

Carbide, Stellite or HSS Tipped

# **CUTTERS AND CUTTER COMBINATIONS**



## According to Application Made in:

**H.S.S.T** (High Speed Steel Tipped)
For softwood & hardwood without glue lines.

**STELLITE** (Stellite Tipped)
For softwood & hardwood without glue lines.

**T.C.T** (Tungsten Carbide-Tipped)
For hardwood, plywood, chipboard, MDF and other panel materials.

Our cutters are designed to conform with safety regulations, and are dynamically balanced.

To determine min. diameter on profiled cutters the calculation is: bore ("B") + 60mm (2-3/8") + (2 x profile depth) ("P"). As per table below.

"B"		"P"									
	5	10	15	20	25	30	35	40			
30	100	110	120	130	140	150	160	170			
35	105	115	125	135	145	155	165	175			
40	110	120	130	140	150	160	170	180			
50	120	130	140	150	160	170	180	190			
60	130	140	150	160	170	180	190	200			

"B"= Bore Diameter "P"= Profile Depth

"B"	"P"								
	3/8"	3/4"	1"	1-1/4"	1-1/2"				
3/4"	3-7/8"	4-5/8"	5-1/8"	5-5/8"	6-1/8"				
1-1/4"	4-3/8"	5-1/8"	5-5/8"	6-1/8"	6-5/8"				
1-13/16"	4-14/16"	5-7/16"	5-11/16"	5-15/16"	6-3/16"				
2"	5-1/8"	6-1/8"	6-5/8"	7-1/8"	7-5/8"				

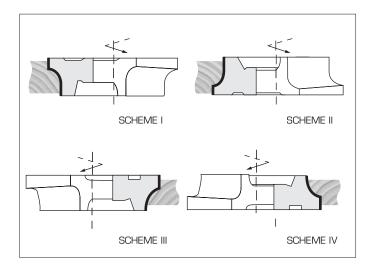
"B"= Bore Diameter "P"= Profile Depth

### **Order Details**

- (1) Type of cutter as numbered. For softwood & hardwood without glue lines.
- (2) Main dimensions in the following order: (diameter) x (cutting width) x (bore) x (number of teeth)
- (3) Cutting materials H.S.S.T, STELLITE or T.C.T.
- **(4)** R.P.M. of machine and rate of feed. Material to be cut, if possible supply sample.
- (5) Type of cut: against feed direction or with feed direction.

### When Ordering Cutters with Profiles

Sketches fully dimensioned, DXF files or samples of profiles should be supplied. Details of side to table, fence side, and direction of feed should be given.



### Direction of Rotation:

Scheme I - II = Counter Clock Wise (CCW) Scheme III - IV = Clock Wise (CW)

# PA PROFILE CUTTERS - SIMPLE PROFILES



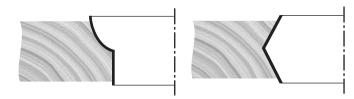


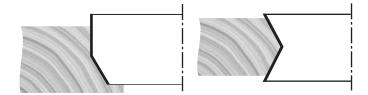
### **DESIGN:**

• With 2-3-4-6 cutting teeth, straight or with shear angle according to profile

### WHEN ORDERING SPECIFY:

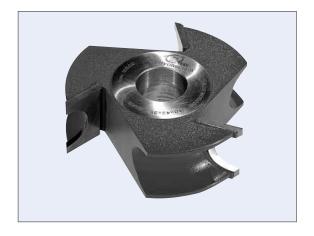
- Type of wood or material to be cut
- Rotation
- Details of profile to table, fence side
- R.P.M. of machine
- Rate of feed
- Exact sketch of profile
- Possibly a wood sample or a DXF file
- Bore diameter
- Diameter of cutter





Example of Simple Profile - PA

# PB PROFILE CUTTERS - COMPLEX PROFILES



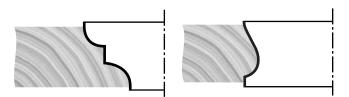
### **DESIGN:**

• With 2-3-4-6 cutting teeth, straight or with shear angle according to profile

### WHEN ORDERING SPECIFY:

- Type of wood or material to be cut
- Rotation
- Details of profile to table, fence side
- R.P.M. of machine
- Rate of feed
- Exact sketch of profile
- Possibly a wood sample or a DXF file
- Bore diameter
- Diameter of cutter





Example of Complex Profile - PB

# PC PROFILE CUTTERS - VERY COMPLEX PROFILES





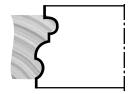
### **DESIGN:**

• With 2-3-4-6 cutting teeth, straight or with shear angle according to profile

### WHEN ORDERING SPECIFY:

- Type of wood or material to be cut
- Rotation
- Details of profile to table, fence side
- R.P.M. of machine
- · Rate of feed
- Exact sketch of profile
- Possibly a wood sample or a DXF file
- Bore diameter
- Diameter of cutter









Example of Very Complex Profiles - PC

# PI PROFILE CUTTERS - COMBINED PROFILES

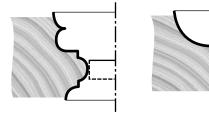


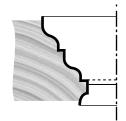
### **DESIGN:**

• With 2-3-4 teeth interlocked. For staggered cut and spur action with shearing cut

### WHEN ORDERING SPECIFY:

- Type of wood or material to be cut
- Rotation
- Details of profile to table, fence side
- R.P.M. of machine
- · Rate of feed
- Exact sketch of profile
- Possibly a wood sample or a DXF file
- Bore diameter
- Diameter of cutter





Example of Combined Profiles - PI

# **EDGEBANDING CUTTERS**



4 or 6



### **DESIGN:**

- Straight teeth, bevelled teeth, 4 or 6 teeth cutters
- Tungsten carbide cutting edges

### **APPLICATION:**

- On edgebanding machines
- For flush trimming, chamfering and profiling of wood-veneer and plastic edge bands

### FOR MACHINES:

 Brandt, Egurco, Franke, Homag, Homburg, IDM, IMA, IMEF, Manea, Ocmac, Olympic, Raiman, Salgo, Stefani.

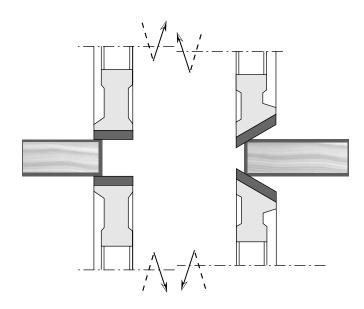
### WHEN ORDERING SPECIFY:

70 to 100

 For which machine, and if bevelled, cutting edge degrees required.

SPECIAL PROD	JCTION		
UNIT OF	DIAMETER	KERF	NO.
MEASURE			TEETH
INCH	2-3/4" to 4"	5/8" to 1-3/8"	4 or 6

15 to 35



MM

# **MULTI TOOTH JOINTING CUTTERS**





### **DESIGN:**

- High tensile steel body with 8 or 12 rows of carbide teeth. Straight staggered on a spiral progression
- Tungsten carbide cutting edges

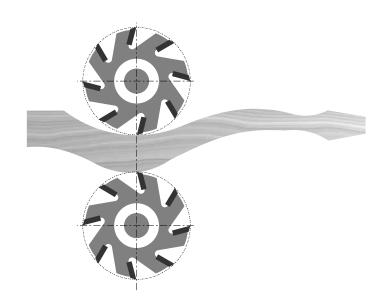
### **APPLICATION:**

- Ideal for "easy chip flow" with fast feeding on solid wood and composite materials. Mainly used for roughing-out furniture components
- On shapers and copying machines

### WHEN ORDERING SPECIFY:

- Cutter diameter
- Bore diameter
- Number of teeth
- Type of wood to cut
- Usable length of spindle

SPECIAL PRODUCTION	V					
UNIT OF MEASURE		DIAM	ETER	KERF	NO. TEETH	
INCH	3-1/8"	4"	4-3/4"	5-1/2"	2-3/8" to 9"	8 or 12
MM	80	100	120	140	60 to 230	8 or 12



# **MULTIPLE DOWEL CUTTERS**





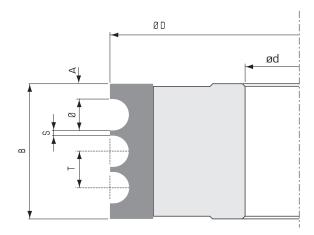
### **DESIGN:**

- 2 or 3 teeth, straight cut. Cutters work in pairs to produce single or multiple dowels
- H.S.S. Tipped cutting edges

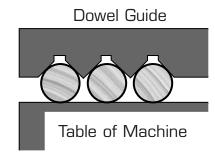
### APPLICATION:

- To produce single or multiple dowels
- On moulders
- All dowells produced must be guided at three points all the way (ILL.2). Guide must take hold of dowels immediately after leaving cutting edge area. (ILL.3)



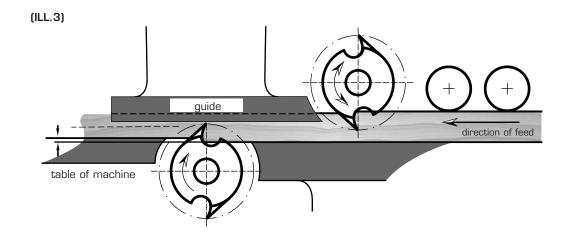


### (ILL.2)



# **MULTIPLE DOWEL CUTTERS**





						DI	MEN	SION	S						
Diam. of dowe	iam. of dowel Ø mm 3 4 5 6 7 8 9 10 11 12 13 14 15 16														
Splitting point	Smm	1	1	1	1	1	1	1	1	1.5	1.5	1.5	1.5	1.5	1.5
Pitch T	mm	4	5	6	7	8	9	10	11	12.5	13.5	14.5	15.5	16.5	17.5
Square end	A mm	4	4	4	4	4	4	4	5	5	5	5	5	5	5
Diam. ØD	mm	120	120	120	120	120	120	120	120	120	120	120	120	120	140
Kerf B	1	11	12	13	14	15	16	17	20	21	22	23	23	25	26
No. of dowels	2	15	17	19	21	23	25	27	31	33.5	35.5	37.5	39.5	41.5	43.5
	3	19	22	25	28	31	34	37	42	46	49	52	55	58	61
	4	23	27	31	35	39	43	47	53	58.5	62.5	66.5	70.5	74.5	78.5
	5	27	32	37	42	47	52	57	64	71	76	81	86	91	96
	6	31	37	43	49	55	61	67	75	83.5	89.5	95.5	101.5	107.5	113.5
	7	35	42	49	56	63	70	77	86	96	103	110	117	124	131
	8	39	47	55	63	71	79	87	97	108.5	116.5	124.5	132.5	140.5	148.5
	9	43	52	61	70	79	88	97	108	121	130	139	148		
	10	47	57	67	77	87	97	107	119	133.5	143.5				
	11	51	62	73	84	95	106	117	130	146					
Diam. of dowe	lØ mm	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Splitting point	Smm	1.5	1.5	1.5	2	2	2	2	2	2	2	2	2	2	2
Pitch T	mm	18.5	19.5	20.5	22	23	24	25	26	27	28	29	30	31	32
Square end	A mm	5	5	5	5	7	7	7	7	7	7	7	7	7	7
Diam. ØD	mm	140	140	140	140	140	140	140	140	160	160	160	160	160	160
Kerf B	mm1	27	28	29	30	35	36	37	38	39	40	41	42	43	44
No. of dowels	2	45.5	47.5	49.5	52	58	60	62	64	66	68	70	72	74	76
	3	64	67	70	74	81	84	87	90	93	96	99	102	105	108
	4	82.5	86.5	90.5	96	104	108	112	116	120	124	128	132	136	140
	5	101	106	111	118	127	132	137	142	147					
	6	119.5	125.5	131.5	140										

# **GROOVING CUTTERS**



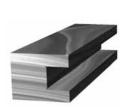


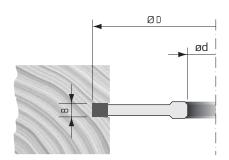
### **DESIGN:**

- With straight teeth. If required with alternating teeth or left-right + raker
- Tungsten carbide cutting edges

### **APPLICATION:**

- To make grooves in solid wood, with the grain and in uncoated panels
- Can be used in laminated materials if cutting with feed
- On shapers, double-end tenoners and moulders





IMPERIAL				
DIAMETER	DIAMETER	DIAMETER	KERF	NO.
ØD 4-3/4"	ØD 5-1/2"	ØD 6-1/4"	В	TEETH
PART NO.	PART NO.	PART NO.		
1121IC	1127IC	11213IC	3/16"	6
1122IC	1128IC	11214IC	1/4"	6
1123IC	1129IC	11215IC	5/16"	6
1124IC	11210IC	11216IC	3/8"	6
1125IC	11211IC	11217IC	1/2"	6
1126IC	11212IC	11218IC	5/8"	6

ød Bore: 1-1/4" Bore can be opened or bushed to spindle size of your machine. Maximum Bore size  $50 \, \text{mm}$  (2")

Other sizes available upon request

METRIC				
DIAMETER	DIAMETER	DIAMETER	KERF	NO.
ØD 120	ØD 140	ØD 160	Bmm	TEETH
PART NO.	PART NO.	PART NO.		
1121MC	1128MC	11215MC	5	6
1122MC	1129MC	11216MC	6	6
1123MC	11210MC	11217MC	8	6
1124MC	11211MC	11218MC	10	6
1125MC	11212MC	11219MC	12	6
1126MC	11213MC	11220MC	14	6
1127MC	11214MC	11221MC	16	6

ød Bore: 1-1/4" Bore can be opened or bushed to spindle size of your machine. Maximum Bore size  $50 \, \text{mm}$  [2"]

Other sizes available upon request

# **GROOVING CUTTERS WITH SPURS**



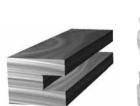


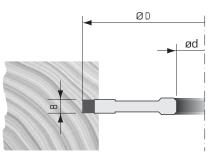
### **DESIGN:**

- With 4 teeth + 4 spurs
- Tungsten carbide cutting edges

### **APPLICATION:**

- For grooving solid wood, plywood, and laminated panels
- On Shapers, double-end tenoners, and moulders





IMPERIAL				
DIAMETER	DIAMETER	DIAMETER	KERF	NO.
ØD 4-3/4"	ØD 5-1/2"	ØD 6-1/4"	В	TEETH AND
PART NO.	PART NO.	PART NO.		SPURS
1131IC	1137IC	11313IC	3/16"	4+4
1132IC	1138IC	11314IC	1/4"	4+4
1133IC	1139IC	11315IC	5/16"	4+4
1134IC	11310IC	11316IC	3/8"	4+4
1135IC	11311IC	11317IC	1/2"	4+4
1136IC	11312IC	11318IC	5/8"	4+4

ød Bore: 1-1/4" Bore can be opened or bushed to spindle size of your machine. Maximum Bore size  $50_{mm}$  (2")

Other sizes available upon request

METRIC				
DIAMETER	DIAMETER	DIAMETER	KERF	NO.
ØD 120	ØD 140	ØD 160	Bmm	TEETH AND
PART NO.	PART NO.	PART NO.		SPURS
1131MC	1138MC	11315MC	5	4+4
1132MC	1139MC	11316MC	6	4+4
1133MC	11310MC	11317MC	8	4+4
1134MC	11311MC	11318MC	10	4+4
1135MC	11312MC	11319MC	12	4+4
1136MC	11313MC	11320MC	14	4+4
1137MC	11314MC	11321MC	16	4+4

ød Bore: 1-1/4" Bore can be opened or bushed to spindle size of your machine. Maximum Bore size 50mm (2")

Other sizes available upon request

# 113B LAMELLO - GROOVE CUTTER





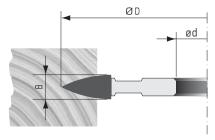
### **DESIGN:**

- With 4 teeth, alternating shear angle
- Tungsten carbide cutting edges

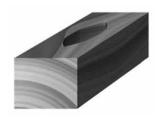
### APPLICATION:

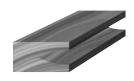
- For cutting out defects in solid woods
- For use on mini-spot machines
- For patch sizes 1-4

PART NO.			BORE ød mm		RPM MINMAX.
113B	100	8	22	4	7600-13400



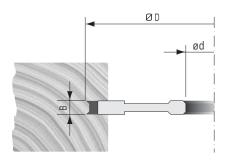






# **LAMELLO - GROOVE CUTTER**





### **DESIGN:**

- With 2 teeth and 4 spurs
- Tungsten carbide cutting edges

### APPLICATION:

- For chip free grooving of LAMELLO wood joints
- For solid woods with and against the grain
- On LAMELLO and ELU machines for buscuit joints



PART	DIAM.	KERF	BORE	NO.	NO.	RPM
NO.	ØD mm	B mm	ød mm	TEETH	SPURS	MINMAX
113L	100	3.95	22	2	2 + 2	

# **ADJUSTABLE GROOVING CUTTERS**





### **DESIGN:**

- Set of cutters with 4 teeth + 4 spurs, each adjustable by a set of spacers
- Tungsten carbide cutting edges

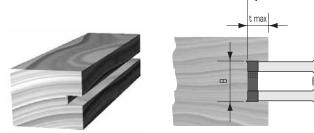
### APPLICATION:

- For chip-free grooving of plywood, chipboard and solid wood with and across the grain
- In uncoated and laminated panel materials with feed

ØD

ød

• On shapers, moulders and double-end tenoners



PART NO.	DIAM. ØD	KERF B	BORE ød	TEETH/SPURS	GROOVE DEPTH t max	RPM MINMAX.
1141MC	140mm	1.8 to 3.4mm	31.75mm	4T + 4S	15mm	5500-9500
	5-1/2"	5/64" to 9/64"	1-1/4"		19/32"	
1142MC	140mm	2.5 to 4.8mm	31.75mm	4T + 4S	15mm	5500-9500
	5-1/2"	3/32" to 3/16"	1-1/4"		19/32"	
1143MC	160mm	4.0 to 7.5mm	31.75mm	4T + 4S	35mm	5100-9000
	6-1/4"	5/32" to 19/64"	1-1/4"		1-3/8"	
1144MC	160mm	7.5 to 14mm	31.75mm	4T + 4S	35mm	5100-9000
	6-1/4"	19/64" to 9/16"	1-1/4"		1-3/8"	
1145MC	160mm	10 to 19mm	31.75mm	4T + 4S	40mm	4800-8300
	6-1/4"	13/32" to 3/4"	1-1/4"		1-9/16"	
1146MC	180mm	4.0 to 7.5mm	31.75mm	4T + 4S	50mm	4200-7400
	7-3/32"	5/32" to 19/64"	1-1/4"		2"	
1147MC	180mm	7.5 to 14mm	31.75mm	4T + 4S	50mm	4200-7400
	7-3/32"	19/64" to 9/16"	1-1/4"		2"	
1148MC	180mm	10 to 19mm	31.75mm	4T + 4S	50mm	4200-7400
	7-3/32"	13/32" to 3/4"	1-1/4"		2"	

Bore can be opened or bushed to spindle size of your machine. Maximum Bore size 50mm (2")

# **ADJUSTABLE GROOVING CUTTERS**



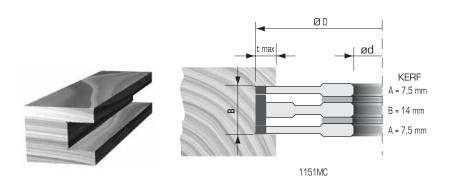


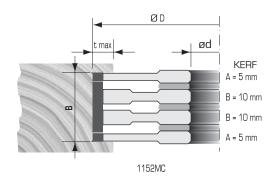
### **DESIGN:**

- Set of 3 or 4 interlocked cutters adjustable by spacers and shims. Outside cutters each with 2 raker teeth and 2 spurs on outside at negative rake. Middle cutters with 4 raker teeth. Chip limiter for manual feed. Cuts grooves sharp and clean, no tear-outs
- Tungsten carbide cutting edges

### **APPLICATION:**

- For chip-free grooving of plywood, chipboard and solid wood with and against the grain
- In uncoated and laminated panel materials with feed
- On shapers, moulders and double-end tenoners





PART NO.	DIAM. ØD	KERF B	BORE ød	TEETH/SPURS	GROOVE DEPTH t max	RPM MINMAX.
1151MC	150mm	7.5 to 28mm	31.75mm	4T + 4T + 4S	30mm	5100-8900
	6"	19/64" to 1-7/64"	1-1/4"		1-3/16"	
1152MC	220mm	5 to 30mm	31.75mm	4T + 4T + 4S	40mm	3500-6000
	8-5/8"	3/16" to 1-3/16"	1-1/4"		1-9/16"	

Bore can be opened or bushed to spindle size of your machine. Maximum Bore size 50mm (2")

# **TONGUE AND GROOVE SHAPER CUTTERS**





### **DESIGN:**

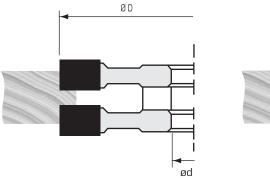
- Set of 3 cutters (1 groover + 2 cutters).
   Each with 3 teeth, and spacers to obtain profiles
- Tungsten carbide cutting edges

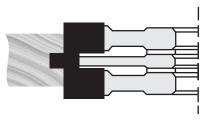
### APPLICATION:

- For producing tongue and groove shapes on plywood and solid wood
- On shapers

PART	DIAM.	WOOD	BORE	NO.
NO.	ØD	THICKNESS	ød	TEETH
139IC	4"	3/4" to 1-1/8"	1-1/4"	3+3+3

Bore can be opened or bushed to spindle size of your machine.





# REVERSIBLE MITRE JOINT CUTTER





### **DESIGN:**

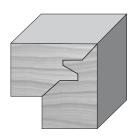
- With 3 teeth, straight
- Tungsten carbide cutting edges

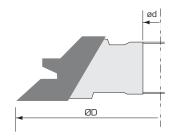
### APPLICATION:

- For cutting mitre lock joints in solid wood and panel materials
- On shapers

PART	DIAM.	WOOD	BORE	NO.
NO.	ØD	THICKNESS	ød	TEETH
135IC	4-3/4"	3/8" to 3/4"	1-1/4"	3

Bore can be opened or bushed to spindle size of your machine.

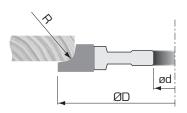




# **QUARTER ROUND CUTTERS**







### **DESIGN:**

- With 3 teeth sheer cut for optimum quality of cut
- Tungsten carbide cutting edges

### **APPLICATION:**

- To cut quarter round shapes in solid wood and panel materials
- On shapers

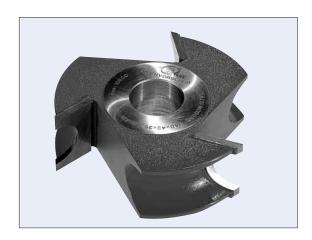
PART NO.	DIAM. ØD	RADIUS R	BORE ød	NO. TEETH
1491IC	4"	1/4"	1-1/4"	3
1492IC	4"	3/8"	1-1/4"	3
1493IC	4"	1/2"	1-1/4"	3
1494IC	4-3/4"	3/4"	1-1/4"	3

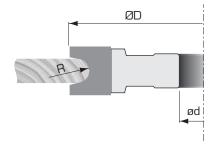
Bore can be opened or bushed to spindle size of your machine.

### SPECIAL PRODUCTION:

• For all other sizes see Cutters Special Profiles "PA" on page B2

# 150 HALF ROUND CUTTERS





### **DESIGN:**

- With 3 straight teeth
- Tungsten carbide cutting edges

### **APPLICATION:**

- To cut half round shapes in solid wood and panel materials
- On shapers

PART NO.	DIAM. ØD	RADIUS R	OPENING	BORE ød	NO. TEETH
1501IC	4"	1/8"	1/4"	1-1/4"	3
1502IC	4"	1/4"	1/2"	1-1/4"	3
1503IC	4-1/2"	3/8"	3/4"	1-1/4"	3
1504IC	4-1/2"	1/2"	1"	1-1/4"	3

Bore can be opened or bushed to spindle size of your machine.

### SPECIAL PRODUCTION:

• For all other sizes see Cutters Special Profiles "PB" on page B2

# **CONVEX RADIUS CUTTERS**





### **DESIGN:**

- With 4 teeth, straight
- Tungsten carbide cutting edges

### APPLICATION:

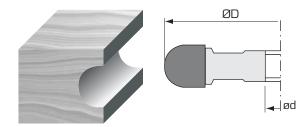
- For cutting coves in solid wood and panel materials
- On shapers

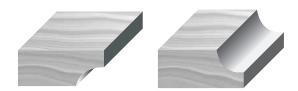
PART NO.	DIAM. ØD	RADIUS	KERF B	BORE ød	NO. TEETH
1516IC	4"	3/8"	3/4"	1-1/4"	4
1518IC	4"	1/2"	1"	1-1/4"	4

Bore can be opened or bushed to spindle size of your machine.

### SPECIAL PRODUCTION:

• For all other sizes see Cutters Special Profiles "PA" on page B2





### 154

# 1/4" AND 1/2" QUARTER ROUND CUTTER



# R=1/4" R=1/2" ød

### **DESIGN:**

- With 3 teeth, straight
- Tungsten carbide cutting edges

### **APPLICATION:**

- To make 1/4" or 1/2" quarter round shapes in solid wood and panel materials
- On shapers

PART	DIAM.	KERF	BORE	NO.
NO.	ØD	B	ød	TEETH
154IC	4"	1"	1-1/4"	

Bore can be opened or bushed to spindle size of your machine.

### SPECIAL PRODUCTION:

 $\bullet$  For all other sizes see Cutters Special Profiles "PB" on page B2

# STILE AND RAIL CUTTER SETS





### **DESIGN:**

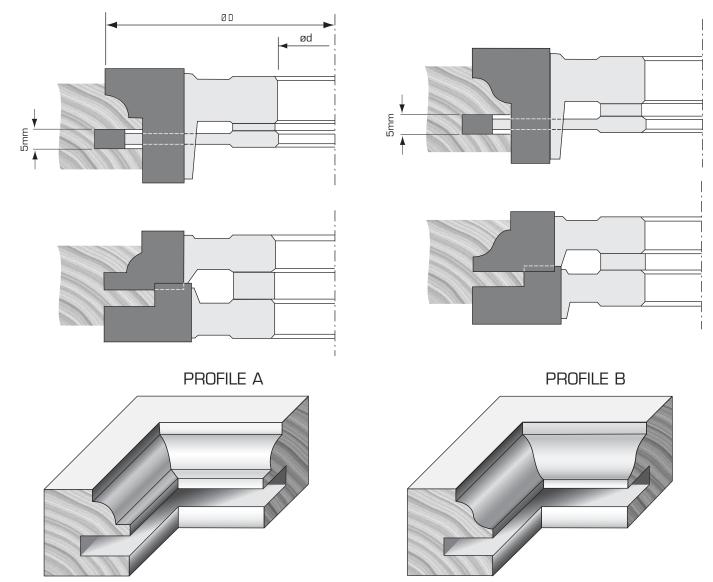
- Set of 4 cutters and spacers
- With 3 teeth
- Tungsten carbide cutting edges

### APPLICATION:

- To cut stile and rail for producing solid wood cabinet doors.
- On shapers

PART	DIAM.	WOOD	BORE	NO.	PROFILE
NO.	ØD	THICKNESS	ød	TEETH	
177AI	4"	3/4" TO 1	1-1/4"	3+3	А
177BI	4"	3/4" TO 1	1-1/4"	3+3	В

Bore can be opened or bushed to spindle size of your machine.



# **HORIZONTAL PANEL RAISING CUTTERS**





### **DESIGN:**

- With 3 teeth and shear angle for optimum quality of cut
- Tungsten carbide cutting edges

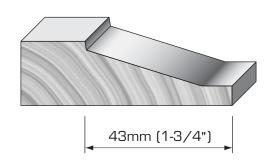
### APPLICATION:

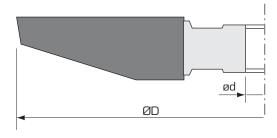
- For raised panel cutting in solid wood and MDF panels
- On shapers

PART NO.	PROFILE NO.	DIAM. ØD	KERF B	BORE ød	NO. TEETH
1681IC	Profile No. 1	6"	5/8"	1-1/4"	3
1682IC	Profile No. 2	6"	5/8"	1-1/4"	3
1693IC	Profile No. 3	5-3/4"	5/8"	1-1/4"	3
1694IC	Profile No. 4	5-3/4"	5/8"	1-1/4"	3
1695IC	Profile No. 5	5-3/4"	5/8"	1-1/4"	3
1696IC	Profile No. 6	5-3/4"	5/8"	1-1/4"	3

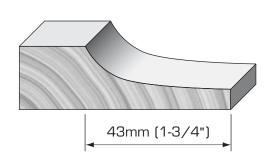
Bore can be opened or bushed to spindle size of your machine.

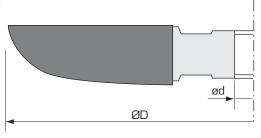
# PROFILE No. 1





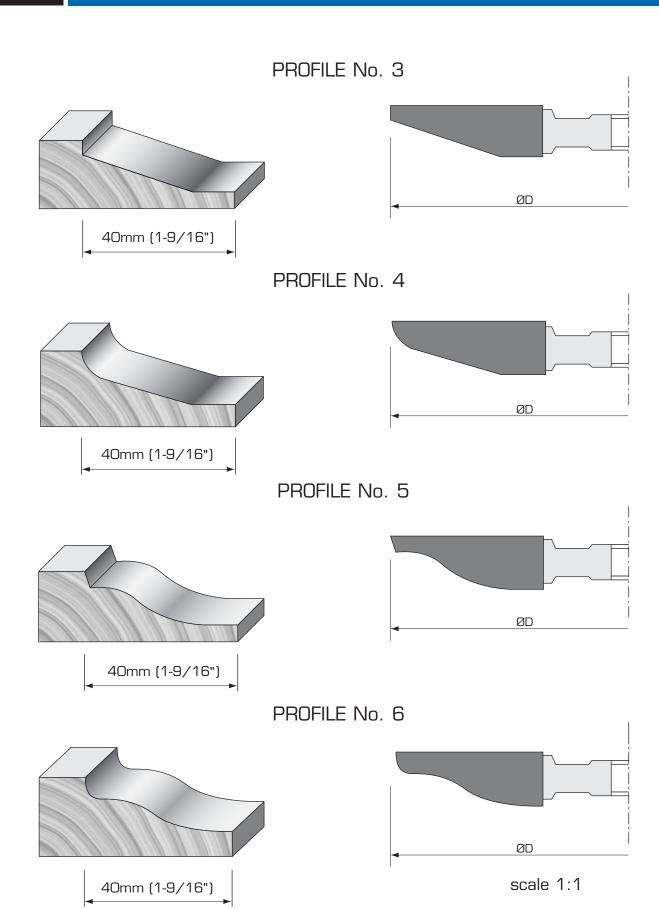
# PROFILE No. 2





scale 1:1





# **ENTRY AND PASSAGE DOOR CUTTER SET**



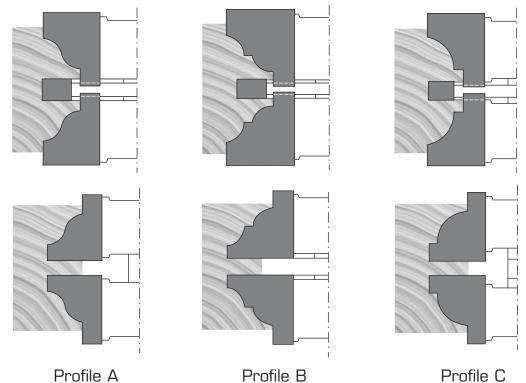


### **DESIGN:**

- Set of 5 cutters with 3 teeth interlocked and set of spacers
- Tungsten carbide cutting edges

### APPLICATION:

- To cut stile and rail in solid wood for producing entry and passage doors
- On shapers



PART NO.	DIAM. ØD	WOOD THICKNESS	BORE ød	NO. TEETH	PROFILE	RPM MINMAX.
178AI	4"	1-3/8" (1/4" Tenon)	1-1/4"	3	А	7500-12500
178BI	4"	1-3/8" (1/4" Tenon)	1-1/4"	3	В	7500-12500
178CI	4"	1-3/8" (1/4" Tenon)	1-1/4"	3	С	7500-12500

PART NO.	DIAM. ØD	WOOD THICKNESS	BORE ød	NO. TEETH	PROFILE	RPM MINMAX.
179AI	4"	1-3/4" (3/8" Tenon)	1-1/4"	3	А	7500-12500
179BI	4"	1-3/4" (3/8" Tenon)	1-1/4"	3	В	7500-12500
179CI	4"	1-3/4" (3/8" Tenon)	1-1/4"	3	С	7500–12500

# **CUT-ALL CUTTER SET**





### **DESIGN:**

- Each set consists of 4 cutters with 3 teeth and 3 spacers engraved with no.'s 1,2,3
- Tungsten carbide cutting edges

### APPLICATION:

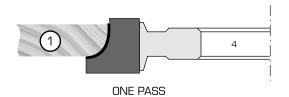
- To cut all standard moulding profiles, 4 different interlocking joints and anything else you can think of
- On shapers

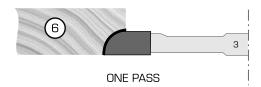
	PART NO.	DIAM. ØD	BORE ød	NO. TEETH
Small Set	1821IC	4-1/8"	3/4"	3
Large Set	1822IC	5-1/2"	1-1/4"	3

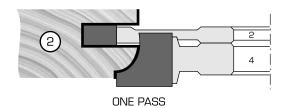
Bore can be opened or bushed to spindle size of your machine.

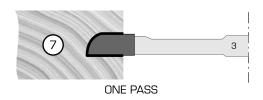
I	
	Spacer No. 5
	Spacer No. 6
	Spacer No. 7
ød	
■ ØD	

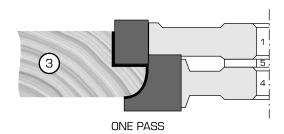


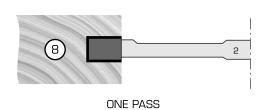


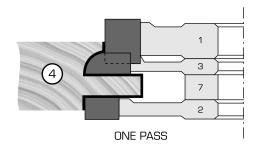


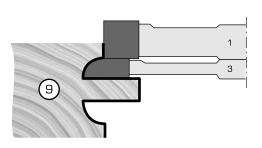


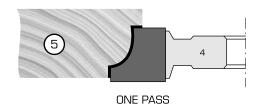




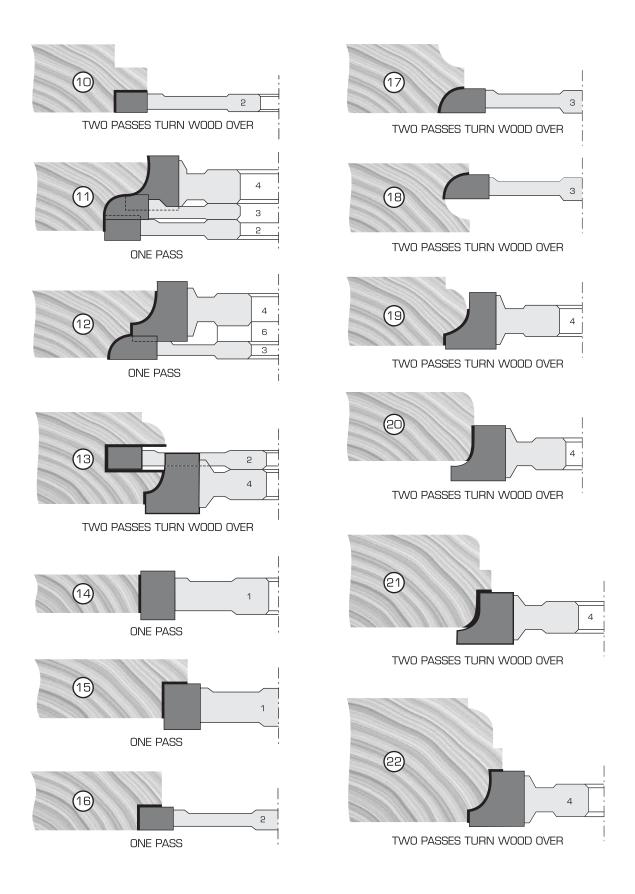




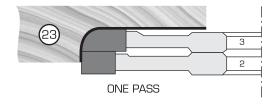


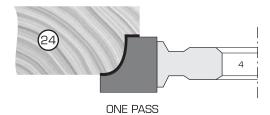


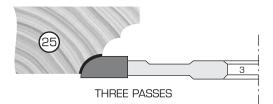


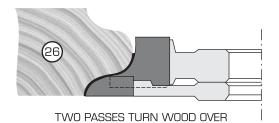


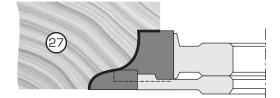




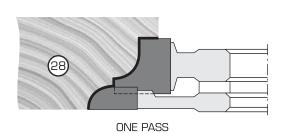


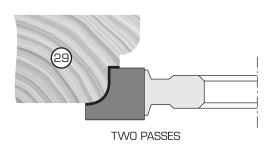


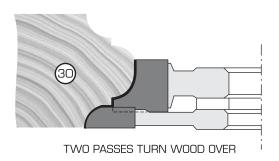


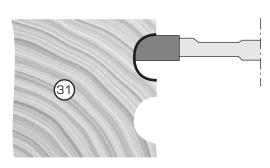


ONE PASS

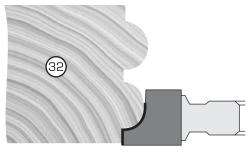








FOUR PASSES TURN WOOD OVER



FOUR PASSES TURN WOOD OVER

