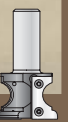
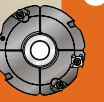
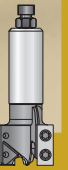


# CNC Multi Profile Router Bits for Cabinet Doors

With various combinations of 3 styles of knife holders and custom made profile knives, any type of cabinet form doors can be produced. These tools are mostly recommended for producing cabinet doors made from natural wood or MDF.

The desired profile by the customer is studied and then, it's divided to the partial profiles in the most efficient way. One pair of knives is made for each partial profile. In order to get the complete profile, each pass of each tool will make a part of the profile.

If the profile is more complicated, it may take more tools and more passes in order to complete the profile. Each complete application can have several profiles, which are assembled in line with the replaceable knife holders. At the end of the milling process, the doors are ready to be coated with PVC, Veneer or painted.

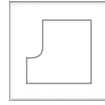




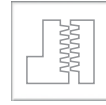
# CNC



Grooving & Sizing



Profiling & Chamfering



Jointing & Rebating



Frame & Panel door



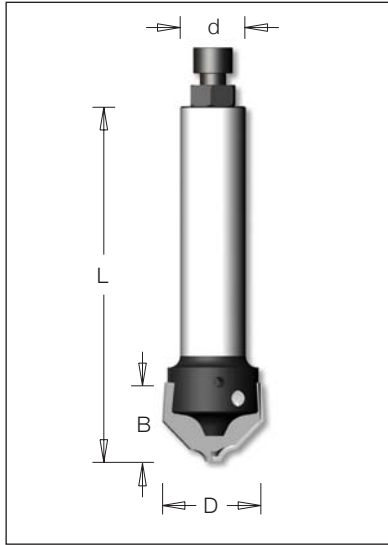
Carving



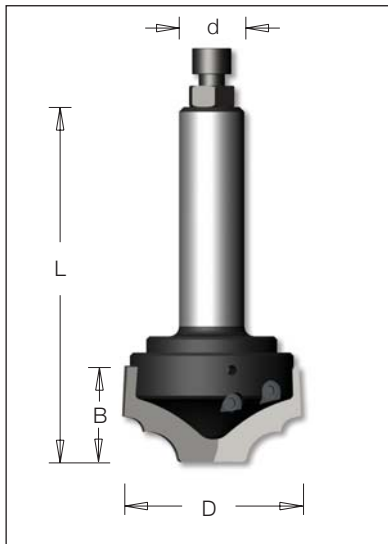
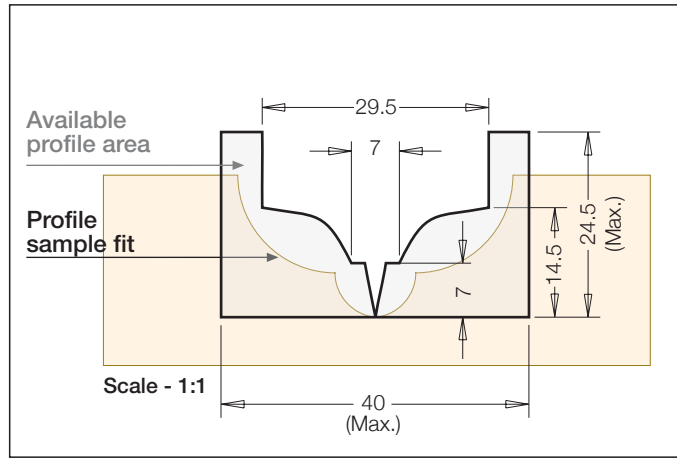
Clamping Systems & Adapters

## 3 Styles of Replaceable Knife Holders.

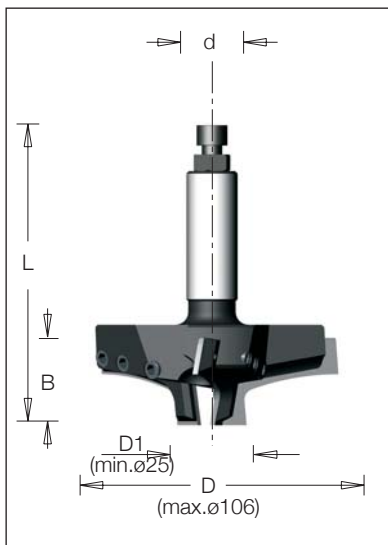
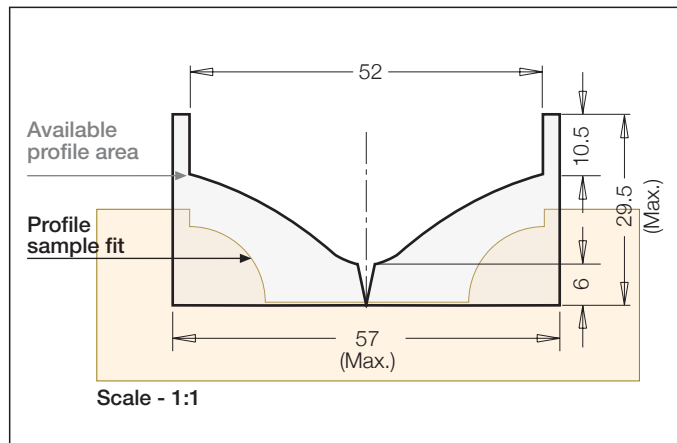
With the following grinding envelope, it can be determined, which part of the profile can be made by what tool. Tool diameter, profile symmetry and the overlap should also be taken into consideration of how to divide the profile.



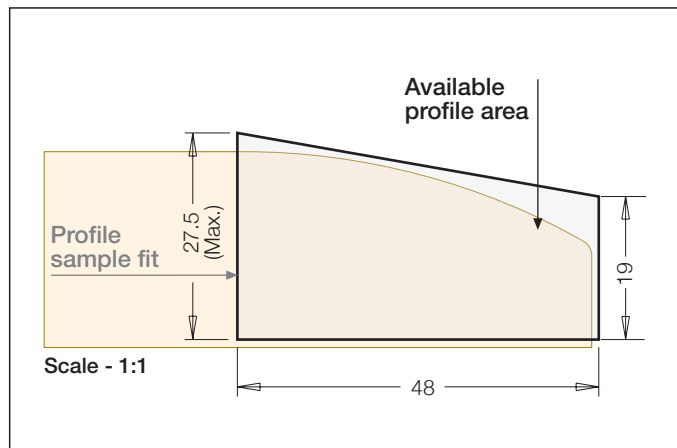
Code No.	D	B	L	d
808 011 0	40	24.5	109	20



Code No.	D	B	L	d
808 035 0	57	29.5	109	20



Code No.	D	D1	B	L	d
817 1x3 0	106	25	27.5	99.5	20

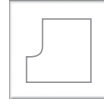




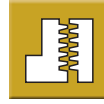
# CNC



Grooving & Sizing



Profiling & Chamfering



Jointing & Rebating



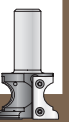
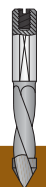
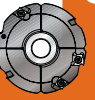
Frame & Panel door



Carving



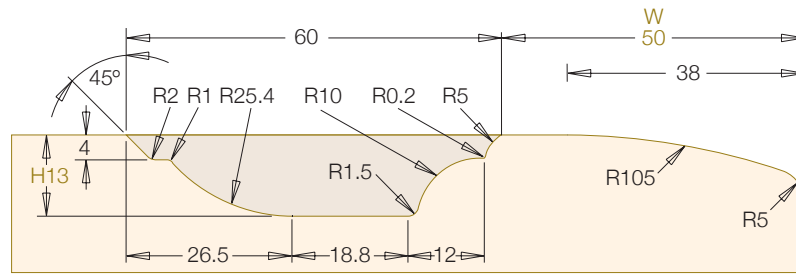
Clamping Systems & Adapters



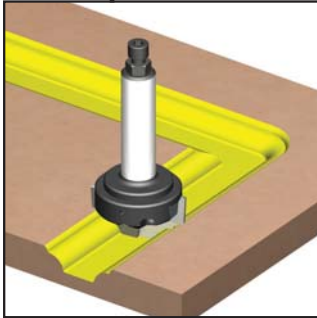
## VIOLA Door

W = width of the frame.  
H = maximum depth of the frame.

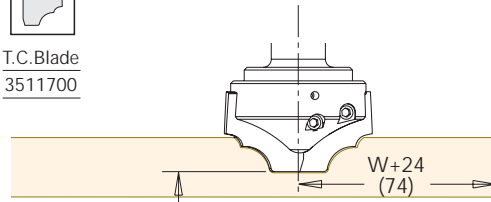
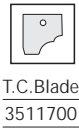
In the example:  
W = 50 and H = 13  
Any change in the dimensions of the frame width and depth should be done according to the formula that is written on each tool drawing.



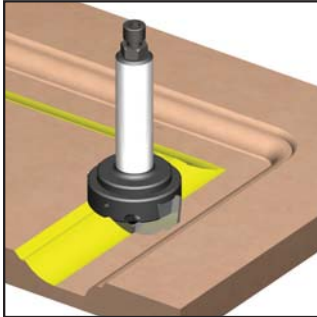
### 1 First pass



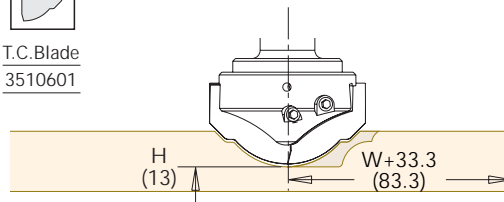
Code No.	D	B	L	d
808 031 0	56	25	109	20



### 2 Second pass

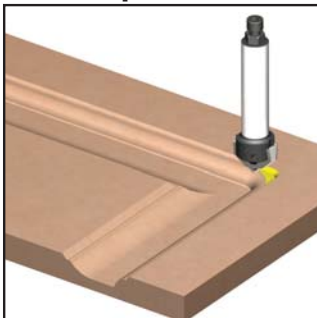


Code No.	D	B	L	d
808 032 0	56	25	109	20

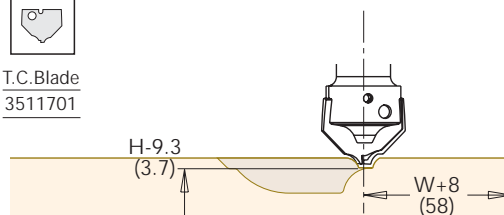
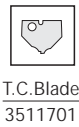


VIOLA Door

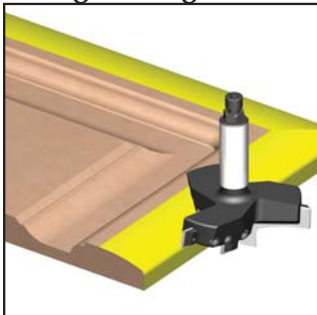
### 3 Third pass



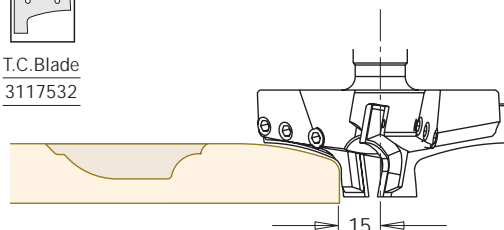
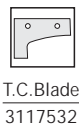
Code No.	D	B	L	d
808 063 0	32	24	109	20



### 4 Edge Sizing & Profiling pass



Code No.	D	B	L	d
817 123 0	106	20	99.5	20

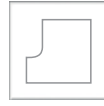




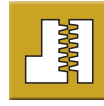
# CNC



Grooving & Sizing



Profiling & Chamfering



Jointing & Rebating



Frame & Panel door



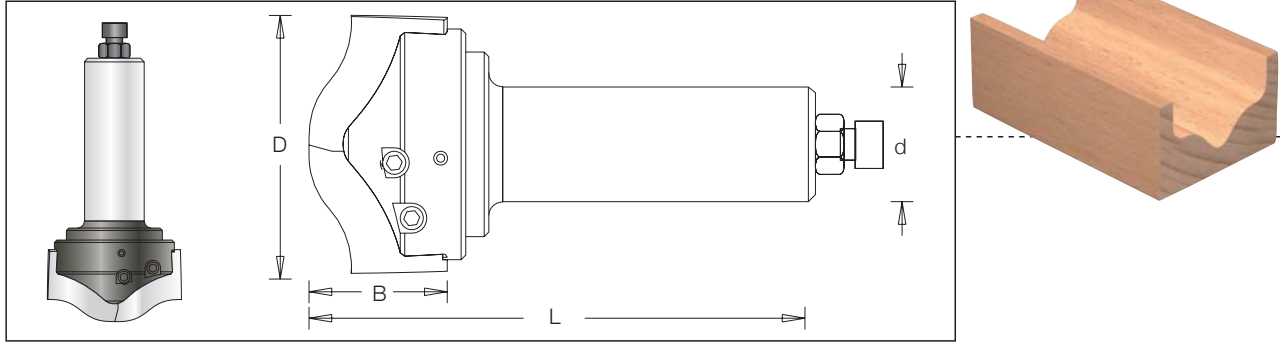
Carving



Clamping Systems & Adapters

## Multi-Face Profile Router Cutter

Disposable insert profile router cutter with two tungsten carbide cutting flutes. Suitable for profiling in softwoods, hardwoods and man-made boards. Tool will be supplied with standard inserts or special inserts ground to the customer's own specification. For use on routers and machining centres with CNC control.



øD	Code No.	B	Profile	L	ød	n
56	808 035 H	29.5	Customer design	109	25	14,000
56	808 031 0	25.0	1	109	20	14,000
56	808 032 0	25.0	2	109	20	14,000

### Spare Parts:



T.C. Blade  
351 170 0  
29x30x2.5



Allen screw  
#193 049 5  
M6x10



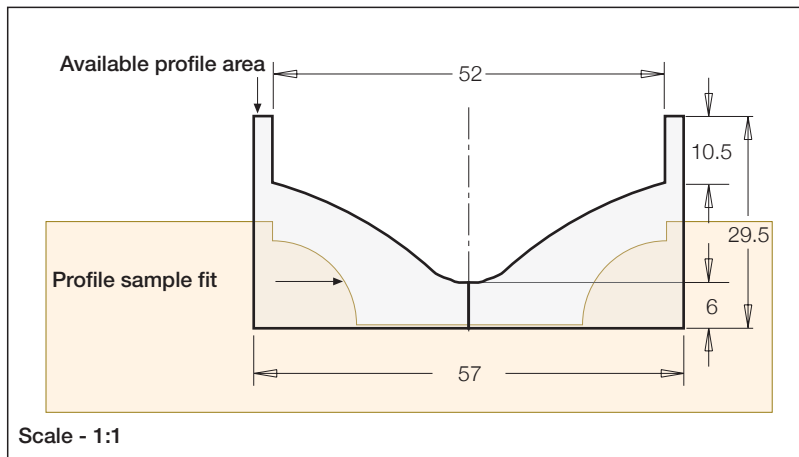
Allen key  
#194 003 5  
S3

### Profile 1

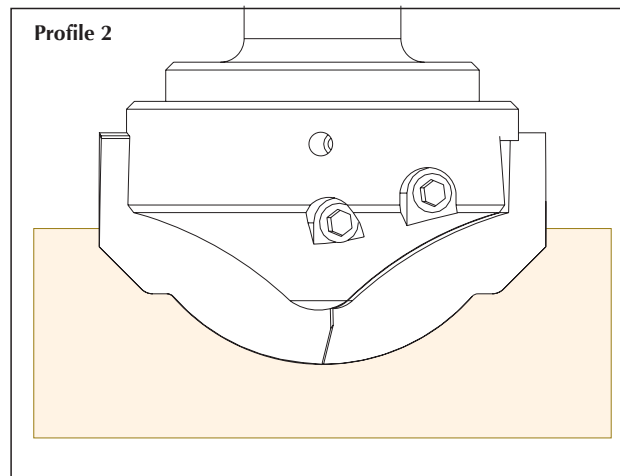
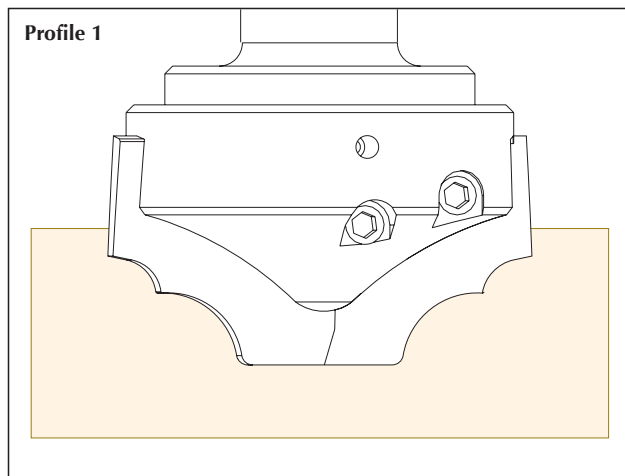


T.C. Blade  
351 060 1  
29.5x30x2.5

### Profile 2



Scale - 1:1



Index

Sawing

CNC

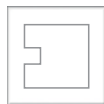
Cutting

Drilling

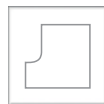
Routing

Custom Tooling

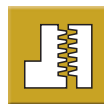
# CNC



Grooving & Sizing



Profiling & Chamfering



Jointing & Rebating



Frame & Panel door



Carving



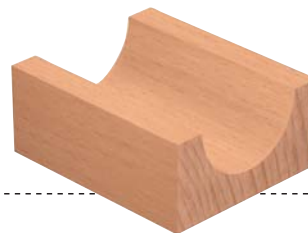
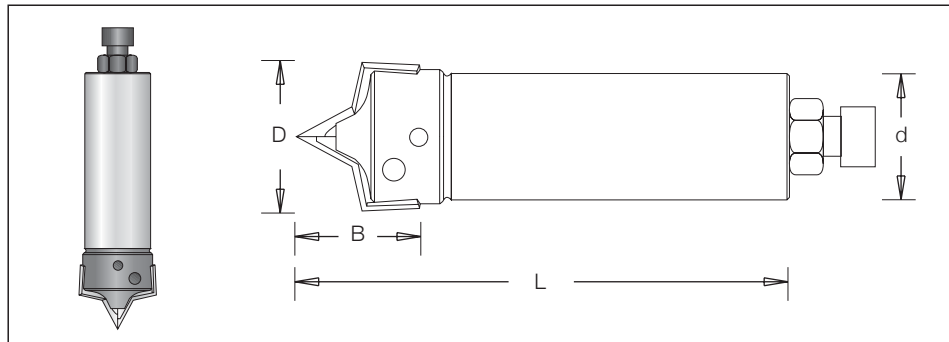
Clamping Systems & Adapters



Index

## Multi-Face Profile Router Cutter

Disposable insert profile router cutter with two tungsten carbide cutting flutes. Suitable for profiling in softwoods, hardwoods and man-made boards. Tool will be supplied with standard inserts or special inserts ground to the customer's own specification. For use on routers and machining centres with CNC control.



$\varnothing D$	a	R	Code No.	Profile	$\varnothing d$	L	n	
29.5			808 011 0	Customer design	20	82.5	28,000	
	45		808 051 0	B51	20	82.5	28,000	
	30		808 052 0	B52	20	82.5	28,000	
		6.3		808 053 0	B53	20	82.5	28,000
		12.5		808 054 0	B54	20	82.5	28,000
		4.0		808 055 0	B55	20	82.5	28,000

**⚠** The router will be supplied with standard profiles or with knives grinded according to customer specification that fit into the marked area.

### Spare Parts:



**B51** T.C. Blade  
351 051 0  
31x25x2



Wedge  
199 050 0  
L=28



Allen Screw  
#193 049 0  
M5x10



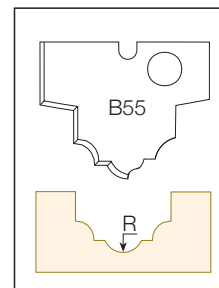
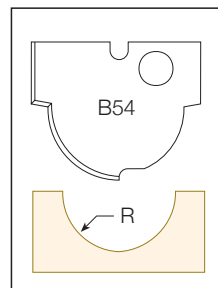
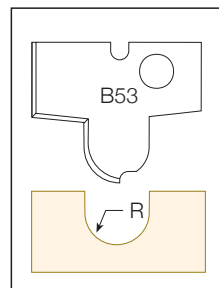
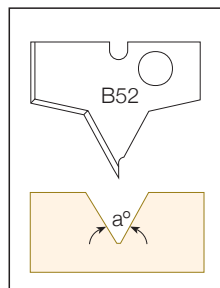
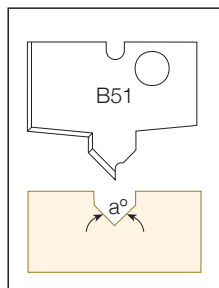
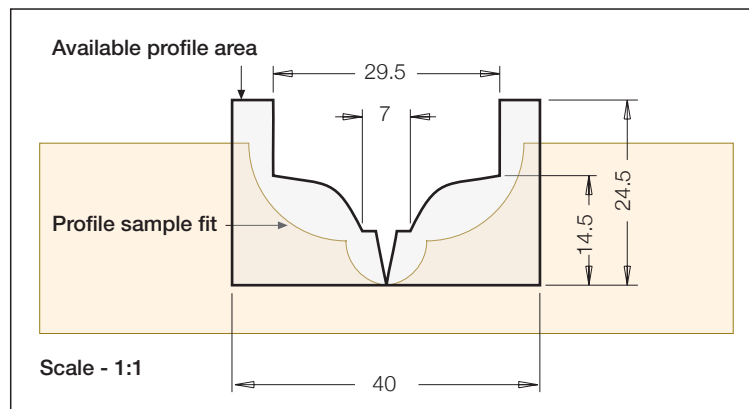
Allen key  
#194 008 0  
S2.5

**B52** T.C. Blade  
351 050 5  
31x25x2

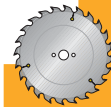
**B53** T.C. Blade  
351 060 5  
31x24x2

**B54** T.C. Blade  
351 061 0  
31x24x2

**B55** T.C. Blade  
351 310 5  
31x24x2



Sawing



CNC



Cutting



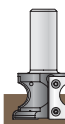
Drilling



Routing



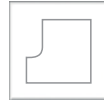
Custom Tooling



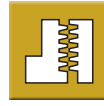
# CNC



Grooving & Sizing



Profiling & Chamfering



Jointing & Rebating



Frame & Panel door



Carving

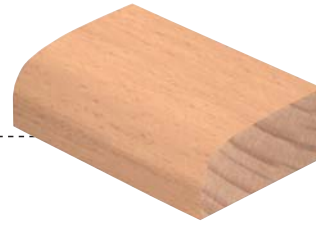
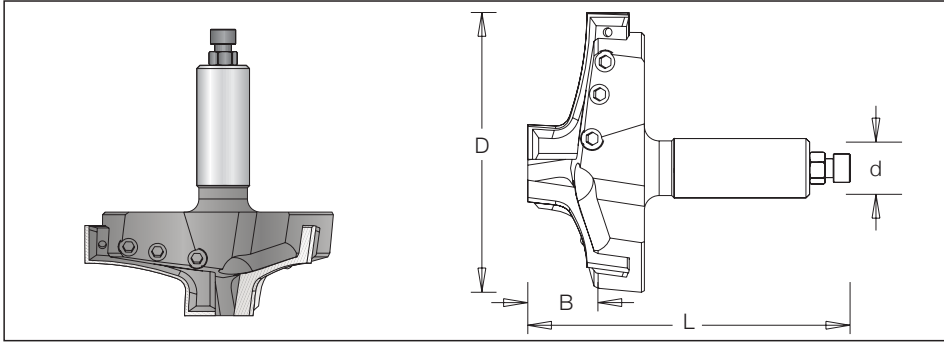


Clamping Systems & Adapters



## Multi frame profile router cutter

Disposable insert profile router with three disposable Tungsten Carbide knives and back plates Assembled in 10° Shear angle  $\bar{n}$  for best cutting results, suitable for profiling softwood, hardwood and manmade boards. For use on machining center with CNC control.



$\varnothing D$	Code No.	B	Profile No.	L	$\varnothing d$	$\bar{n}$
95	817 143 0	20	1	99.5	20	10,000
122	817 133 0	25	2	104	20	10,000
106	817 123 0	20	3	99.5	20	10,000
120	817 113 0	20	4	99.5	20	10,000

### Spare parts:



T.C. Blade



Wedge

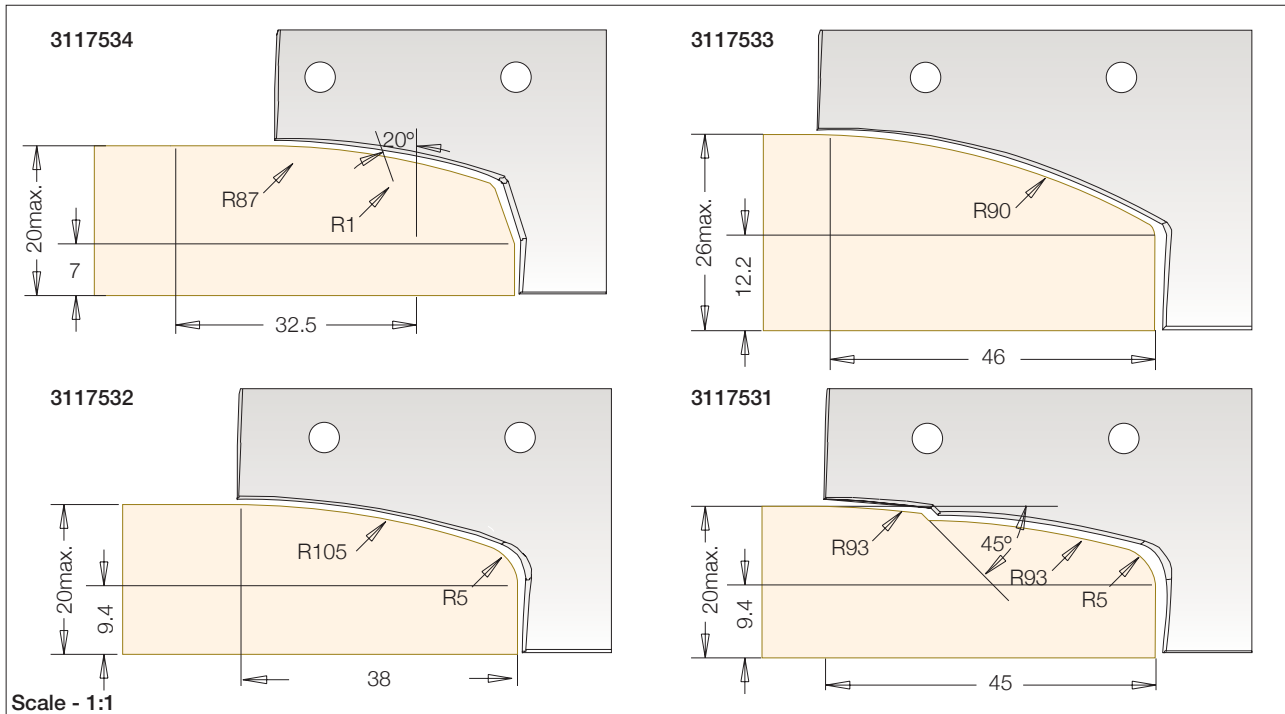
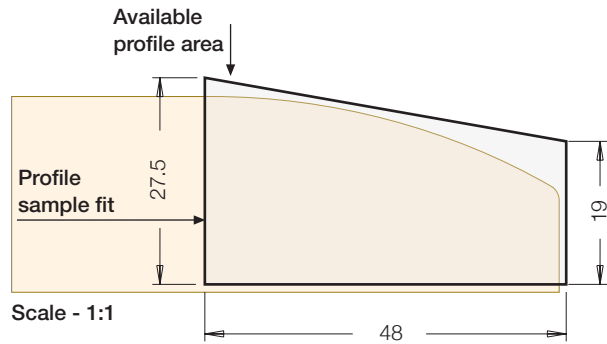


Allen screw



Allen key

Profile	#311 753 4	199 153 4	#193 026 6	#194 003 6
Profile 1	44x35x2.0	42.5x33x4	M8x12	S4
Profile 2	#311 753 3	199 153 3		
	57.6x40x2.0	56x38x4		
Profile 3	#311 753 2	199 153 2		
	49.6x35x2.0	48x33x4		
Profile 4	#311 753 1	199 153 1		
	56.7x35x2.0	55x33.5x4		



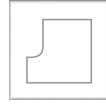
Scale - 1:1



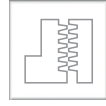
# CNC



Grooving & Sizing



Profiling & Chamfering



Jointing & Rebating



Frame & Panel door

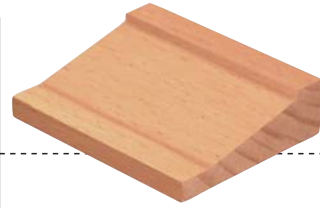
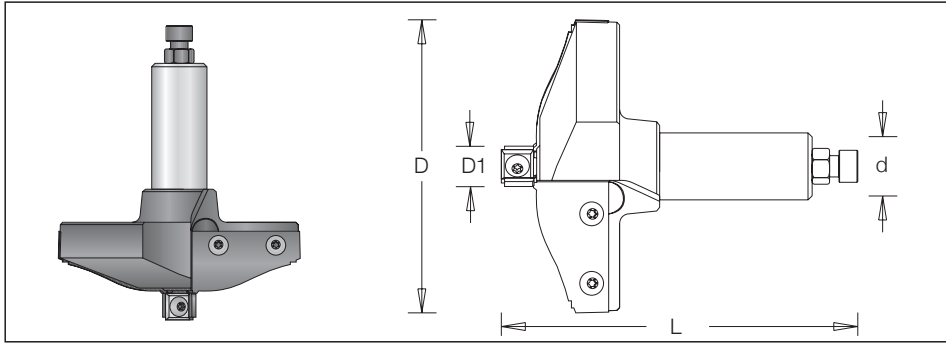


Carving



Clamping Systems & Adapters

## Multi Profile Raised Panel Router Cutter



øD	Code No. Without trimmer	Profile No.	L	ød	n
112	822 031 H	1	110	25	8,000
	822 032 H	2	110	25	8,000
	822 033 H	3	110	25	8,000
	822 034 H	4	110	25	8,000
	822 035 H	5	110	25	8,000
	822 036 H	6	110	25	8,000
	822 037 H	7	110	25	8,000
	822 038 H	8	110	25	8,000

⚠ Available with or without trimmer bit "807 301 3"  
Also available with 20mm diameter shank.

### Spare parts:



T.C. Blade



Torx screw



Allen screw



Allen key



Torx key

**Profile 1** #352 220 1 / 50x30.5x2    #193 148 1 / M4x5.6    #193 039 5 / M4x5    #194 020 0 / S2    194 101 5 / T - 15

**Profile 2** #352 220 2 / 50x30.5x2

**Profile 3** #352 220 3 / 50x30.5x2

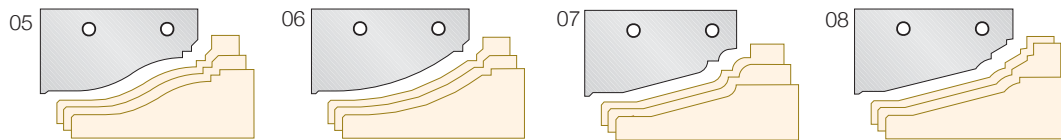
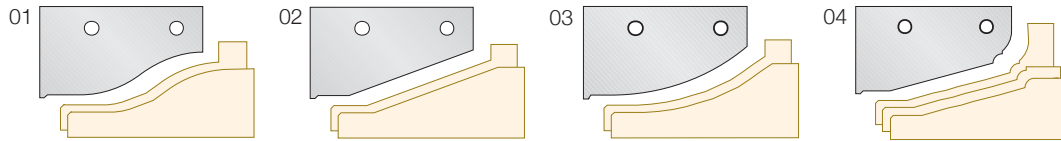
**Profile 4** #352 220 4 / 50x30.5x2

**Profile 5** #352 220 5 / 50x30.5x2

**Profile 6** #352 220 6 / 50x30.5x2

**Profile 7** #352 220 7 / 50x30.5x2

**Profile 8** #352 220 8 / 50x30.5x2



## Trimmer Bit

øD1	Code No	B	L	ød
18	807 301 3	12	31.8	6

### Spare Parts:



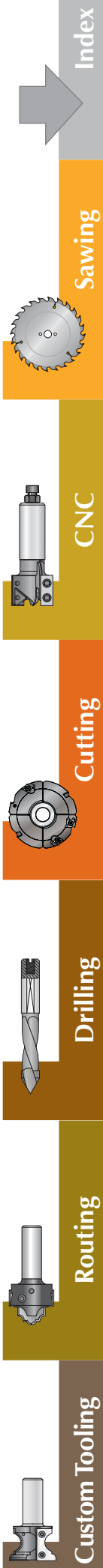
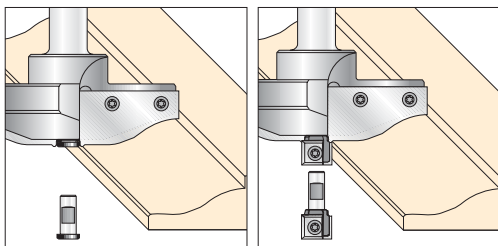
T.C. Blade  
310 121 2 / 12x12x1.5



Torx screw  
193 148 2 / M4x5.6



Torx key  
194 101 5 / T15





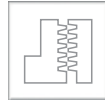
# CNC



Grooving & Sizing



Profiling & Chamfering



Jointing & Rebating



Frame & Panel door



Carving

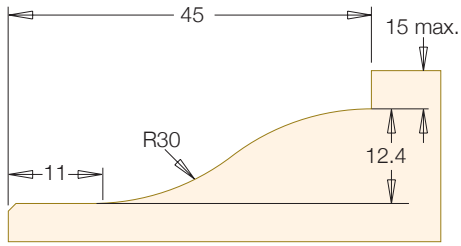


Clamping Systems & Adapters

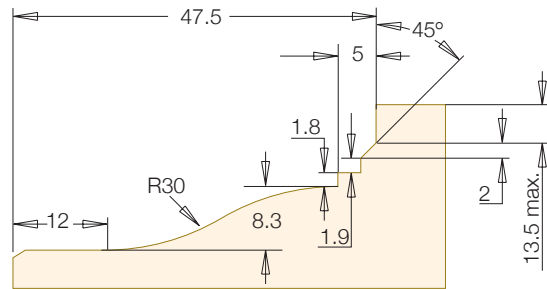
Index

## Profile for Raised Panel Router Cutter - Page 2.42

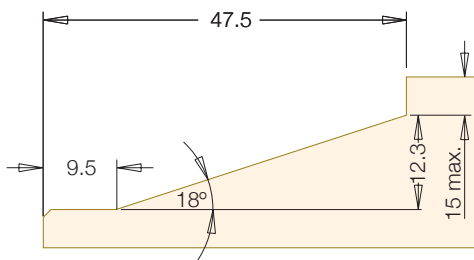
Profile 1



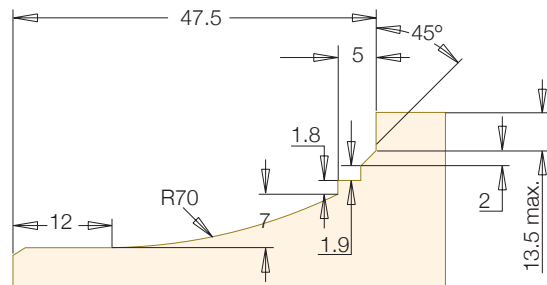
Profile 5



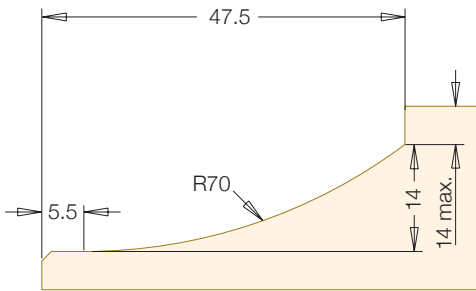
Profile 2



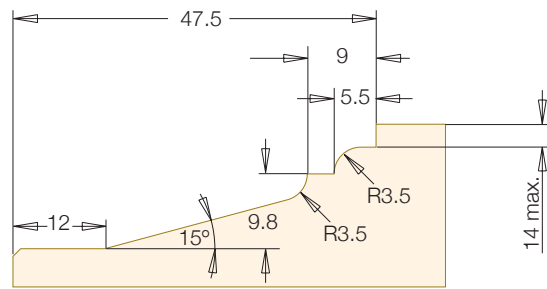
Profile 6



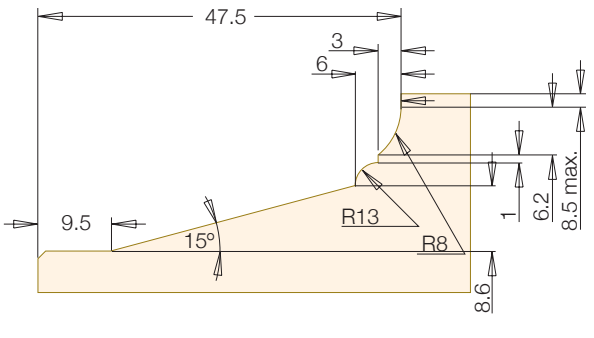
Profile 3



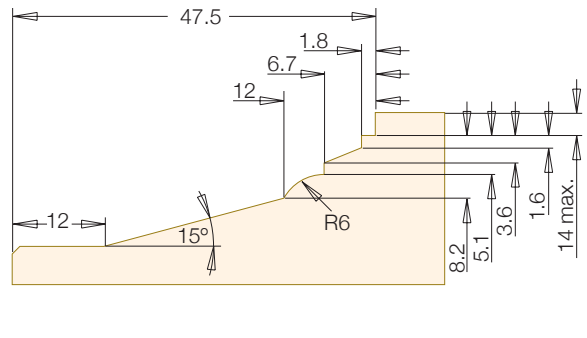
Profile 7



Profile 4



Profile 8



Scale - 1:1

Sawing



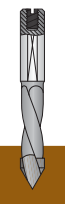
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Cutting



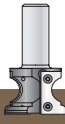
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Routing



Custom Tooling







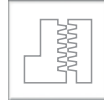
# CNC



Grooving & Sizing



Profiling & Chamfering



Jointing & Rebating



Frame & Panel door



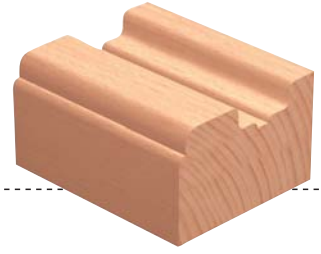
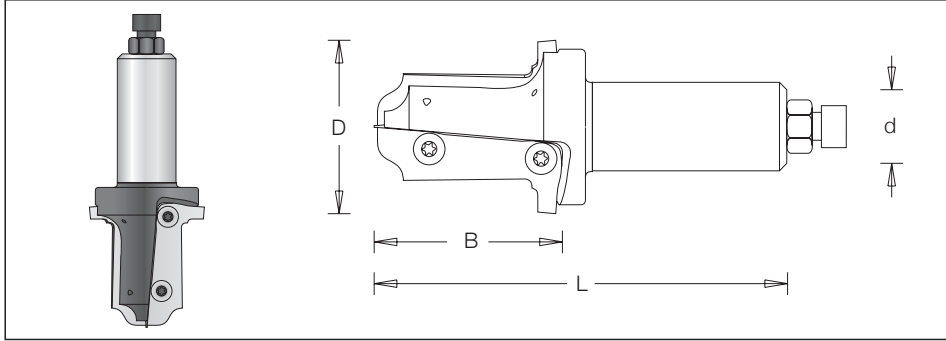
Carving



Clamping Systems & Adapters

## Multi Purpose Profile Router Cutter

Disposable insert straight router cutter with two cutting flutes. Suitable for profiling and sizing in softwoods, hardwoods and man made board (with or without coating). Tool will be supplied with standard inserts (profile 1 or 2), or can be supplied with special inserts, ground to the customer's own specification. For use on routers and machining centres with CNC control.



øD	B	Code No.	Profile	L	ød	n
50	50	853 001 H	Special	120	25x55	18,000
	50	853 011 H	1	120	25x55	18,000
	50	853 012 H	2	120	25x55	18,000

⚠ Also available with 20 mm diameter shank.

### Spare parts:



T.C. Blade



Torx screw

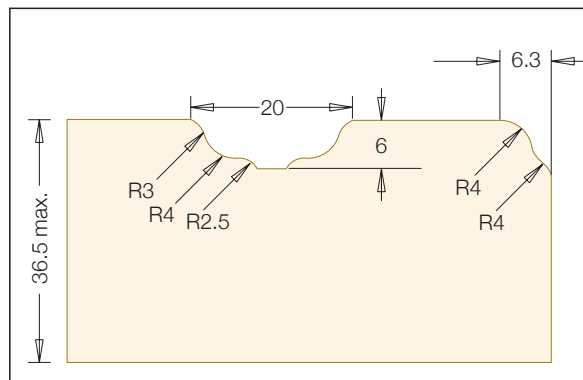
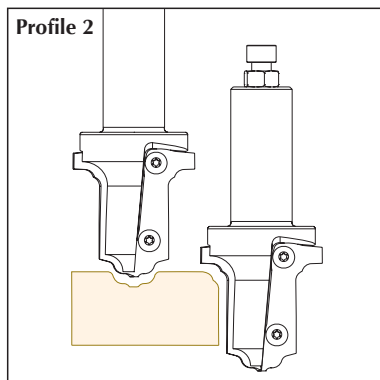
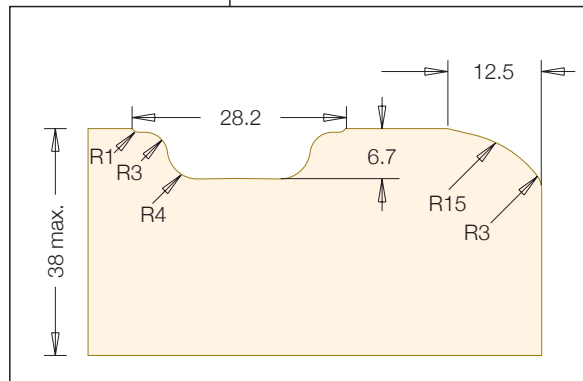
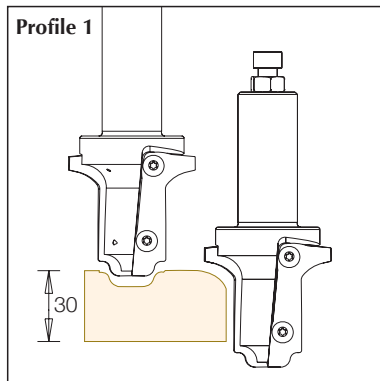
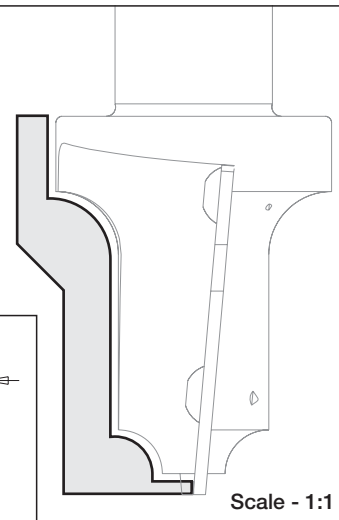


Torx key

**Profile 1** #315 300 1 / 54x20x2 #193 395 0 / M4x6 #194 101 5 / T-15

**Profile 2** #315 300 2 / 54x20x2

The router bit will be supplied with standard profiles or with knives grinded according to customer specification that fit into the marked area.



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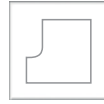
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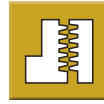
# CNC



Grooving & Sizing



Profiling & Chamfering



**Jointing & Rebating**



Frame & Panel door



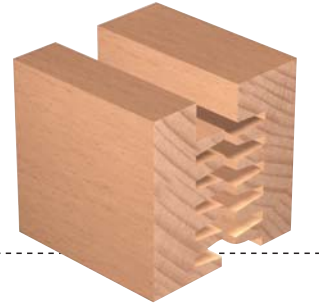
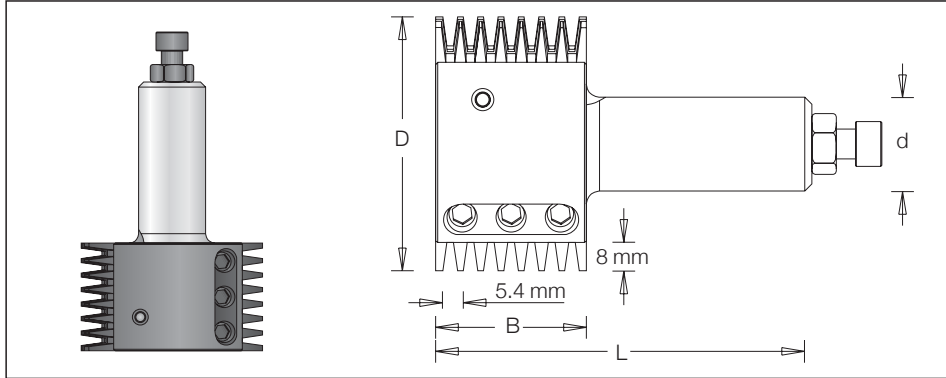
Carving



Clamping Systems & Adapters

## Finger Joint Router Cutter

Disposable insert finger jointing router cutter complete with two cutting flutes. Suitable for producing finger joints in softwoods, hardwoods and man-made boards. For use on routers and machining centres with CNC control.



$\varnothing D$	Code No.	B	L	$\varnothing d$	n
70	856 011 0	40	100	25	12,000

⚠ Also available with 20 mm diameter shank.

### Spare Parts:



T.C. Blade  
315 650 2  
40x28x1.5



Supporting plate  
199 110 1  
40x22.5x4



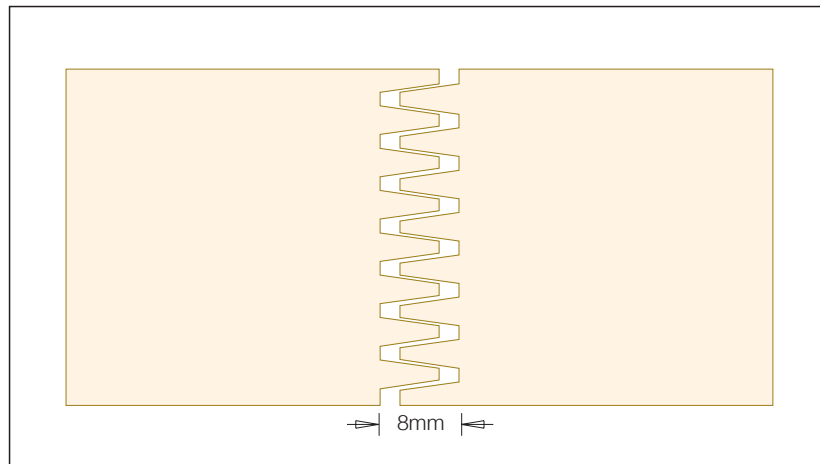
Allen screw  
193 040 0  
M8x10



Wedge  
199 022 0  
40x13.5x8



Allen key  
194 015 0  
S-4



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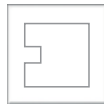
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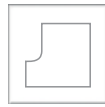
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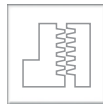
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Frame & Panel door



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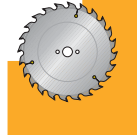


Clamping Systems & Adapters

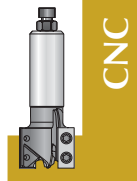


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Sawing



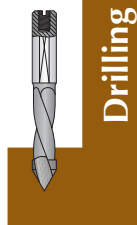
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Routing

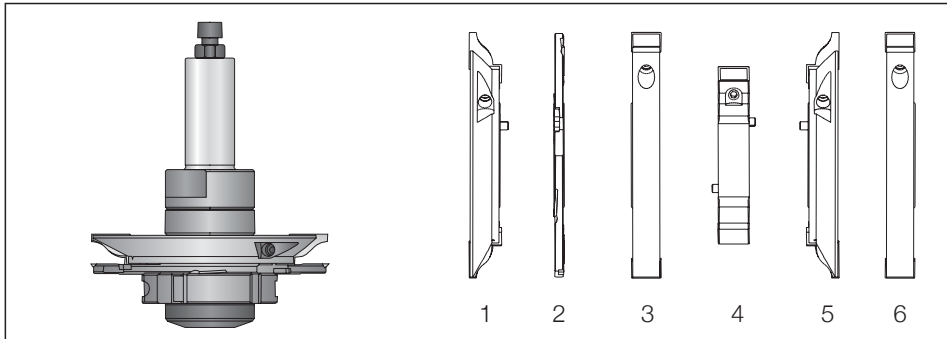
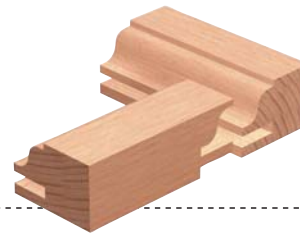


Custom Tooling



## Counter - Profile Cutters Set

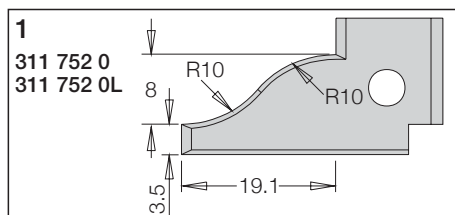
Disposable insert router cutter set complete with a maximum of six different cutters. Suitable for producing various thickness profile / counter profile joints in softwood, hardwood and man-made boards by using combinations of the supplied cutters. For use on routers and machining centres with CNC control. Max wood thickness 34 mm. Set No. 3 was made in order to let the user work with both required assemblies at the same time without turning over the wood piece



Set.No.	øD	Code No.	Cutters	B	Wood Sample Type	L	d	n
Set 1	120	842 031 H	1,2,3,4	20-35	1, 2	135	25	12,000
Set 2	120	842 036 H	1,2,3,4,5	20-35	1, 2, 3	125	25	12,000
set 3	120	842 061 H	1,2,3,2*4,5,6	20-35	1,3,4	125	25	12,000

⚠ Also available with HSK or ISO adapters.

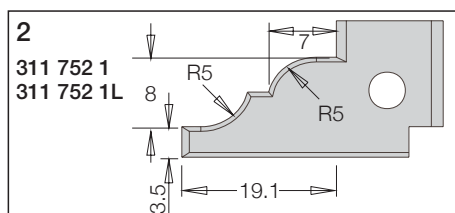
øD	B	Code No.	Cutter No.	Profile	z	ød
120	16.0	842 111 3	1	1	2	20
120	5.0	842 012 3	2		4	20
120	15.0	842 013 3	3		2	20
88	15.0	842 014 3	4		2	20
120	16.0	842 115 3	5	1	2	20
120	15.0	842 016 3	6		2	20



Set.No.	øD	Code No.	Cutters	B	Wood Sample Type	L	d	n
Set 1	120	842 032 H	1,2,3,4	20-35	1, 2	135	25	12,000
Set 2	120	842 037 H	1,2,3,4,5	20-35	1, 2, 3	125	25	12,000
set 3	120	842 062 H	1,2,3,2*4,5,6	20-35	1,3,4	125	25	12,000

⚠ Also available with HSK or ISO adapters.

øD	B	Code No.	Cutter No.	Profile	z	ød
120	16	842 211 3	1	2	2	20
120	5	842 012 3	2		4	20
120	15	842 013 3	3		2	20
88	15	842 014 3	4		2	20
120	16	842 215 3	5	2	2	20
120	15	842 016 3	6		2	20

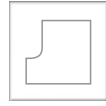




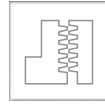
# CNC



Grooving & Sizing



Profiling & Chamfering



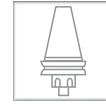
Jointing & Rebating



Frame & Panel door



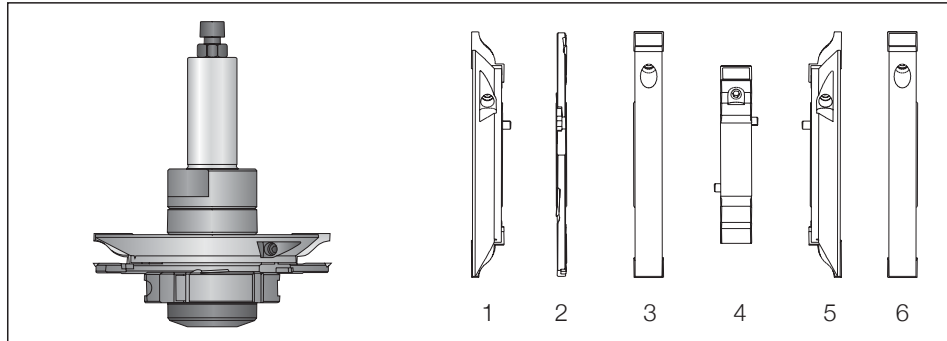
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Clamping Systems & Adapters

## Counter - Profile Cutters Set (Cont')

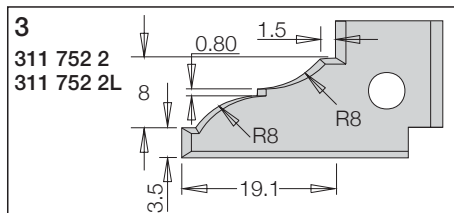
Disposable insert router cutter set complete with a maximum of six different cutters. Suitable for producing various thickness profile / counter profile joints in softwood, hardwood and man-made boards by using combinations of the supplied cutters. For use on routers and machining centres with CNC control. Max wood thickness 34 mm. Set No. 3 was made in order to let the user work with both required assemblies at the same time with out turning over the wood piece



Set.No.	øD	Code No.	Cutters	B	Wood Sample Type	L	d	n
Set 1	120	842 033 H	1,2,3,4	20-35	1, 2	135	25	12,000
Set 2	120	842 038 H	1,2,3,4,5	20-35	1, 2, 3	125	25	12,000
set 3	120	842 063 H	1,2,3,2*4,5,6	20-35	1,3,4	125	25	12000

⚠ Also available with HSK or ISO adapters.

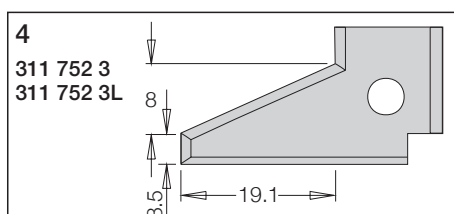
øD	B	Code No.	Cutter No.	Profile	z	ød
120	16	842 311 3	1	3	2	20
120	5	842 012 3	2		4	20
120	15	842 013 3	3		2	20
88	15	842 014 3	4		2	20
120	16	842 315 3	5	3	2	20
120	15	842 016 3	6		2	20



Set.No.	øD	Code No.	Cutters	B	Wood Sample Type	L	d	n
Set 1	120	842 034 H	1,2,3,4	20-35	1, 2	135	25	12,000
Set 2	120	842 039 H	1,2,3,4,5	20-35	1, 2, 3	125	25	12,000
set 3	120	842 064 H	1,2,3,2*4,5,6	20-35	1,3,4	125	25	12,000

⚠ Also available with HSK or ISO adapters.

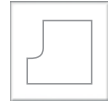
øD	B	Code No.	Cutter No.	Profile	z	ød
120	16	842 411 3	1	4	2	20
120	5	842 012 3	2		4	20
120	15	842 013 3	3		2	20
88	15	842 014 3	4		2	20
120	16	842 415 3	5	4	2	20
120	15	842 016 3	6		2	20



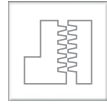
# CNC



Grooving & Sizing



Profiling & Chamfering



Jointing & Rebating



Frame & Panel door



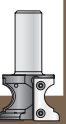
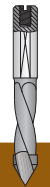
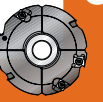
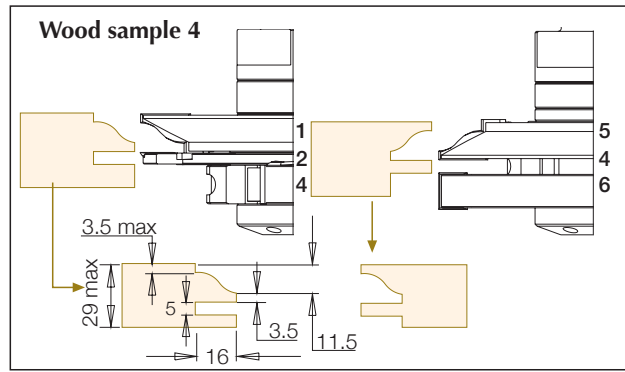
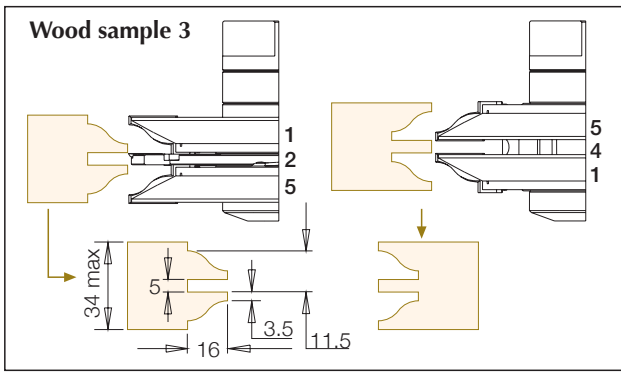
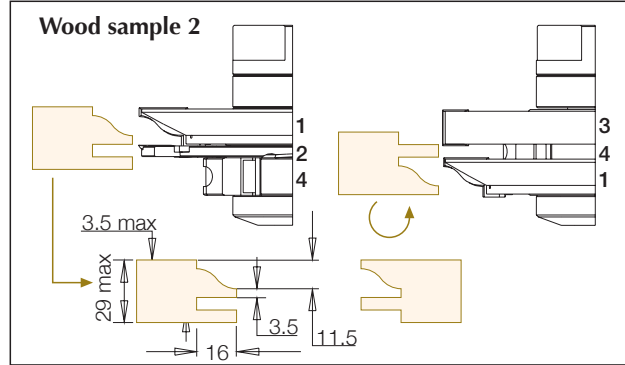
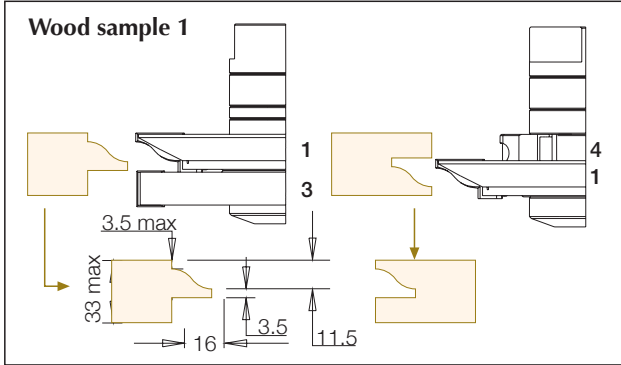
Carving



Clamping Systems & Adapters



## Counter - Profile Cutters Set (Cont')



### Spare Parts:

	Arbor	Spacer	Spacer	Spacer	Cover	Arbor screw	Stopper screw	Allen key
	#190 820 H	#196 360 0	#196 365 0	#196 370 0	#199 720 3	#193 608 0	#193 042 0	#194 015 0
	L=135	5x45	10x45	13x45	12x45	M5x20	M6x16	S4
	T.C. Blade Profile 1	T.C. Blade Profile 2	T.C. Blade Profile 3	T.C. Blade Profile 4	Wedge	Allen screw	Torx screw	Allen key
	#311 752 0	#311 752 1	#311 752 2	#311 752 3	#199 032 6	#193 026 5	#193 148 2	#1940035
	15.7x30x2	15.7x30x2	15.7x30x2	15.7x30x2	L=14	M6x16	M4x5.6	S3
	T.C. Blade	T.C. Blade	T.C. Blade nut	T.C. Blade nut	Torx screw	Torx key		
	#300 850 4	#300 850 2	#192 360 0	#192 350 0	#193 030 0	#194 110 0		
	18x18x2.5	14x14x1.2	M4*0.5D=9.9	M4*0.5D=11.9	M4x4	T9		
	T.C. Blade	Wedge	Allen screw	Allen key				
	#311 451 2	#199 038 5	#193 026 5	#194 003 5				
	14.3x12x1.5	L=13.5	M6x16	S3				
	T.C. Blade	Wedge	Allen screw	Allen key				
	#300 052 7	#199 038 5	#193 026 5	#194 003 5				
	15x12x1.5	L=13.5	M6x16	S3				
	T.C. Blade	T.C. Blade	T.C. Blade	T.C. Blade	Wedge	Allen screw	Torx screw	Allen key
	#311 752 0 L	#311 752 1 L	#311 752 2 L	#311 752 3 L	#199 032 6	#193 026 5	#193 148 2	#1940035
	15.7x30x2	15.7x30x2	15.7x30x2	15.7x30x2	L=14	M6x16	M4x5.6	S3