	1"	1/2"	1-3/8"	2-5/8"	2
R2085	3/4"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2086	3/4"	1-1/2"	1/2"	1-3/8"	3"	2
R2087	3/4"	2"	1/2"	1-3/8"	3-5/8"	2
R2088	25/32"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2090	13/16"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2090-1	7/8"	1"	1/2"	1-3/8"	2-5/8"	2
R2091	7/8"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2092-1	1"	1"	1/2"	1-3/8"	3"	2
R2093	1"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2093-1	1"	1-1/2"	1/2"	1-1/4"	3"	2
R2093-2	1"	2"	1/2"	1-3/8"	3-5/8"	2
R2094	1-1/16"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2096	1-1/8"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2097	1-1/4"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2098	1-3/8"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2099	1-1/2"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2099-1	1-5/8"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2100	1-3/4"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2100-1	1-7/8"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2101	2"	1-1/4"	1/2"	1-3/8"	2-7/8"	2

• Not guaranteed due to extreme length and/or fragility

R2210 LEFT-HAND ROUTER BITS
1/2" SHANK

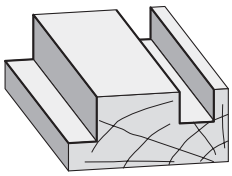




PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R2211	5/16"	1"	1/2"	1-3/8"	2-3/4"	2
R2212	3/8"	1"	1/2"	1-3/8"	2-3/4"	2
R2214	1/2"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2215	1/2"	1-1/2"	1/2"	1-3/8"	3"	2
R2216	1/2"	2"	1/2"	1-7/8"	4-1/4"	2
R2218	5/8"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2219	3/4"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2220	3/4"	2"	1/2"	1-3/8"	3-5/8"	2
R2221	13/16"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2222	7/8"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2223	1"	1-1/4"	1/2"	1-3/8"	2-7/8"	2

R2150 STRAIGHT ROUTER BITS
3/4" SHANK

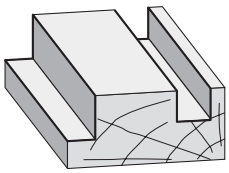




PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R2150	3/4"	1-1/4"	3/4"	1-1/2"	3"	2
R2151	3/4"	1-1/2"	3/4"	1-1/2"	3-1/4"	2
R2152	3/4"	2"	3/4"	1-3/4"	4"	2
R2153	3/4"	2-1/2"	3/4"	2"	4-1/2"	2
R2158	1"	1-1/2"	3/4"	1-1/2"	3-1/4"	2
R2160	1"	2"	3/4"	2"	4-1/4"	2

D1E STRAIGHT INSERT ROUTER BITS
WITH TWO WINGS





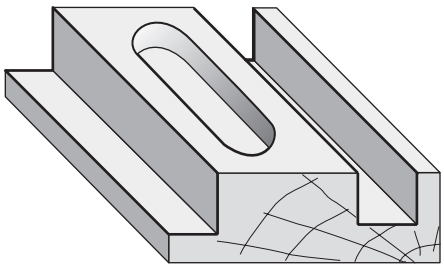
PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. WINGS
D1E	19mm	12mm	6mm	45mm	2
D1EA	19mm	12mm	1/4"	1-3/4"	2

REPLACEMENT PARTS

INSERT	INSERT SCREW
301200	D1V

RD2062 STRAIGHT INSERT ROUTER BITS, Z1
WITH REVERSIBLE KNIVES





PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. WINGS
RD2062	3/8"	1"	1/2"	3-1/8"	1
RD2066	1/2"	1"	1/2"	3-3/8"	1
RD2067	1/2"	1-1/4"	1/2"	3-1/2"	1
RD2067S ▲	1/2"	1-1/4"	1/2"	3-1/2"	1
RD2068 •	1/2"	1-1/4"	1/2"	3-1/2"	1
RD2069	1/2"	1-1/2"	1/2"	4"	1
RD2069S ▲	1/2"	1-1/2"	1/2"	4"	1
RD2070 •	1/2"	1-1/2"	1/2"	4"	1
RD2071	1/2"	2"	1/2"	4-1/8"	1
RD2077	5/8"	1-1/4"	1/2"	3-1/2"	1
RD2080 •	5/8"	2"	5/8"	4-3/8"	1
RD2084	3/4"	1"	1/2"	3-3/8"	1
RD2086 •	3/4"	1-1/2"	3/4"	4"	1
RD2087 •	3/4"	2"	3/4"	4-3/8"	1

• With carbide plunge point

▲ Standard type without reinforcing ring

LEFT-HAND ROTATION

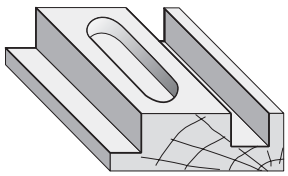
PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. WINGS
RD2067L	1/2"	1-1/4"	1/2"	3-1/2"	1
RD2069L	1/2"	1-1/2"	1/2"	4"	1

REPLACEMENT PARTS

TOOL NO.	KNIFE	WEDGE	SET SCREW	WRENCH	LOOSENING JIG
RD2062	303511M	W2062	WM303	WT015	W0001
RD2066	303011M	W2066	WM303	WT015	W0001
RD2067	303511M	W2062	WM303	WT015	W0001
RD2067L	303511M	W2062L	WM303	WT015	W0001
RD2068	303511M	W2068	WM303	WT015	W0001
RD2069	304511M	W2069	WM303	WT015	W0001
RD2069L	304511M	W2069L	WM303	WT015	W0001
RD2070	304511M	W2070	WM303	WT015	W0001
RD2071	306011M	W2071	WM303	WT015	W0001
RD2077	303511M	W2077	WM306	WT025	-
RD2080	306011M	W2087	WM308	WT025	-
RD2084	303011M	W2084	WM308	WT025	-
RD2086	304511M	W2086	WM308	WT025	-
RD2087	306011M	W2087	WM308	WT025	-

R2110 DOWNSHEAR ROUTER BITS
1/2" SHANK

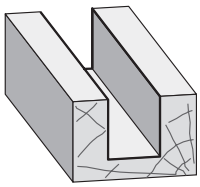




PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R2110	3/8"	1"	1/2"	1-1/2"	2-3/4"	2
R2111	1/2"	1-1/4"	1/2"	1-1/4"	2-7/8"	2
R2112	1/2"	1-1/2"	1/2"	1-3/8"	3-1/8"	2
R2113	1/2"	2"	1/2"	2"	4-1/4"	2

R2200 STAGGER TOOTH STRAIGHT ROUTER BITS, Z1+1
WITH NO SHEAR

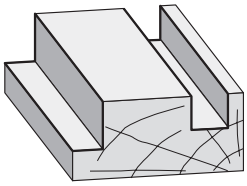




PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R2200S	1/4"	1"	1/4"	1-1/2"	2-1/4"	1+1
R2200	3/8"	1-3/8"	3/8"	1-1/4"	3"	1+1
R2201	3/8"	1-1/2"	1/2"	1-3/8"	3-1/8"	1+1
R2202	1/2"	1-1/2"	1/2"	1-3/8"	3-1/8"	1+1
R2203	1/2"	2"	1/2"	1-5/8"	4-1/4"	1+1
R2203-1	1/2"	2-1/8"	1/2"	1-5/8"	4-1/4"	1+1

D1A STAGGERED TOOTH INSERT ROUTER BITS, Z1+1
WITH PLUNGE POINT





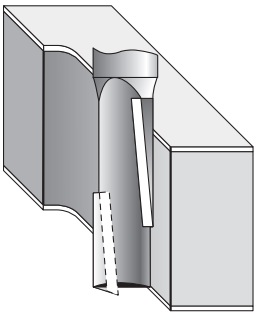
PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. OF WINGS
D1A15A	15mm	20mm	1/4"	30mm	2"	1+1
D1A16A	16mm	20mm	1/4"	30mm	2"	1+1
D1A18A	18mm	20mm	1/4"	30mm	2"	1+1
D1A20A	20mm	20mm	1/4"	30mm	2"	1+1
D1A22A	22mm	20mm	1/4"	30mm	2"	1+1

REPLACEMENT PARTS

INSERT	INSERT SCREW
301200	D1V

R2206 STAGGER TOOTH STRAIGHT ROUTER BITS, Z1+1
WITH COMPRESSION SHEAR

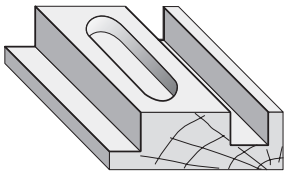




PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R2206	1/2"	1-1/2"	1/2"	1-5/8"	3-1/8"	1+1
R2207	1/2"	2"	1/2"	2"	4-1/4"	1+1

R2232 PLUNGE POINT ROUTER BITS
WITH TWO FLUTES





1/4" SHANK

PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R2232	3/8"	1"	1/4"	1-1/8"	2-1/4"	2
R2233	1/2"	3/4"	1/4"	1-1/8"	2"	2
R2234	1/2"	1"	1/4"	1-1/8"	2-1/8"	2
R2235	5/8"	3/4"	1/4"	1-3/8"	2-1/8"	2
R2236	7/8"	3/4"	1/4"	1-1/8"	2"	2

All above bits supplied with bottom carbide for plunging operations

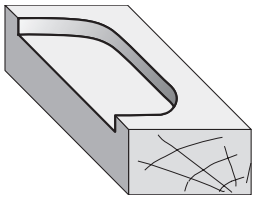
1/2" SHANK

PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R2240	5/16"	3/4"	1/2"	1-3/8"	2-1/2"	2
R2241	3/8"	1-1/4"	1/2"	1-1/2"	3"	2
R2243	1/2"	1"	1/2"	1-3/8"	2-5/8"	2
R2244	1/2"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2245	1/2"	1-1/2"	1/2"	1-3/8"	3-1/8"	2
R2246	1/2"	2"	1/2"	1-7/8"	4-1/4"	2
R2247	5/8"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2248	5/8"	2"	1/2"	1-7/8"	3-3/4"	2
R2249	3/4"	1"	1/2"	1-3/8"	2-5/8"	2
R2250	7/8"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2251	1"	1"	1/2"	1-3/8"	2-5/8"	2
R2252	1-5/8"	1"	1/2"	1-3/8"	2-5/8"	2
R2253	1-3/4"	1-1/4"	1/2"	1-3/8"	2-7/8"	2
R2254	1-7/8"	1-1/4"	1/2"	1-3/8"	2-7/8"	2

All above bits supplied with bottom carbide for plunging operations

R2300 MORTISING ROUTER BITS
BOTTOM CUTTING

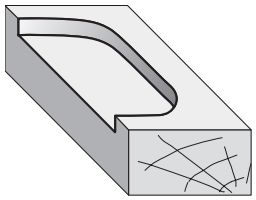




PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	SHANK LENGTH	OVERALL LENGTH	NO. FLUTES
R2300	1/2"	3/4"	1/4"	1-1/4"	2"	2
R2301	5/8"	3/4"	1/4"	1-1/4"	2"	2
R2302	3/4"	3/4"	1/4"	1-1/4"	2"	2
R2303	1"	3/4"	1/4"	1-1/8"	2"	2
R2304	1-1/4"	1/2"	1/4"	1-1/4"	1-3/4"	2
R2305	1-1/4"	1-1/4"	1/2"	1-1/4"	2-7/8"	2

R2310 MORTISING CUTTERS ONLY
SCREW TYPE





PART NO.	CUTTING DIAM.	TYPE OF THREAD	CUTTING LENGTH	NO. FLUTES
R2310	3/4"	1/4-28	1/2"	2
R2311	7/8"	1/4-28	1/2"	2
R2312	1"	1/4-28	1/2"	2
R2313	1-1/8"	1/4-28	9/16"	2
R2314	1-1/4"	1/4-28	5/8"	2

AR12MB THREADED ARBOR
FOR MORTISING BITS

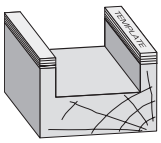


PART NO.	SHANK DIAM.	TYPE OF THREAD	OVERALL LENGTH
AR12MB	1/2"	1/4-28	2-3/8"
AR14MB	1/4"	1/4-28	1-3/4"

Fits R2310 to R2314 mortising bits (screw type)

R2450 BOTTOM CLEANING ROUTER BITS
WITH UPPER BALL BEARING





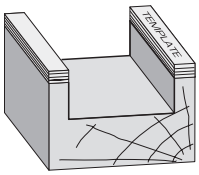
PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2450	3/4"	7/16"	1/4"	2-3/16"	2
R2451	1"	7/16"	1/2"	2-17/32"	2
R2452	1-1/2"	5/8"	1/2"	2-3/4"	2

REPLACEMENT PARTS

TOOL NO.	BALL BEARING	LOCK RING	SCREW
R2450	B4	W01	WNC525
R2451	B6-1B	W04	WNC518
R2452	B10	W03	WNC518

R2320 STRAIGHT PLUNGE ROUTER BITS
WITH UPPER BALL BEARING GUIDE





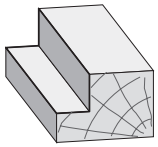
PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2320A	1/2"	1/4"	1/4"	1-5/8"	2
R2320	1/2"	1"	1/4"	2-1/2"	2
R2320-1	1/2"	1-1/4"	1/4"	2-3/4"	2
R2320-2	1/2"	1/2"	1/4"	2"	2
R2321	5/8"	1"	1/4"	2-1/2"	2
R2322	3/4"	1"	1/4"	2-1/2"	2
R2322-1	3/4"	1"	1/2"	3"	2
R2322-2	3/4"	2"	1/2"	3-5/8"	2
R2323	1"	1"	3/8"	2-3/4"	2
R2324	1"	1-3/4"	1/2"	3-3/4"	2
R2325	1-1/8"	1-1/2"	1/2"	3-5/8"	2
R2326	1-1/4"	1-3/4"	1/2"	3-15/16"	2

REPLACEMENT PARTS

TOOL NO.	BALL BEARING	LOCK RING	SCREW
R2320A	B3-1	W01	WNC525
R2320	B3-1	W01	WNC525
R2320-1	B3-1	W01	WNC525
R2320-2	B3-1	W01	WNC525
R2321	B3-3	W01	WNC525
R2322	B4	W01	WNC525
R2322-1	B4-1A	W04	WNC518
R2322-2	B4-1A	W04	WNC518
R2323	B6-1	W02	WNC525
R2324	B6-1B	W04	WNC518
R2325	B6-4	W03	WNC518
R2326	B6-5	W03	WNC518

R2900 RABBETING ROUTER BITS
WITH 1/2" DIAMETER BALL BEARING GUIDE





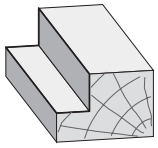
PART NO.	LARGE DIAM.	RABBET DEPTH	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2900	1-1/4"	3/8"	1/2"	1/4"	2"	2
R2901	1-1/4"	3/8"	1/2"	1/2"	2-3/8"	2
R2902	1-3/8"	7/16"	1/2"	1/4"	2"	2
R2903	1-3/8"	7/16"	1/2"	1/2"	2-3/8"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

R2905 RABBETING ROUTER BITS
WITH 3/8" DIAMETER BALL BEARING GUIDE





PART NO.	LARGE DIAM.	RABBET DEPTH	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2905	1-1/4"	7/16"	1/2"	1/4"	2"	2
R2906	1-1/4"	7/16"	1/2"	1/2"	2-3/8"	2
R2907	1-3/8"	1/2"	1/2"	1/4"	2"	2
R2908	1-3/8"	1/2"	1/2"	1/2"	2-3/8"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B2	WFS500	WFS506	WNC538



COMPLETE SET

PART NO.	CUTTING DIAM.	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2950	1-3/8"	1/2"	1/4"	2"	2
R2951	1-3/8"	1/2"	1/2"	2-3/8"	2

TYPICAL ASSEMBLY

RABBET DEPTH	PART NO.	DESCRIPTION
1/2"	**WFS500**	Flat Washer 5/16" - 3/16"
	B2	Ball Bearing 3/8" - 3/16"
	WFS506	Spring Washer 1/4" - 1/8"
	WNC512	Screw NC5 - 1/2"
7/16"	**WR58**	Raised Washer 1/2" - 3/16"
	B3	Ball Bearing 1/2" - 3/16"
	WFS506	Spring Washer 1/4" - 1/8"
	WNC512	Screw NC5 - 1/2"
3/8"	**WR59**	Raised Washer 16mm - 5mm
	B3-2	Ball Bearing 5/8" - 3/16"
	WFS506	Spring Washer 1/4" - 1/8"
	WNC512	Screw NC5 - 1/2"
5/16"	**WR59**	Raised Washer 16mm - 5mm
	B3-5	Ball Bearing 3/4" - 3/16"
	WFS506	Spring Washer 1/4" - 1/8"
	WNC512	Screw NC5 - 1/2"

R2960 7 RABBETING DEPTH ROUTER BIT SETS
WITH BALL BEARING GUIDES



COMPLETE SET

PART NO.	CUTTING DIAM.	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2960	1-3/8"	1/2"	1/4"	2"	2
R2961	1-3/8"	1/2"	1/2"	2-3/8"	2

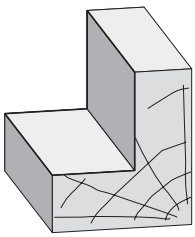
TYPICAL ASSEMBLY

RABBET DEPTH	PART NO.	DESCRIPTION
1/2"	WFS500	Flat Washer 5/16" - 3/16"
	B2	Ball Bearing 3/8" - 3/16"
	WFS506	Spring Washer 1/4" - 1/8"
	WNC512	Screw NC5 - 1/2"
7/16"	WR58	Raised Washer 1/2" - 3/16"
	B3	Ball Bearing 1/2" - 3/16"
	WFS506	Spring Washer 1/4" - 1/8"
	WNC512	Screw NC5 - 1/2"
3/8"	WR59	Raised Washer 16mm - 5mm
	B3-2	Ball Bearing 5/8" - 3/16"
	WFS506	Spring Washer 1/4" - 1/8"
	WNC512	Screw NC5 - 1/2"
5/16"	WR59	Raised Washer 16mm - 5mm
	B3-5	Ball Bearing 3/4" - 3/16"
	WFS506	Spring Washer 1/4" - 1/8"
	WNC512	Screw NC5 - 1/2"
1/4"	WR59	Raised Washer 16mm - 5mm
	B6	Ball Bearing 7/8" - 3/16"
	WFS506	Spring Washer 1/4" - 1/8"
	WNC512	Screw NC5 - 1/2"
1/8"	WR59	Raised Washer 16mm - 5mm
	B6-2	Ball Bearing 1-1/8" - 3/16"
	WFS506	Spring Washer 1/4" - 1/8"
	WNC512	Screw NC5 - 1/2"
FLUSH	WR59	Raised Washer 16mm - 5mm
	B8	Ball Bearing 1-3/8" - 3/16"
	WFS506	Spring Washer 1/4" - 1/8"
	WNC512	Screw NC5 - 1/2"

R2970 MULTI-RABBETING ROUTER BIT SETS
WITH BALL BEARING GUIDE AND COLLARS

PART NO.	NO. PIECES	RABBET DEPTHS	CUTTING DIAM.	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2970	6	1/8" 1/4" 3/8" 1/2" 5/8" 3/4"	2"	7/8"	1/2"	3-5/64"	2
R2971	12	1/16" 1/8" 3/16" 1/4" 5/16" 3/8" 7/16" 1/2" 9/16" 5/8" 11/16" 3/4"	2"	7/8"	1/2"	3-5/64"	2
R2972	17	1/16" 1/8" 3/16" 15/64" 1/4" 5/16" 23/64" 3/8" 7/16" 15/32" 1/2" 9/16" 19/32" 5/8" 11/16" 23/32" 3/4"	2"	7/8"	1/2"	3-5/64"	2





MULTI-RABBETING ROUTER BIT SET

This set produces rabbet cuts from 1/16" through 3/4" in 1/16" increments, plus five rabbet depths for undersized panels in 1/64" and 1/32" increments.

REPLACEMENT PARTS

PART NO.	DESCRIPTION
R2973	Rabbeting bit with two 1/2" bearings
B3-1	Ball Bearing
WFS506	Spring Washer
WRS220	Spacer 2.2mm
WNC512	Screw

REPLACEMENT PARTS

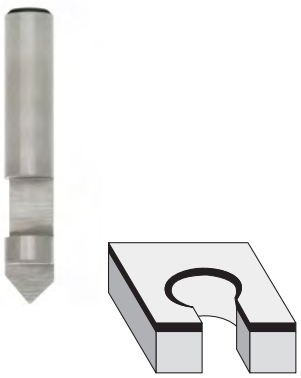
PART NO.	DESCRIPTION	DEPTH OF RABBET
WRC476	Collar 47.6mm Diam.	1/16"
WRC444	Collar 44.4mm Diam.	1/8"
WRC413	Collar 41.3mm Diam.	3/16"
WRC399	Collar 39.9mm Diam.	15/64"
WRC381	Collar 38.1mm Diam.	1/4"
WRC349	Collar 34.9mm Diam.	5/16"
WRC325	Collar 32.5mm Diam.	23/64"
WRC317	Collar 31.7mm Diam.	3/8"
WRC286	Collar 28.6mm Diam.	7/16"
WRC270	Collar 27.0mm Diam.	15/32"
WRC254	Collar 25.4mm Diam.	1/2"
WRC222	Collar 22.2mm Diam.	9/16"
WRC206	Collar 20.6mm Diam.	19/32"
WRC190	Collar 19.0mm Diam.	5/8"
WRC159	Collar 15.9mm Diam.	11/16"
WRC143	Collar 14.3mm Diam.	23/32"
B3-1	Bearing 1/2" Diam.	3/4"

R5000 FLUSH TRIM BITS
SOLID CARBIDE



PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	TYPE OF CUT	NO. FLUTES
R5000	1/4"	3/8"	1/4"	1-1/2"	Flush	1
R5000-1	1/4"	1/4"	1/4"	1-1/2"	Flush	1

R5003 FLUSH TRIM WITH PLUNGE POINT BITS
SOLID CARBIDE



PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R5003	1/4"	1/4"	1/4"	1-1/2"	1
R5003-1	1/4"	3/8"	1/4"	1-1/2"	1

R3510 FLUSH TRIM BITS
WITH DOUBLE BALL BEARING GUIDE

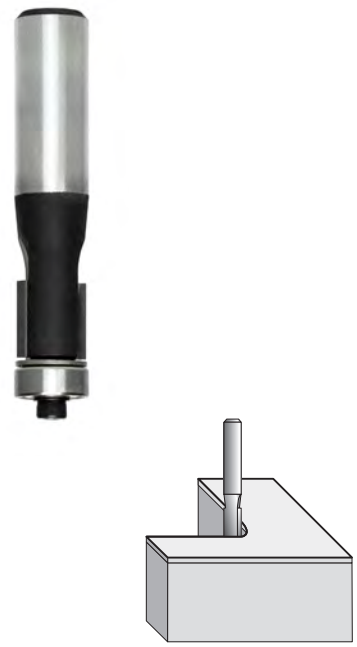


PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R3510	1/2"	1-1/2"	1/2"	4-1/16"	2
R3511	1/2"	2"	1/2"	4-1/2"	2
R3512	1/2"	1-1/2"	1/2"	4-1/16"	3

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	NYLON LOCK NUT
B3	WR58	WFS508	WN1024

R3400 FLUSH TRIM BITS
WITH BALL BEARING GUIDE



TWO FLUTES

PART NO.	TOOL TYPE	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R3400-1	E	1/4"	1/2"	1/4"	2"	2
R3400-2	E	1/4"	1"	1/4"	2-1/2"	2
R3400	A	3/8"	1"	1/4"	2-5/8"	2
R3401	A	3/8"	1/2"	1/4"	2-1/4"	2
R3402	B	1/2"	1"	1/4"	2-5/8"	2
R3403	B	1/2"	1/2"	1/4"	2-1/4"	2
R3403-1	C	5/8"	5/8"	1/4"	2-1/4"	2
R3404	B	1/2"	1"	3/8"	2-3/4"	2
R3404-1	B	1/2"	1/2"	1/2"	2-1/2"	2
R3405	B	1/2"	1"	1/2"	3-1/4"	2
R3407	B	1/2"	1-1/2"	1/2"	3-7/8"	2
R3408	B	1/2"	2"	1/2"	4-1/4"	2
R3409	F	3/4"	1"	1/2"	3"	2

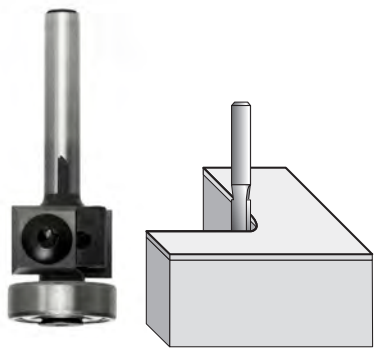
REPLACEMENT PARTS

TOOL TYPE	BALL BEARING
A	B2
B	B3
C	B3-4
D	B4-1
E	B01
F	B4

THREE FLUTES

PART NO.	TOOL TYPE	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R3500	B	1/2"	1"	1/4"	2-5/8"	3
R3501	B	1/2"	1/2"	1/4"	2-1/4"	3
R3502	B	1/2"	1"	1/2"	3-1/4"	3
R3503	B	1/2"	1/2"	1/2"	2-3/4"	3
R3504	B	1/2"	1-1/2"	1/2"	3-7/8"	3

D1C FLUSH TRIM INSERT ROUTER BITS
WITH BALL BEARING GUIDE

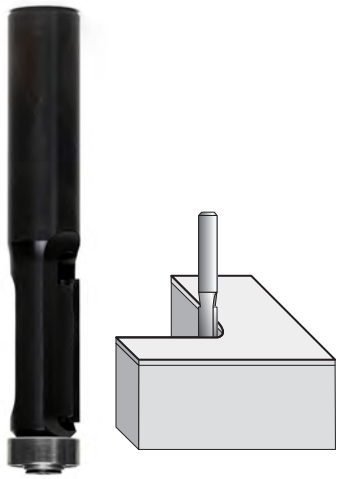


PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. WINGS
D1C	19mm	12mm	6mm	55mm	1+1
D1CA	19mm	12mm	1/4"	2-3/16"	1+1

REPLACEMENT PARTS

INSERT	INSERT SCREW	BALL BEARING	SCREW FOR BEARING
301200	D1V	B3-6	D1V5

RD3400 FLUSH TRIM INSERT ROUTER BITS
WITH BALL BEARING GUIDE



PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. WINGS
RD3400	3/8"	1"	1/4"	2-5/8"	1
RD3401	3/8"	1/2"	1/4"	2-1/8"	1
RD3402	1/2"	1"	1/4"	2-5/8"	1
RD3403	1/2"	1-1/2"	1/4"	2-1/8"	1
RD3405	1/2"	1"	1/2"	2-3/4"	1
RD3407	1/2"	1-1/2"	1/2"	3-5/8"	1
RD3408	1/2"	1"	1/2"	4-1/4"	1

REPLACEMENT PARTS

TOOL NO.	KNIFE	WEDGE	BALL BEARING	SNAP RING	SET SCREW	WRENCH	LOOSENING JIG
RD3400	302511M	W3400	BD2	WC050	WM303	WT015	-
RD3401	301211M	W3401	BD2	WC050	WM303	WT015	W0001
RD3402	302511M	W3400	BD3	WC060	WM303	WT015	W0001
RD3403	304011M	W3403	BD3	WC060	WM303	WT015	W0001
RD3405	302511M	W3400	BD3	WC060	WM303	WT015	W0001
RD3407	304011M	W3403	BD3	WC060	WM303	WT015	W0001
RD3408	305011M	W3408	BD3	WC060	WM303	WT015	W0001

R2700 PANEL PILOT AND TRIM BITS
WITH PLUNGE POINT



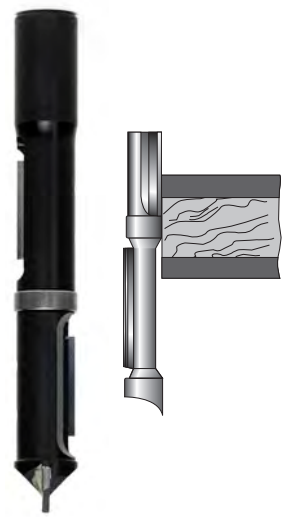
ONE FLUTE

PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2700	1/4"	3/4"	1/4"	2-1/2"	1
R2701	3/8"	1"	3/8"	3"	1
R2702	1/2"	1-3/16"	1/2"	3-1/2"	1
R2703	1/2"	2"	1/2"	4-1/2"	1

TWO FLUTES

PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2704	3/8"	1"	1/4"	3"	2
R2705	3/8"	1"	3/8"	3"	2
R2706	1/2"	1-1/4"	1/2"	3-3/4"	2
R2707	1/2"	2"	1/2"	4-1/2"	2

RD2203 STAGGERED TOOTH INSERT FLUSH TRIM BITS
WITH CENTER BALL BEARING GUIDE



PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. WINGS
RD2203	1/2"	3/4"+3/4"	1/2"	3-7/8"	1+1
RD2204 •	1/2"	3/4"+3/4"	1/2"	3-7/8"	1+1

• With carbide plunge point

REPLACEMENT PARTS

TOOL NO.	KNIFE	UPPER WEDGE	LOWER WEDGE	BALL BEARING	SET SCREW	WRENCH	LOOSENING JIG
RD2203	302011M	W2200	W2203	BD4	WM303	WT015	W0001
RD2204	302011M	W2200	W2204	BD4	WM303	WT015	W0001

R3520 FLUSH TRIM "V" GROOVE BITS
WITH BALL BEARING GUIDE



PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R3520	5/8"	1"	1/4"	2-1/2"	2
R3521	5/8"	1"	1/2"	3-1/4"	2

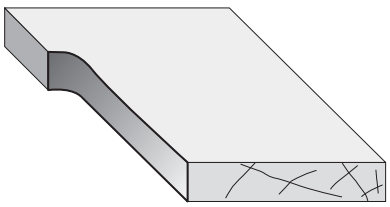
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

R3700 HELIX LAMINATE TRIM BITS
WITH BALL BEARING GUIDE



PART NO.	TOOL TYPE	CUTTING DIAM.	TYPE OF CUT	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R3700-1	A	5/8"	Flush	5/8"	1/4"	2-3/16"	2
R3700	B	3/4"	Flush	5/8"	1/4"	2-3/8"	2
R3700-2	B	3/4"	Flush	1"	1/4"	2-7/8"	2
R3701	B	3/4"	Flush	5/8"	1/2"	2-1/2"	2
R3703	B	3/4"	15°	3/8"	1/2"	2-1/4"	2

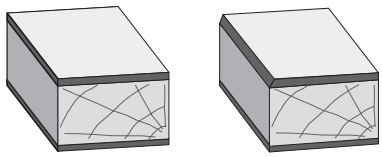


REPLACEMENT PARTS

TOOL TYPE	BALL BEARING	WASHER	SCREW
A	B3-3	-	W103214
B	B4	WFS500	WNF1012

R5002 FLUSH AND BEVEL COMBINATION TRIM BIT
SOLID CARBIDE

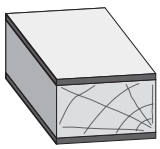




PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	DEGREE OF BEVEL	NO. FLUTES
R5002	1/4"	3/8"	1/4"	1-1/2"	7°	1

R3800 FLUSH AND BEVEL COMBINATION TRIM BIT
1/4" SHANK

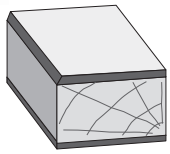




PART NO.	CUTTING DIAM.	CARBIDE LENGTH	DEGREE BEVEL	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R3801	3/8"	1/2"	23°	1/4"	1-5/8"	2
R3802	1/2"	1/2"	23°	1/4"	1-5/8"	2
R3803	1/2"	1/2"	30°	1/4"	1-5/8"	2
R3804	1/2"	1/2"	35°	1/4"	1-5/8"	2
R3805	1/2"	1/2"	45°	1/4"	1-5/8"	2

R5001 BEVEL TRIM BIT
SOLID CARBIDE





PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	DEGREE OF BEVEL	NO. FLUTES
R5001	1/4"	1/4"	1/4"	1-1/2"	7°	1

R3840 BEVEL TRIM BITS
WITH TWO FLUTES



PART NO.	DEGREE BEVEL	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R3840	7°	1/2"	1/4"	2"	2
R3841	15°	1/2"	1/4"	2"	2
R3842	15°	1/2"	1/2"	2"	2
R3843	25°	1/2"	1/4"	2"	2
R3844	25°	1/2"	1/2"	2"	2

D1B BEVEL TRIM INSERT ROUTER BITS
WITHOUT GUIDE



PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	DEGREE OF CUT	OVERALL LENGTH	NO. WINGS
D1B22	24mm	12mm	6mm	22°	45mm	2
D1B22A	24mm	12mm	1/4"	22°	1-3/4"	2
D1B30	26mm	12mm	6mm	30°	45mm	2
D1B30A	26mm	12mm	1/4"	30°	1-3/4"	2
D1B45	29mm	12mm	6mm	45°	45mm	2
D1B45A	29mm	12mm	1/4"	45°	1-3/4"	2

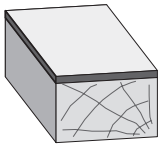
REPLACEMENT PARTS

INSERT	INSERT SCREW
301200	D1V

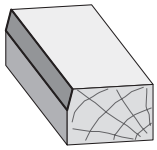
R3320 BEVEL TRIM BITS, Z2
WITH BALL BEARING GUIDE



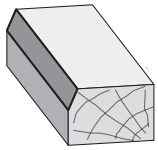
PART NO.	TOOL TYPE	CUTTING DIAM.	CARBIDE HEIGHT	DEGREE BEVEL	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R3320	A	1/2"	1/4"	0°	1/4"	2-1/8"	2
R3321	A	5/8"	1/4"	15°	1/4"	2-1/8"	2
R3322	A	3/4"	1/4"	25°	1/4"	2-1/8"	2
R3323	A	1"	1/4"	45°	1/4"	2-1/8"	2
R3324	B	1"	3/8"	15°	1/4"	2"	2
R3325	C	5/8"	1/2"	15°	1/4"	2"	2



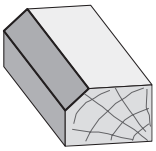
R3320



R3321
R3324
R3325



R3322



R3323

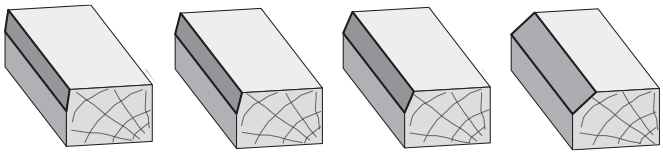
REPLACEMENT PARTS

TOOL TYPE	BALL BEARING	WASHER	SPRING WASHER	SCREW
A	B3	WR58	WFS506	WNC538
B	B4	-	WFS508	WNF1012
C	B1	WR12	WFS504	WNC338

R3310 BEVEL TRIM BITS, Z3
WITH BALL BEARING GUIDE



PART NO.	CUTTING DIAM.	CARBIDE HEIGHT	DEGREE BEVEL	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R3310	3/4"	3/8"	10°	1/4"	1-7/8"	3
R3311	13/16"	3/8"	15°	1/4"	1-7/8"	3
R3312	15/16"	3/8"	25°	1/4"	1-7/8"	3
R3313	1-7/16"	3/8"	45°	1/4"	1-7/8"	3



R3310 R3311 R3312 R3313

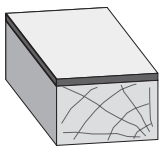
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

R3600 TRIM CUTTER ASSEMBLIES, Z4
WITH BALL BEARING GUIDE



PART NO.	CUTTING DIAMETER	CARBIDE HEIGHT	TYPE OF CUT	SHANK DIAM.	NO. WINGS
R3600	7/8"	1/4"	Flush	1/4"	4
R3602	7/8"	1/4"	Flush	1/2"	4
R3603	1"	1/4"	15°	1/4"	4
R3605	1"	1/4"	15°	1/2"	4
R3606	1-1/16"	1/4"	25°	1/4"	4
R3608	1-1/16"	1/4"	25°	1/2"	4



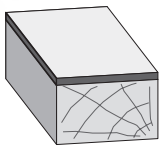
REPLACEMENT PARTS

BALL BEARING	ARBOR 1/4" SHANK	ARBOR 3/8" SHANK	ARBOR 1/2" SHANK	SPRING WASHER	NUT
B5	AR14	AR13	AR12	WF608	WNF516

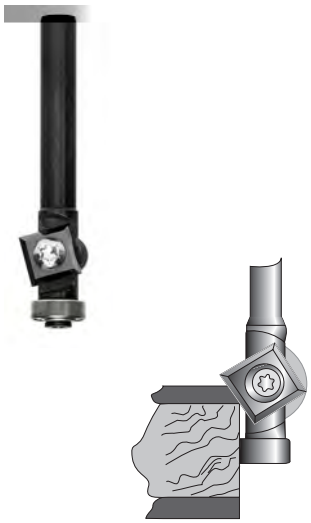
R3609 TRIM CUTTER, Z4
CUTTER ONLY



PART NO.	CUTTING DIAMETER	CARBIDE HEIGHT	TYPE OF CUT	NO. WINGS
R3609	7/8"	1/4"	Flush	4
R3610	1"	1/4"	15°	4
R3611	1-1/16"	1/4"	25°	4



RD3300 BEVEL TRIM INSERT BITS
BALL BEARING GUIDE



PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	DEG. BEVEL	OVERALL LENGTH	NO. FLUTES
RD3300	3/8"	3/8"	1/4"	15°	2-1/8"	1
RD3302	3/8"	3/8"	1/4"	45°	2-1/8"	1

REPLACEMENT PARTS

KNIFE	BALL BEARING	SNAP RING	SET SCREW	WRENCH
300911M	BD2	WC050	WM306	W400401

D1D BEVEL TRIM INSERT ROUTER BITS
WITH BALL BEARING GUIDE

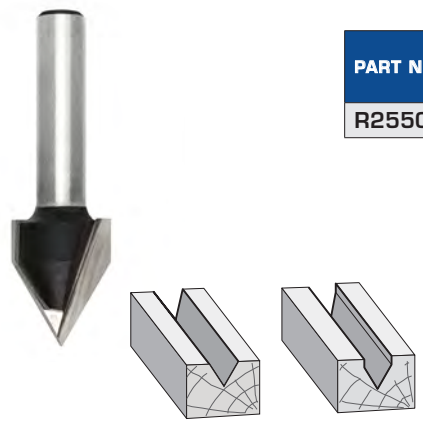


PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	ANGLE	OVERALL LENGTH	NO. WINGS
D1D22	24mm	12mm	6mm	22°	55mm	2
D1D22A	24mm	12mm	1/4"	22°	2-3/16"	2
D1D30	26mm	12mm	6mm	30°	55mm	2
D1D30A	26mm	12mm	1/4"	30°	2-3/16"	2
D1D45	29mm	12mm	6mm	45°	55mm	2
D1D45A	29mm	12mm	1/4"	45°	2-3/16"	2

REPLACEMENT PARTS

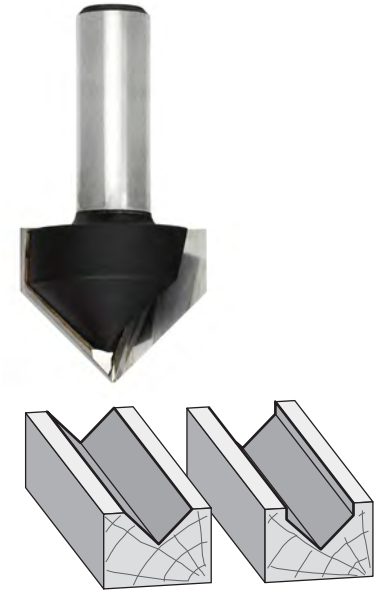
INSERT	INSERT SCREW	BALL BEARING	SCREW FOR BEARING
301200	D1V	B3-6	D1V5

R2550 "V" GROOVING BITS
60° INCLUDED ANGLE



PART NO.	CUTTING DIAM.	INCLUDED ANGLE	CARBIDE HEIGHT	V-POINT DEPTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2550	1/2"	60°	5/8"	13/32"	1/4"	1-3/4"	2

R2541 "V" GROOVING BITS
90° INCLUDED ANGLE

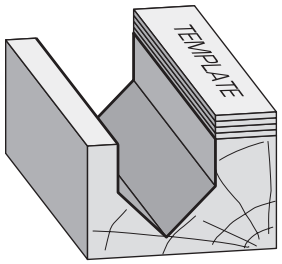


PART NO.	CUTTING DIAM.	INCLUDED ANGLE	CARBIDE HEIGHT	V-POINT DEPTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2541	3/8"	90°	3/8"	3/16"	1/4"	1-5/8"	2
R2541-1	3/8"	90°	15/32"	1/4"	1/2"	1-3/4"	2
R2542	1/2"	90°	7/16"	1/4"	1/4"	1-3/4"	2
R2542-1	1/2"	90°	7/16"	5/16"	1/4"	2-1/8"	2
R2543	5/8"	90°	15/32"	5/16"	1/4"	1-3/4"	2
R2543-1	5/8"	90°	1/2"	3/8"	1/2"	2-1/8"	2
R2543-2	3/4"	90°	5/8"	3/8"	1/4"	1-3/4"	2
R2544	3/4"	90°	5/8"	7/16"	1/2"	2-1/4"	2
R2544-1	7/8"	90°	23/32"	7/16"	1/4"	2"	2
R2544-2	7/8"	90°	23/32"	1/2"	1/2"	2-1/4"	2
R2545	1"	90°	5/8"	1/2"	1/4"	1-3/4"	2
R2545-1	1"	90°	3/4"	5/8"	1/2"	2-3/8"	2
R2546	1-1/4"	90°	1"	3/4"	1/2"	2-1/2"	2
R2547	1-1/2"	90°	1-1/4"	7/8"	1/2"	2-3/4"	2
R2548	1-3/4"	90°	1-1/2"	1"	1/2"	3"	2
R2549	2"	90°	1-3/4"	1/4"	1/2"	3"	2

R2560 "V" GROOVING BITS
90° INCLUDED ANGLE WITH BEARING GUIDE



SCALE 1:1



PART NO.	CUTTING DIAM.	INCLUDED ANGLE	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2560	1/2"	90°	1/2"	1/4"	2"	2

REPLACEMENT PARTS

BALL BEARING	LOCK RING	SCREW
B3-1	W01	WNC525

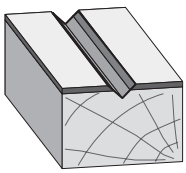
R2710 SOLID CARBIDE ENGRAVING BITS
60° INCLUDED ANGLE



PART NO.	CUTTING DIAM.	INCLUDED ANGLE	CUTTING DEPTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2710	9/16"	60°	7/8"	1/4"	2-1/4"	3

R6005 "V" GROOVING VEINING BIT
SOLID CARBIDE

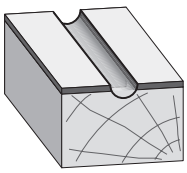




PART NO.	CUTTING DIAM.	INCLUDED ANGLE	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R6005	1/4"	90°	1/4"	1-1/2"	1

R6007 ROUND BOTTOM VEINING BITS
SOLID CARBIDE

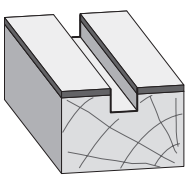




PART NO.	CUTTING DIAM.	RADIUS	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R6007	1/8"	1/16"	1/4"	2"	2
R6008	3/16"	3/32"	1/4"	2"	2
R6009	1/4"	1/8"	1/4"	2"	2

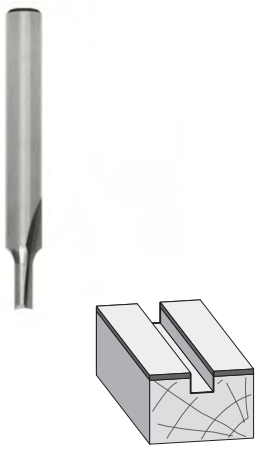
R5004 RIP AND SLOTTING BIT
SOLID CARBIDE





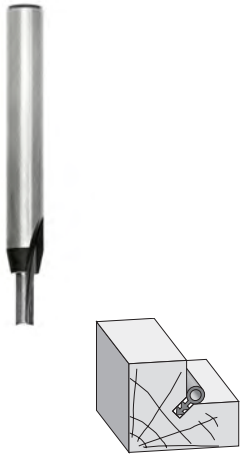
PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R5004	1/4"	3/8"	1/4"	1-1/2"	1

R6001 FLAT BOTTOM VEINING BITS
SOLID CARBIDE



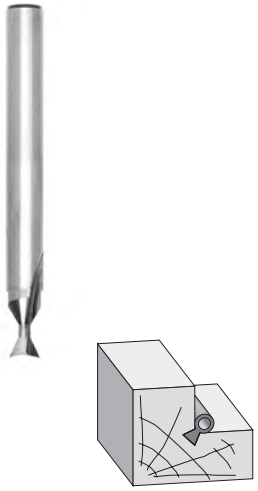
PART NO.	CUTTING DIAMETER	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R6001	1/8"	1/4"	1/4"	2"	2
R6002	3/16"	3/8"	1/4"	2"	2
R6003	1/4"	1/2"	1/4"	2"	2

R2630 TEE/BUMPER MOULDING GROOVING BIT
SOLID CARBIDE



PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2630	1/8"	5/16"	1/4"	2-3/16"	2

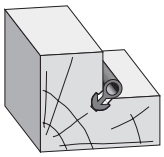
R2631 TEE/BUMPER MOULDING GROOVING BIT
SOLID CARBIDE



PART NO.	LARGE DIAM.	DEGREES EA. SIDE	DEPTH OF CUT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2631	13/64"	25°	5/32"	1/4"	2-3/8"	2

R2632 TEE/BUMPER MOULDING GROOVING BIT
TWO FLUTES





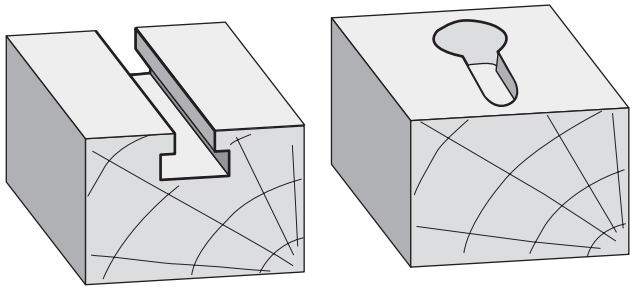
PART NO.	LARGE DIAM.	SMALL DIAM.	DEGREES EA. SIDE	DEPTH OF CUT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2632	7/32"	5/64"	38°	5/16"	1/4"	2-9/16"	2

FRB66-5 KEYHOLE BIT
ONE FLUTE



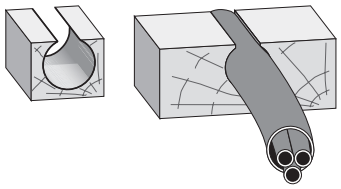
PART NO.	LARGE DIAM.	SMALL DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB66-5	3/8"	3/16"	3/8"	1/4"	1-1/2"	1

SCALE 1:1



R2455 BALL GROOVING BITS
TWO FLUTES

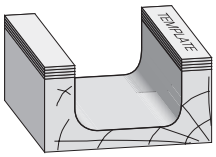




PART NO.	LARGE DIAM.	SMALL DIAM.	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2455	1/2"	1/4"	1/2"	2-1/4"	2
R2456	5/8"	9/32"	1/2"	2-7/16"	2
R2457	3/4"	5/16"	1/2"	2-1/2"	2
R2459	1"	11/32"	1/2"	2-3/4"	2
R2460	1-1/8"	13/32"	1/2"	2-7/8"	2
R2461	1-1/4"	7/16"	1/2"	3"	2

R2420 BOWL AND TRAY BITS
WITH UPPER BALL BEARING





PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2420	1/2"	1/8"	1/2"	1/4"	2-1/8"	2
R2421	3/4"	1/4"	5/8"	1/4"	2-5/16"	2
R2422	3/4"	1/4"	5/8"	1/2"	2-5/16"	2
R2423	1-1/8"	1/4"	5/8"	1/2"	2-5/8"	2

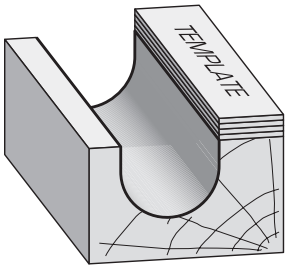
REPLACEMENT PARTS

TOOL NO.	BALL BEARING	LOCK RING	SCREW
R2420	B3-1	W01	WNC525
R2421	B4	W01	WNC525
R2422	B4-1A	W04	WNC518
R2423	B6-4	W03	WNC518

R2406-9 CORE BOX BIT
WITH BEARING GUIDE



SCALE 1:1



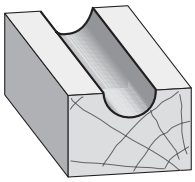
PART NO.	CUTTING DIAM.	RADIUS	CUTTING DEPTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2406-9	1/2"	1/4"	1/2"	1/4"	2"	2

REPLACEMENT PARTS

TOOL NO.	BALL BEARING	LOCK RING	SCREW
R2406-9	B3-1	W01	WNC525

R2400 ROUND NOSE BITS
SHALLOW PROFILE

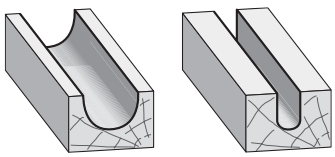




PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2400	1/8"	1/16"	3/8"	1/4"	1-3/4"	2
R2401	3/16"	3/32"	1/2"	1/4"	1-3/4"	2
R2402	1/4"	1/8"	1/2"	1/4"	1-3/4"	2
R2402-1	5/16"	5/32"	1/2"	1/4"	1-1/2"	2
R2403	3/8"	3/16"	1/4"	1/4"	1-1/2"	2
R2403-1	3/8"	3/16"	1/4"	1/2"	2"	2
R2403-2	7/16"	7/32"	5/8"	1/4"	1-3/4"	2
R2403-3	7/16"	7/32"	5/8"	1/2"	2-3/8"	2
R2404	1/2"	1/4"	5/16"	1/4"	1-1/2"	2
R2404-1	1/2"	1/4"	5/16"	1/2"	2"	2
R2405	5/8"	5/16"	3/8"	1/4"	1-1/2"	2
R2405-1	5/8"	5/16"	3/8"	1/2"	2"	2
R2406	3/4"	3/8"	1/2"	1/4"	1-1/2"	2
R2406-1	3/4"	3/8"	1/2"	1/2"	2"	2
R2406-2	7/8"	7/16"	5/8"	1/4"	1-3/4"	2
R2406-3	7/8"	7/16"	5/8"	1/2"	2"	2
R2406-4	1"	1/2"	5/8"	1/4"	1-3/4"	2
R2406-5	1"	1/2"	5/8"	1/2"	2-3/16"	2
R2406-6	1-1/4"	5/8"	1-1/4"	1/2"	2-3/4"	2

R2407 ROUND NOSE BITS
DEEP PROFILE

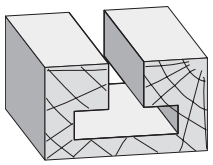




PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2407	3/8"	3/16"	1"	1/2"	2-3/4"	2
R2408	1/2"	1/4"	1-1/4"	1/2"	2-3/4"	2
R2409	9/16"	9/32"	1-1/4"	1/2"	2-3/4"	2
R2410	5/8"	5/16"	1-1/4"	1/2"	2-3/4"	2
R2411	3/4"	3/8"	1-1/4"	1/2"	2-3/4"	2
R2412	7/8"	7/16"	1-1/4"	1/2"	2-3/4"	2
R2413	1"	1/2"	1-1/4"	1/2"	2-3/4"	2
R2414	1-1/4"	5/8"	1-1/4"	1/2"	2-3/4"	2
R2415	1-1/2"	3/4"	1-1/4"	1/2"	2-3/4"	2
R2416	2"	1"	1-1/4"	1/2"	2-3/4"	2

FRB177 T-SLOT BITS
TWO WINGS PLUS TWO SLOTTING WINGS

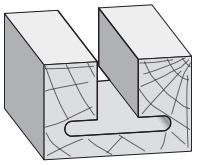




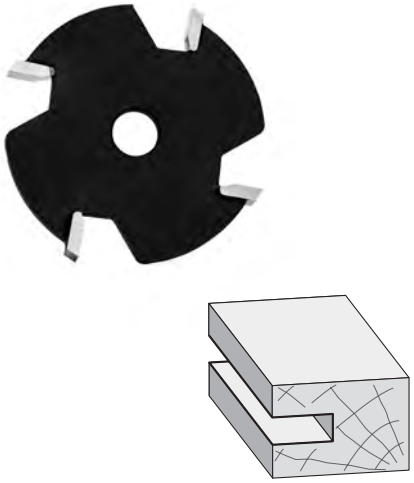
PART NO.	LARGE DIAM.	SMALL DIAM.	GROOVE HEIGHT	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB177	1-3/32"	3/8"	5/16"	13/16"	1/2"	2-5/8"	2
FRB178	1-3/32"	3/8"	5/16"	13/16"	3/8"	2-3/8"	2
FRB179	1-3/8"	1/2"	3/8"	7/8"	1/2"	2-9/16"	2

FRB174 RADIUS T-SLOT BITS
TWO WINGS PLUS ONE SLOTTING WING





PART NO.	LARGE DIAM.	SMALL DIAM.	GROOVE HEIGHT	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB174	1-1/8"	7/16"	5/32"	5/64"	13/16"	3/8"	2-1/16"	2
FRB175	1-1/8"	7/16"	5/32"	5/64"	13/16"	1/2"	2-5/32"	2
FRB176	1-39/64"	3/8"	5/32"	5/64"	13/16"	3/8"	2-1/16"	2



2 WING CUTTERS

PART NO.	CUTTING DIAM.	KERF	KERF MM	BORE DIAM.	NO. WINGS
R3900	1-7/8"	1/16"	1.6	5/16"	2
R3900-3	1-7/8"	.075"	1.9	5/16"	2
R3901	1-7/8"	5/64"	1.98	5/16"	2
R3902	1-7/8"	3/32"	2.4	5/16"	2
R3902-1	1-7/8"	.110"	2.8	5/16"	2
R3903	1-7/8"	1/8"	3.2	5/16"	2
R3903-1	1-7/8"	5/32"	4.0	5/16"	2
R3903-2	1-7/8"	3/16"	4.8	5/16"	2
R3904	1-7/8"	1/4"	6.35	5/16"	2

3 WING CUTTERS

PART NO.	CUTTING DIAM.	KERF	KERF MM	BORE DIAM.	NO. WINGS
R4000A	1-7/8"	.055"	1.4	5/16"	3
R4000	1-7/8"	1/16"	1.6	5/16"	3
R4001	1-7/8"	.070"	1.8	5/16"	3
R4001-1	1-7/8"	.075"	1.9	5/16"	3
R4002	1-7/8"	5/64"	1.98	5/16"	3
R4002-1	1-7/8"	.085"	2.16	5/16"	3
R4003	1-7/8"	3/32"	2.4	5/16"	3
R4003-1	1-7/8"	.110"	2.8	5/16"	3
R4005	1-7/8"	1/8"	3.2	5/16"	3
R4005-A	1-7/8"	.140"	3.6	5/16"	3
R4005-1	1-7/8"	5/32"	4.0	5/16"	3
R4006	1-7/8"	3/16"	4.8	5/16"	3
R4007	1-7/8"	1/4"	6.35	5/16"	3

4 WING CUTTERS

PART NO.	CUTTING DIAM.	KERF	KERF MM	BORE DIAM.	NO. WINGS
R4100	1-7/8"	1/16"	1.6	5/16"	4
R4101	1-7/8"	.070"	1.8	5/16"	4
R4102	1-7/8"	.080"	2.0	5/16"	4
R4103	1-7/8"	3/32"	2.4	5/16"	4
R4104	1-7/8"	1/8"	3.2	5/16"	4
R4105	1-7/8"	3/16"	4.8	5/16"	4
R4106	1-7/8"	1/4"	6.35	5/16"	4



2 WING ASSEMBLIES

1/4" SHANK PART NO.	3/8" SHANK PART NO.	1/2" SHANK PART NO.	CUTTING DIAM.	KERF (MM)	KERF (INCH)	BORE DIAM.	NO. WINGS
R4120-14	R4120-13	R4120-12	1-7/8"	1/16"	1.6	5/16"	2
R4121-14	R4121-13	R4121-12	1-7/8"	.065"	1.65	5/16"	2
R4121-2-14	R4121-2-13	R4121-2-12	1-7/8"	.075"	1.9	5/16"	2
R4122-14	R4122-13	R4122-12	1-7/8"	5/64"	1.98	5/16"	2
R4124-14	R4124-13	R4124-12	1-7/8"	3/32"	2.4	5/16"	2
R4125-14	R4125-13	R4125-12	1-7/8"	.110"	2.8	5/16"	2
R4126-14	R4126-13	R4126-12	1-7/8"	1/8"	3.2	5/16"	2
R4128-14	R4128-13	R4128-12	1-7/8"	5/32"	4.0	5/16"	2
R4130-14	R4130-13	R4130-12	1-7/8"	3/16"	4.8	5/16"	2
R4132-14	R4132-13	R4132-12	1-7/8"	1/4"	6.35	5/16"	2

3 WING ASSEMBLIES

1/4" SHANK PART NO.	3/8" SHANK PART NO.	1/2" SHANK PART NO.	CUTTING DIAM.	KERF (MM)	KERF (INCH)	BORE DIAM.	NO. WINGS
R4140-14	R4140-13	R4140-12	1-7/8"	1/16"	1.6	5/16"	3
R4141-14	R4141-13	R4141-12	1-7/8"	.065"	1.65	5/16"	3
R4141-1-14	R4141-1-13	R4141-1-12	1-7/8"	.070"	1.8	5/16"	3
R4141-2-14	R4141-2-13	R4141-2-12	1-7/8"	.075"	1.9	5/16"	3
R4142-14	R4142-13	R4142-12	1-7/8"	5/64"	1.98	5/16"	3
R4143-14	R4143-13	R4143-12	1-7/8"	.085"	2.16	5/16"	3
R4144-14	R4144-13	R4144-12	1-7/8"	3/32"	2.4	5/16"	3
R4145-14	R4145-13	R4145-12	1-7/8"	.110"	2.8	5/16"	3
R4146-14	R4146-13	R4146-12	1-7/8"	1/8"	3.2	5/16"	3
R4147-14	R4147-13	R4147-12	1-7/8"	.140"	3.6	5/16"	3
R4148-14	R4148-13	R4148-12	1-7/8"	5/32"	4.0	5/16"	3
R4150-14	R4150-13	R4150-12	1-7/8"	3/16"	4.8	5/16"	3
R4152-14	R4152-13	R4152-12	1-7/8"	1/4"	6.35	5/16"	3

R4162 MULTI-PURPOSE SLOTTING CUTTER SET
COMPLETE ASSEMBLY



PART NO.	CUTTING DIAM.	MIN. WOOD THICKNESS	MAX. WOOD THICKNESS	SHANK DIAM.	NO. OF TEETH
R4162	1-7/8"	1/8"	23/32"	1/2"	2

Multi-purpose cutter set with four cutters and bearing guide enables you to cut grooves and dados from 1/8" to 23/32" wide, in increments of 0.1mm (0.004")

Tongue and groove can also be achieved with proper set-up

STANDARD SET CONTENTS:

FOUR SINGLE CUTTERS MARKED:

A - width 1/8" (3.2mm)	R3903
B - width 5/32" (4.0mm)	R3903-1
C - width 3/16" (4.8mm)	R3903-2
D - width 1/4" (6.35mm)	R3904
Arbor with nut (1 piece)	AR11
Ball bearing	B5

SPACERS, WASHERS AND SHIMS:

Spacer 6.0mm (3 pieces)	WF618
Spacer 1.0mm (5 pieces)	WF608
Shim 0.5mm (4 pieces)	WF606
Shim 0.1mm (10 pieces)	WF604

» All washers and shims are 5/8" diam. x 5/16" bore
» A full 3/4" cut can be achieved using one additional cutter 5/32" width (cutter B) R3903-1 (sold separately)

R4164 "BOX JOINT" SLOTTING CUTTER SET
COMPLETE ASSEMBLY



PART NO.	CUTTING DIAM.	GROOVE WIDTH	SHANK DIAM.	NO. OF TEETH
R4164	1-7/8"	5/32"	1/2"	3

New "Box Joint" cutter set is ideally suited for producing instrument cases, jewelry boxes, drawers, etc.,

Maximum material width 1-9/16"

Three ball bearing guides offer alternative cutting depths

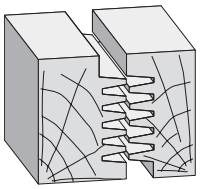
Each set is supplied with an instruction sheet

STANDARD SET CONTENTS

Cutters (5 pieces)	R4005-1
Arbor with nut (1 piece)	AR20
Washer (1 piece)	WR59
Spacer 5.5mm (4 pieces)	WF616
Spacer 1.0mm (1 piece)	WF608
Shim 0.5mm (1 piece)	WF606
Super glide bearing 28mm (1 piece)	B28
Super glide bearing 29mm (1 piece)	B32
Super glide bearing 34mm (1 piece)	B34

R4160 FINGER JOINT ROUTER CUTTER SET
COMPLETE ASSEMBLY





PART NO.	CUTTING DIAM.	MAX. WOOD THICKNESS	SHANK DIAM.	NO. OF TEETH
R4160	1-9/16"	1-3/8"	1/2"	2

Cutter assembly allows you to cut from one-finger to five-fingers in one pass and above five-fingers in multiple passes

Both cuts are performed with same router setting. Simply turn over the counter-cut for a perfect fit (see diagram)

Cutters feature style "4 Miters" allowing for a safer cut

STANDARD SET CONTENTS:

Arbor with nut (1 piece)	AR20
Ball bearing (1 piece)	B6-3
Finger joint cutter (5 pieces)	R4160-1
Straight cutter (1 piece)	R4160-2
Spacer 3.4mm (6 pieces)	WF612
Washer 1.0mm (2 pieces)	WF608
Shim 0.5mm (1 piece)	WF606
Shim 0.1mm (10 pieces)	WF604

FRB31-7 TONGUE AND GROOVE CUTTER SET
COMPLETE ASSEMBLY

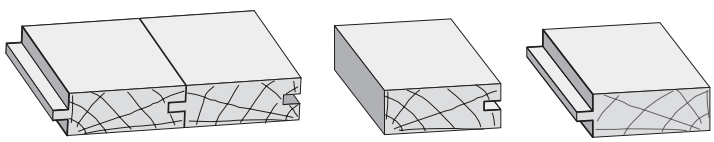


PART NO.	CUTTING DIAM.	GROOVE WIDTH	GROOVE DEPTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB31-7	1-7/8"	5/64"	1/8"	1/2"	3"	3

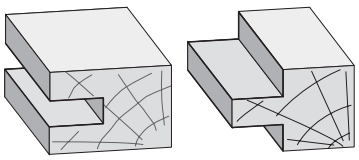
Maximum wood thickness 3/8"

STANDARD SET CONSISTS OF:

Arbor and nut (1 piece)	AR11
Groover 5/64" (1 piece)	R4005-1
Rabbeting Cutter 5.32" (2 pieces)	R4002
Super Glide Bearing 40.8mm	B36
Super Glide Bearing 43mm	B38
Spacer 6.0mm (1 piece)	WF618
Spacer 3.15mm (1 piece)	WF611
Spacer 1.0mm (2 pieces)	WF608
Shim 0.1mm (1 piece)	WF604
Shim 0.05mm (1 piece)	WF600







PART NO.	LARGE DIAM.	MAX. WOOD THICKNESS	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB31-6	1-5/8"	3/4"	1/2"	3"	2

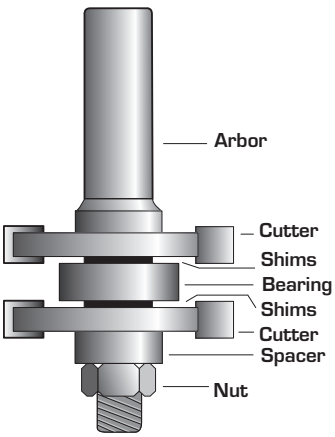
STANDARD SET CONSISTS OF:

Arbor and nut	AR11
Ball Bearing	B5
Spacers 6.0mm (2 pieces)	WF618
Washer 1.0mm (1 piece)	WF608
Shims 0.5mm (2 pieces)	WF606
Shims 0.1mm (4 pieces)	WF604
Cutters 1-5/8" diam.	
1/4" kerf x 2 teeth (2 pieces)	FRB28G

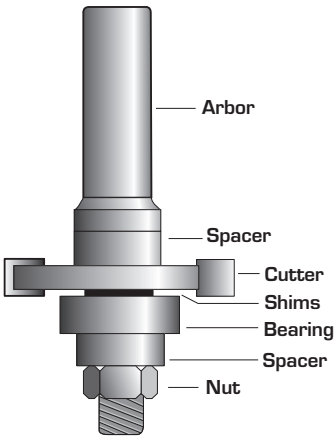
ANGULAR TONGUE AND GROOVE CUTTER SET

This Tongue and Groove Cutter enables perfect results in stock up to 18mm (apx. 3/4"). The groove is of 1/4" (6.35mm) in width and of 3/8" (9.5mm) in depth. When changing over from assembly (A) to assembly (B), according to the drawings below, the centre of the groove is automatically adjusted and there is no need to raise or lower the router. With the aid of the supplied shims, there is always the possibility to achieve the required tightness of the joint, even after resharpening groovers.

Typical Assembly (tongue)



Typical Assembly (groove)



FRB170 TONGUE AND GROOVE CUTTER SET
"V" PANEL PROFILE



PART NO.	LARGE DIAM.	DEG. BEVEL	GROOVE WIDTH	GROOVE DEPTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB170	1-13/16"	45°	5/32"	1/4"	1/2"	3"	2

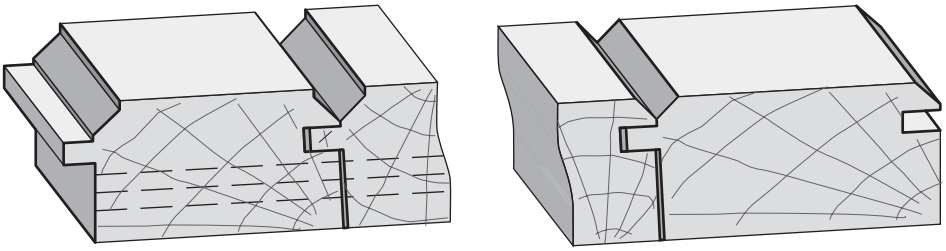
Minimum wood thickness 1/2"

Maximum wood thickness 1"

STANDARD SET CONTENTS:

Arbor with nut (1 piece)	AR21
Ball bearing (1 piece)	B5
Ball bearing (1 piece)	B6-6
Profile cutter (1 piece)	FRB170PC
Rabeting cutter (1 piece)	FRB170RC
Grooving cutter (1 piece)	FRB170GC
Spacer 3.0mm (3 pieces)	WF610
Spacer 1.0mm (3 pieces)	WF608
Shim 0.5mm (1 piece)	WF606
Shim 0.4mm (1 piece)	WF605
Shim 0.1mm (3 pieces)	WF604
Shim 0.05mm (1 piece)	WF600

SCALE 1:1



FRB171 TONGUE AND GROOVE SET
RADIUS PANEL PROFILE



PART NO.	LARGE DIAM.	RADIUS	GROOVE WIDTH	GROOVE DEPTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB171	1-13/16"	15/64"	5/32"	1/4"	1/2"	3"	2

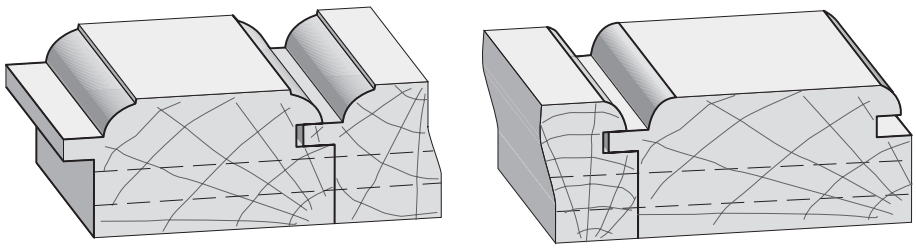
Minimum wood thickness 1/2"

Maximum wood thickness 1"

STANDARD SET CONTENTS:

Arbor with nut (1 piece)	AR21
Ball bearing (1 piece)	B5
Ball bearing (1 piece)	B6-6
Profile cutter (1 piece)	FRB171PC
Rabeting cutter (1 piece)	FRB170RC
Grooving cutter (1 piece)	FRB171GC
Spacer 3.0mm (3 pieces)	WF610
Spacer 1.0mm (3 pieces)	WF608
Shim 0.5mm (1 piece)	WF606
Shim 0.4mm (1 piece)	WF605
Shim 0.1mm (3 pieces)	WF604
Shim 0.05mm (1 piece)	WF600

SCALE 1:1



R4165 SPLINE GLUE JOINT BITS
TWO FLUTES



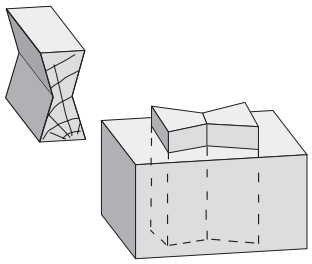
R4165



R2609-1

PART NO.	CUTTING DIAM.	CUTTING LENGTH	DEGREE EA. SIDE	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R4165 •	1-7/64"	1-13/16"	14°	1/2"	3-5/16"	2
R2609-1	7/8"	7/8"	14°	1/2"	2-5/8"	2

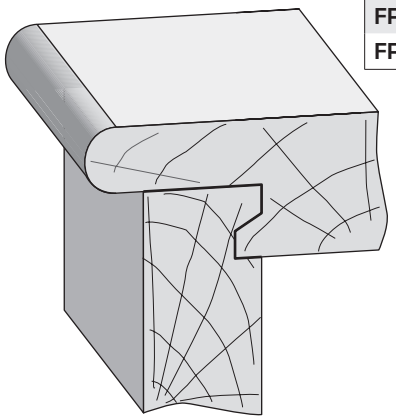
• Above bit can be used with other Dovetail bits R2602, R2606, R2608-1, R2610 (page F40)



FRB72-1 DRAWER LOCK BITS
TWO FLUTES



SCALE 1:1



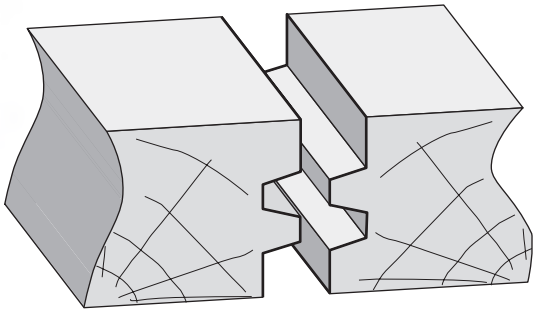
PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB72-1	3/4"	1/2"	1/4"	1-7/8"	2
FRB72-3	1"	1/2"	1/2"	1-7/8"	2

FRB72 GLUE JOINT BITS
TWO FLUTES



PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB72	1-29/64"	1-1/8"	1/2"	2-5/8"	2

SCALE 1:1

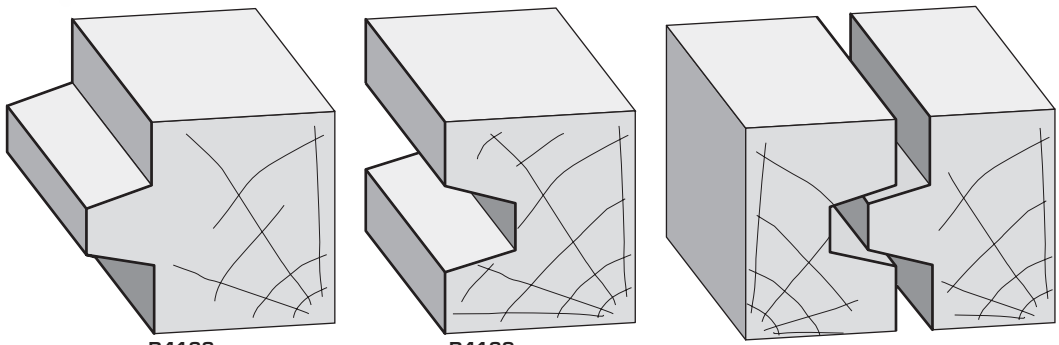


R4167 BEVEL GLUE JOINT BITS
TWO FLUTES



PART NO.	CUTTING DIAM.	CUTTING LENGTH	DEGREE EA. SIDE	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R4167	Complete Set (2 Bits)					
R4168	1-1/4"	1-1/4"	15°	1/2"	2-3/4"	2
R4169	1-1/4"	1-1/4"	15°	1/2"	2-3/4"	2

SCALE 1:1



R4168 R4169

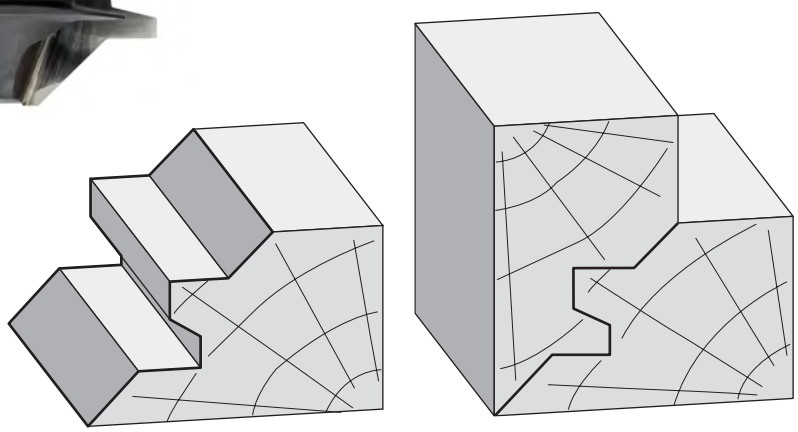
FRB73 LOCK MITER BITS
90° CORNER



PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB73-2	1-3/4"	3/4"	1/2"	2-1/4"	2
FRB73	2-23/32"	1-3/16"	1/2"	3-1/8"	2

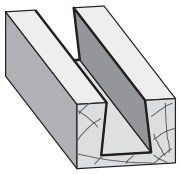
Max. RPM: 18,000

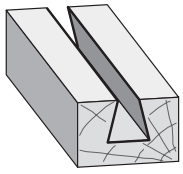
SCALE 1:1

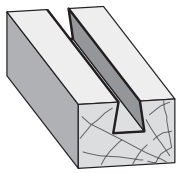


R2600 DOVETAIL BITS
WITHOUT GUIDE









PART NO.	DEGREE EA. SIDE	LARGE DIAM.	DEPTH OF CUT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2600	9°	5/16"	3/8"	1/4"	2-1/2"	2
R2600-1	25°	13/64"	5/32"	1/4"	2-3/8"	2
R2600-2	7.5°	1/4"	5/16"	1/4"	2-1/2"	2
R2601	9°	3/8"	3/8"	1/4"	2"	2
R2602	14°	1/2"	1/2"	1/4"	2"	2
R2602-1	14°	17/32"	1/2"	1/4"	1-3/4"	2
R2603	9°	3/8"	3/8"	3/8"	2"	2
R2604	7°	1/2"	1/2"	3/8"	2"	2
R2604-1	9°	5/16"	3/8"	1/2"	2-1/2"	2
R2605	9°	3/8"	3/8"	1/2"	1-5/8"	2
R2606	14°	1/2"	1/2"	1/2"	2-1/8"	2
R2607	7°	5/8"	7/8"	1/2"	2-1/16"	2
R2608	7°	3/4"	7/8"	1/2"	2-1/2"	2
R2608-1	14°	3/4"	3/4"	1/2"	2-1/2"	2
R2609	7°	7/8"	7/8"	1/2"	2-3/8"	2
R2609-1	14°	7/8"	7/8"	1/2"	2-5/8"	2
R2610	14°	1"	1"	1/2"	2-5/8"	2
R2610-1	7°	1-1/8"	3/4"	1/2"	2-3/8"	2
R2611	14°	1-1/4"	1"	1/2"	2-5/16"	2

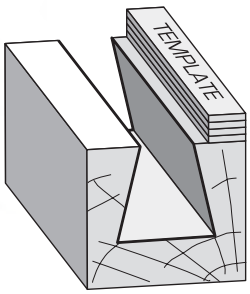
LEFT-HAND DOVETAIL BITS

PART NO.	DEGREE EA. SIDE	LARGE DIAM.	DEPTH OF CUT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2600L	9°	5/16"	3/8"	1/4"	2-1/2"	2
R2605L	9°	3/8"	3/8"	1/2"	1-5/8"	2
R2606L	14°	1/2"	1/2"	1/2"	2-1/4"	2
R2607L	7°	5/8"	7/8"	1/2"	2-1/16"	2
R2608L	7°	3/4"	7/8"	1/2"	2-1/2"	2
R2609L	7°	7/8"	7/8"	1/2"	2-3/8"	2
R2609-1L	14°	7/8"	7/8"	1/2"	2-5/8"	2
R2610L	14°	1"	1"	1/2"	2-5/8"	2

R2620 DOVETAIL BIT
WITH BEARING GUIDE



SCALE 1:1



PART NO.	DEGREE EA. SIDE	CUTTING DIAM.	CUTTING DEPTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2620	14°	1/2"	1/2"	1/4"	2-1/4"	2

REPLACEMENT PARTS

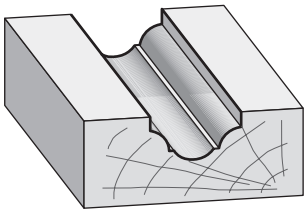
BALL BEARING	LOCK RING	SCREW
B3-1	W01	WNC525

FRB10 BEAD PROFILE WITH ROUND NOSE BOTTOM
PLUNGE TYPE

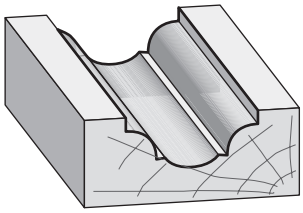


PART NO.	LARGE DIAM.	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
FRB10	1/2"	3/8"	1/4"	2
FRB11	3/4"	1/2"	1/4"	2
FRB12	3/4"	1/2"	1/2"	2
FRB13	1"	5/8"	1/2"	2

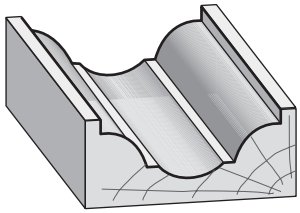
SCALE 1:1



FRB10



FRB11
FRB12



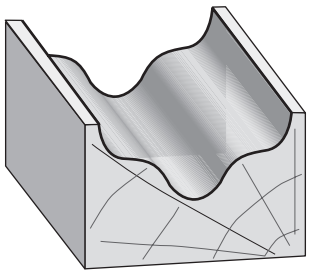
FRB13

FRB23-1 OGEE PROFILE WITH ROUND NOSE BOTTOM
PLUNGE TYPE



PART NO.	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
FRB23-1	1-1/16"	15/64"	7/16"	1/4"	2
FRB23-2	1-1/16"	15/64"	7/16"	1/2"	2

SCALE 1:1

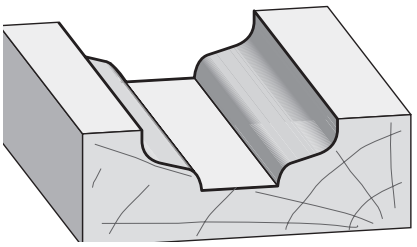


FRB66-1 ELLIPSE OGEE PROFILE WITH FLAT BOTTOM
PLUNGE TYPE

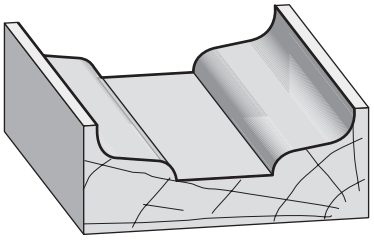


PART NO.	CUTTING DIAM.	CUTTING LENGTH	RADIUS	SHANK DIAM.	OVERALL LENGTH
FRB66-1	1"	3/8"	1/8"	1/4"	2"
FRB66-2	1-3/8"	3/8"	1/8"	1/2"	2-1/4"

SCALE 1:1



FRB66-1



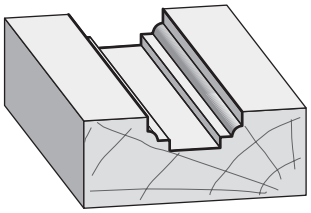
FRB66-2

FRB02 BEAD PROFILE WITH FLAT BOTTOM
PLUNGE TYPE

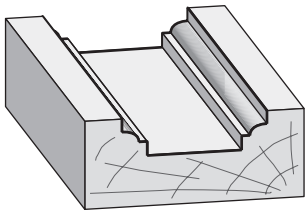


PART NO.	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
FRB02	1/2"	3/64"	3/8"	1/4"	2
FRB03	3/4"	1/16"	7/16"	1/4"	2
FRB04	3/4"	1/16"	7/16"	1/2"	2

SCALE 1:1



FRB02



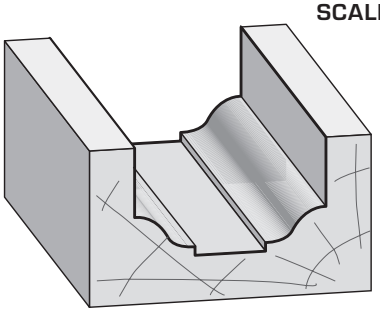
FRB03
FRB04

FRB01-5 OGEE PROFILE WITH FLAT BOTTOM
PLUNGE TYPE

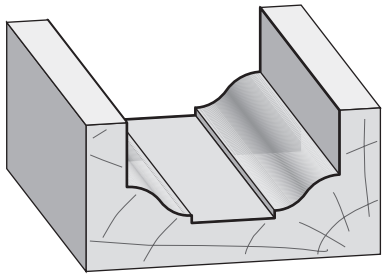


PART NO.	LARGE DIAM.	SMALL DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB01-5	1"	3/8"	19/32"	1/2"	2-3/32"	2
FRB01-6	1-3/16"	15/32"	19/32"	1/2"	2-3/32"	2

SCALE 1:1



FRB01-5



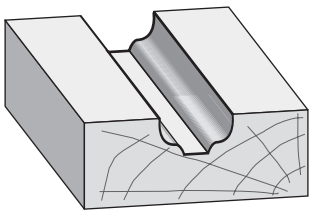
FRB01-6

FRB06 TALL OGEE PROFILE WITH FLAT BOTTOM
PLUNGE TYPE

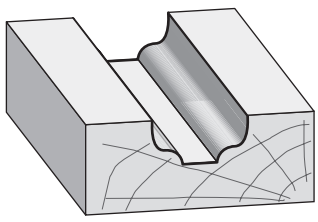


PART NO.	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
FRB06	3/8"	1/16"	5/16"	1/4"	2
FRB07	1/2"	5/64"	3/8"	1/4"	2
FRB08	3/4"	1/8"	7/16"	1/4"	2
FRB09	3/4"	1/8"	7/16"	1/2"	2

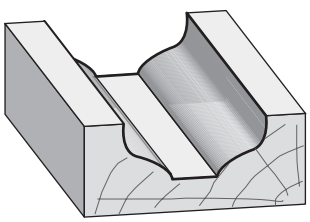
SCALE 1:1



FRB06



FRB07



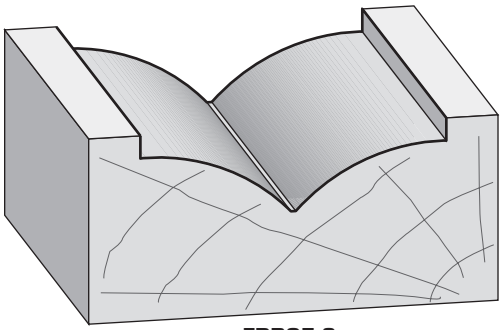
FRB08
FRB09

FRB05-3 ROUNDING OVER PROFILE
PLUNGE TYPE

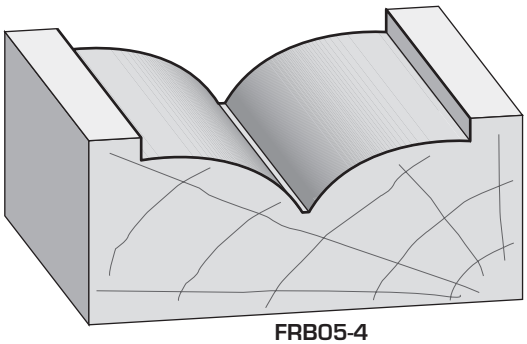


PART NO.	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB05-3	1-3/4"	23/32"	23/32"	1/2"	2-7/32"	2
FRB05-4	1-5/8"	1"	23/32"	1/2"	2-7/32"	2

SCALE 1:1



FRB05-3



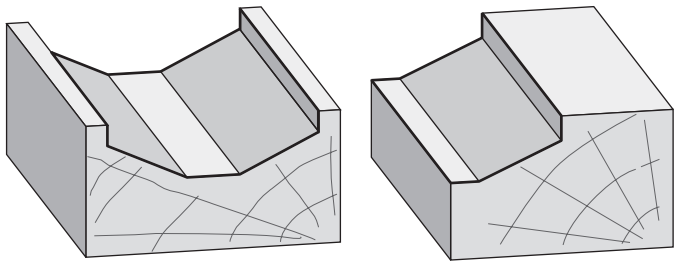
FRB05-4

FRB05 PROVINCIAL PROFILE
PLUNGE TYPE WITH RAISED PANEL



PART NO.	LARGE DIAM.	CARBIDE HEIGHT	SHANK DIAM.	DEGREE BEVEL	OVERALL LENGTH	NO. FLUTES
FRB05	1-1/8"	1/2"	1/2"	30°	2-3/4"	2

SCALE 1:1



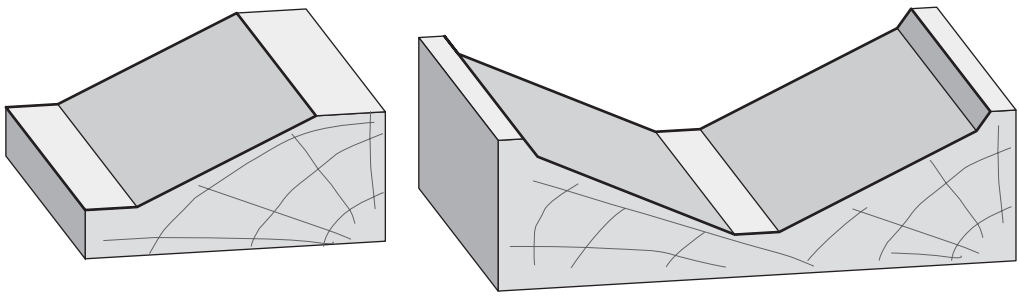
FRB25-4 PROVINCIAL PROFILE
PLUNGE TYPE WITH RAISED PANEL



PART NO.	CUTTING DIAM.	CARBIDE HEIGHT	SHANK DIAM.	DEGREE BEVEL	OVERALL LENGTH	NO. FLUTES
FRB25-4 •	2-3/4"	3/4"	1/2"	25°	2-1/4"	2

• Max. RPM: 18,000

SCALE 1:1

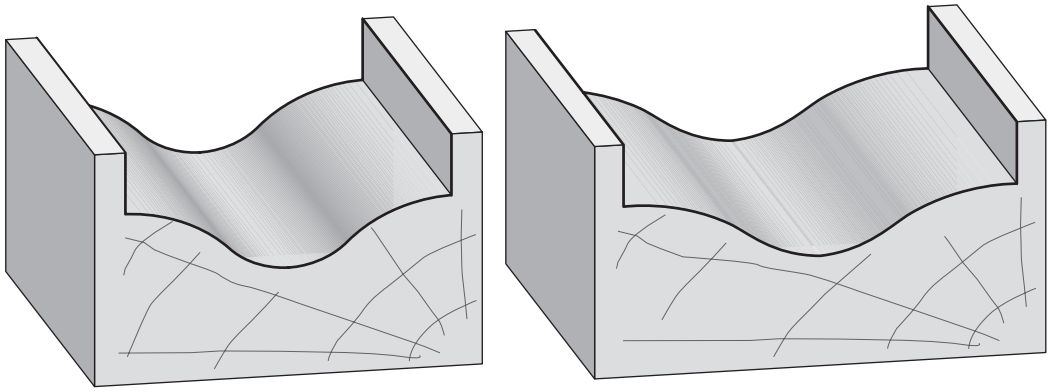


FRB01-7 THUMBNAIL PROFILE
PLUNGE TYPE



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB01-7	1-5/8"	23/32"	1/2"	2-13/64"	2
FRB01-8	1-31/32"	23/32"	1/2"	2-13/64"	2

SCALE 1:1



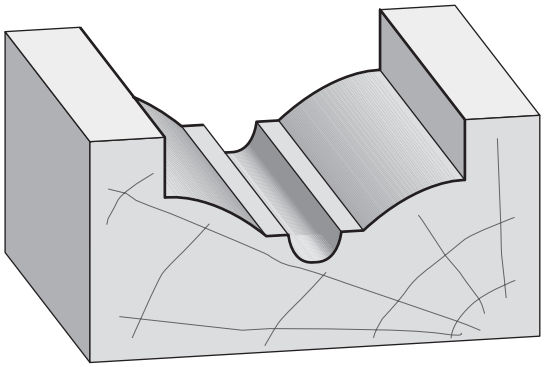
FRB01-7 FRB01-8

FRB05-1 THUMBNAIL PROFILE WITH ROUND NOSE BOTTOM
PROFILE TYPE



PART NO.	LARGE DIAM.	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB05-1	1-9/16"	25/32"	1/2"	2-9/32"	2

SCALE 1:1



FRB200 MATCHING QUARTER ROUND AND COVE PROFILES
WITH UPPER AND LOWER BALL BEARING GUIDES

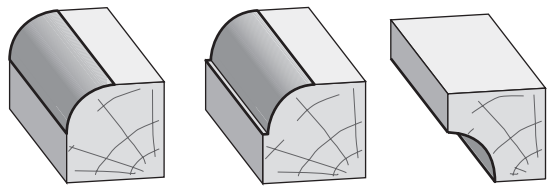


APPLICATION:

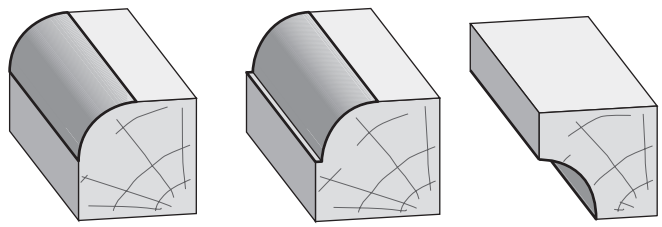
» This unique router bit with two flutes and double ball bearing guides performs two machining cuts; rounding over and cove
» To achieve beading cuts, use additional Ball Bearing part No.B3-1B

PART NO.	LARGE DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB200	1-1/8"	1/4"	35/64"	1/4"	2-19/32"	2
FRB201	1-1/4"	5/16"	43/64"	1/4"	2-23/32"	2
FRB202	1-3/8"	3/8"	51/64"	1/4"	2-27/32"	2

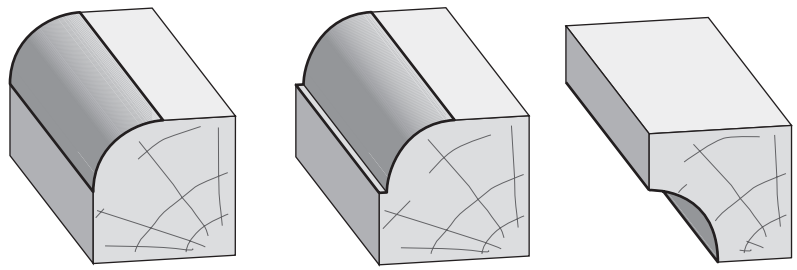
SCALE 1:1



FRB200



FRB201



FRB202

REPLACEMENT PARTS

BALL BEARING	EXTERNAL CIRCLIP	SCREW	WASHER
B3-4A	WC01	WNF1012	WFS500

FRB160 MATCHING COVE AND BEAD PROFILES
WITH BALL BEARING GUIDE

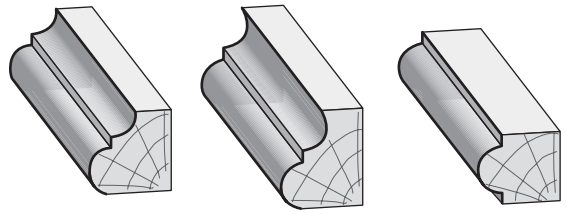


PART NO.	TOOL TYPE	LARGE DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB160	A	1"	1/8"	5/8"	1/4"	2-1/4"	2
FRB161	A	1"	1/8"	5/8"	1/2"	2-5/8"	2
FRB162	A	1-1/4"	3/16"	1"	1/4"	2-5/8"	2
FRB163	A	1-1/4"	3/16"	1"	1/2"	2-7/8"	2
FRB164	B	2"	1/4"	1-1/4"	1/2"	3-1/8"	2

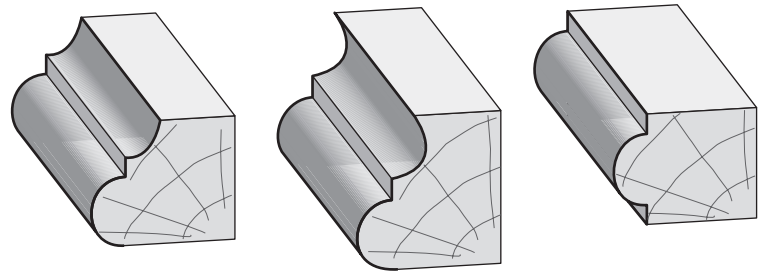
REPLACEMENT PARTS

TOOL TYPE	BALL BEARING	WASHER	SPRING WASHER	SCREW
A	B3	WR58	WFS506	WNC538
B	B3-4	WR59	WFS506	WNC538

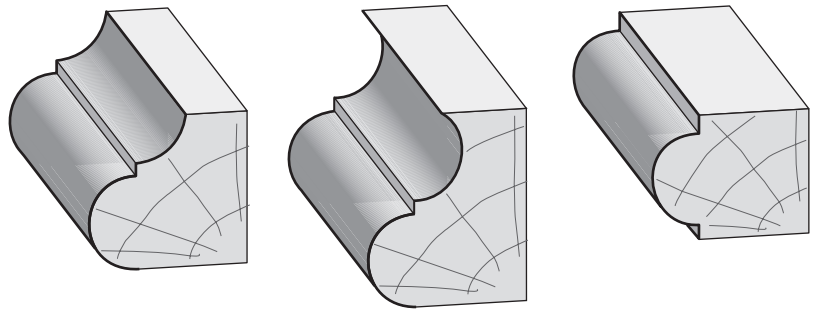
SCALE 1:1



FRB160
FRB161



FRB162
FRB163



FRB164

FRB195 MULTI-PROFILE BIT
WITH BALL BEARING GUIDE



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB195	2-1/8"	1-7/8"	1/2"	3-3/4"	2

Max. RPM: 18,000

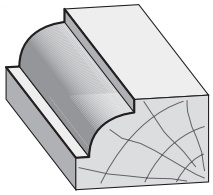
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

SCALE 1:1

R3100 BEAD PROFILE
WITH BALL BEARING GUIDE





PART NO.	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
R3100-1	5/8"	1/16"	5/16"	1/4"	2
R3100-2	3/4"	1/8"	3/8"	1/4"	2
R3100-3	3/4"	5/32"	3/8"	1/4"	2
R3100	7/8"	3/16"	1/2"	1/4"	2
R3101	1"	1/4"	1/2"	1/4"	2
R3102	1-1/8"	5/16"	1/2"	1/4"	2
R3103	1-1/4"	3/8"	5/8"	1/4"	2
R3104	1-1/2"	1/2"	3/4"	1/4"	2
R3105-1	5/8"	1/16"	5/16"	1/2"	2
R3105-2	3/4"	1/8"	3/8"	1/2"	2
R3105-3	3/4"	5/32"	3/8"	1/2"	2
R3105	7/8"	3/16"	1/2"	1/2"	2
R3106	1"	1/4"	1/2"	1/2"	2
R3107	1-1/8"	5/16"	1/2"	1/2"	2
R3108	1-1/4"	3/8"	5/8"	1/2"	2
R3109	1-1/2"	1/2"	3/4"	1/2"	2
R3109-1	1-3/4"	5/8"	7/8"	1/2"	2
R3110	2"	3/4"	1"	1/2"	2
R3111	2-1/4"	7/8"	1-1/4"	1/2"	2
R3112	2-1/2"	1"	1-1/4"	1/2"	2
R3112-1 ▲	2-3/4"	1-1/8"	1-3/8"	1/2"	2
R3113 ▲	3"	1-1/4"	1-1/2"	1/2"	2
R3113-1 •	3-1/4"	1-3/8"	1-9/16"	1/2"	2
R3114 •	3-1/2"	1-1/2"	1-3/4"	1/2"	2

• Max RPM: 16,000

▲ Max RPM: 18,000

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B2	WFS500	WFS506	WNC538

FRB45 DOUBLE ROUND OVER/BEAD PROFILE
WITH BALL BEARING GUIDE



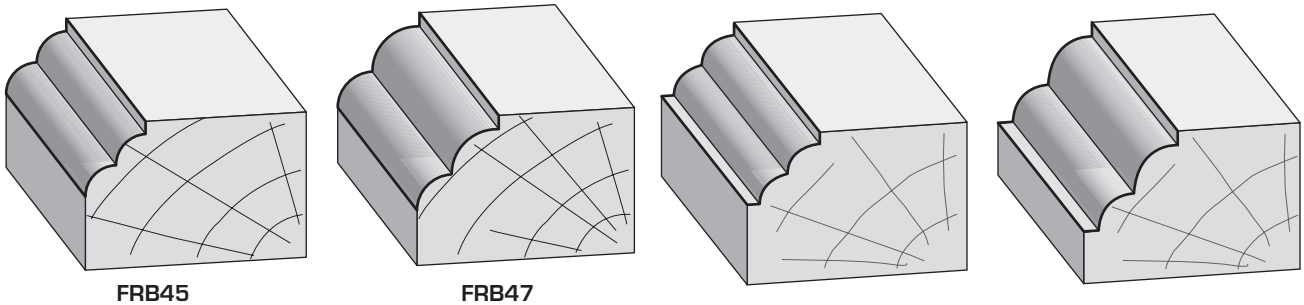
PART NO.	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
FRB45	1-1/8"	5/32"	1/2"	1/4"	2
FRB46	1-1/8"	5/32"	1/2"	1/2"	2
FRB47	1-3/8"	1/4"	11/16"	1/4"	2
FRB48	1-3/8"	1/4"	11/16"	1/2"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

ADDITIONAL PROFILES: Bottom Fillet added to profile using 3/8" Ball Bearing (Part No. B2) and Washer (WFS500)

SCALE 1:1

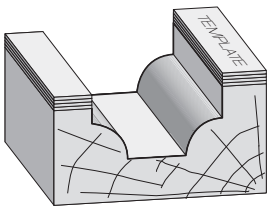


FRB45
FRB46

FRB47
FRB48

R3030 BEAD PROFILE
PLUNGE TYPE WITH UPPER BALL BEARING





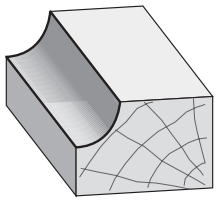
PART NO.	LARGE DIAM.	RADIUS	SMALL DIAM.	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
R3030	1/2"	1/8"	1/4"	3/8"	1/4"	2
R3032	3/4"	1/8"	1/2"	3/8"	1/4"	2
R3034	7/8"	5/16"	1/2"	1/2"	1/4"	2
R3036	1-1/8"	5/16"	1/2"	9/16"	1/2"	2

REPLACEMENT PARTS

TOOL NO.	BALL BEARING	LOCK RING	SCREW
R3030	B3-1	W01	WNC525
R3032	B4	W01	WNC525
R3034	B5	W01	WNC525
R3036	B6-4	W03	WNC518

R2800 COVE PROFILE WITHOUT FILLET
WITH BALL BEARING GUIDE





PART NO.	TOOL TYPE	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
R2800-1	A	1/2"	1/16"	1/2"	1/4"	2
R2800-2	A	1/2"	1/16"	1/2"	1/2"	2
R2800-3	A	5/8"	1/8"	1/2"	1/4"	2
R2800-4	A	5/8"	1/8"	1/2"	1/2"	2
R2800-A	A	3/4"	3/16"	9/16"	1/4"	2
R2803-A	A	3/4"	3/16"	9/16"	1/2"	2
R2800	A	7/8"	1/4"	9/16"	1/4"	2
R2803	A	7/8"	1/4"	9/16"	1/2"	2
R2803-1	A	1"	5/16"	9/16"	1/4"	2
R2803-2	A	1"	5/16"	9/16"	1/2"	2
R2801	A	1-1/8"	3/8"	9/16"	1/4"	2
R2804	A	1-1/8"	3/8"	9/16"	1/2"	2
R2802	A	1-3/8"	1/2"	3/4"	1/4"	2
R2805	A	1-3/8"	1/2"	3/4"	1/2"	2
R2806	A	1-5/8"	5/8"	3/4"	1/2"	2
R2807	B	1-7/8"	3/4"	1"	1/2"	2
R2808	B	2-3/8"	7/8"	1-1/4"	1/2"	2
R2809	B	2-3/8"	1"	1-1/4"	1/2"	2
R2810 •	B	3"	1-1/4"	1-1/2"	1/2"	2

• Max. RPM: 18,000

REPLACEMENT PARTS

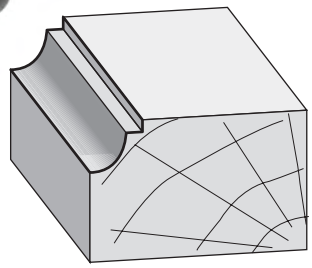
TOOL TYPE	BALL BEARING	WASHER	SPRING WASHER	SCREW
A	B1	WR12	WFS504	WNC338
B	B3	WR58	WFS506	WNC538

FRB53 COVE PROFILE
WITH BALL BEARING GUIDE

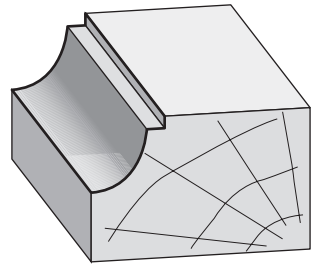


PART NO.	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
FRB53	1-1/8"	3/16"	1/2"	1/4"	2
FRB54	1-1/8"	3/16"	1/2"	1/2"	2
FRB55	1-3/8"	5/16"	5/8"	1/4"	2
FRB56	1-3/8"	5/16"	5/8"	1/2"	2

SCALE 1:1



FRB53
FRB54



FRB55
FRB56

REPLACEMENT PARTS

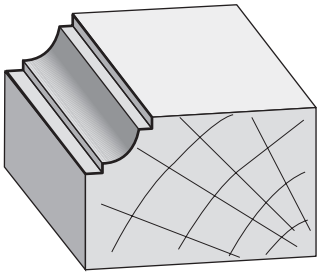
BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB49 COVE PROFILE WITH TOP AND BOTTOM FILLET
WITH BALL BEARING GUIDE

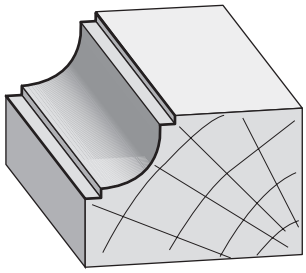


PART NO.	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
FRB49	1-1/8"	3/16"	1/2"	1/4"	2
FRB50	1-1/8"	3/16"	1/2"	1/2"	2
FRB51	1-3/8"	5/16"	5/8"	1/4"	2
FRB52	1-3/8"	5/16"	5/8"	1/2"	2

SCALE 1:1



FRB49
FRB50



FRB51
FRB52

REPLACEMENT PARTS

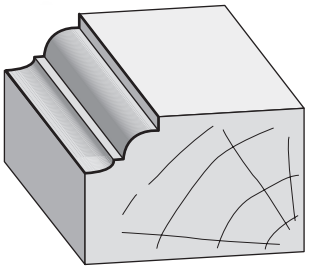
BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB14 BEAD AND COVE PROFILE
WITH BALL BEARING GUIDE

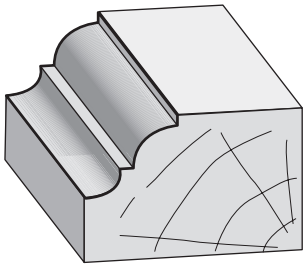


PART NO.	LARGE DIAM.	RADIUS R1	RADIUS R2	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
FRB14	1-1/4"	3/16"	1/16"	1/2"	1/4"	2
FRB15	1-1/4"	3/16"	1/16"	1/2"	1/2"	2
FRB16	1-1/2"	15/64"	9/64"	5/8"	1/4"	2
FRB17	1-1/2"	15/64"	9/64"	5/8"	1/2"	2

SCALE 1:1



FRB14
FRB15



FRB16
FRB17

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB37 BEAD AND COVE PROFILE
WITH BALL BEARING GUIDE

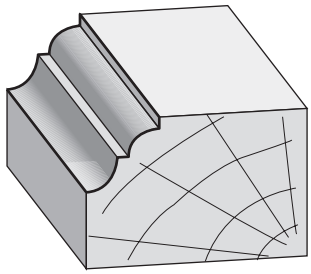


PART NO.	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
FRB37	1"	5/32"	5/8"	1/4"	2
FRB38	1"	5/32"	5/8"	1/2"	2
FRB39	1-3/8"	1/4"	3/4"	1/4"	2
FRB40	1-3/8"	1/4"	3/4"	1/2"	2

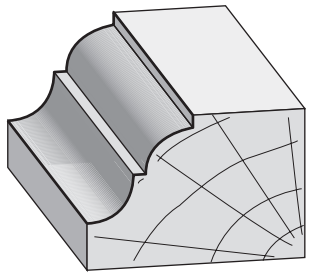
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B1	WR12	WFS504	WNC538

SCALE 1:1



FRB37
FRB38



FRB39
FRB40

FRB33 COVE AND BEAD PROFILE WITHOUT FILLET
WITH BALL BEARING GUIDE

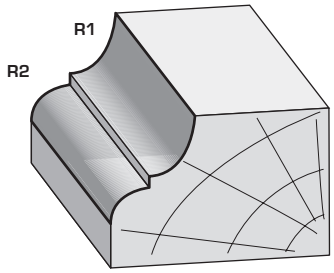


PART NO.	LARGE DIAM.	RADIUS R1	RADIUS R2	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
FRB33	1-1/8"	5/32"	5/32"	1/2"	1/4"	2
FRB34	1-1/8"	5/32"	5/32"	1/2"	1/2"	2
FRB35	1-3/8"	1/4"	3/16"	11/16"	1/4"	2
FRB36	1-3/8"	1/4"	3/16"	11/16"	1/2"	2

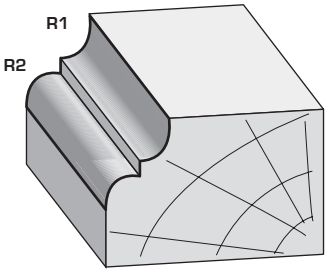
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

SCALE 1:1

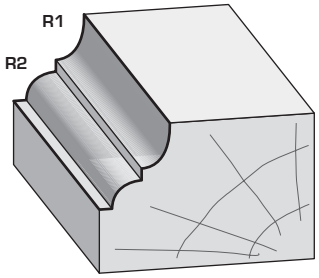


FRB33
FRB34

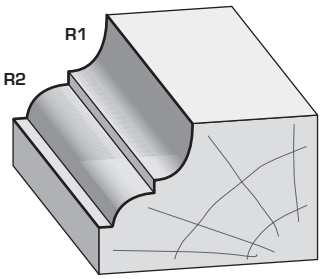


FRB35
FRB36

ADDITIONAL PROFILES: Bottom Fillet added to profile using 3/8" Ball Bearing (Part No. B2) and Washer (WFS500)



FRB33
FRB34

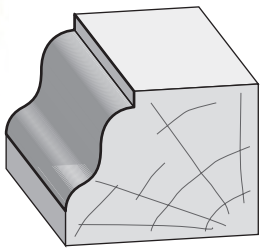


FRB35
FRB36

FRB40-1 WAVY EDGE BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
FRB40-1	1-1/4"	5/32"	11/16"	1/4"	2
FRB40-2	1-1/4"	5/32"	11/16"	1/2"	2

REPLACEMENT PARTS

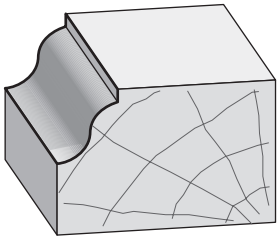
BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS504	WNC538

R3200 ROMAN OGEE PROFILE
WITH BALL BEARING GUIDE

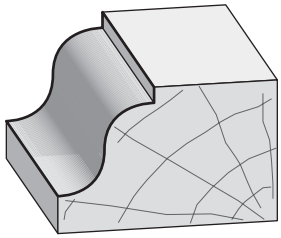


PART NO.	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
R3200	1"	5/32"	5/8"	1/4"	2
R3201	1-3/8"	1/4"	3/4"	1/4"	2
R3202	1"	5/32"	5/8"	1/2"	2
R3203	1-3/8"	1/4"	3/4"	1/2"	2

SCALE 1:1



R3200
R3202



R3201
R3203

REPLACEMENT PARTS

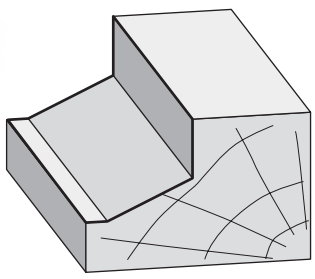
BALL BEARING	WASHER	SPRING WASHER	SCREW
B1	WR12	WFS504	WNC538

FRB25 PROVINCIAL PROFILE
WITH BALL BEARING GUIDE



PART NO.	CUTTING DIAM.	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	DEGREE BEVEL	NO. FLUTES
FRB25	1-5/8"	1/2"	1/2"	2-1/2"	25°	2

SCALE 1:1



REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB41 OGEE PROFILE WITHOUT FILLET
WITH BALL BEARING GUIDE

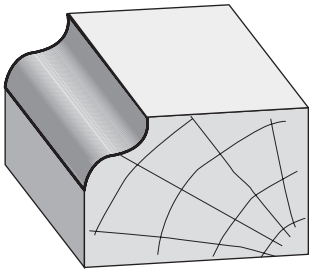


PART NO.	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
FRB41	1-1/8"	5/32"	1/2"	1/4"	2
FRB42	1-1/8"	5/32"	1/2"	1/2"	2
FRB43	1-3/8"	1/4"	11/16"	1/4"	2
FRB44	1-3/8"	1/4"	11/16"	1/2"	2

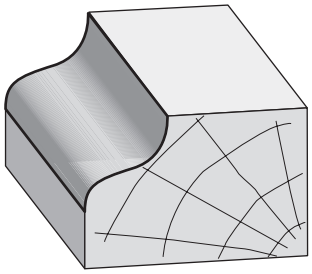
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

SCALE 1:1

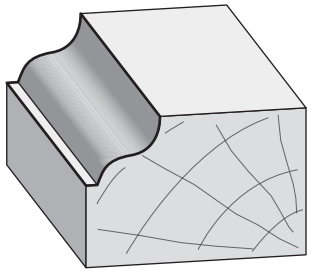


FRB41
FRB42

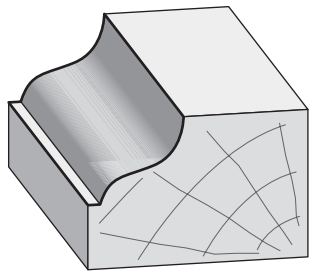


FRB43
FRB44

ADDITIONAL PROFILES: Bottom Fillet added to profile using 3/8" Ball Bearing (Part No. B2) and Washer (WFS500)



FRB41
FRB42



FRB43
FRB44

FRB18 ELLIPSE OGEE PROFILE
WITH BALL BEARING GUIDE

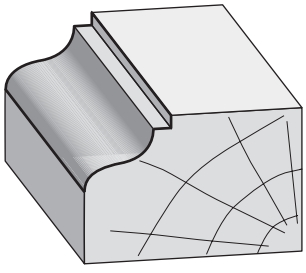


PART NO.	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
FRB18	1-3/8"	5/32"	9/16"	1/4"	2
FRB19	1-3/8"	5/32"	9/16"	1/2"	2
FRB20	1-5/8"	1/4"	3/4"	1/2"	2

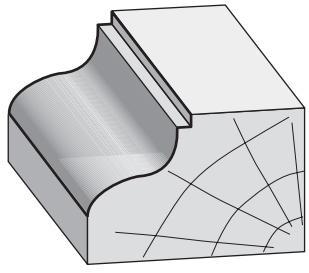
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

SCALE 1:1



FRB18
FRB19



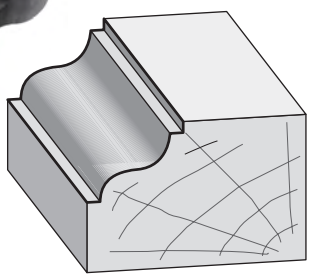
FRB20

FRB21 OGEE PROFILE WITH TOP AND BOTTOM FILLET
WITH BALL BEARING GUIDE

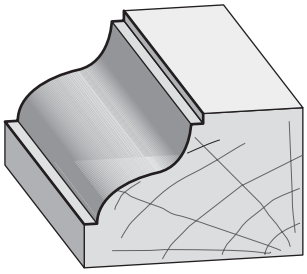


PART NO.	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
FRB21	1-3/8"	5/32"	9/16"	1/4"	2
FRB22	1-3/8"	5/32"	9/16"	1/2"	2
FRB23	1-5/8"	1/4"	3/4"	1/2"	2

SCALE 1:1



FRB21
FRB22



FRB23

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B2	WFS500	WFS506	WNC538

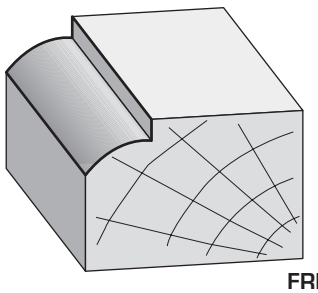
FRB67 THUMBNAIL PROFILE
WITH BALL BEARING GUIDE

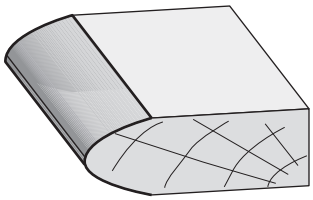


PART NO.	CUTTING DIAM.	RADIUS	CUTTING HEIGHT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB67	1-3/16"	15/32"	3/8"	1/4"	2-1/16"	2
FRB68	1-3/16"	15/32"	3/8"	1/2"	2-1/16"	2
FRB69 •	2-3/4"	1-7/8"	11/16"	1/2"	2-7/8"	2

• Max. RPM: 18,000

SCALE 1:1



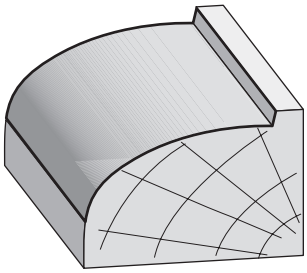


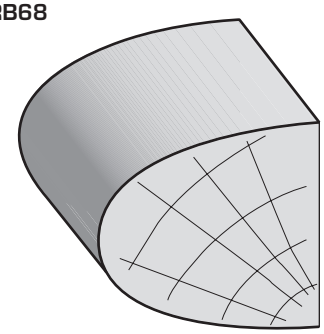
FRB67
FRB68

REPLACEMENT PARTS

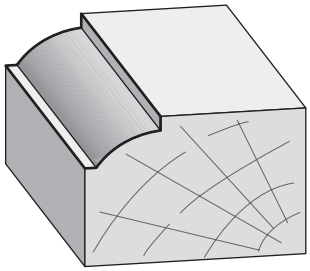
BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

ADDITIONAL PROFILES: Bottom Fillet added to profile using 3/8" Ball Bearing (Part No. B2) and Washer (WFS500)

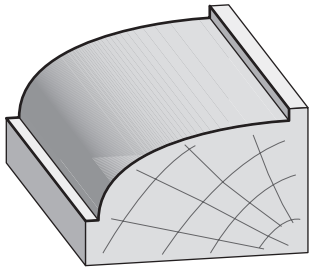




FRB69



FRB67
FRB68



FRB69

FRB63 BEAD PROFILE WITH ROUND NOSE BOTTOM
WITH UPPER BALL BEARING GUIDE

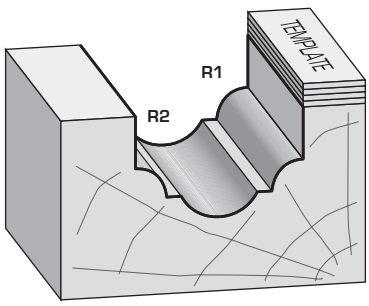


PART NO.	CUTTING DIAM.	RADIUS R1	RADIUS R2	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB63	7/8"	5/32"	7/32"	1/2"	1/4"	2"	2
FRB64	1-3/8"	1/4"	13/32"	9/16"	1/2"	2-5/8"	2

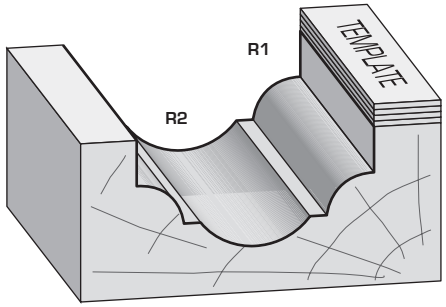
REPLACEMENT PARTS

TOOL NO.	BALL BEARING	EXTERNAL CIRCLIP
FRB63	B5	WC01
FRB64	B7	WC02

SCALE 1:1



FRB63



FRB64

FRB65 COVE AND BEAD PROFILE WITH FLAT BOTTOM
PLUNGE TYPE WITH UPPER BALL BEARING GUIDE

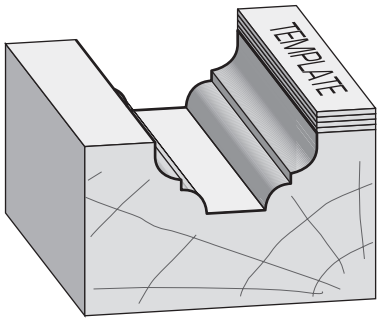


PART NO.	LARGE DIAM.	SMALL DIAM.	RADIUS R	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB65	7/8"	0.319"	9/64"	3/8"	1/4"	2"	2
FRB66	1-3/8"	0.522"	13/64"	9/16"	1/2"	2-5/8"	2

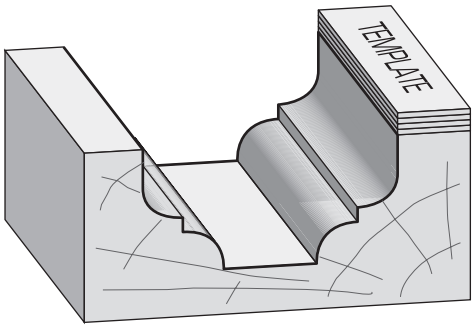
REPLACEMENT PARTS

TOOL NO.	BALL BEARING	EXTERNAL CIRCLIP
FRB65	B5	WC01
FRB66	B7	WC02

SCALE 1:1

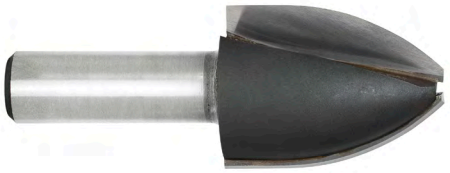


FRB65



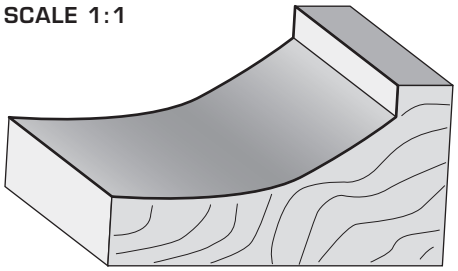
FRB66

FRB25-7 COVE PROFILE FOR RAISED PANELS
FOR VERTICAL OR 5-AXIS USE

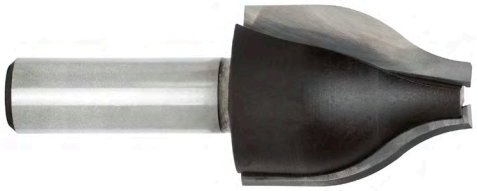


PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB25-7	1-1/8"	1-1/2"	1/2"	2-7/8"	2

SCALE 1:1

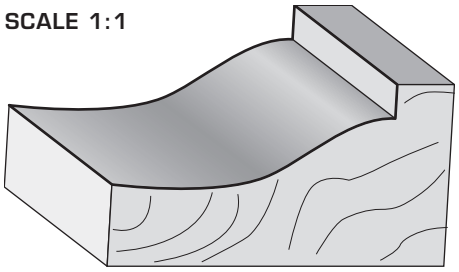


FRB25-8 OGEE PROFILE FOR RAISED PANELS
FOR VERTICAL OR 5-AXIS USE



PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB25-8	1-3/16"	1-1/2"	1/2"	2-7/8"	2

SCALE 1:1

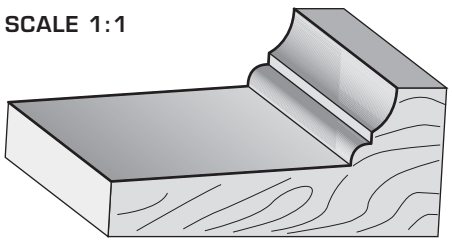


FRB25-5 PROVINCIAL PROFILE FOR RAISED PANELS
FOR VERTICAL OR 5-AXIS USE



PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB25-5	1"	1-1/2"	1/2"	2-7/8"	2

SCALE 1:1

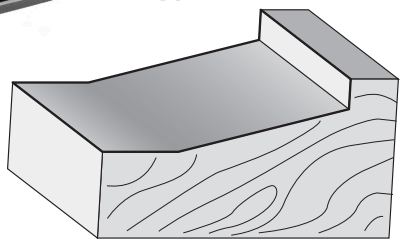


FRB25-6 PROVINCIAL PROFILE FOR RAISED PANELS
FOR VERTICAL OR 5-AXIS USE



PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB25-6	1-1/8"	1-1/2"	1/2"	2-7/8"	2

SCALE 1:1



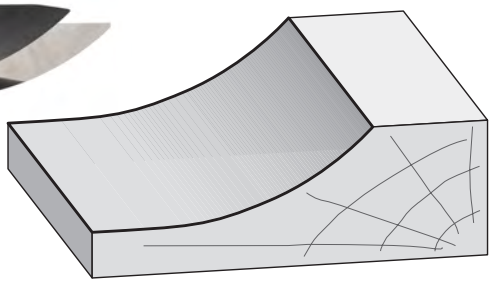
FRB25-2 COVE PROFILE FOR RAISED PANELS
WITH BALL BEARING GUIDE



PART NO.	CUTTING DIAM.	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	RADIUS	NO. FLUTES
FRB25-2	3-3/8"	1/2"	1/2"	2-3/8"	1-9/16"	2

Max. RPM: 16,000

SCALE 1:1



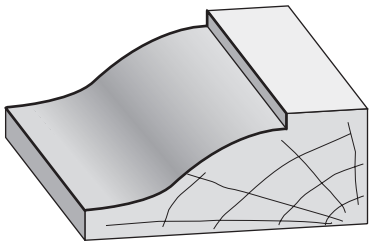
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB24 OGEE PROFILE FOR RAISED PANELS
WITH BALL BEARING GUIDE



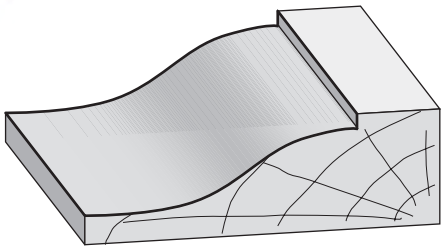
SCALE 1:1



FRB24

PART NO.	CUTTING DIAM.	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
FRB24	2-5/8	11/16"	1/2"	2
FRB24-1	3-3/8"	5/8"	1/2"	2

Max. RPM: 16,000



FRB24-1

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB25-3 PROVINCIAL PROFILE FOR RAISED PANELS
WITH BALL BEARING GUIDE



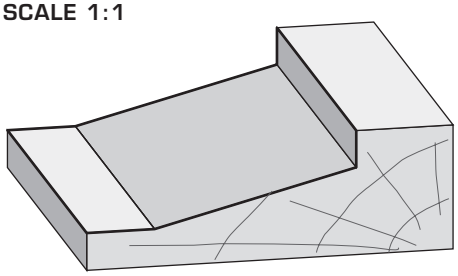
PART NO.	CUTTING DIAM.	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	DEGREE BEVEL	NO. FLUTES
FRB25-3	3-3/8"	1/2"	1/2"	2-3/8"	15°	2

Max. RPM: 16,000

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

SCALE 1:1



FRB25-1 COVE AND BEAD PROFILE FOR RAISED PANELS
WITH BALL BEARING GUIDE

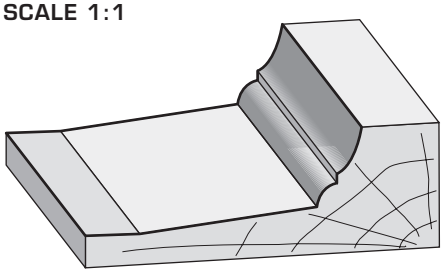


PART NO.	CUTTING DIAM.	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	RADIUS	NO. FLUTES
FRB25-1	2-1/2"	1/2"	1/2"	2-3/8"	1/4"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

SCALE 1:1



FRB23-7 COVE PROFILE FOR RAISED PANELS
WITH BACK CUTTER



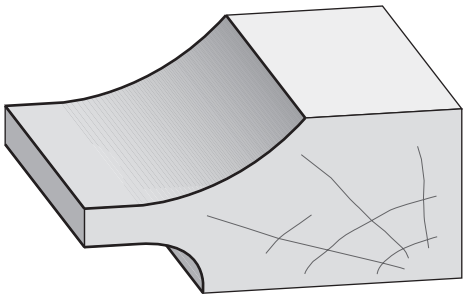
PART NO.	LARGE DIAM.	MAX. WOOD THICKNESS	SHANK DIAM.	OVERALL LENGTH
FRB23-7	3-3/8"	1-1/16"	1/2"	2-15/16"

Max. RPM 12,000

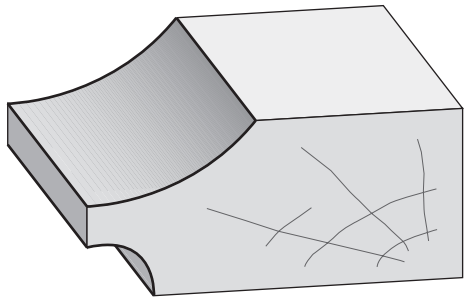
STANDARD SET CONSISTS OF:

Raised Panel Bit	FRB23-7RP
Back Cutter	FRB23-5BC
Ball Bearing 16 x 8 x 5mm	B3-4A
Ball Bearing 1-1/4" x 8 x 5mm	B6-5A
Washer 12 x 8 x 1.0mm	WF510
Shim 12 x 8 x 0.1mm (2 pieces)	WF501
Shim 12 x 8 x 0.2mm (2 pieces)	WF502
Lock Washer	WFS510
Nut NF5/16	WNF516

SCALE 1:1



Use Ball Bearing B3-4A



Use Ball Bearing B6-5A

FRB23-5 OGEE PROFILE FOR RAISED PANELS WITH BACK CUTTER



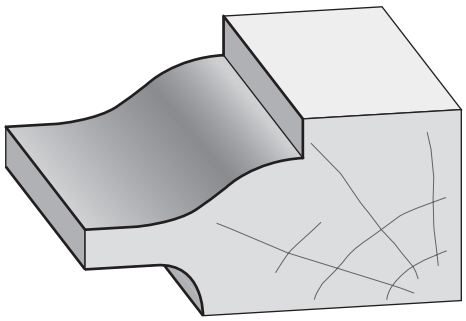
PART NO.	LARGE DIAM.	MAX. WOOD THICKNESS	SHANK DIAM.	OVERALL LENGTH
FRB23-5	3-3/8"	1-3/16"	1/2"	3-1/16"

Max. RPM: 12,000

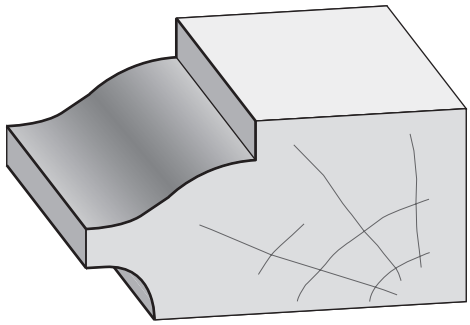
STANDARD SET CONSISTS OF:

Raised Panel Bit	FRB23-5RP
Back Cutter	FRB23-5BC
Ball Bearing 16 x 8 x 5mm	B3-4A
Ball Bearing 1-1/4" x 8 x 5mm	B6-5A
Washer 12 x 8 x 1.0mm	WF510
Shim 12 x 8 x 0.1mm (2 pieces)	WF501
Shim 12 x 8 x 0.2mm (2 pieces)	WF502
Lock Washer	WFS510
Nut NF5/16	WNF516

SCALE 1:1



Use Ball Bearing B3-4A



Use Ball Bearing B6-5A

FRB23-6 PROVINCIAL PROFILE FOR RAISED PANELS
WITH BACK CUTTER



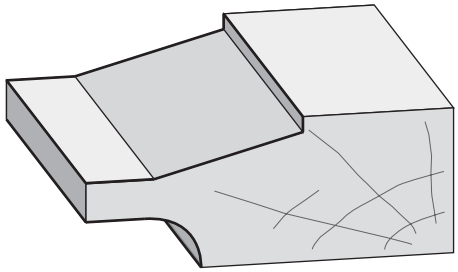
PART NO.	LARGE DIAM.	MAX. WOOD THICKNESS	SHANK DIAM.	OVERALL LENGTH
FRB23-6	3-3/8"	1-1/16"	1/2"	2-15/16"

Max. RPM: 12,000

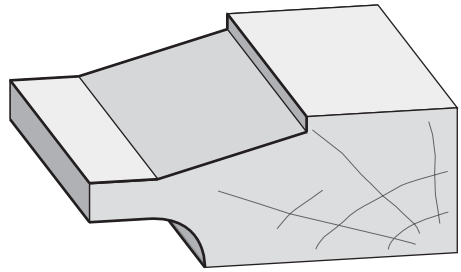
STANDARD SET CONSISTS OF:

Raised Panel Bit	FRB23-6RP
Back Cutter	FRB23-5BC
Ball Bearing 16 x 8 x 5mm	B3-4A
Ball Bearing 1-1/4" x 8 x 5mm	B6-5A
Washer 12 x 8 x 1.0mm	WF510
Shim 12 x 8 x 0.1mm (2 pieces)	WF501
Shim 12 x 8 x 0.2mm (2 pieces)	WF502
Lock Washer	WFS510
Nut NF5/16	WNF516

SCALE 1:1



Use Ball Bearing B3-4A



Use Ball Bearing B6-5A

FRB214 BEAD STILE AND RAIL
WITH BALL BEARING GUIDE

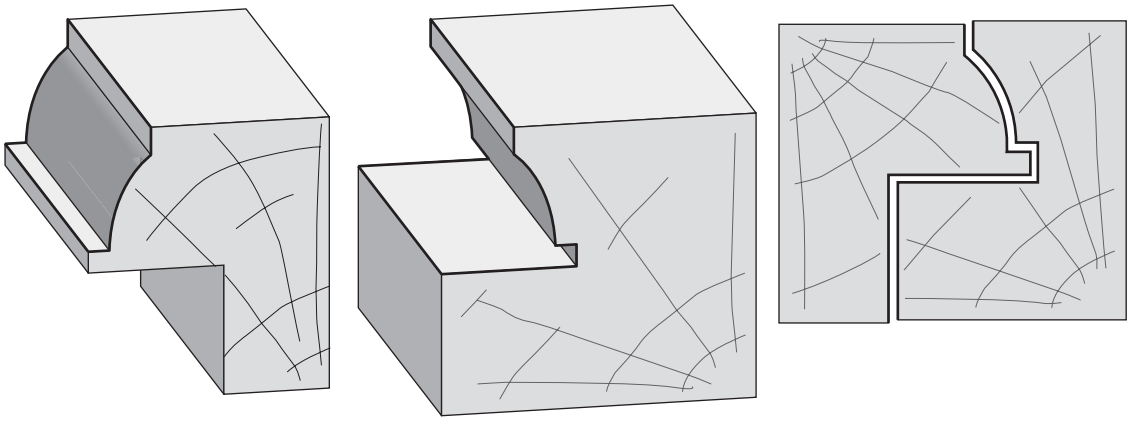


PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB215	1-5/16"	11/32"	19/32"	1/4"	2-1/4"	2
FRB216	1-3/16"	43/64"	5/8"	1/4"	2-1/16"	2
FRB217	1-7/16"	11/32"	15/32"	1/4"	2-1/16"	2

REPLACEMENT PARTS

TOOL NO.	BALL BEARING	WASHER	SPRING WASHER	LOCK RING	SCREW
FRB214	B2	WFS500	WFS506	-	WNC538
FRB215	B2	WFS500	WFS506	-	WNC538
FRB216	B3-1	-	-	W01	WNC525
FRB217	B3-1	-	-	W01	WNC525

SCALE 1:1



FRB215

FRB216
FRB217

FRB218 BEAD AND COVE STILE AND RAIL
WITH BALL BEARING GUIDE, 2PC SET

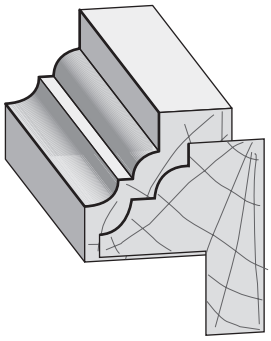


PART NO.	TOOL TYPE	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB218	Complete Set (2 bits)						
FRB219	A	1-5/64"	9/64"	1/2"	1/4"	2"	2
FRB220	B	1-13/64"	9/64"	23/64"	1/4"	2"	2

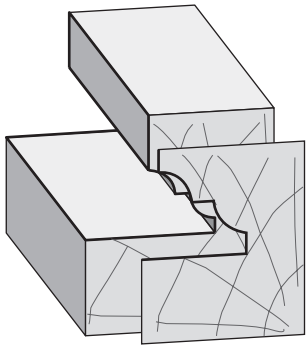
REPLACEMENT PARTS

TOOL TYPE	BALL BEARING	WASHER	SPRING WASHER	LOCK RING	SCREW
A	B2	WFS500	WFS506	-	WNC538
B	B3-1	-	-	W01	WNC525

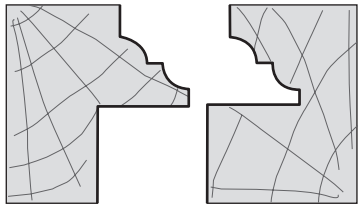
SCALE 1:1



FRB219



FRB220



FRB218 (SETS)

FRB224 OGEE STILE AND RAIL
WITH BALL BEARING GUIDE, 2PC SET

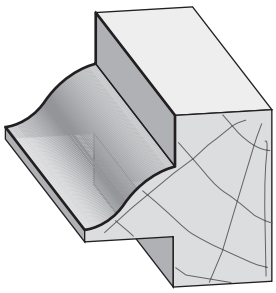


PART NO.	TOOL TYPE	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB224	Complete Set (2 bits)						
FRB225	A	1-5/16"	21/64"	35/64"	1/4"	2-3/64"	2
FRB226	B	1-7/16"	21/64"	25/64"	1/4"	2"	2
FRB227	Complete Set (2 bits)						
FRB228	A	1-15/16"	21/64"	35/64"	1/4"	2-3/64"	2
FRB229	B	1-39/64"	21/64"	7/16"	1/4"	2"	2

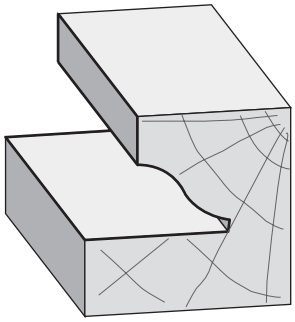
REPLACEMENT PARTS

TOOL TYPE	BALL BEARING	WASHER	SPRING WASHER	LOCK RING	SCREW
A	B2	WFS500	WFS506	-	WNC538
B	B3-1	-	-	W01	WNC525

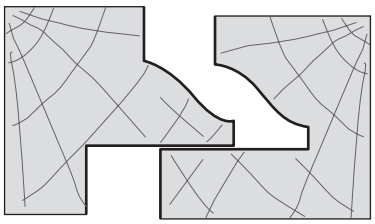
SCALE 1:1



FRB225
FRB228



FRB226
FRB229



FRB224
FRB227 (SETS)

FRB233 PROVINCIAL STILE AND RAIL
WITH BALL BEARING GUIDE, 2PC SET

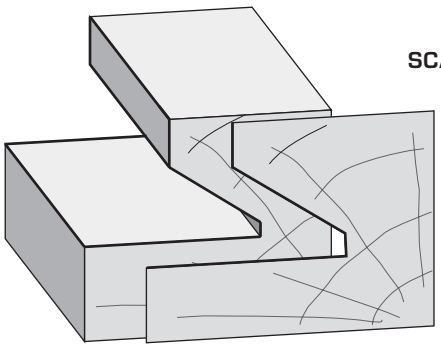


PART NO.	TOOL TYPE	LARGE DIAM.	DEGREE BEVEL	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH
FRB233	Complete Set (2 bits)					
FRB234	A	1-9/16"	32°	43/64"	1/4"	2-1/8"
FRB235	B	1-11/16"	32°	31/64"	1/4"	2"

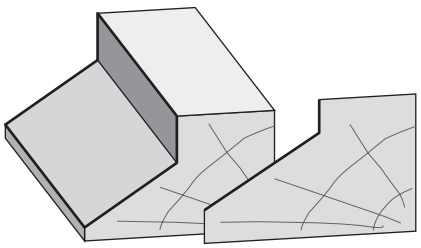
REPLACEMENT PARTS

TOOL TYPE	BALL BEARING	WASHER	SPRING WASHER	LOCK RING	SCREW
A	B2	WFS500	WFS506	-	WNC538
B	B3-1	-	-	W01	WNC525

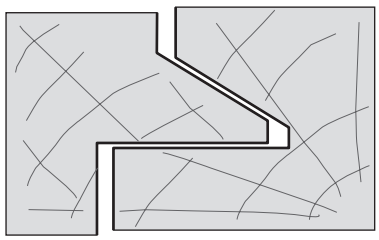
SCALE 1:1



FRB235



FRB234



FRB233 (SETS)

FRB30 SHALLOW BEAD AND COVE STILE AND RAIL
REVERSIBLE COPE AND STICK, 1PC SET

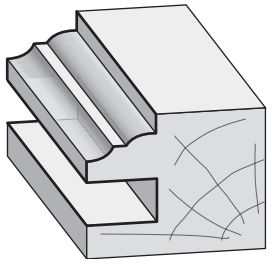


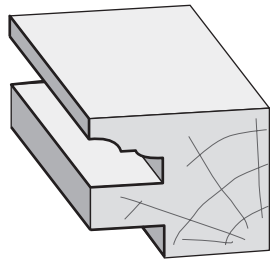
PART NO.	LARGE DIAM.	WOOD THICKNESS	SHANK DIAM.	GROOVE WIDTH	GROOVE DEPTH	OVERALL LENGTH	NO. FLUTES
FRB30	1-5/8"	3/4" to 7/8"	1/2"	1/4"	3/8"	3"	2

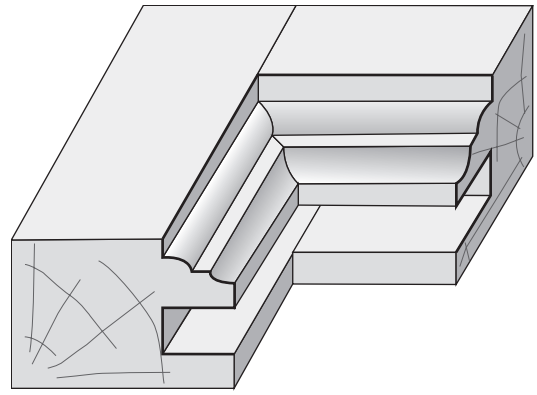
REPLACEMENT PARTS

PROFILE CUTTER ONLY	GROOVER ONLY	ARBOR AND NUT	NUT ONLY	BALL BEARING	WASHER	SPACER 0.05 MM	SPACER 0.01 MM
FRB30P	FRB28G	AR11	WNF516	B5	WF608	WF600	WF604

SCALE 1:1







FRB31 BEAD AND COVE STILE AND RAIL
REVERSIBLE COPE AND STICK, 1PC SET

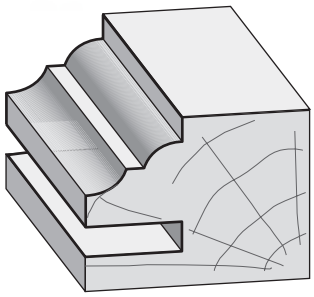


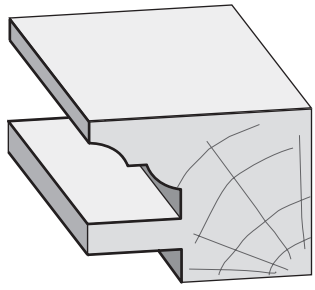
PART NO.	LARGE DIAM.	WOOD THICKNESS	SHANK DIAM.	GROOVE WIDTH	GROOVE DEPTH	OVERALL LENGTH	NO. FLUTES
FRB31	1-13/16"	3/4" to 7/8"	1/2"	5/32"	1/2"	3"	2

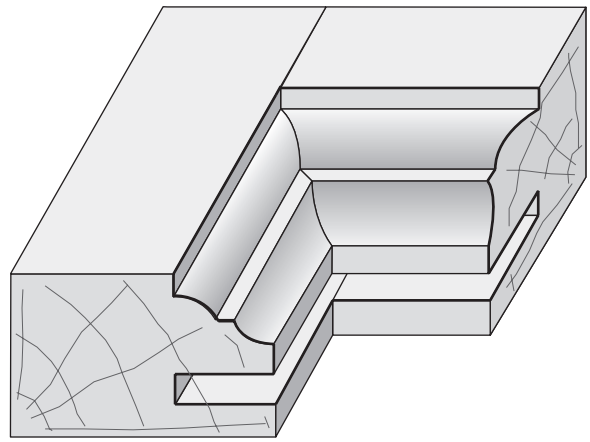
REPLACEMENT PARTS

PROFILE CUTTER ONLY	GROOVER ONLY	ARBOR AND NUT	NUT ONLY	BALL BEARING	WASHER	SPACER 0.05 MM	SPACER 0.01 MM
FRB31P	FRB27G	AR11	WNF516	B5	WF608	WF600	WF604

SCALE 1:1







FRB27 OGEE STILE AND RAIL
1/2" GROOVE REVERSIBLE COPE AND STICK, 1PC SET

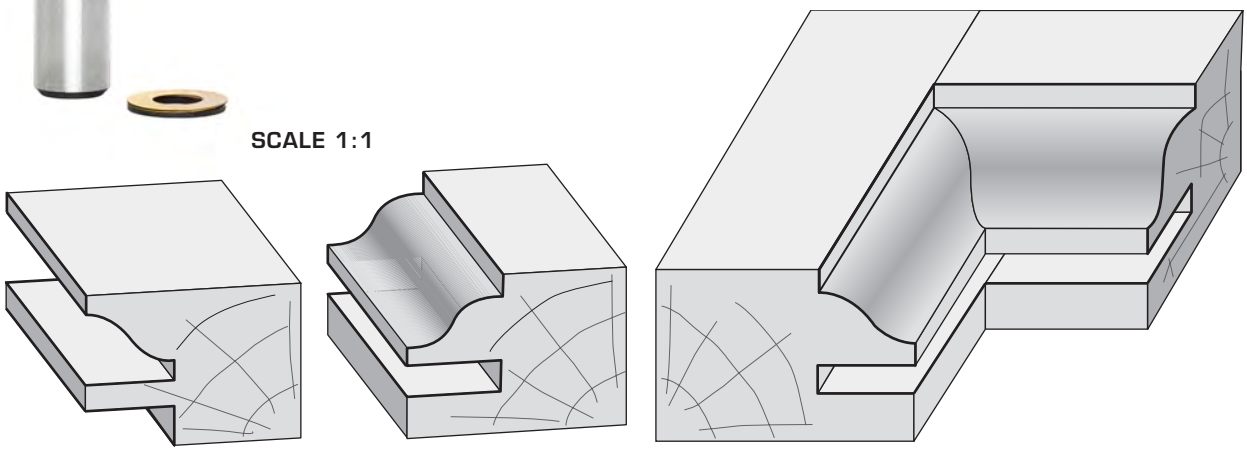


PART NO.	LARGE DIAM.	WOOD THICKNESS	OVERALL LENGTH	SHANK DIAM.	GROOVE WIDTH	GROOVE DEPTH	NO. FLUTES
FRB27	1-13/16"	3/4" to 7/8"	3"	1/2"	5/32"	1/2"	2

REPLACEMENT PARTS

PROFILE CUTTER ONLY	GROOVER ONLY	ARBOR AND NUT	NUT ONLY	BALL BEARING	WASHER	SPACER 0.05MM	SPACER 0.01MM
FRB27P	FRB27G	AR11	WNF516	B5	WF608	WF600	WF604

SCALE 1:1



FRB28 OGEE STILE AND RAIL
3/8" GROOVE REVERSIBLE COPE AND STICK, 1PC SET

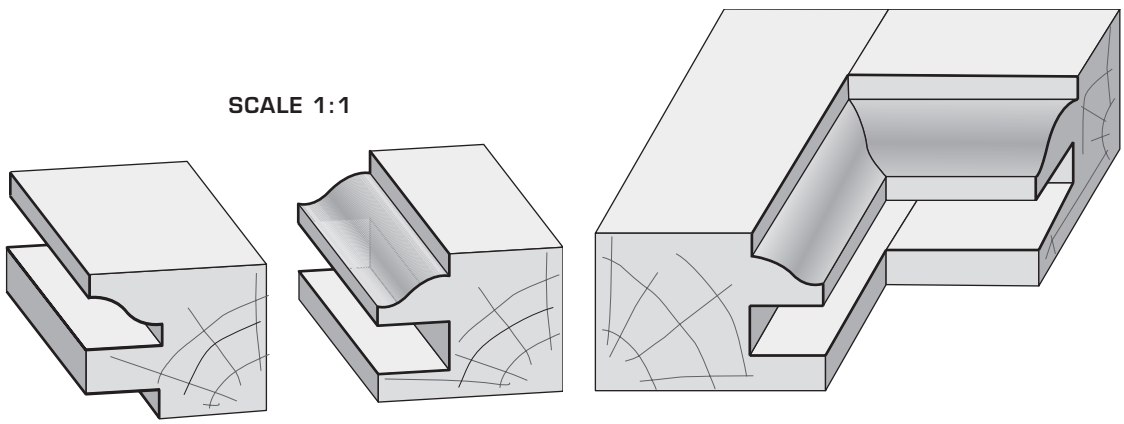


PART NO.	LARGE DIAM.	WOOD THICKNESS	SHANK DIAM.	GROOVE WIDTH	GROOVE DEPTH	OVERALL LENGTH	NO. FLUTES
FRB28	1-5/8"	3/4" to 7/8"	1/2"	1/4"	3/8"	3"	2

REPLACEMENT PARTS

PROFILE CUTTER ONLY	GROOVER ONLY	ARBOR AND NUT	NUT ONLY	BALL BEARING	WASHER	SPACER 0.05MM	SPACER 0.01MM
FRB28P	FRB28G	AR11	WNF516	B5	WF608	WF600	WF604

SCALE 1:1



FRB31-1 PROVINCIAL STILE AND RAIL
REVERSIBLE COPE AND STICK, 1PC SET

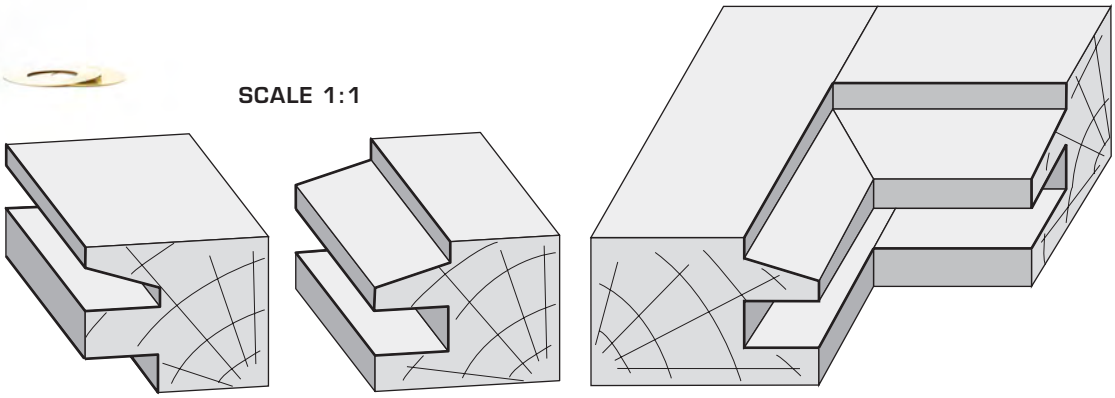


PART NO.	LARGE DIAM.	WOOD THICKNESS	SHANK DIAM.	GROOVE WIDTH	GROOVE DEPTH	OVERALL LENGTH	NO. FLUTES
FRB31-1	1-5/8"	3/4" to 7/8"	1/2"	1/4"	3/8"	3"	2

REPLACEMENT PARTS

PROFILE CUTTER ONLY	GROOVER ONLY	ARBOR AND NUT	NUT ONLY	BALL BEARING	WASHER	SPACER 0.05MM	SPACER 0.01MM
FRB31-1P	FRB28G	AR11	WNF516	B5	WF608	WF600	WF604

SCALE 1:1

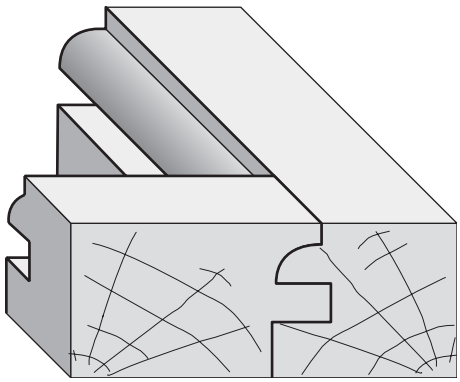


FRB31-3 ROUND OVER STILE AND RAIL
COPE AND STICK, 2PC SET



PART NO.	LARGE DIAM.	WOOD THICKNESS	SHANK DIAM.	GROOVE WIDTH	GROOVE DEPTH	OVERALL LENGTH	NO. FLUTES
FRB31-3	1-5/8"	3/4" to 1"	1/2"	1/4"	3/8"	3-5/16"	2

SCALE 1:1



REPLACEMENT PARTS

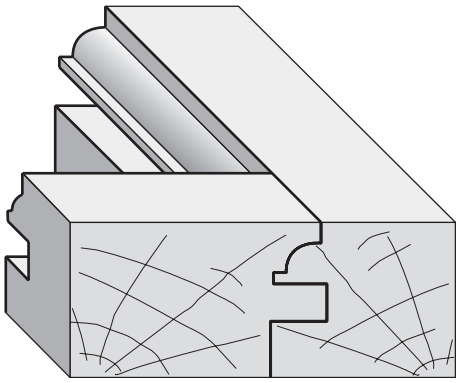
DESCRIPTION	PROFILE CUTTER	GROOVER/ RABBETING CUTTER	STRAIGHT CUTTER	ARBOR AND NUT	NUT ONLY	BALL BEARING	SPACERS 1.0 MM	SHIMS 0.1 MM	SHIMS 0.05 MM
STILE	FRB31-3P	FRB28G	FRB31-2C	AR23	WNF516	B5	WF608	WF604	WF600
QUANTITY	1pc	1pc	1pc	1pc	1pc	1pc	2pcs	3pcs	1pc
RAIL	FRB31-3PR	FRB31-2R	FRB31-2CR	AR23	WNF516	B5	WF608	WF604	WF600
QUANTITY	1pc	1pc	1pc	1pc	1pc	1pc	4pcs	2pcs	2pcs

FRB31-4 BEAD STILE AND RAIL
COPE AND STICK,2PC SET



PART NO.	LARGE DIAM.	WOOD THICKNESS	SHANK DIAM.	GROOVE WIDTH	GROOVE DEPTH	OVERALL LENGTH	NO. FLUTES
FRB31-4	1-5/8"	3/4" to 1"	1/2"	1/4"	3/8"	3-5/16"	2

SCALE 1:1



REPLACEMENT PARTS

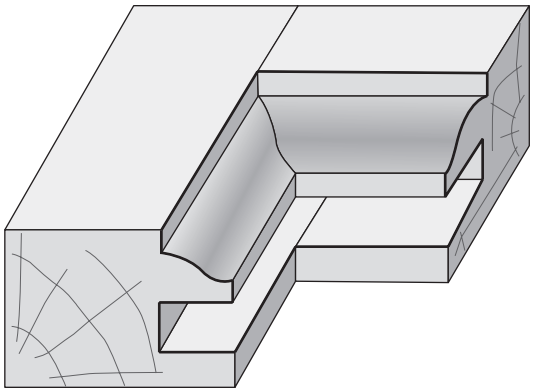
DESCRIPTION	PROFILE CUTTER	GROOVER/ RABBETING CUTTER	STRAIGHT CUTTER	ARBOR AND NUT	NUT ONLY	BALL BEARING	SPACERS 1.0 MM	SHIMS 0.1 MM	SHIMS 0.05 MM
STILE	FRB31-4P	FRB28G	FRB31-2C	AR23	WNF516	B5	WF608	WF604	WF600
QUANTITY	1pc	1pc	1pc	1pc	1pc	1pc	2pcs	3pcs	1pc
RAIL	FRB31-4PR	FRB31-2R	FRB31-2CR	AR23	WNF516	B5	WF608	WF604	WF600
QUANTITY	1pc	1pc	1pc	1pc	1pc	1pc	4pcs	2pcs	2pcs

FRB31-2 OGEE STILE AND RAIL
COPE AND STICK,2PC SET



PART NO.	LARGE DIAM.	WOOD THICKNESS	SHANK DIAM.	GROOVE WIDTH	GROOVE DEPTH	OVERALL LENGTH	NO. FLUTES
FRB31-2	1-5/8"	3/4" to 1"	1/2"	1/4"	3/8"	3-5/16"	2

SCALE 1:1



REPLACEMENT PARTS

DESCRIPTION	PROFILE CUTTER	GROOVER/ RABBETING CUTTER	STRAIGHT CUTTER	ARBOR AND NUT	NUT ONLY	BALL BEARING	SPACERS 1.0 MM	SHIMS 0.1 MM	SHIMS 0.05 MM
STILE	FRB28P	FRB28G	FRB31-2C	AR23	WNF516	B5	WF608	WF604	WF600
QUANTITY	1pc	1pc	1pc	1pc	1pc	1pc	2pcs	3pcs	1pc
RAIL	FRB31-2PR	FRB31-2R	FRB31-2CR	AR23	WNF516	B5	WF608	WF604	WF600
QUANTITY	1pc	1pc	1pc	1pc	1pc	1pc	4pcs	2pcs	2pcs

FRB31-5 ROMAN OGEE WINDOW SASH ASSEMBLY
REVERSIBLE WITH BACK CUTTER, 1PC SET



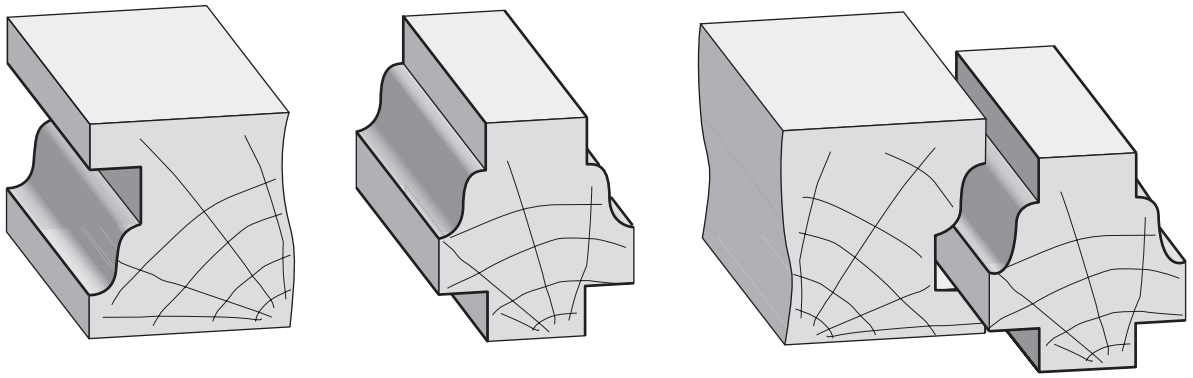
PART NO.	LARGE DIAM. D1	WOOD THICKNESS	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB31-5	1-3/8"	1-1/8" to 1-3/4"	1/2"	3-3/4"	2

REPLACEMENT PARTS

DESCRIPTION	PROFILE CUTTER	RABBETING CUTTER	ARBOR AND NUT	NUT ONLY	BALL BEARING
PART NO.	FRB31-5C	FRB31-5R	AR20	WNF516	B5
QUANTITY	1pc	1pc	1pc	1pc	1pc

DESCRIPTION	SPACERS 6.0 MM	SPACER 3.0 MM	SPACER 1.0 MM	SPACERS 0.5 MM	SPACERS 0.1 MM
PART NO.	WF618	WF610	WF608	WF606	WF604
QUANTITY	3pcs	1pc	1pc	2pcs	3pcs

SCALE 1:1



FRB212 SASH BAR JOINT BITS
TWO FLUTES

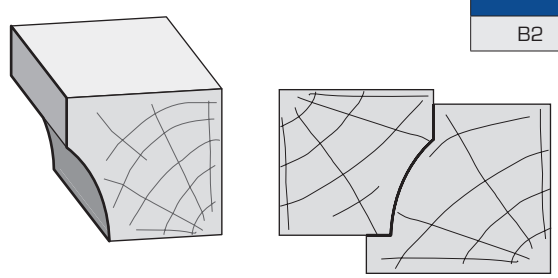


PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB212	1-7/64"	43/64"	27/32"	1/4"	2-1/16"	2
FRB213	1-7/64"	43/64"	27/32"	1/2"	2-5/16"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B2	WFS500	WFS506	WNC538

SCALE 1:1



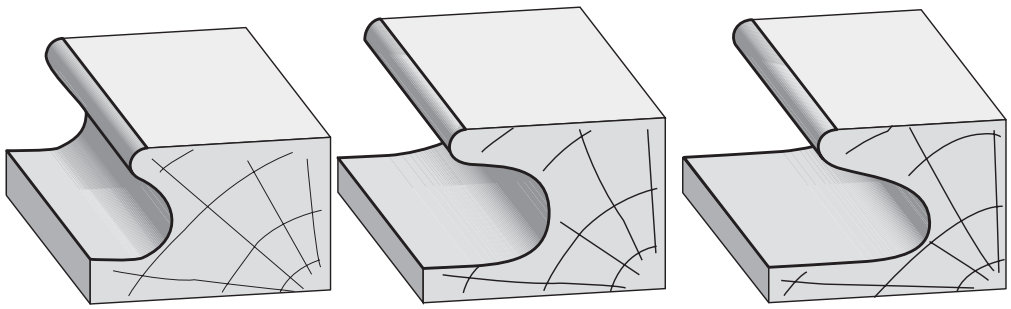
FRB212
FRB213

FRB60 FINGER GRIP BIT
TWO FLUTES



PART NO.	CUTTING DIAM.	RADIUS R1	RADIUS R2	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB60	3/4"	3/32"	3/16"	3/4"	1/2"	2-3/8"	2
FRB61	1-1/2"	5/64"	15/64"	13/16"	1/2"	2-5/16"	2
FRB62	1-3/4"	3/32"	3/16"	13/16"	1/2"	2-5/16"	2

SCALE 1:1



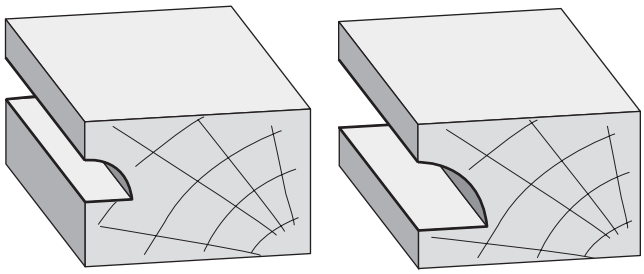
FRB60 **FRB61** **FRB62**

FRB57 COVE STYLE FINGER GRIP BITS
TWO FLUTES



PART NO.	CUTTING DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB57	3/4"	1/4"	1/4"	1/4"	1-3/4"	2
FRB58	1"	3/8"	3/8"	1/4"	1-3/4"	2

SCALE 1:1



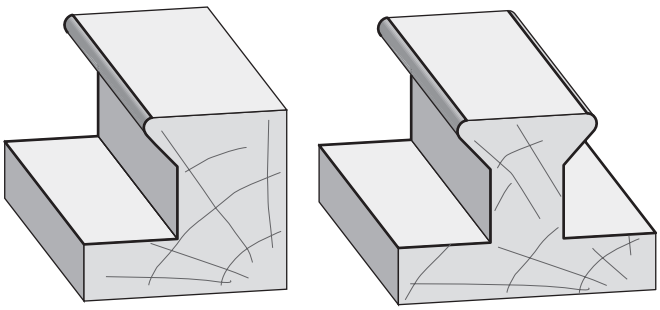
FRB57 FRB58

FRB59 CHAMFER STYLE FINGER GRIP BIT
TWO FLUTES



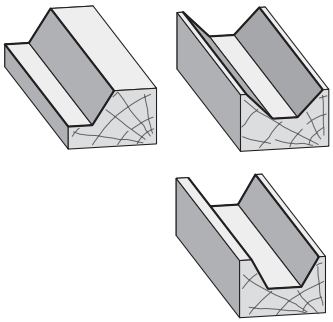
PART NO.	CUTTING DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB59	7/8"	1/16"	13/16"	1/2"	2-5/16"	2

SCALE 1:1



R3330-1 BEVEL BITS
PLUNGE TYPE





PART NO.	CUTTING DIAM.	CARBIDE HEIGHT	SHANK DIAM.	DEGREE BEVEL	OVERALL LENGTH	NO. FLUTES
R3330-1	9/16"	5/8"	1/4"	10°	1-3/4"	2
R3330-2	1/2"	1/2"	1/4"	15°	2"	2
R3330	7/8"	3/8"	1/4"	23°	1-5/8"	2
R3331	1"	3/8"	1/4"	30°	1-5/8"	2
R3332	1-3/8"	3/8"	1/4"	45°	1-5/8"	2

R3300 BEVEL BITS
WITH BALL BEARING GUIDE



PART NO.	TOOL TYPE	CUTTING DIAM.	DEGREE BEVEL	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R3300	A	1/2"	15°	1/4"	1/4"	1-3/4"	2
R3300-1	A	17/32"	15°	1/2"	1/4"	2-1/16"	2
R3301	A	27/32"	25°	1/2"	1/4"	2"	2
R3302	B	1-1/2"	45°	1/2"	1/4"	2-1/8"	2
R3302-1	C	1-1/4"	45°	1/2"	1/4"	2"	2
R3303	B	3/4"	15°	1/2"	1/2"	2-3/8"	2
R3304	B	1"	25°	1/2"	1/2"	2-3/8"	2
R3304-1	C	1-1/4"	45°	1/2"	1/2"	2-3/8"	2
R3305	B	1-1/2"	45°	1/2"	1/2"	2-3/8"	2
R3305-1	B	2"	45°	3/4"	1/2"	2-5/8"	2
R3306	B	2-1/2"	45°	1"	1/2"	2-13/16"	2
R3307 •	B	3-1/64"	45°	1-1/4"	1/2"	3-1/8"	2

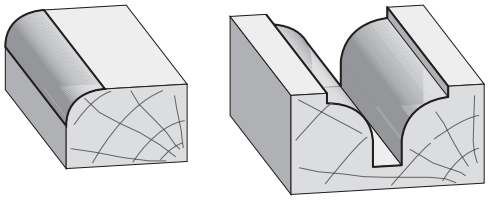
• Max. RPM: 13,500

REPLACEMENT PARTS

TOOL TYPE	BALL BEARING	WASHER	SPRING WASHER	SCREW
A	B2	WFS500	WFS506	WM308
B	B3	WR58	WFS506	WNC538
C	B1	WR58	WFS506	WNC338

R3020 ROUNDING OVER BITS
PLUNGE TYPE

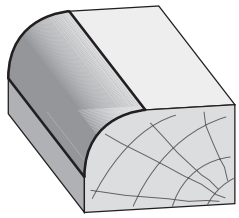




PART NO.	LARGE DIAM.	RADIUS	SMALL DIAM.	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
R3020-1	3/8"	1/8"	1/8"	5/16"	1/4"	2
R3020	5/8"	3/16"	1/4"	5/16"	1/2"	2
R3021	3/4"	1/4"	1/4"	1/2"	1/4"	2
R3022	3/4"	1/4"	1/4"	1/2"	1/2"	2
R3023	7/8"	5/16"	1/4"	9/16"	1/4"	2
R3024	7/8"	5/16"	1/4"	9/16"	1/2"	2
R3025	1"	3/8"	1/4"	5/8"	1/4"	2
R3026	1"	3/8"	1/4"	5/8"	1/2"	2
R3027	1-3/8"	1/2"	3/8"	1"	1/2"	2
R3028	1-3/4"	5/8"	1/2"	1-1/4"	1/2"	2
R3029	2"	3/4"	1/2"	1-7/16"	1/2"	2

R3000 ROUNDING OVER BITS
WITH BALL BEARING GUIDE





PART NO.	LARGE DIAM.	RADIUS	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
R3000-1	5/8"	1/16"	5/16"	1/4"	2
R3000-2	3/4"	1/8"	3/8"	1/4"	2
R3000-3	3/4"	5/32"	3/8"	1/4"	2
R3000	7/8"	3/16"	1/2"	1/4"	2
R3001	1"	1/4"	1/2"	1/4"	2
R3002	1-1/8"	5/16"	1/2"	1/4"	2
R3003	1-1/4"	3/8"	5/8"	1/4"	2
R3004	1-1/2"	1/2"	3/4"	1/4"	2
R3004-1	1-3/4"	5/8"	7/8"	1/4"	2
R3005-1	5/8"	1/16"	5/16"	1/2"	2
R3005-2	3/4"	1/8"	3/8"	1/2"	2
R3005-3	3/4"	5/32"	3/8"	1/2"	2
R3005	7/8"	3/16"	1/2"	1/2"	2
R3006	1"	1/4"	1/2"	1/2"	2
R3007	1-1/8"	5/16"	1/2"	1/2"	2
R3008	1-1/4"	3/8"	5/8"	1/2"	2
R3009	1-1/2"	1/2"	3/4"	1/2"	2
R3009-1	1-3/4"	5/8"	7/8"	1/2"	2
R3010	2"	3/4"	1"	1/2"	2
R3010-1	2-1/4"	7/8"	1-1/4"	1/2"	2
R3011	2-1/2"	1"	1-1/4"	1/2"	2
R3011-1 •	2-3/4"	1-1/8"	1-3/8"	1/2"	2
R3012 •	3"	1-1/4"	1-1/2"	1/2"	2
R3012-1 ▲	3-1/4"	1-3/8"	1-9/16"	1/2"	2
R3013 ▲	3-1/2"	1-1/2"	1-3/4"	1/2"	2

• Max RPM: 18,000

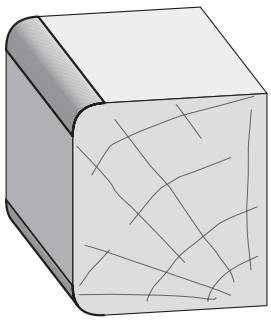
▲ Max RPM: 16,000

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

R2525 ADJUSTABLE ROUNDING OVER SET
THREE WINGS





PART NO.	LARGE DIAM.	RADIUS	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2525	1-1/2"	3/16"	1/2"	3-5/8"	2
R2526	1-5/8"	1/4"	1/2"	3-5/8"	2

Fully adjustable set for corner rounding top and bottom in just one pass

R 3/16" Adjustable from 3/8" to 1-1/4" material thickness

R 1/4" Adjustable from 1/2" to 1-1/4" material thickness

R 3/8" Adjustable from 3/4" to 1-1/4" material thickness

REPLACEMENT PARTS

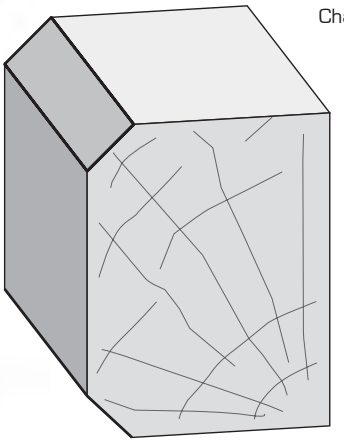
TOOL NO.	DESCRIPTION	TOP CUTTER	BOTTOM CUTTER
R2525	PART NO.	R2525CR	R2525CL
	DIMENSIONS	R = 3/16"	R = 3/16"
R2526	PART NO.	R2526CR	R2526CL
	DIMENSIONS	R = 1/4"	R = 1/4"

DESCRIPTION	BALL BEARING	ARBOR & NUT	NUT ONLY	SPACER A	SPACER B	SPACER C	SPACER D	SPACER E
PART NO.	B6-3	AR20	WNF516	WF618	WF610	WF608	WF606	WF604
DESCRIPTION	-	-	-	6.0mm	3.0mm	1.0mm	0.5mm	0.1mm
QUANTITY	-	-	-	2pcs	1pc	2pcs	2pcs	6pcs

R2535 ADJUSTABLE 3-WING CHAMFERING SET
DOUBLE ANGLE



SCALE 1:1



Profile:
45° chamfer
1-1/2" material thickness

PART NO.	LARGE DIAM.	DEGREES BEVEL-1	DEGREES BEVEL-2	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2535	1-3/8"	30°	45°	1/2"	4-1/4"	2

Fully adjustable set for corner chamfer top and bottom in just one pass

Chamfer 30° Adjustable from 3/8" to 1-3/8" material thickness

Chamfer 45° Adjustable from 1/2" to 1-5/8" material thickness

REPLACEMENT PARTS

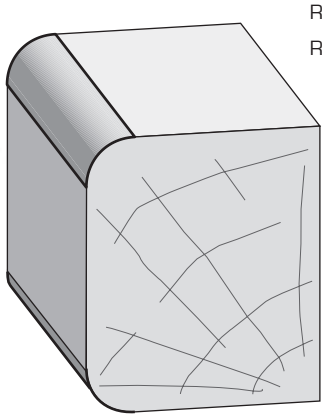
TOOL NO.	TOP CUTTER	BOTTOM CUTTER
R2535	R2535CR	R2535CL

DESCRIPTION	BALL BEARING	ARBOR & NUT	NUT ONLY	SPACER A	SPACER B	SPACER C	SPACER D	SPACER E
PART NO.	B5	AR22	WNF516	WF618	WF610	WF608	WF606	WF604
DESCRIPTION	-	-	-	6.0mm	3.0mm	1.0mm	0.5mm	0.1mm
QUANTITY	-	-	-	2pcs	2pcs	3pcs	1pcs	4pcs

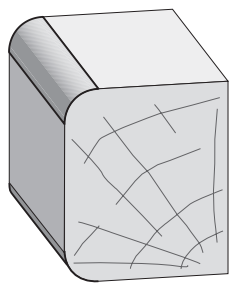
R2530 ADJUSTABLE ROUNDING OVER SET
3 WINGS DOUBLE RADIUS



SCALE 1:1



RADIUS 1/4"



RADIUS 3/16"

PART NO.	LARGE DIAM.	RADIUS R1	RADIUS R2	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2530	1-3/8"	1/4"	3/16"	1/2"	4-1/4"	2

Fully adjustable set for corner rounding top and bottom in just one pass

R 3/16" Adjustable from 3/8" to 1-3/8" wood thickness

R 1/4" Adjustable from 1/2" to 1-1/2" wood thickness

REPLACEMENT PARTS

TOOL NO.	TOP CUTTER	BOTTOM CUTTER
R2530	R2530CR	R2530CL

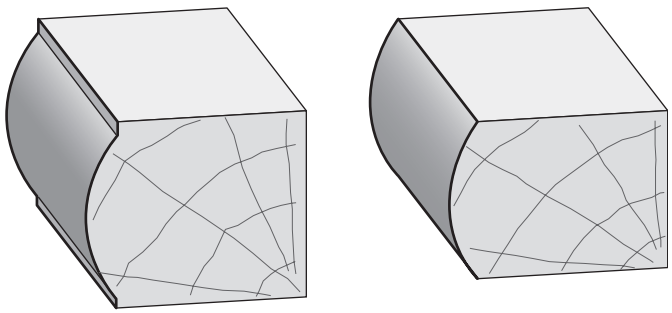
DESCRIPTION	BALL BEARING	ARBOR & NUT	NUT ONLY	SPACER A	SPACER B	SPACER C	SPACER D	SPACER E
PART NO.	B5	AR22	WNF516	WF618	WF610	WF608	WF606	WF604
DESCRIPTION	-	-	-	6.0mm	3.0mm	1.0mm	0.5mm	0.1mm
QUANTITY	-	-	-	2pcs	2pcs	3pcs	1pcs	4pcs

R2520 TRUE BULL NOSE BITS
TWO FLUTES



PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2520	13/16"	23/32"	1-1/4"	1/4"	2-1/2"	2
R2521	13/16"	23/32"	1-1/4"	1/2"	2-3/4"	2

SCALE 1:1



R2519 TRUE BULL NOSE BIT
WITH UPPER BEARING - PLUNGE TYPE

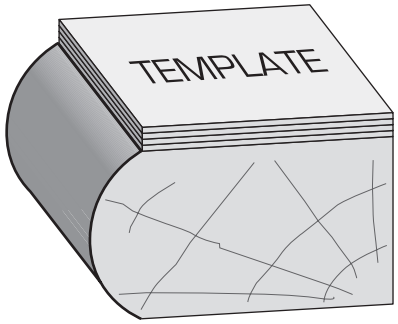


PART NO.	LARGE DIAM.	RADIUS	CUTTER OPENING	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2519	1-1/8"	1/2"	7/8"	1-9/16"	1/2"	3-5/8"	2

REPLACEMENT PARTS

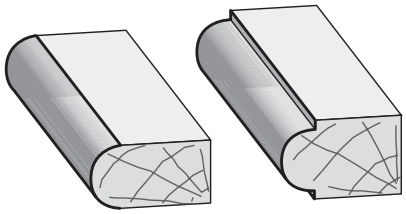
BALL BEARING	LOCK RING	SCREW
B6-4	W03	WNC518

SCALE 1:1



R2500 HALF ROUND BITS
BULL NOSE



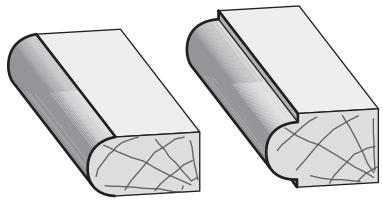


PART NO.	LARGE DIAM.	RADIUS	CUTTER OPENING	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
R2500-1	17/32"	5/64"	5/32"	1/2"	1/4"	2
R2500-2	17/32"	5/64"	5/32"	1/2"	1/2"	2
R2500	19/32"	7/64"	7/32"	1/2"	1/4"	2
R2501	21/32"	9/64"	9/32"	3/4"	1/4"	2
R2502	7/8"	13/64"	13/32"	3/4"	1/4"	2
R2503	1-1/32"	17/64"	35/64"	1"	1/4"	2
R2504	19/32"	7/64"	7/32"	1/2"	1/2"	2
R2505	21/32"	9/64"	9/32"	3/4"	1/2"	2
R2506	7/8"	13/64"	13/32"	3/4"	1/2"	2
R2507	1-1/32"	17/64"	35/64"	1"	1/2"	2
R2507-1	1-1/16"	5/16"	5/8"	1-1/8"	1/2"	2
R2508	1-5/16"	3/8"	3/4"	1-3/8"	1/2"	2
R2509	1-11/16"	1/2"	1"	1-9/16"	1/2"	2
R2510	2"	5/8"	1-1/4"	2"	1/2"	2
R2511	2-3/8"	3/4"	1-1/2"	2"	1/2"	2
R2511-1 •	2-3/8"	3/4"	1-1/2"	2"	1/2"	3

- Max. RPM: 16,000
- 3 flutes and is suitable for cutting solid surface materials and composite materials

R2514 HALF ROUND BITS
BULLNOSE WITH BALL BEARING GUIDE





PART NO.	TOOL TYPE	LARGE DIAM.	RADIUS	CUTTER OPENING	CARBIDE HEIGHT	SHANK DIAM.	NO. FLUTES
R2514	A	1-1/32"	17/64"	35/64"	1"	1/2"	2
R2515	B	1-3/8"	3/8"	3/4"	1-1/4"	1/2"	2
R2517	C	2"	5/8"	1-1/4"	2"	1/2"	2

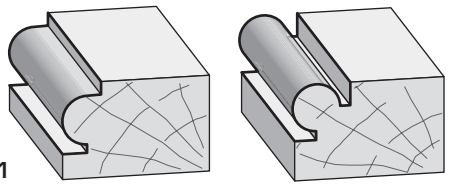
TOOL TYPE	BALL BEARING	WASHER	SPRING WASHER	SCREW
A	B3	WR58	WFS506	WNC538
B	B3-4	WR59	WFS506	WNC512
C	B4	WR59	WFS508	WNF1012

FRB74 CORNER BEADING PROFILE
WITH BALL BEARING GUIDE

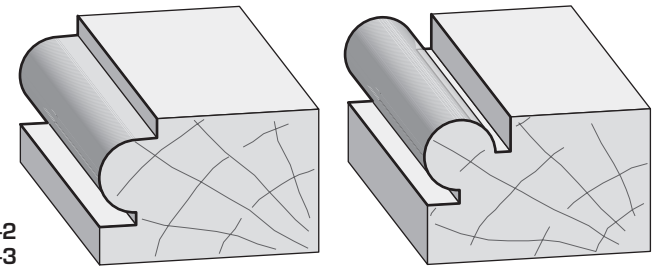


PART NO.	TOOL TYPE	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB74	A	7/8"	1/8"	9/16"	1/4"	2-1/8"	2
FRB74-1	A	7/8"	1/8"	9/16"	1/2"	2-1/2"	2
FRB74-2	B	1-1/16"	3/16"	5/8"	1/4"	2-1/4"	2
FRB74-3	B	1-1/16"	3/16"	5/8"	1/2"	2-5/8"	2
FRB74-4	B	1-1/4"	1/4"	3/4"	1/4"	2-3/8"	2
FRB74-5	B	1-1/4"	1/4"	3/4"	1/2"	2-5/8"	2
FRB74-6	B	1-1/2"	3/8"	1"	1/2"	3"	2

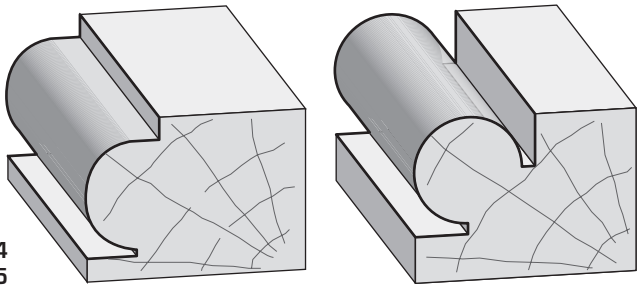
SCALE 1:1



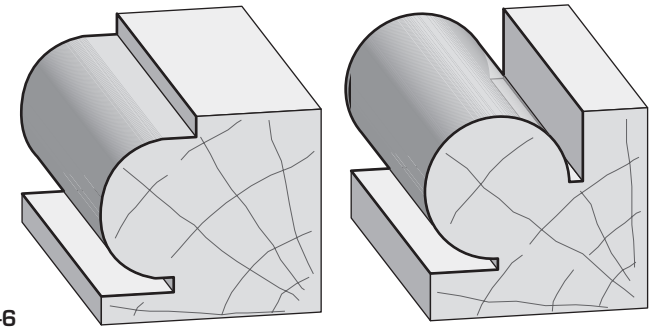
FRB74
FRB74-1



FRB74-2
FRB74-3



FRB74-4
FRB74-5



FRB74-6

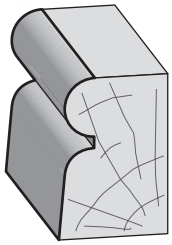
REPLACEMENT PARTS

TOOL TYPE	BALL BEARING	WASHER	SPRING WASHER	SCREW
A	B3	WR58	WFS506	WNC538
B	B3-4	WR59	WFS506	WNC538

FRB76-9 EDGE BEADING PROFILE
TWO FLUTES



SCALE 1:1



PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB76-9	7/8"	5/32"	1-1/32"	1/4"	2-5/16"	2
FRB77	7/8"	5/32"	1-1/32"	1/2"	2-1/2"	2

FRB77-1 DRAWING LINE BEADING PROFILE
WITH BALL BEARING GUIDE

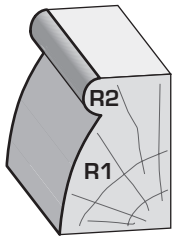


PART NO.	CUTTING DIAM.	RADIUS R1	RADIUS R2	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB77-1	1"	1"	3/32"	7/8"	1/2"	2-3/4"	2
FRB77-4	1"	3/8"	3/16"	7/8"	1/2"	2-3/4"	2

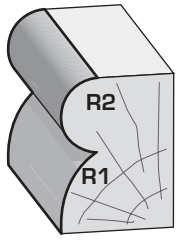
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

SCALE 1:1



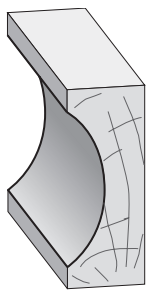
FRB77-1



FRB77-4

R2430 CONVEX BEADING BITS
WITH BEARING GUIDE





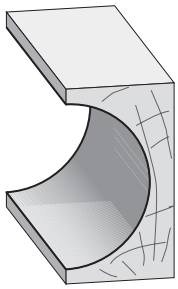
PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2430	3/4"	3/16"	3/8"	1/2"	2-5/8"	2
R2431	3/4"	5/16"	1/2"	1/2"	2-3/4"	2
R2432	7/8"	15/32"	3/4"	1/2"	3-1/16"	2
R2433	7/8"	3/4"	1"	1/2"	3-3/8"	2
R2434	1"	1-1/4"	1-1/2"	1/2"	3-7/8"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

R2440 CONVEX BEADING BITS
WITH BALL BEARING GUIDE,





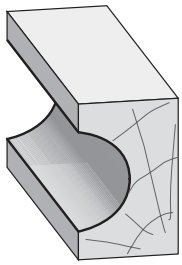
PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2440	13/16"	5/32"	5/16"	1/4"	1-7/8"	2
R2441	7/8"	3/16"	3/8"	1/4"	2"	2
R2442	31/32"	15/64"	15/32"	1/4"	2"	2
R2444	1-1/4"	25/64"	25/32"	1/2"	3"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

R2436 CONVEX BEADING BITS
WITH UPPER AND LOWER BALL BEARINGS





PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
R2436	3/4"	1/8"	1/4"	1/4"	2-1/4"	2
R2437	7/8"	13/64"	25/64"	1/4"	2-3/8"	2

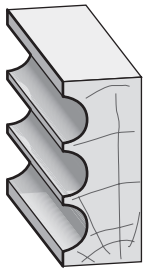
REPLACEMENT PARTS

LOCK RING	WASHER	SPRING WASHER	CENTRE BALL BEARING	LOWER BALL BEARING	SCREW FOR BEARING
W01	WR58	WFS506	B3-1	B3	WNC538

FRB76-7 TRIPLE FLUTE CONVEX PROFILE BIT
R=1/8" WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB76-7	7/8"	1/8"	1"	1/4"	2-1/2"	2

REPLACEMENT PARTS

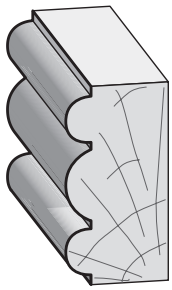
BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

FRB76-4 TRIPLE BEADING PROFILE BIT
R=1/4",R=5/64",R=1/4"



PART NO.	CUTTING DIAM.	RADIUS R1	RADIUS R2	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB76-4	3/4"	5/64"	1/4"	1"	1/4"	2-1/8"	2

SCALE 1:1

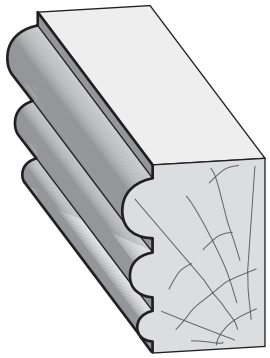


FRB76-5 VARIED BEAD PROFILE BIT
R=5/32",R=1/8",R=5/64"



PART NO.	CUTTING DIAM.	RADIUS R1	RADIUS R2	RADIUS R3	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB76-5	7/8"	5/32"	1/8"	5/64"	1-1/8	1/4"	2-1/4"	2

SCALE 1:1

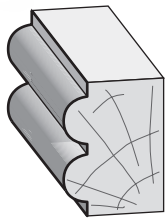


FRB77-9 DOUBLE BEADING PROFILE BIT
R=1/8" WITH BALL BEARING GUIDE



PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB77-9	7/8"	1/8"	3/4"	1/2"	2-5/8"	2

SCALE 1:1



REPLACEMENT PARTS

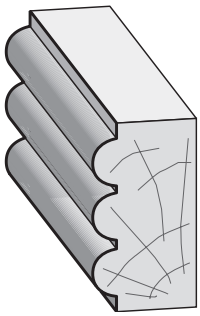
BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

FRB77-5 TRIPLE BEADING PROFILE BITS
R=1/8" WITH BALL BEARING GUIDE



PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB77-5	7/8"	1/8"	1"	1/4"	2-1/2"	2

SCALE 1:1



REPLACEMENT PARTS

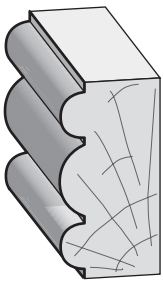
BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

FRB77-7 TRIPLE BEADING PROFILE BITS
R=1/8",R=3/16",R=1/8" WITH BALL BEARING GUIDE



PART NO.	CUTTING DIAM.	RADIUS R1	RADIUS R2	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB77-7	1"	1/8"	3/16"	1"	1/4"	2-1/4"	2
FRB77-8	1"	1/8"	3/16"	1"	1/2"	2-1/4"	2

SCALE 1:1



REPLACEMENT PARTS

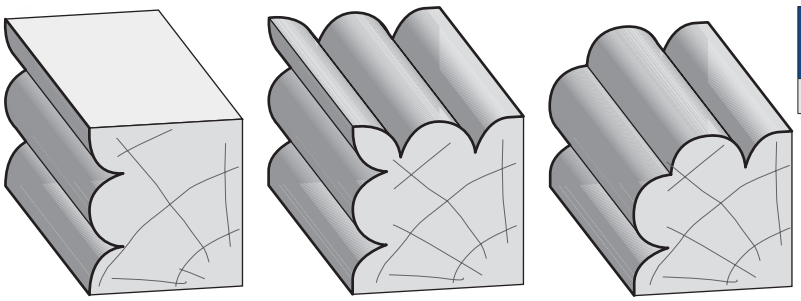
BALL BEARING	WASHER	SPRING WASHER	SCREW
B4	WFS500	WFS506	WNC538

FRB76-3 DOUBLE LEAF-EDGE BEADING PROFILE BIT
WITH BALL BEARING GUIDES



PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB76-3	1"	3/16"	7/8"	1/4"	3"	2

SCALE 1:1



REPLACEMENT PARTS

BALL BEARING	LOCK RING	SCREW
B3-3	W01	WNF1012



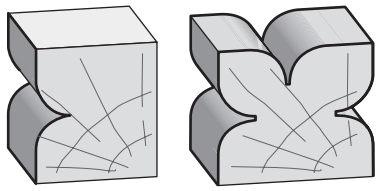
PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB76	1"	3/16"	1/2"	1/4"	2-1/2"	2
FRB76-1	1-1/8"	1/4"	5/8"	1/4"	2-5/8"	2
FRB76-2	1-3/8"	3/8"	7/8"	1/4"	2-7/8"	2

REPLACEMENT PARTS

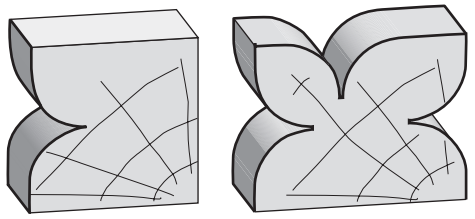
BALL BEARING	LOCK RING	LOCK RING SCREW	SCREW
B3-3	W01	WNC525	WNF1012

SCALE 1:1

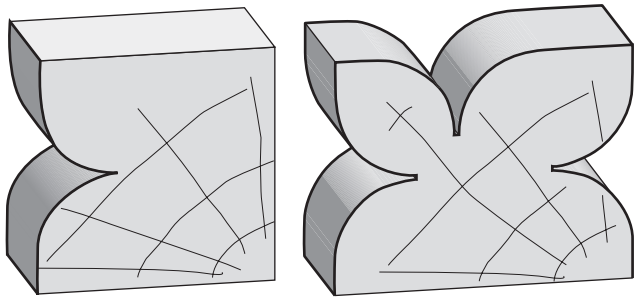
FRB76



FRB76-1



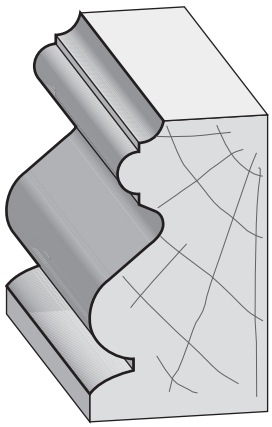
FRB76-2



FRB101 TRADITIONAL BEAD & COVE EDGE MOULDING BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB101	1-3/8"	1-5/8"	1/2"	3-1/2"	2

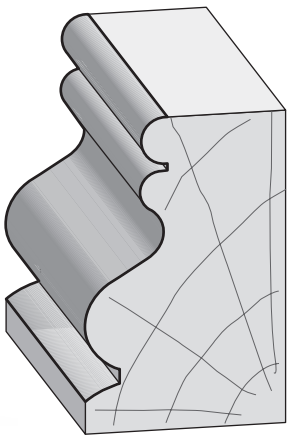
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB100 TRADITIONAL BIT DOUBLE BEAD EDGE MOULDING BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB100	1-3/8"	1-5/8"	1/2"	3-1/2"	2

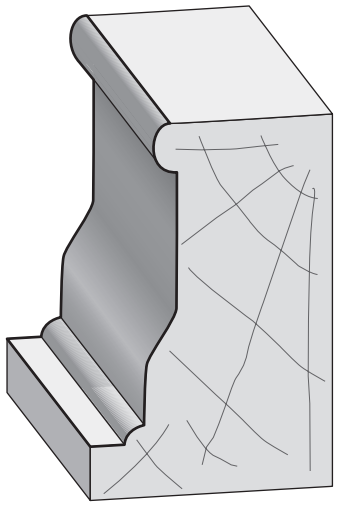
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB102 BEADED EDGE MOULDING BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB102	1-3/8"	1-3/4"	1/2"	3-5/8"	2

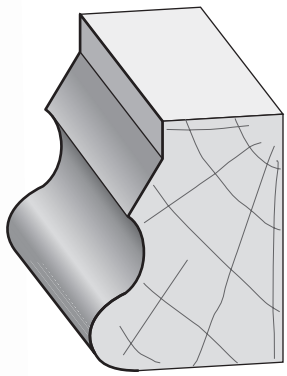
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB104 OGEE WITH SPLAY EDGE MOULDING BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB104	1-3/8"	1-1/2"	1/2"	3-3/8"	2

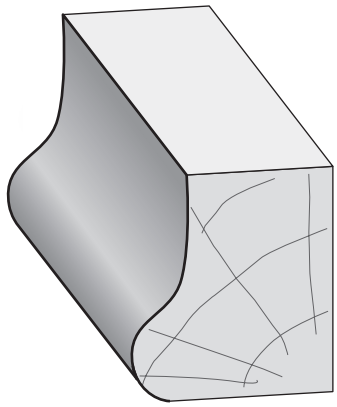
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

FRB106 OGEE EDGE MOULDING BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB106	1-3/16"	1-3/8"	1/2"	3-1/4"	2

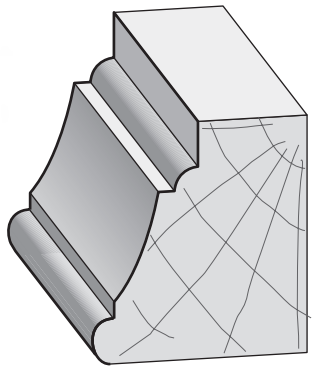
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

FRB107 BEADED CAVETTO EDGE MOULDING BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB107	1-3/4"	1-1/2"	1/2"	3-7/16"	2

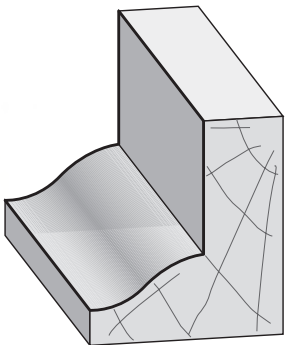
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

FRB108 OGEE EDGE MOULDING BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB108	1-3/4"	1"	1/2"	3"	2

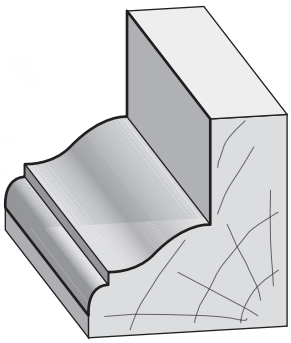
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-2	WR59	WFS506	WNC538

FRB109 OGEE WITH BEAD EDGE MOULDING BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB109	1-3/4"	1"	1/2"	3"	2

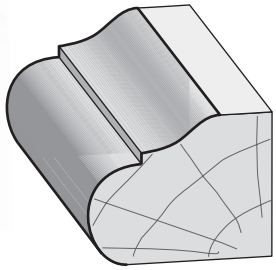
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB111 BEAD WITH ELLIPSE OGEE MOULDING BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB111	2"	1"	1/2"	2-7/8"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB105 BEAD AND COVE EDGE MOULDING BIT
WITH BALL BEARING GUIDE

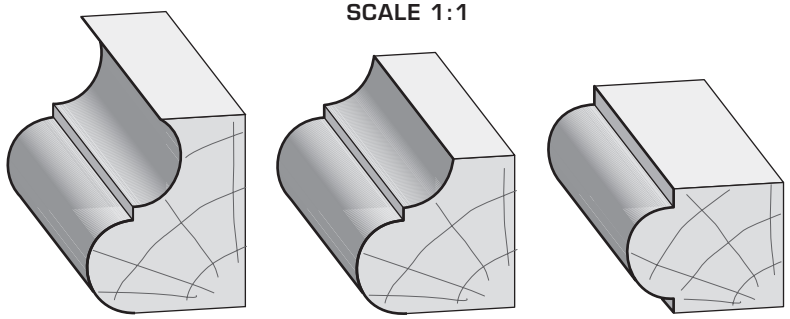


PART NO.	LARGE DIAM.	CUTTING LENGTH	RADIUS	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB105	2"	1-1/4"	1/4"	1/2"	3-1/8"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

SCALE 1:1



FRB110 BEAD AND COVE WITH TOP BEAD MOULDING BIT
WITH BALL BEARING GUIDE

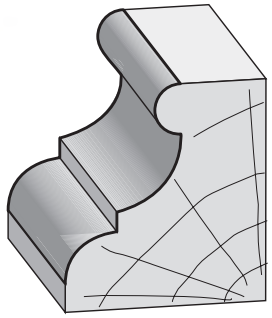


PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB110	1-5/8"	1-1/8"	1/2"	3"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

SCALE 1:1



FRB113 BEAD AND COVE MOULDING BITS
WITH BALL BEARING GUIDE

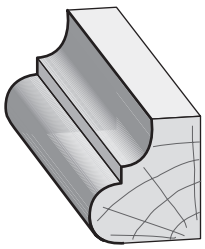


PART NO.	CUTTING DIAM.	RADIUS R1	RADIUS R2	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB113-1	1-1/4"	5/32"	5/32"	7/8"	1/2"	2-3/4"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

SCALE 1:1



FRB113-1

FRB114 ECHINUS MOULDING BIT
WITH BALL BEARING GUIDE

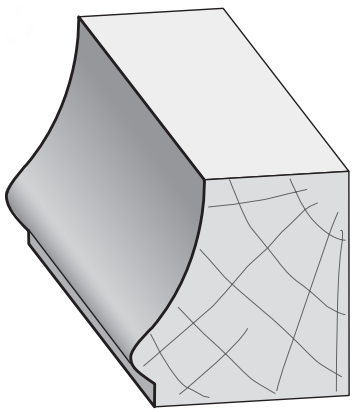


PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB114	1-1/2"	1-3/16"	1/2"	3-1/4"	2

REPLACEMENT PARTS

BALL BEARING	SPRING WASHER	SCREW
B4	WFS500	WNF1012

SCALE 1:1



FRB116 ROMAN OGEE WITH BEAD MOULDING BIT
WITH BALL BEARING GUIDE

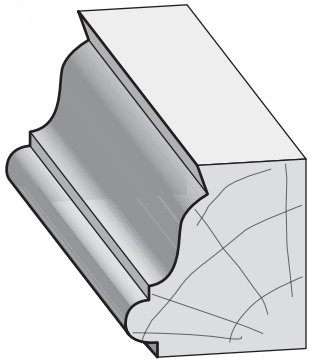


PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB116	1-1/2"	1-3/16"	1/2"	3-1/8"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

SCALE 1:1



FRB115 ECHINUS WITH COVE MOULDING BIT
WITH BALL BEARING GUIDE

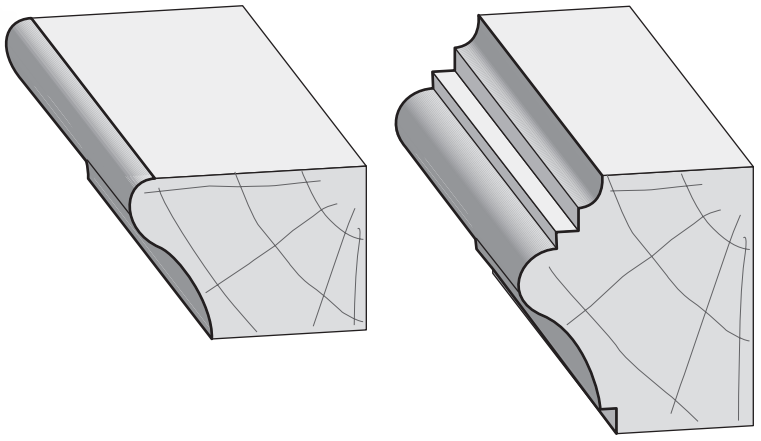


PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB115	1-21/32"	1-9/16"	1/2"	3-1/2"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

SCALE 1:1



FRB117 COVED ASTRAGAL MOULDING BITS
WITH BALL BEARING GUIDE

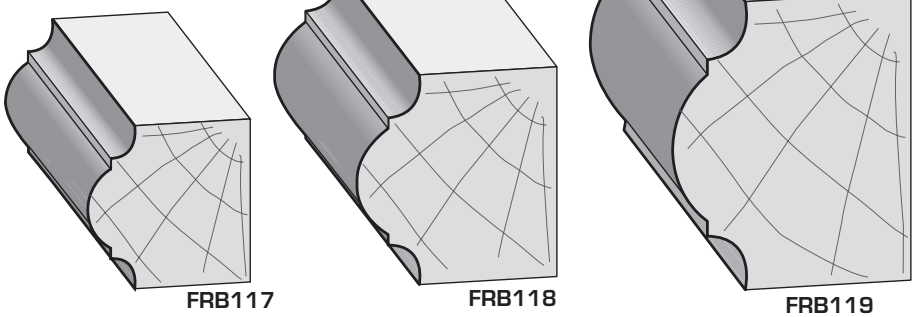


PART NO.	LARGE DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB117	1-1/8"	15/64"	1"	1/2"	2-7/8"	2
FRB118	1-1/4"	5/16"	1-3/16"	1/2"	3-1/8"	2
FRB119	1-3/8"	33/64"	1-9/16"	1/2"	3-1/2"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

SCALE 1:1



FRB117 FRB118 FRB119

FRB120 CAVETTO WITH BEAD MOULDING BIT
WITH BALL BEARING GUIDE

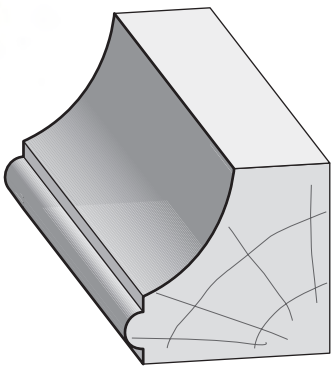


PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB120	1-3/4"	1-3/16"	1/2"	3-1/8"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

SCALE 1:1

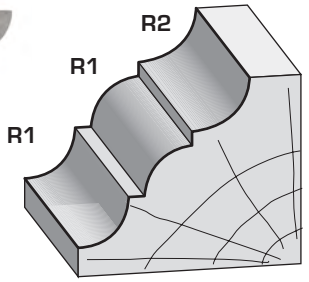


FRB124 COVE AND BEAD WITH TOP COVE MOULDING BIT
WITH BALL BEARING GUIDE



PART NO.	LARGE DIAM.	RADIUS R1	RADIUS R2	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB124	2-5/16"	1/4"	19/64"	7/8"	1/2"	2-3/4"	2

SCALE 1:1



REPLACEMENT PARTS

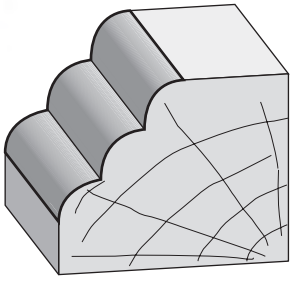
BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB123 TRIPLE BEAD MOULDING BIT
WITH BALL BEARING GUIDE



PART NO.	LARGE DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB123	1-7/8"	15/64"	15/16"	1/2"	2-7/8"	2

SCALE 1:1



REPLACEMENT PARTS

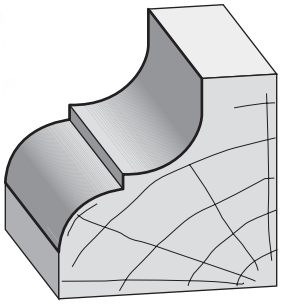
BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB122 CLASSICAL OGEE MOULDING BIT
WITH BALL BEARING GUIDE



PART NO.	LARGE DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB122	2"	21/64"	1-7/32"	1/2"	3-1/8"	2

SCALE 1:1



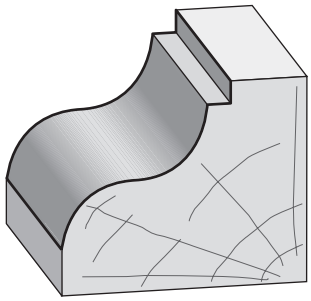
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB121 OGEE WITH FILLET MOULDING BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB121	2-1/4"	1"	1/2"	2-7/8"	2

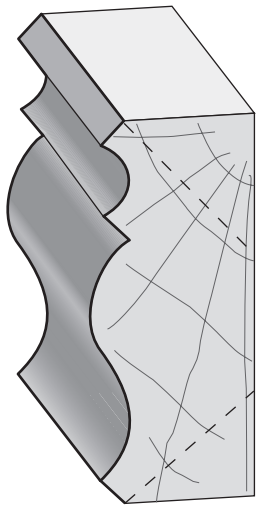
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB150 FLUTED OGEE WITH BEAK CROWN MOULDING BIT
TWO FLUTES



SCALE 1:1

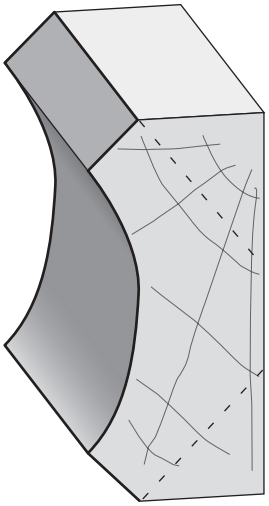


PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB150	1-1/4"	2-1/4"	1/2"	3-3/4"	2

FRB151 SPLAYED CAVETTO CROWN MOULDING BIT
TWO FLUTES



SCALE 1:1

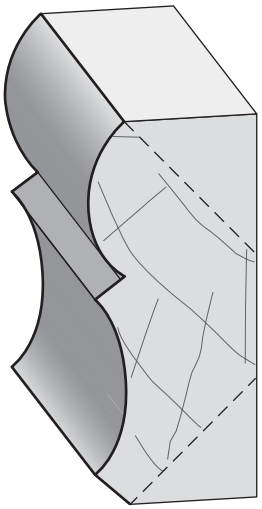


PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB151	1-1/4"	2-1/4"	1/2"	3-3/4"	2

FRB152 OVOLO CAVETTO WITH BEAK CROWN MOULDING BIT
TWO FLUTES



SCALE 1:1

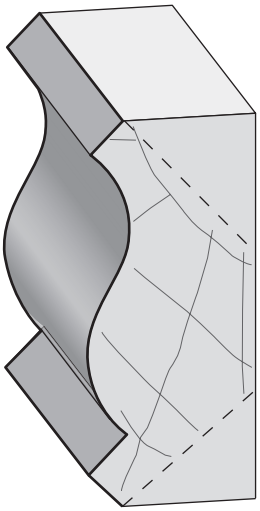


PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB152	1-1/4"	2-1/4"	1/2"	3-3/4"	2

FRB153 OGEE WITH BEAK CROWN MOULDING BIT
TWO FLUTES



SCALE 1:1

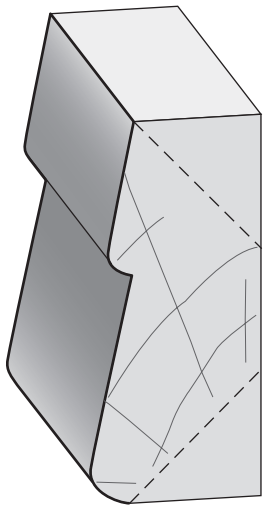


PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB153	1-1/4"	2-1/4"	1/2"	3-3/4"	2

FRB154 DOUBLE ECHINUS CROWN MOULDING BIT
TWO FLUTES



SCALE 1:1

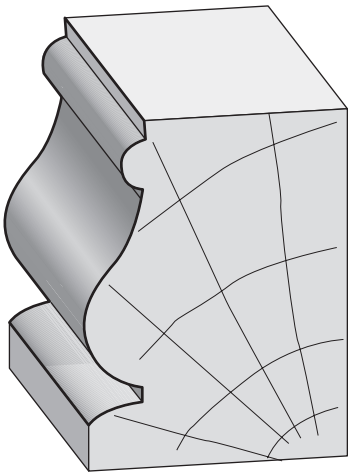


PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB154	1-1/4"	2-1/4"	1/2"	3-3/4"	2

FRB78-1 BEADED VASE ARCHITECTURAL MOULDING BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB78-1	1-1/16"	1-3/4"	1/2"	3-3/4"	2

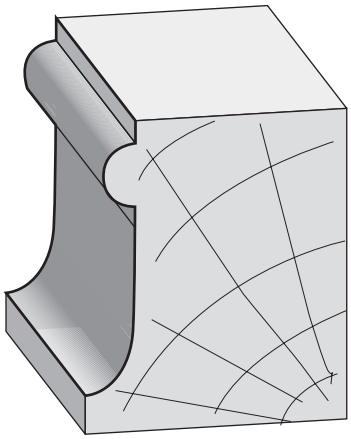
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB78-2 BEADED CONGE ARCHITECTURAL MOULDING BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB78-2	1"	1-1/2"	1/2"	3-3/8"	2

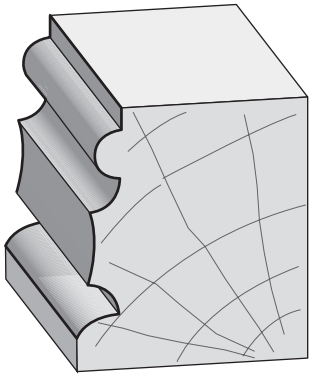
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB78-3 BEADED CAVETTO WITH BEAK ARCHITECTURAL BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB78-3	1"	1-1/2"	1/2"	3-1/2"	2

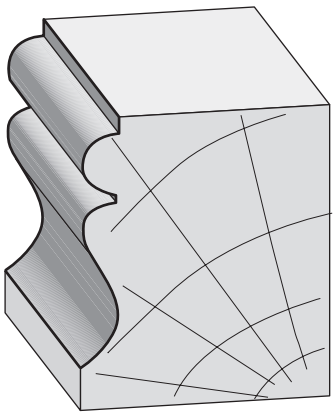
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB78-4 BEADED SCOTIA ARCHITECTURAL MOULDING BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB78-4	7/8"	1-1/2"	1/2"	3-3/8"	2

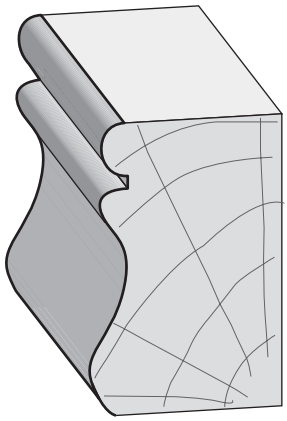
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB78-5 BEADED VASE ARCHITECTURAL MOULDING BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB78-5	1"	1-3/4"	1/2"	3-3/4"	2

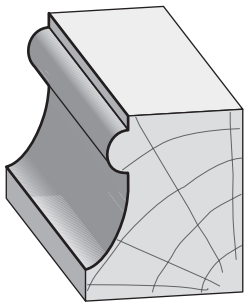
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB78-6 BEADED CAVETTO ARCHITECTURAL MOULDING BIT
WITH BALL BEARING GUIDE



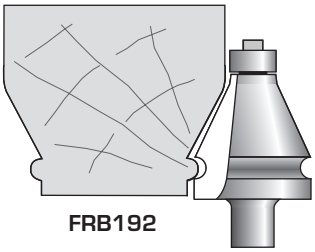
SCALE 1:1



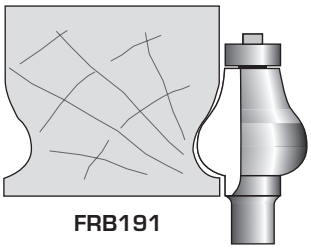
PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB78-6	1"	1"	1/2"	2-7/8"	2

REPLACEMENT PARTS

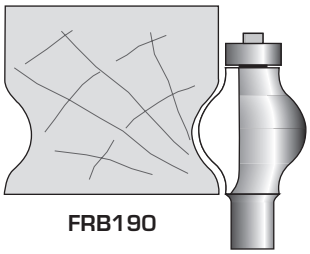
BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538



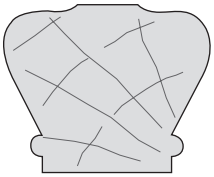
FRB192



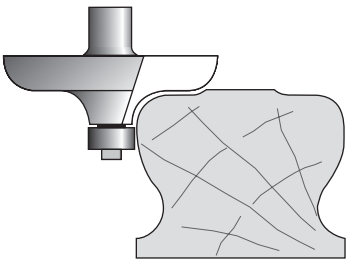
FRB191



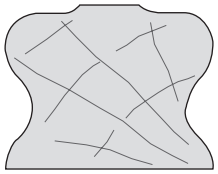
FRB190



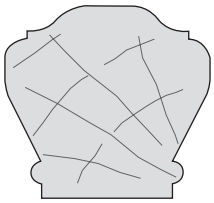
FRB183
FRB192



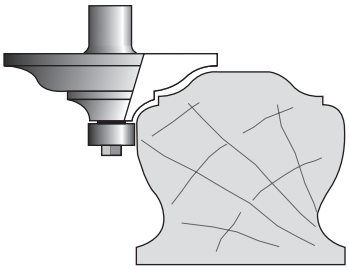
FRB183
FRB191



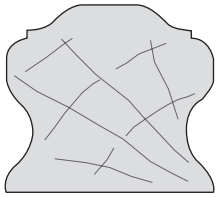
FRB183
FRB190



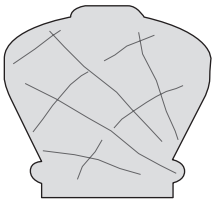
FRB181
FRB192



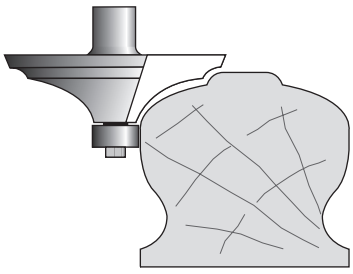
FRB181
FRB191



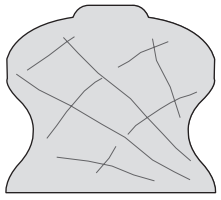
FRB181
FRB190



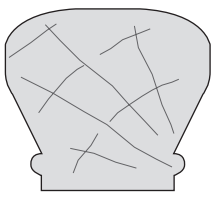
FRB182
FRB192



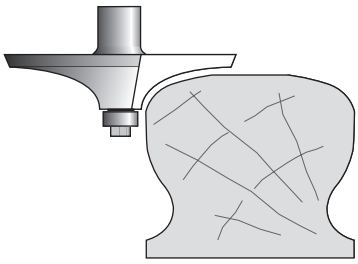
FRB182
FRB191



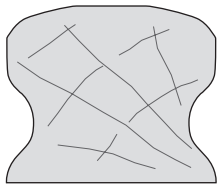
FRB182
FRB190



FRB180
FRB192



FRB180
FRB191



FRB180
FRB190

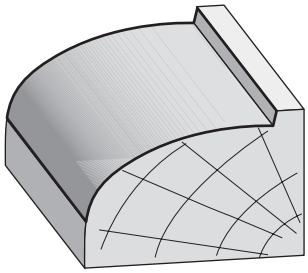
FRB180 THUMBNAIL HANDRAIL BIT
WITH BALL BEARING GUIDE



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO FLUTES
FRB180 •	2-3/4"	11/16"	1/2"	2-1/2"	2

• Max. RPM: 18,000

SCALE 1:1



REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

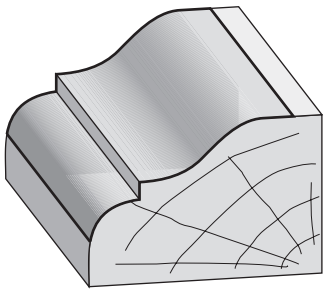
FRB181 QUARTER ROUND WITH OGEE HANDRAIL BIT
WITH BALL BEARING GUIDE



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO FLUTES
FRB181 •	2-1/2"	25/32"	1/2"	2-3/4"	2

• Max. RPM: 18,000

SCALE 1:1



REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

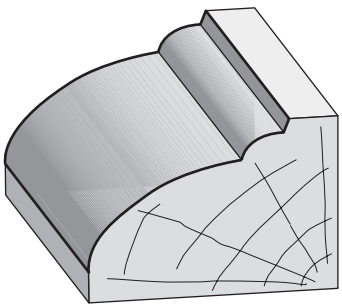
FRB182 THUMBNAIL WITH QUARTER ROUND HANDRAIL BIT
WITH BALL BEARING GUIDE



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO FLUTES
FRB182 •	2-5/8"	3/4"	1/2"	2-5/8"	2

• Max. RPM: 18,000

SCALE 1:1

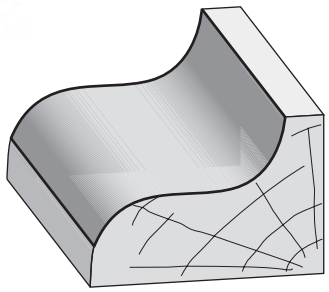


REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB183 ROUND OVER WITH CAVETTO HANDRAIL BIT
WITH BALL BEARING GUIDE





SCALE 1:1

PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO FLUTES
FRB183 •	2-1/2"	25/32"	1/2"	2-3/4"	2

• Max. RPM: 18,000

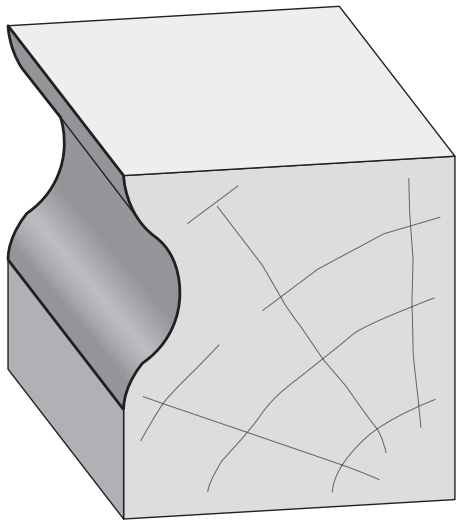
REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

FRB190 CAVETTO HANDRAIL BIT
WITH BALL BEARING GUIDE



SCALE 1:1



PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB190	1-1/4"	1-1/2"	1/2"	3-3/8"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

FRB191 SCOTIA WITH FILLET HANDRAIL BIT
WITH BALL BEARING GUIDE

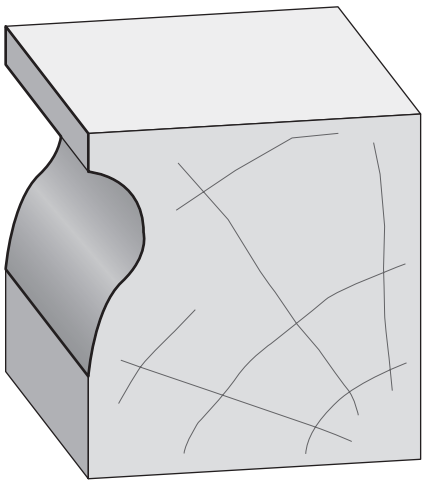


PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB191	1-1/4"	1-1/2"	1/2"	3-3/8"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3-4	WR59	WFS506	WNC538

SCALE 1:1



FRB192 BEADED SPLAY HANDRAIL BIT
WITH BALL BEARING GUIDE

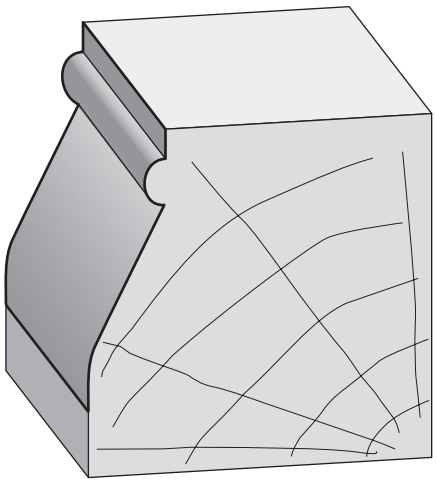


PART NO.	LARGE DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB192	1-3/8"	1-1/2"	1/2"	3-3/8"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SPRING WASHER	SCREW
B3	WR58	WFS506	WNC538

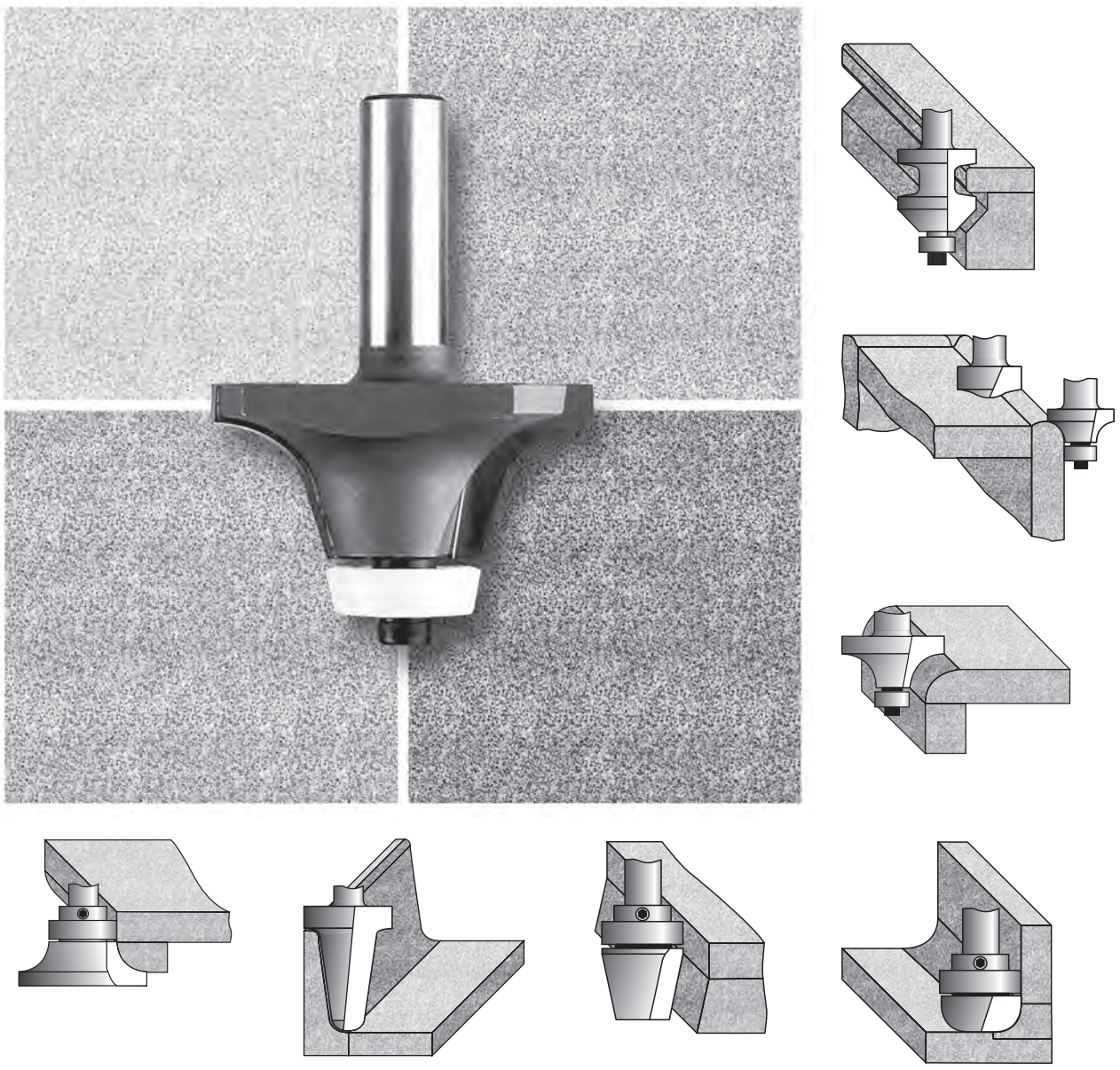
SCALE 1:1



SPECIAL ROUTER BITS FOR FABRICATING

SOLID SURFACE MATERIALS

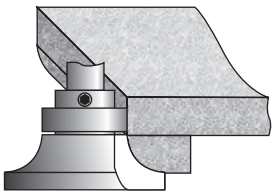
WILSONART® GIBRALTAR®, SSV®; CORIAN®;
SURELL®; AVONITE®; FOUNTAINHEAD®, etc.



FS Tool Router Bits have been specifically engineered for the fabrication of **solid surface materials**. Tough carbide grades and specific tool geometry ensures extended tool life. Ball bearing guides, where possible, have a nylon shield to prevent marking of the workpiece. See page E7 for solid surface circular saw blades.

FRB407 INVERTED ROUNDING OVER BITS
WITH "NO MARK" BALL BEARING GUIDE





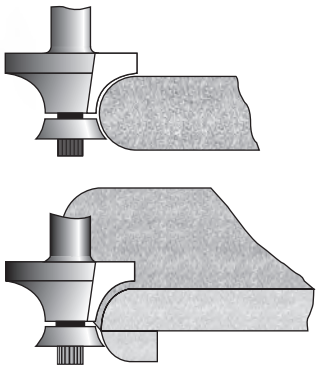
PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB407	2-1/8"	1/2"	3/4"	1/2"	2-7/8"	2
FRB408	2-5/8"	3/4"	1"	1/2"	3"	2

REPLACEMENT PARTS

BALL BEARING	LOCK RING	SCREW
B30	W03	WNC518

FRB432 CORNER ROUNDING BITS
WITH RADIUS "NO MARK" BALL BEARING





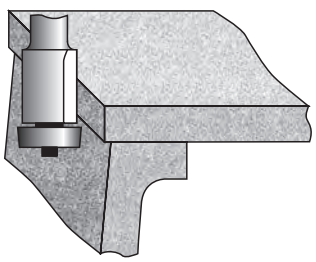
PART NO.	LARGE DIAM.	SMALL DIAM	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB432	2-5/8"	5/8"	1"	1-15/64"	1/2"	3-3/16"	2

REPLACEMENT PARTS

TOOL NO.	BALL BEARING	WASHER	SCREW
FRB432	B84	WFS500	WNF1012

FRB418 1/16" OVERHANG ROUGH-OUT BIT
"NO-DRIP" DESIGN WITH 5° "NO MARK" BALL BEARING GUIDE





APPLICATION:

» Using a template, this tool will "rough-out" the sink cut-out
» A second tool (flush trim FRB424) will finish the cut flush

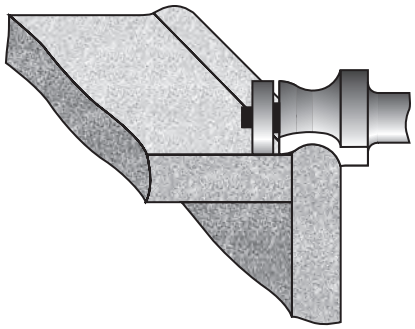
PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB418	3/4"	1"	1/2"	3-1/4"	2

REPLACEMENT PARTS

BALL BEARING	SCREW
B26	WNF1012

FRB400 COUNTERTOP BITS
WITH "NO MARK" BALL BEARING GUIDE





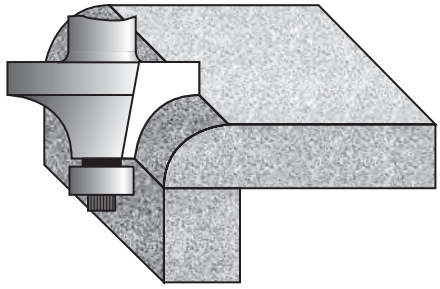
PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB400	1"	5/16"	7/8"	1/2"	2-7/8"	2
FRB401	1"	5/16"	1-1/8"	1/2"	3-1/16"	2

REPLACEMENT PARTS

BALL BEARING	SPRING WASHER	SCREW
B22	WFS508	WNF1012

FRB410 ROUNDING OVER BITS
WITH "NO MARK" BALL BEARING GUIDE





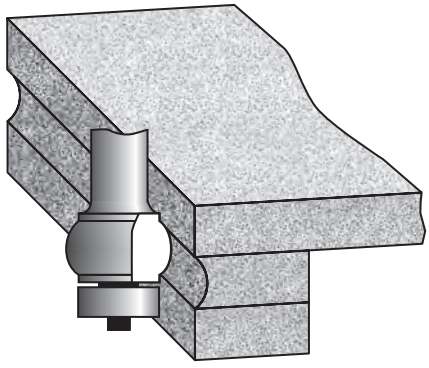
PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB410	1-1/8"	5/16"	1/2"	1/2"	2-5/16"	2
FRB411	1-1/4"	3/8"	5/8"	1/2"	2-7/16"	2
FRB412	1-1/2"	1/2"	3/4"	1/2"	2-9/16"	2
FRB413	2"	3/4"	1"	1/2"	2-3/4"	2

REPLACEMENT PARTS

BALL BEARING	SPRING WASHER	SCREW
B20	WFS500	WNC538

FRB426 EDGE COVE TRIMMING BIT
WITH "NO MARK" BALL BEARING GUIDE





PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB426	1"	5/16"	5/8"	1/2"	2-5/8"	2

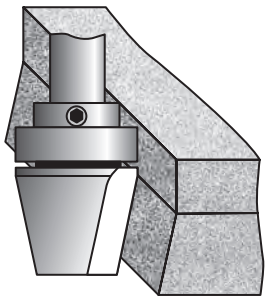
REPLACEMENT PARTS

BALL BEARING	SCREW
B22	WNF1012

FRB420 EDGE BEVEL COUNTERTOP BIT
WITH BALL BEARING GUIDE



PART NO.	CUTTING DIAM.	DEG. BEVEL	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB420	1-1/8"	12°	1"	1/2"	3-1/8"	2



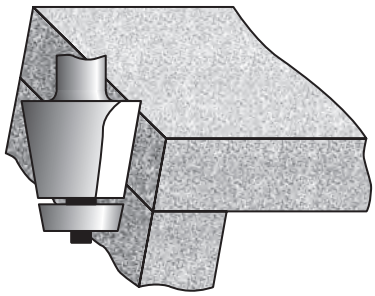
REPLACEMENT PARTS

BALL BEARING	LOCK RING	SCREW
B6-4	W03	WNC518

FRB402 BEVEL UNDERMOUNT BOWL BITS
WITH "NO MARK" BALL BEARING GUIDE



PART NO.	CUTTING DIAM.	DEG. BEVEL	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB402	1-1/4"	12°	1"	1/2"	3-3/16"	2



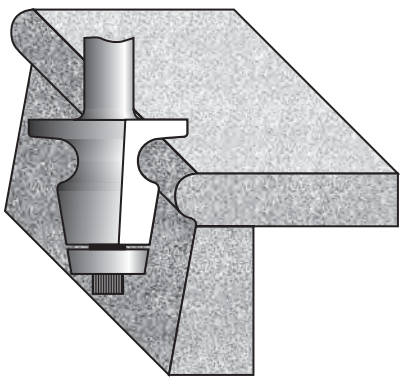
REPLACEMENT PARTS

BALL BEARING	SPRING WASHER	SCREW
B24	WFS508	WNF1012

FRB438 UNDERMOUNT PROFILE BOWL BITS
WITH "NO MARK" BALL BEARING GUIDE



PART NO.	LARGE DIAM.	SMALL DIAM.	DEG. BEVEL	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB438	1-21/32"	7/8"	10°	15/64"	1-5/16"	1/2"	3-5/16"	2

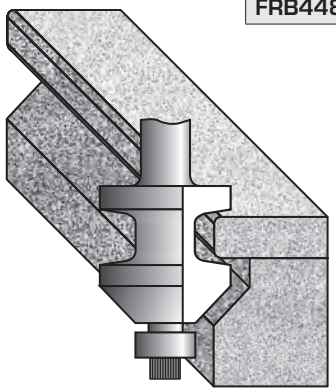


REPLACEMENT PARTS

BALL BEARING	WASHER	SCREW
B24	WFS500	WNF1012

FRB448 BEVEL HOB BITS
TWO FLUTES





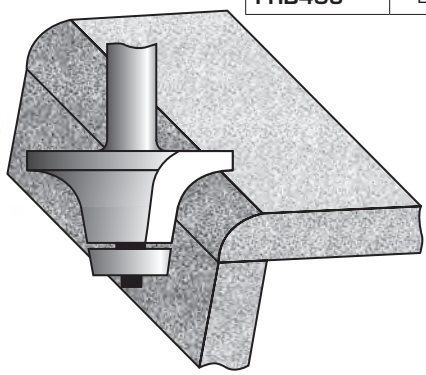
PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB448	1-3/8"	1/8"	1-7/16"	1/2"	2-7/8"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SCREW
B3-3	WFS502	WNF1012

FRB405 ROUNDING OVER UNDERMOUNT BOWL BITS
WITH "NO MARK" BALL BEARING GUIDE





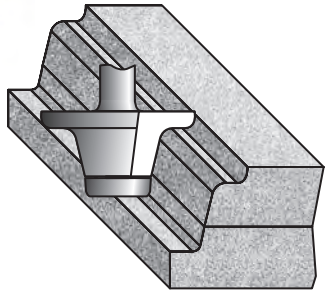
PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB405	2-1/8"	1/2"	1"	1/2"	3-1/8"	2
FRB406	2-1/4"	9/16"	1-1/4"	1/2"	3-1/4"	2

REPLACEMENT PARTS

BALL BEARING	SPRING WASHER	SCREW
B24	WFS508	WNF1012

FRB436 UNDERMOUNT BOWL BITS
WITH "NO MARK" BALL BEARING GUIDE





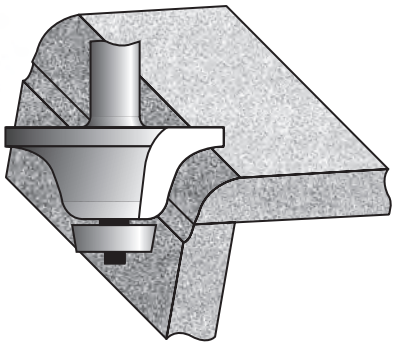
PART NO.	LARGE DIAM.	RADIUS R1	RADIUS R2	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB436	2-1/4"	13/64"	5/32"	15/16"	1/2"	2-3/4"	2

REPLACEMENT PARTS

BALL BEARING	WASHER	SCREW
B21	WFS500	W103214

FRB403 ROMAN OGEE UNDERMOUNT BOWL BITS
WITH "NO MARK" BALL BEARING GUIDE





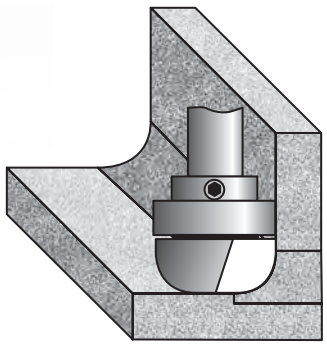
PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB403	2-1/8"	1/2"	1"	1/2"	3"	2
FRB404	2-3/8"	9/16"	1-1/4"	1/2"	3-3/8"	2

REPLACEMENT PARTS

BALL BEARING	SPRING WASHER	SCREW
B24	WFS508	WNF1012

FRB440 CORNER COVE BIT
WITH CENTRE "NO MARK" BALL BEARING GUIDE





PART NO.	CUTTING DIAM.	RADIUS	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB440	1-1/8"	25/64"	1/2"	1/2"	2-7/8"	2

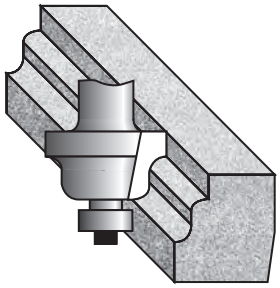
REPLACEMENT PARTS

BALL BEARING	LOCK RING	SCREW
B30	W03	WNC518

FRB442 ROMAN OGEE BIT
WITH "NO MARK" BALL BEARING GUIDE



PART NO.	CUTTING DIAM.	RADIUS R1	RADIUS R2	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB442	1-1/8"	1/8"	5/32"	5/8"	1/2"	2-9/16"	2



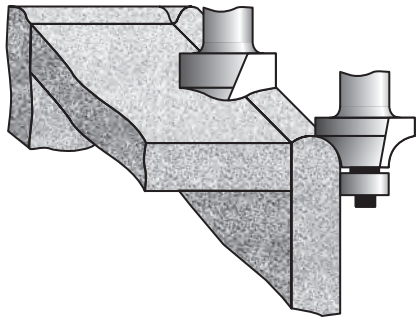
REPLACEMENT PARTS

BALL BEARING	WASHER	SCREW
B20	WFS500	WNC538

FRB416 COUNTERTOP EDGE BIT
"NO-DRIP" DESIGN



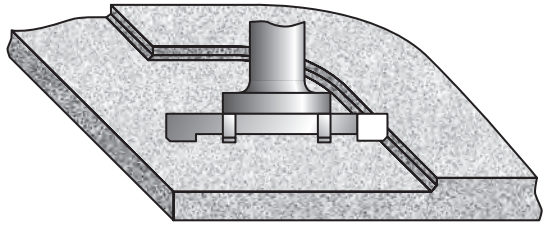
PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB416	1"	1/2"	1/2"	2-1/8"	2



FRB470 BOWL AND COUNTERTOP TRIM BIT
SIX WING FACE CUTTING



PART NO.	CUTTING DIAM.	CARBIDE HEIGHT	SHANK DIAM.	OVERALL LENGTH	NO. WINGS
FRB470	2-1/16"	1/4"	1/2"	3-5/16"	6

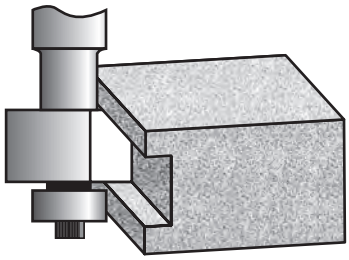


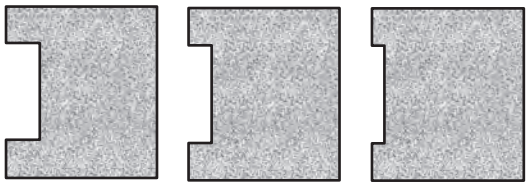
FRB460 FACE INLAY BITS
WITH BALL BEARING GUIDE



PART NO.	TOOL TYPE	CUTTING DIAM.	CUTTING HEIGHT	DEPTH OF INLAY	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB460	A	7/8"	1/4"	1/16"	1/2"	3"	2
FRB461	B	7/8"	1/4"	1/8"	1/2"	3"	2
FRB462	C	7/8"	1/4"	3/16"	1/2"	3"	2
FRB463	A	7/8"	1/2"	1/16"	1/2"	3-1/2"	2
FRB464	B	7/8"	1/2"	1/8"	1/2"	3-1/2"	2
FRB466	A	7/8"	3/4"	1/16"	1/2"	3-1/2"	2
FRB467	B	7/8"	3/4"	1/8"	1/2"	3-1/2"	2
FRB468	C	7/8"	3/4"	3/16"	1/2"	3-1/2"	2

SCALE 1:1





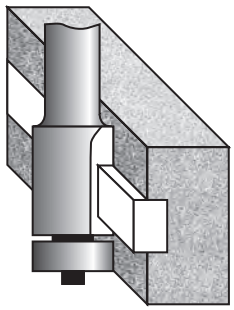
3/16" Depth of Inlay | 1/8" Depth of Inlay | 1/16" Depth of Inlay

REPLACEMENT PARTS

TOOL TYPE	BALL BEARING	WASHER	SCREW
A	B4	WFS500	WNF1012
B	B3-3	WFS500	WNF1012
C	B3-1	WFS500	WNF1012

FRB424 INLAY FLUSH TRIMMING BITS
WITH "NO MARK" BALL BEARING GUIDE





PART NO.	CUTTING DIAM.	CUTTING LENGTH	SHANK DIAM.	OVERALL LENGTH	NO. FLUTES
FRB424	3/4"	1"	1/2"	3"	2

REPLACEMENT PARTS

BALL BEARING	SCREW
B22	WNF1012

ROUTER BIT REPLACEMENT PARTS INDEX

										
ROUTER BIT PART NO.	CAT. PAGE	BALL BEARING(S)	FLAT/SPRING WASHER	RAISED WASHER	SCREW	EXTERNAL CIRCLIP	LOCK RING	LOCK RING SCREW	HEX NUT
FRB14 TO FRB17	F53	B3	WFS506	WR58	WNC538	-	-	-	-
FRB18 TO FRB20	F56	B3	WFS506	WR58	WNC538	-	-	-	-
FRB21 TO FRB23	F57	B2	WFS500, WFS506	-	WNC538	-	-	-	-
FRB23-5	F63	see page F63	-	-	-	-	-	-	-
FRB23-6	F64	see page F64	-	-	-	-	-	-	-
FRB23-7	F62	see page F62	-	-	-	-	-	-	-
FRB24 TO FRB24-1	F60	B3	WFS506	WR58	WNC538	-	-	-	-
FRB25	F55	B3	WFS506	WR58	WNC538	-	-	-	-
FRB25-3	F61	B3	WFS506	WR58	WNC538	-	-	-	-
FRB27 TO FRB28	F69	see page F69	-	-	-	-	-	-	-
FRB30 TO FRB31	F68	see page F68	-	-	-	-	-	-	-
FRB31-1, FRB31-3	F70	see page F70	-	-	-	-	-	-	-
FRB31-2, FRB31-4	F71	see page F71	-	-	-	-	-	-	-
FRB31-5	F72	B5	-	-	-	-	-	-	WNF516
FRB31-6	F35	see page F35	-	-	-	-	-	-	WNF516
FRB31-7	F34	see page F34	-	-	-	-	-	-	WNF516
FRB33 TO FRB36	F54	B3	WFS506	WR58	WNC538	-	-	-	-
FRB37 TO FRB40	F54	B1	WFS504	WR12	WNC538	-	-	-	-
FRB40-1 TO FRB40-2	F55	B3	WFS504	WR58	WNC538	-	-	-	-
FRB41 TO FRB44	F56	B3	WFS506	WR58	WNC538	-	-	-	-
FRB49 TO FRB52	F53	B3	WFS506	WR58	WNC538	-	-	-	-
FRB63	F58	B5	-	-	-	WC01	-	-	-
FRB64	F58	B7	-	-	-	WC02	-	-	-
FRB65	F58	B5	-	-	-	WC01	-	-	-
FRB66	F58	B7	-	-	-	WC02	-	-	-
FRB67 TO FRB69	F57	B3	WFS506	WR58	WNC538	-	-	-	-
FRB74 TO FRB74-1	F81	B3	WFS506	WR58	WNC538	-	-	-	-
FRB74-2 TO FRB74-6	F81	B3-4	WFS506	WR59	WNC538	-	-	-	-
FRB76 TO FRB76-2	F86	B3-3	-	-	WNF1012	-	W01	WNC525	-
FRB76-3	F85	B3-3	-	-	WNF1012	-	W01	WNC525	-
FRB76-7	F83	B3-4	WFS506	WR59	WNC538	-	-	-	-
FRB77-1 TO FRB77-4	F82	B3-4	WFS506	WR59	WNC538	-	-	-	-
FRB77-5 TO FRB77-6	F85	B3-4	WFS506	WR59	WNC538	-	-	-	-
FRB77-7 TO FRB77-8	F85	B4	WFS500, WFS506	-	WNC538	-	-	-	-
FRB77-9	F84	B3-4	WFS506	WR59	WNC538	-	-	-	-
FRB78-1 TO FRB78-3	F98	B3	WFS506	WR58	WNC538	-	-	-	-
FRB78-4 TO FRB78-6	F99	B3	WFS506	WR58	WNC538	-	-	-	-
FRB100	F87	B3	WFS506	WR58	WNC538	-	-	-	-
FRB101 TO FRB102	F87	B3	WFS506	WR58	WNC538	-	-	-	-
FRB104	F88	B3-4	WFS506	WR59	WNC538	-	-	-	-
FRB106 TO FRB107	F88	B3-4	WFS506	WR59	WNC538	-	-	-	-
FRB105	F90	B3-4	WFS506	WR59	WNC538	-	-	-	-
FRB108	F89	B3-2	WFS506	WR59	WNC512	-	-	-	-
FRB109	F89	B3	WFS506	WR58	WNC538	-	-	-	-
FRB110	F90	B3	WFS506	WR58	WNC538	-	-	-	-
FRB111	F89	B3	WFS506	WR58	WNC538	-	-	-	-
FRB113 TO FRB113-2	F91	B3-4	WFS506	WR59	WNC538	-	-	-	-
FRB114	F91	B4	WFS500	-	WNF1012	-	-	-	-
FRB115 TO FRB116	F92	B3-4	WFS506	WR59	WNC538	-	-	-	-
FRB117 TO FRB120	F93	B3-4	WFS506	WR59	WNC538	-	-	-	-
FRB121	F95	B3	WFS506	WR58	WNC538	-	-	-	-
FRB122 TO FRB124	F94	B3	WFS506	WR58	WNC538	-	-	-	-
FRB160 TO FRB163	F48	B3	WFS506	WR58	WNC538	-	-	-	-
FRB164	F48	B3-4	WFS506	WR59	WNC538	-	-	-	-
FRB170	F36	see page F36	-	-	-	-	-	-	-
FRB171	F37	see page F37	-	-	-	-	-	-	-
FRB180 TO FRB182	F101	B3	WFS506	WR58	WNC538	-	-	-	-
FRB183	F102	B3	WFS506	WR58	WNC538	-	-	-	-
FRB190	F102	B3-4	WFS506	WR59	WNC538	-	-	-	-
FRB191	F103	B3-4	WFS506	WR59	WNC538	-	-	-	-
FRB192	F103	B3	WFS506	WR58	WNC538	-	-	-	-
FRB195	F49	B3	WFS506	WR58	WNC538	-	-	-	-

ROUTER BIT REPLACEMENT PARTS INDEX










ROUTER BIT PART NO.	CAT. PAGE	BALL BEARING(S)	FLAT/SPRING WASHER	RAISED WASHER	SCREW	EXTERNAL CIRCLIP	LOCK RING	LOCK RING SCREW	HEX NUT
FRB200 TO FRB202	F47	see page F47	-	-	-	-	-	-	-
FRB212 TO FRB213	F72	B2	WFS500, WFS506	-	WNC538	-	-	-	-
FRB215	F65	B2	WFS500, WFS506	-	-	-	-	WNC538	-
FRB216 TO FRB217	F65	B3-1	-	-	-	-	W01	WNC525	-
FRB219, FRB222	F66	B2	WFS500, WFS506	-	WNC538	-	-	-	-
FRB220, FRB223	F66	B3-1	-	-	-	-	W01	WNC525	-
FRB225, FRB228	F67	B2	WFS500, WFS506	-	WNC538	-	-	-	-
FRB226, FRB229	F67	B3-1	-	-	-	-	W01	WNC525	-
FRB231, FRB234	F67	B2	WFS500, WFS506	-	WNC538	-	-	-	-
FRB232, FRB235	F67	B3-1	-	-	-	-	W01	WNC525	-
FRB237	F66	B2	WFS500, WFS506	-	WNC538	-	-	-	-
FRB238	F66	B3-1	-	-	-	-	W01	WNC525	-
FRB400 TO FRB401	F106	B22	WFS508	-	WNF1012	-	-	-	-
FRB402	F107	B24	WFS508	-	WNF1012	-	-	-	-
FRB403 TO FRB404	F109	B24	WFS508	-	WNF1012	-	-	-	-
FRB405 TO FRB406	F108	B24	WFS508	-	WNF1012	-	-	-	-
FRB407 TO FRB408	F105	B30	-	-	-	-	W03	WNC518	-
FRB410 TO FRB413	F106	B20	WFS500	-	WNC538	-	-	-	-
FRB418	F105	B26	-	-	WNF1012	-	-	-	-
FRB420	F107	B6-4	-	-	-	-	W03	WNC518	-
FRB424	F111	B22	-	-	WNF1012	-	-	-	-
FRB426	F106	B22	-	-	WNF1012	-	-	-	-
FRB430	F105	B80	WFS500	-	WNF1012	-	-	-	-
FRB432	F105	B84	WFS500	-	WNF1012	-	-	-	-
FRB436	F108	B21	WFS500	-	W103214	-	-	-	-
FRB438	F107	B24	WFS500	-	WNF1012	-	-	-	-
FRB440	F109	B30	-	-	-	-	W03	WNC518	-
FRB442	F110	B20	WFS500	-	WNC538	-	-	-	-
FRB448	F108	B3-3	WFS502	-	WNF1012	-	-	-	-
FRB460	F111	B4	WFS500	-	WNF1012	-	-	-	-
FRB461	F111	B3-3	WFS500	-	WNF1012	-	-	-	-
FRB462, FRB468	F111	B3-1	WFS500	-	WNF1012	-	-	-	-
FRB463	F111	B4	WFS500	-	WNF1012	-	-	-	-
FRB464	F111	B3-3	WFS500	-	WNF1012	-	-	-	-
FRB466	F111	B4	WFS500	-	WNF1012	-	-	-	-
FRB467	F111	B3-3	WFS500	-	WNF1012	-	-	-	-
R2320 TO R2320 -2	F11	B3-1	-	-	-	-	W01	WNC525	-
R2321	F11	B3-3	-	-	-	-	W01	WNC525	-
R2322	F11	B4	-	-	-	-	W01	WNC525	-
R2322-1 TO R2322-2	F11	B4-1A	-	-	-	-	W04	WNC518	-
R2323	F11	B6-1	-	-	-	-	W02	WNC525	-
R2324	F11	B6-1B	-	-	-	-	W04	WNC518	-
R2325	F11	B6-4	-	-	-	-	W03	WNC518	-
R2326	F11	B6-5	-	-	-	-	W03	WNC518	-
R2406-9	F28	B3-1	-	-	-	-	W01	WNC525	-
R2420	F28	B3-1	-	-	-	-	W01	WNC525	-
R2421	F28	B4	-	-	-	-	W01	WNC525	-
R2422	F28	B4-1A	-	-	-	-	W04	WNC518	-
R2423	F28	B6-4	-	-	-	-	W03	WNC518	-
R2430 TO R2434	F82	B3	WFS506	WR58	WNC538	-	-	-	-
R2436 TO R2437	F83	B3-1 / B3	WFS506	WR58	WNC538	-	W01	WNC525	-
R2440 TO R2444	F83	B3	WFS506	WR58	WNC538	-	-	-	-
R2450	F11	B4	-	-	-	-	W01	WNC525	-
R2451	F11	B6-1B	-	-	-	-	W04	WNC518	-
R2452	F11	B10	-	-	-	-	W03	WNC518	-
R2514	F80	B3	WFS506	WR58	WNC538	-	-	-	-
R2515	F80	B3-4	WFS506	WR59	WNC512	-	-	-	-
R2516 TO R2517	F80	B4	WFS508	WR59	WNF1012	-	-	-	-

ROUTER BIT REPLACEMENT PARTS INDEX

										
ROUTER BIT PART NO.	**CAT. PAGE**	**BALL BEARING(S)**	**FLAT/SPRING WASHER**	**RAISED WASHER**	**SCREW**	**EXTERNAL CIRCLIP**	**LOCK RING**	**LOCK RING SCREW**	**HEX NUT**
R2519	F79	B6-4	-	-	-	-	W03	WNC518	-
R2525 TO R2527	F77	B6-3	-	-	-	-	-	-	WNF516
R2530	F78	B5	-	-	-	-	-	-	WNF516
R2535	F78	B5	-	-	-	-	-	-	WNF516
R2560	F24	B3-1	-	-	-	-	W01	WNC525	-
R2620	F40	B3-1	-	-	-	-	W01	WNC525	-
R2800-1 TO R2806	F52	B1	WFS504	WR12	WNC338	-	-	-	-
R2807 TO R2810	F52	B3	WFS506	WR58	WNC538	-	-	-	-
R2900 TO R2903	F12	B3	WFS506	WR58	WNC538	-	-	-	-
R2905 TO R2908	F12	B2	WFS500, WFS506	-	WNC538	-	-	-	-
R2950 TO R2951	F13	see page F13	-	-	-	-	-	-	-
R2960 TO R2961	F14	see page F14	-	-	-	-	-	-	-
R2970 TO R2972	F15	see page F15	-	-	-	-	-	-	-
R3000 TO R3013	F76	B3	WFS506	WR58	WNC538	-	-	-	-
R3030	F51	B3-1	-	-	-	-	W01	WNC525	-
R3032	F51	B4	-	-	-	-	W01	WNC525	-
R3034	F51	B5	-	-	-	-	W01	WNC525	-
R3036	F51	B6-4	-	-	-	-	W03	WNC518	-
R3100 TO R3114	F50	B2	WFS500, WFS506	-	WNC538	-	-	-	-
R3200 TO R3203	F55	B1	WFS504	WR12	WNC338	-	-	-	-
R3300 TO R3301	F75	B2	WFS500, WFS506	-	WM308	-	-	-	-
R3302	F75	B3	WFS506	WR58	WNC538	-	-	-	-
R3302-1	F75	B1	WFS506	WR58	WNC338	-	-	-	-
R3303 TO R3304	F75	B3	WFS506	WR58	WNC538	-	-	-	-
R3304-1	F75	B1	WFS506	WR58	WNC338	-	-	-	-
R3305 TO R3307	F75	B3	WFS506	WR58	WNC538	-	-	-	-
R3310 TO R3313	F22	B3-4	WFS506	WR59	WNC538	-	-	-	-
R3320 TO R3323	F21	B3	WFS506	WR58	WNC538	-	-	-	-
R3324	F21	B4	WFS508	-	WNF1012	-	-	-	-
R3325	F21	B1	WFS504	WR12	WNC338	-	-	-	-
R3400-1 TO R3400-2	F17	B01	-	-	WNC2732	-	-	-	-
R3400 TO R3401	F17	B2	WFS500, WFS506	-	WNC538	-	-	-	-
R3402 TO R3403	F17	B3	WFS506	WR58	WNC538	-	-	-	-
R3403-1	F17	B3-4	WFS506	WR59	WNC538	-	-	-	-
R3404 TO R3408	F17	B3	WFS506	WR58	WNC538	-	-	-	-
R3409	F17	B4	WFS508	-	WNF1012	-	-	-	-
R3500 TO R3504	F17	B3	WFS506	WR58	WNC538	-	-	-	-
R3510 TO R3512	F16	B3 (2 pieces)	WFS508	WR58	-	-	-	-	WN1024
R3520 TO R3521	F19	B3	WFS506	WR58	WNC538	-	-	-	-
R3600 TO R3608	F22	B5	WF608	-	-	-	-	-	WNF516
R3700 -1	F19	B3-3	-	-	W103214	-	-	-	-
R3700 TO R3703	F19	B4	WFS500	-	WNF1012	-	-	-	-
R4120 TO R4152	F32	see page F32	-	-	-	-	-	-	-
R4160 TO R4162	F34	see page F34	-	-	-	-	-	-	WNF516
R4164	F33	see page F33	-	-	-	-	-	-	WNF516

B01 BALL BEARING GUIDES



PART NO.	OUTSIDE DIAM.	INSIDE DIAM.	THICKNESS
B01	1/4"	1/8"	7/64"
B1	3/8"	1/8"	5/32"
B2	3/8"	3/16"	1/8"
B2-1	1/2"	1/8"	11/64"
B3	1/2"	3/16"	5.0mm
B3-1	1/2"	1/4"	3/16"
B3-1A	14mm	7.0mm	5.0mm
B3-1B	14mm	8.0mm	4.0mm
B3-2	5/8"	3/16"	5.0mm
B3-3	5/8"	1/4"	5.0mm
B3-4	16mm	5.0mm	5.0mm
B3-4A	16mm	8.0mm	5.0mm
B3-5	3/4"	3/16"	3/16"
B3-6	19mm	6.0mm	6.0mm
B4	3/4"	1/4"	9/32"
B4-1A	3/4"	1/2"	5/32"

PART NO.	OUTSIDE DIAM.	INSIDE DIAM.	THICKNESS
B4-1	22mm	7.0mm	7.0mm
B5	7/8"	5/16"	7.0mm
B6	7/8"	3/16"	6.6mm
B6-1	26mm	10mm	8.0mm
B6-1B	1"	1/2"	6.0mm
B6-2	1-1/8"	3/16"	6.6mm
B6-3	28mm	8.0mm	9.0mm
B6-4	1-1/8"	1/2"	5/16"
B6-4A	1-7/32"	5/16"	8.6mm
B6-5	1-1/4"	15mm	8.5mm
B6-5A	1-1/4"	8.0mm	5.0mm
B6-6	1-5/16"	5/16"	8.6mm
B7	35mm	15mm	11.0mm
B8	1-3/8"	3/16"	6.6mm
B10	1-1/2"	15mm	8.5mm
B12	2"	15mm	12.5mm

B20 SUPER-GLIDE BALL "NO MARK" BEARING GUIDES



PART NO.	OUTSIDE DIAM.	INSIDE DIAM.	DEGREE OF TAPER
B20	1/2"	3/16"	0°
B21	25mm	1/4"	5°
B22	3/4"	1/4"	0°
B24	7/8"	1/4"	10°
B26	7/8"	1/4"	5°
B27	27mm	1/4"	0°
B28	28mm	5/16" (8mm)	0°
B30	1-1/8"	15mm	0°
B32	29mm	5/16" (8mm)	0°
B34	34mm	5/16" (8mm)	0°
B36	40.8mm	5/16" (8mm)	0°
B38	43mm	5/16" (8mm)	0°

B80 SUPER-GLIDE RADIUS BALL "NO MARK" BEARING GUIDES



PART NO.	OUTSIDE DIAM.	INSIDE DIAM.	THICKNESS	RADIUS
B80	27/32"	1/4"	1/4"	1/2"
B82	3/4"	1/4"	1/4"	3/4"
B84	3/4"	1/4"	1/4"	1"

WNC SCREWS



HEAD TYPE:
SOCKET CAP



HEAD TYPE:
HEADLESS



HEAD TYPE:
PHILIPS

PART NO.	SCREW TYPE	SCREW DIAM.	THREADS PER IN.	OVERALL LENGTH	HEAD TYPE
WNC2732	NC2	11/128"	56	7/32"	Philips
WNC518	NC5	1/8"	40	1/8"	Headless
WNC525	NC5	1/8"	40	2.5mm	Headless
WNC338	NC3	0.099"	48	3/8"	Socket Cap
WNC538	NC5	1/8"	40	3/8"	Socket Cap
WNC512	NC5	1/8"	40	1/2"	Socket Cap
WNF1012	NF10	3/16"	32	1/2"	Socket Cap
W103214	10/32	3/16"	32	1/4"	Socket Cap

WN1024 NYLON INSERT LOCKNUT



PART NO.	TYPE
WN1024	10-24

WNF516 HEX NUTS FOR ROUTER ARBORS

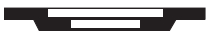


PART NO.	THREAD TYPE	APPLICATION
WNF516	5/16-24 NF	All arbors with 5/16-24 NF Thread

WR12 RAISED WASHERS (DUST SHIELDS)



SIDE PROFILE:



PART NO.	OUTSIDE DIAM.	INSIDE DIAM.	THICKNESS
WR12	3/8"	1/8"	0.7mm
WR58	1/2"	3/16"	0.7mm
WR59	16mm	5mm	0.8mm

WFS500 FLAT/SPRING WASHERS



PART NO.	OUTSIDE DIAM.	INSIDE DIAM.	THICKNESS
WFS500	5/16"	3/16"	1.2mm
WFS502	3/8"	1/4"	1.4mm
WFS504	3/16"	7/64"	1/64"
WFS506	1/4"	1/8"	1/64"
WFS508	3/8"	3/16"	1mm
WFS510	12mm	5/16"	1mm

W01 LOCK RINGS



PART NO.	OUTSIDE DIAM.	INSIDE DIAM.	SCREW PART NO.
W01	11mm	1/4"	WNC525
W02	16mm	3/8"	WNC518
W03	21mm	1/2"	WNC518
W04	18mm	1/2"	WNC518

WF501 SPACERS - FLAT SHIMS



PART NO.	OUTSIDE DIAM.	INSIDE DIAM.	THICKNESS
WF501	12mm	8mm	0.1mm
WF502	12mm	8mm	0.2mm
WF510	12mm	8mm	1.0mm
WF600	5/8"	5/16"	0.05mm
WF604	5/8"	5/16"	0.1mm
WF605	5/8"	5/16"	0.4mm
WF606	5/8"	5/16"	0.5mm
WF608	5/8"	5/16"	1.0mm
WF610	5/8"	5/16"	3.0mm
WF611	5/8"	5/16"	3.15mm
WF612	16mm	5/16"	3.4mm
WF614	1/2"	1/4"	5.0mm
WF616	5/8"	5/16"	5.5mm
WF618	5/8"	5/16"	6.0mm

WC01 EXTERNAL CIRCLIP



PART NO.	INSIDE DIAM.	THICKNESS
WC01	9/32"	0.8mm
WC02	1/2"	1.0mm

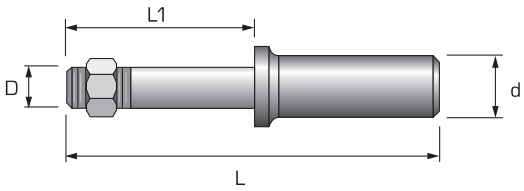
WA3814 ROUTER BIT ADAPTORS



PART NO.	OUTSIDE DIAM. MACHINE COLLET	INSIDE DIAM. ROUTER SHANK	LENGTH
WA3814	3/8"	1/4"	1"
WA1238	1/2"	3/8"	1"
WA1214	1/2"	1/4"	1"

AR14 ARBORS FOR ROUTER CUTTERS
ARBORS WITH NUT AND WASHER





PART NO.	SPINDLE DIAM. (D)	SHANK DIAM. (D)	LENGTH (L1)	OVERALL LENGTH (L)
AR14	5/16"	1/4"	7/8"	2-3/8"
AR13	5/16"	3/8"	1-7/16"	3"
AR12	5/16"	1/2"	1"	2-3/8"
AR11	5/16"	1/2"	1-3/8"	3"
AR20	5/16"	1/2"	2-1/8"	3-3/4"
AR21	5/16"	1/2"	1-1/2"	3-1/8"
AR22	5/16"	1/2"	2-5/8"	4-1/4"
AR23	5/16"	1/2"	1-3/4"	3-5/16"

AR12MB THREADED ARBOR
FOR MORTISING BITS



PART NO.	SHANK DIAM.	TYPE OF THREAD	OVERALL LENGTH
AR12MB	1/2"	1/4-28	2-3/8"
AR14MB	1/4"	1/4-28	1-3/4"

Fits R2310 to R2314 mortising bits (screw type)

ARCNC ARBOR FOR CNC ROUTERS



PART NO.	SPINDLE DIAM.	SHANK DIAM.	OVERALL LENGTH
ARCNC	5/16"	1/2"	2"

ARBOR INCLUDES:

Washers 1.0mm (2 pieces)	WF608
Washer 0.5mm (1 piece)	WF606
Screw WNF1012 (1 piece)	WNF1012
Raised Washer (1 piece)	WR59