

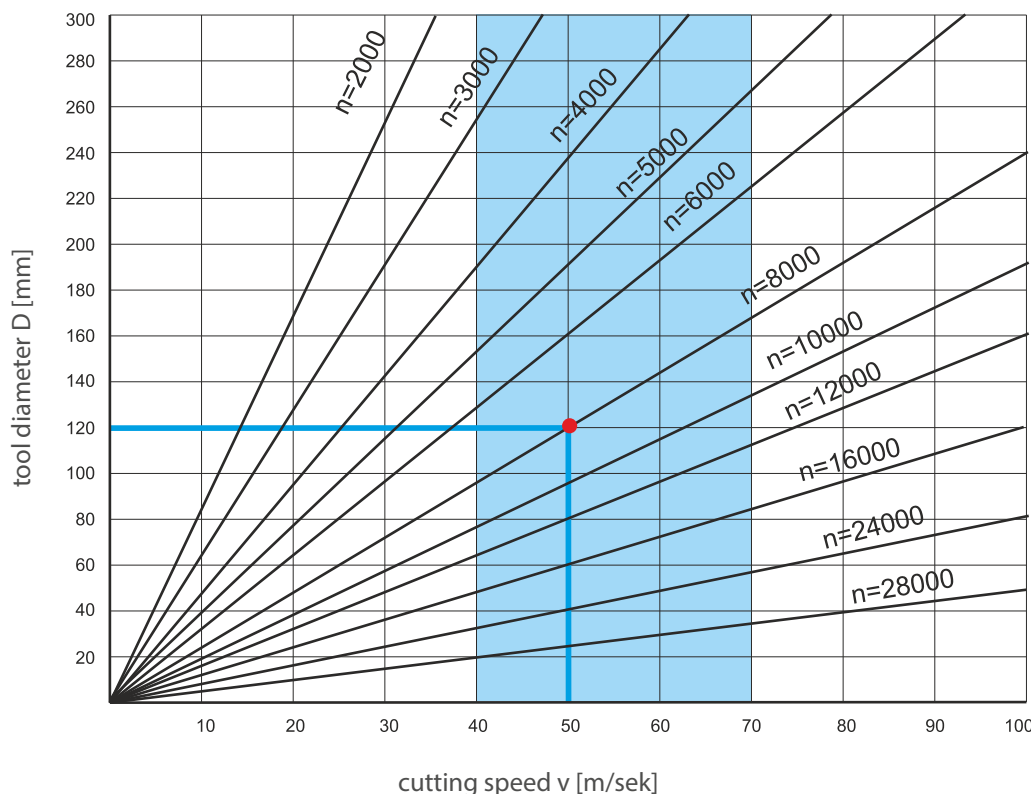
Determination of cutting speed

Cutting speed results from the tool diameter and the rotational spindle speed. For each tool the maximum permissible rotation speed is marked as n-max.

Maximum permissible speed is not the optimum operating speed of the tool. The optimal cutting speed is determined by reducing the maximum permissible rotation speed by about 20-30%.

For example:
 D = 120 mm
 n = 8000 rpm
 v = 50 m/s

The rotation speed should be selected so that the cutting speed was between 40 and 70 m/s.



Feed rate optimization depending on the type of machined material.

Attention:

Decrease feed rate will cause a faster wearing of the cutting edge, but its increase will impair the quality of the machined surface.

Material being processed	Feed per tooth [mm]
Wood	0,20 - 0,80
chipboard	0,35 - 0,80
plywood	0,30 - 0,60
beaverboard	0,20 - 0,60
plastic hardened materials	0,05 - 0,20
Thermoplastics	0,10 - 0,40

Cutting speed:

v - Cutting speed [m/s],
 D - blade Diameter [mm],
 n - number of turns [obr/min].

$$v = \frac{\pi \times D \times n}{60 \times 1000}$$

example:

saw no. corner 061 PCV
 D = 300 [mm],
 n = 4500 [obr/min]

$$v = \frac{\pi \times 300 \times 4500}{60 \times 1000} = 70,7 \text{ [m/s]}$$

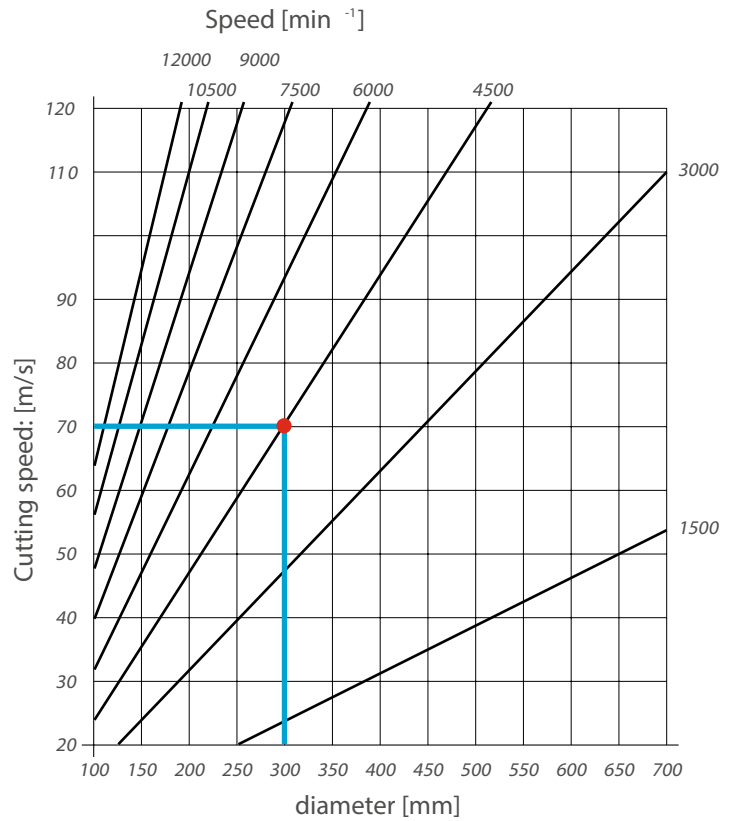
NL - Hole spacing collecting:

KNL1 - 2/7/42, 2/9/46, 2/10/60

KNL2 - 2/9/55, 4/12/64

KNL3 - 2/8/45, 2/9/60, 2/11/63

KNL4 - 2/8/45, 2/11/63



Material being processed	Feed speed [mm]
Aluminium	0,03-0,10
Aluminium - alloy	0,05-0,12
Wood - cross-cutting	0,03-0,08
Dry rewood - Longitudinal	0,10-0,35
Wood wet - Longitudinal	0,10-0,80
Wood - cut on the double saw	0,20-0,80
veneer	0,70-1,50
beaverboard	0,08-0,12
laminated board	0,08-0,12
particle board	0,08-0,25
PVC profiles without fillings	0,03-0,15
plywood	0,08-0,25

Material being processed	cutting speed [m/s]
Aluminium	60-80
Aluminium - alloy	15-40
exotic wood	50-85
softwood	60-100
Hardwood	60-100
plasterboard	40-65
veneer	70-100
beaverboard	50-80
laminated board	60-80
particle board	50-80
PVC profiles without fillings	30-70
plywood	50-80

It is possible to manufacture the saw blades with unusual characteristics on request.
 Please send your inquiry, including description, drawing or sketch, and contact information.

The additional services we offer on customer request:

- hole diameter changing
- keyways making,
- driver holes making,
- reducing the width of the tooth (if technically possible),
- grinding the tooth clearance surface
- additional markings

We also provide service:

- sharpening
- repair and refurbishing of cutting tools.

Shank-type cutters



Shank-type
cutters

In addition to the items directory tools
made to individual order. The term of up to two weeks.

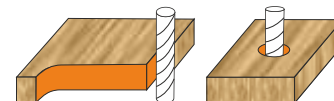
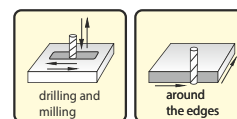
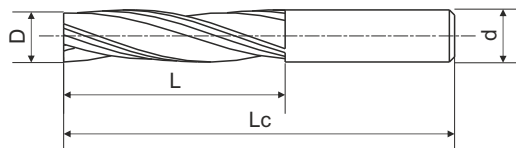
tel.: (+48)12 276 33 51

e-mail: sekretariat@frezwid.com.pl

Area with horizontal dashed lines for writing notes.

HS/HW spiral smooth drill

1000



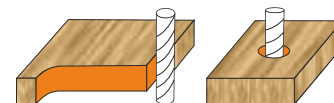
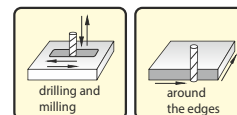
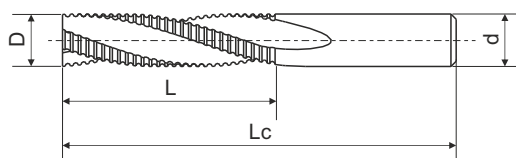
Description of products:

- milling nishing straight and narrow curved plane
- drilling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

					z-number of teeth
mm	mm	mm	mm	spiral direction	szt.
60 - 165	25 - 100	f 6 - f 25	f 6 - f 25	positive/negative	2/3

HS/HW spiral drill with chip-breaker upcut/downcut

1001



Description of products:

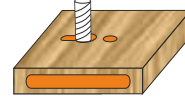
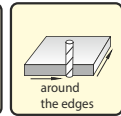
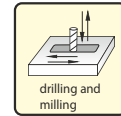
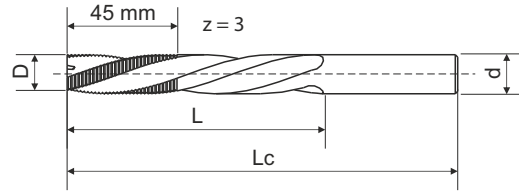
- Roughing straight and narrow curved plane
- drilling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

					z-number of teeth
mm	mm	mm	mm	spiral direction	szt.
60 - 165	25 - 100	f 6 - f 25	f 6 - f 25	positive / negative	2/3

In addition to the items directory tools made to individual order.
The term of up to two weeks.

HS/HW up-cut drills for lock sets

1002



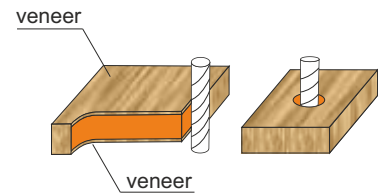
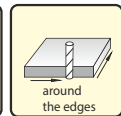
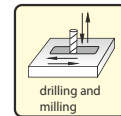
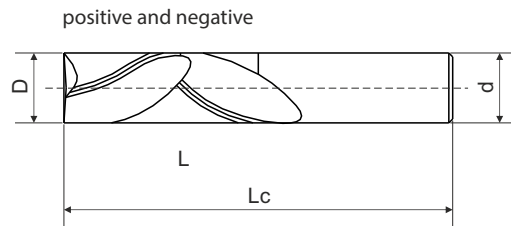
Description of products:

- milling cartridge slots under a door lock
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm
60 - 165	25 - 100	f 14/f 16/f 18	f 14/f 16/f 18

HS/HW spiral drill upcut & downcut

1003



Description of products:

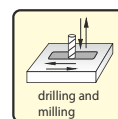
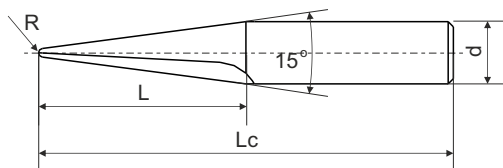
- Formatting both sides veneered boards
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm
80 - 120	25 - 50	f 8 - f 20	f 8 - f 20

In addition to the items directory tools made to individual order. The term of up to two weeks.

HSS/HW carving drill

1004



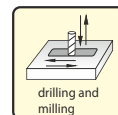
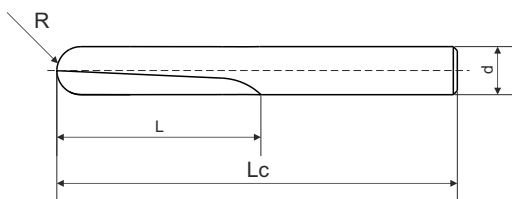
Description of products:

- cutters for carving specialist machining centers and milling plotters

mm	mm	mm	mm
50 - 100	25 - 50	0.5 - 5	f 6 - f 20

HSS/HW carving drill

1005



Description of products:

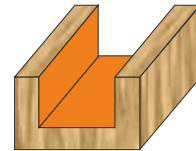
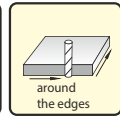
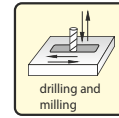
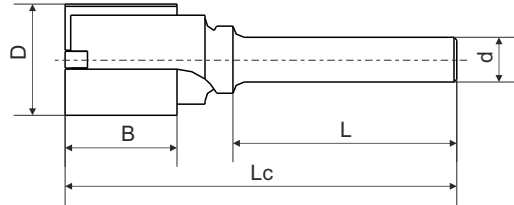
- cutters for carving specialist machining centers and milling plotters

mm	mm	mm	mm
50 - 100	25 - 50	3 - 12	f 6 - f 20

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Straight HW cutter with brazed tip

1020



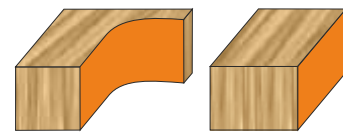
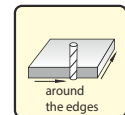
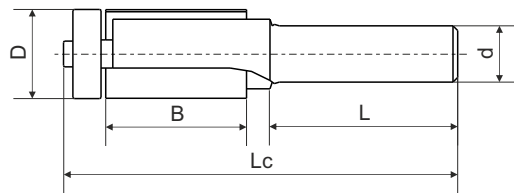
Description of products:

- milling grooves
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm
50 - 120	5 - 50	25 - 50	f 15 - f 30	f 6 - f 25

Straight HW cutter with a bearing and a brazed tip

1021



Description of products:

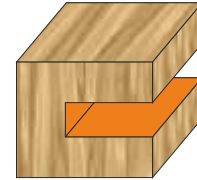
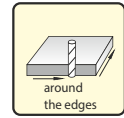
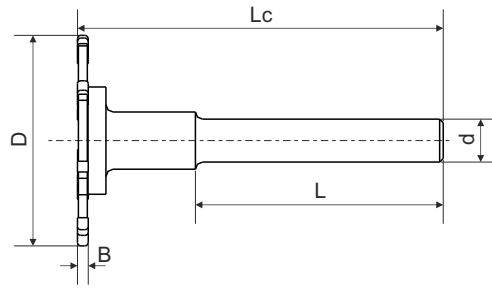
- hobbing
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm
50 - 100	5 - 50	25 - 50	f 13 - f 30	f 6 - f 25

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Grooving HW cutter with a brazed tip

1022



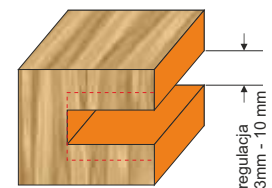
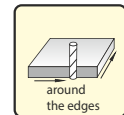
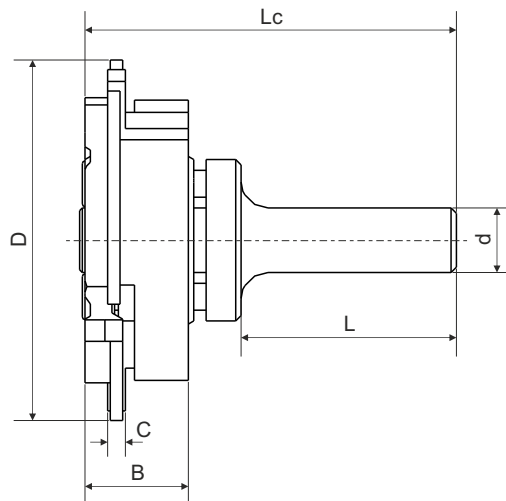
Description of products:

- hobbing grooves
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

					z-number of teeth
mm	mm	mm	mm	mm	szt.
50 - 100	3 - 10	25 - 50	f 50 - f 150	f 6 - f 25	2 - 12

HW cutter with a brazed tip and with width adjustment

1023



Description of products:

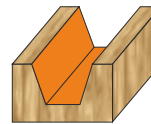
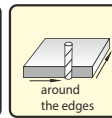
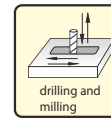
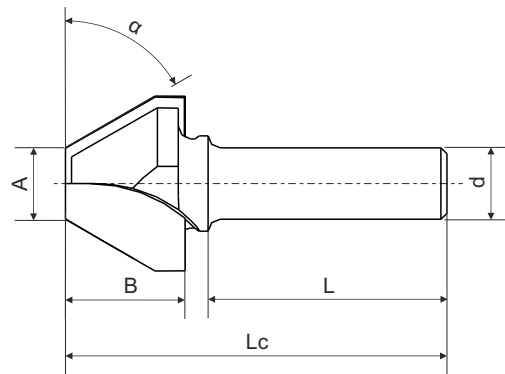
- shape milling
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	mm
50 - 100	10 - 30	3 - 10	25 - 50	f 50 - f 150	f 6 - f 25

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Bevel HW cutter with a brazed tip

1030



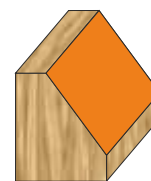
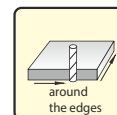
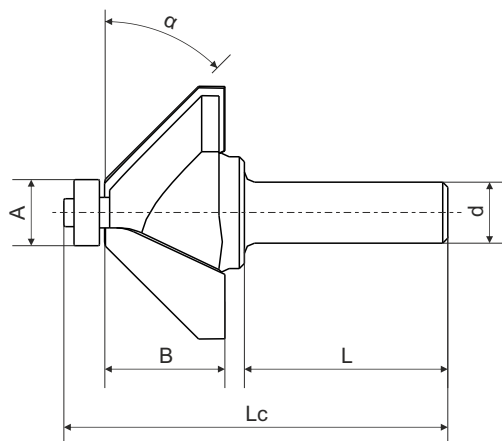
Description of products:

- frezowanie proste i krzywoliniowe
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	o
50 - 100	10 - 40	25 - 50	f 15 - f 20	f 6 - f 25	1 - 45

Bevel HW cutter with a bearing and a brazed tip

1031



Description of products:

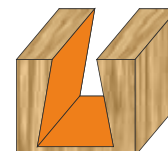
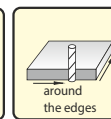
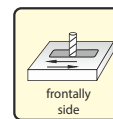
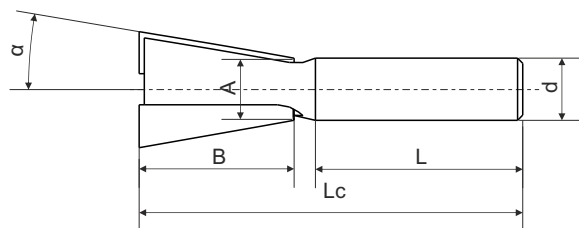
- hobbing
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	o
50 - 100	10 - 40	25 - 50	f 13 - f 30	f 6 - f 25	1 - 45

In addition to the items directory tools made to individual order. The term of up to two weeks.

Bevel HW cutter with a brazed tip

1032



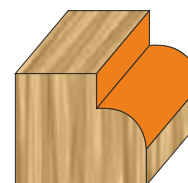
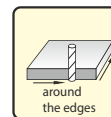
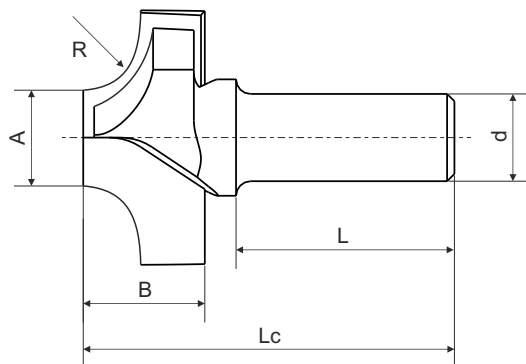
Description of products:

- hobbing
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	o
50 - 100	5 - 50	10 - 30	6 - 25	f 6 - f 25	1 - 45

Profile HW cutter with a brazed tip

1040



Description of products:

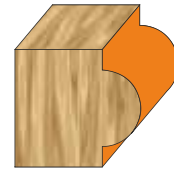
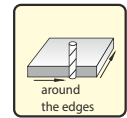
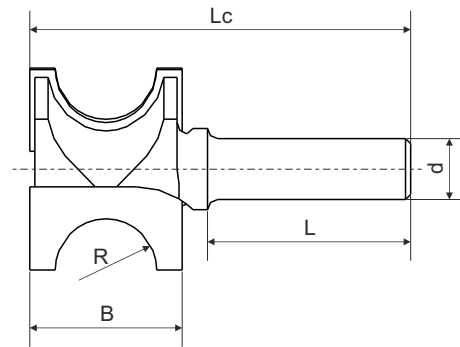
- envelope shape milling
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	mm
50 - 100	10 - 40	25 - 50	f 13 - f 30	f 6 - f 25	3 - 30

In addition to the items directory tools made to individual order.
The term of up to two weeks

Profile HW cutter with a brazed tip

1041



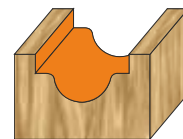
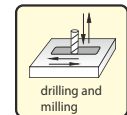
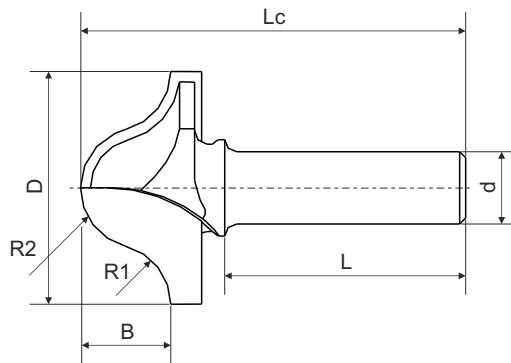
Description of products:

- envelope shape milling
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm
50 - 100	10 - 80	2 - 40	25 - 50	f 6 - f 25

Profile HW cutter with a brazed tip

1042



Description of products:

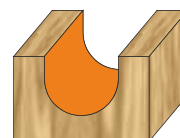
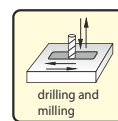
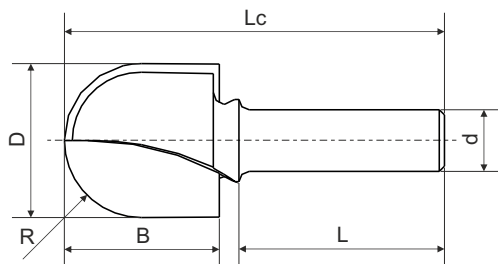
- envelope shape milling
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	mm	mm
50 - 100	5 - 40	1 - 30	1 - 30	25 - 50	f 15 - f 70	f 6 - f 25

In addition to the items directory tools made to individual order.
The term of up to two weeks

Profile HW cutter with a brazed tip

1043



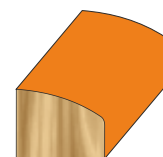
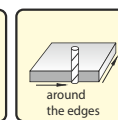
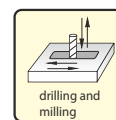
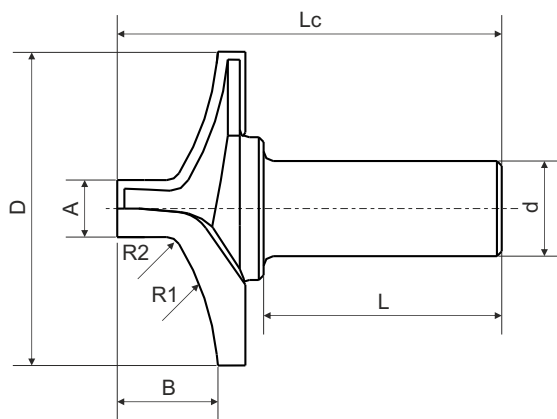
Description of products:

- shape milling
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	mm
50 - 100	10 - 50	1 - 50	25 - 50	f 12 - f 50	f 6 - f 25

Profile HW cutter with a brazed tip

1044



Description of products:

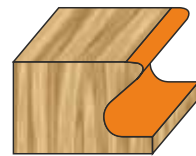
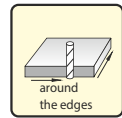
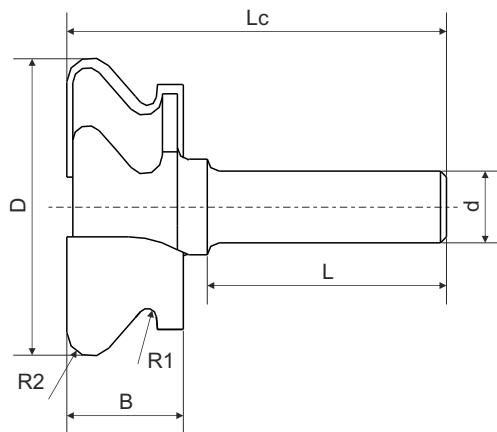
- shape milling
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	mm	mm	mm
50 - 100	10 - 50	1 - 100	1 - 100	25 - 50	f 12 - f 30	f 20 - f 120	f 6 - f 25

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Profile HW cutter with a brazed tip

1045



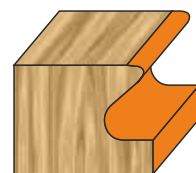
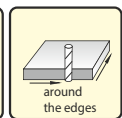
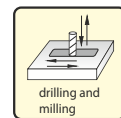
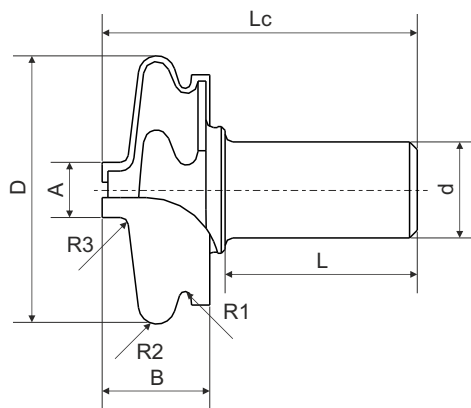
Description of products:

- shape milling under the handle
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	mm	mm
50 - 100	10 - 50	1 - 20	1 - 20	25 - 50	f 12 - f 50	f 6 - f 25

Profile HW cutter with a brazed tip

1046



Description of products:

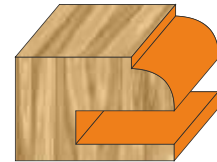
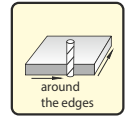
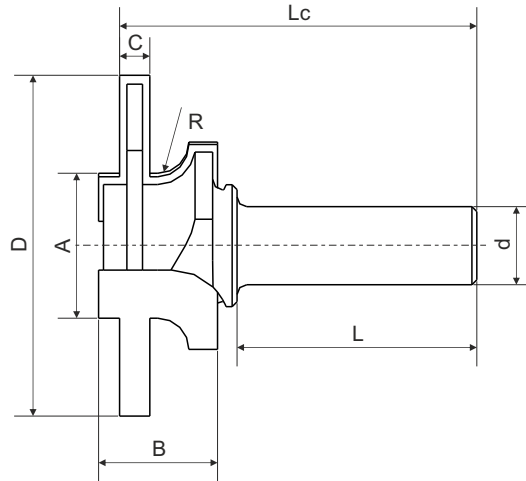
- shape milling
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	mm	mm	mm	mm
50 - 100	10 - 50	1 - 20	1 - 20	1 - 20	25 - 50	f 12 - f 50	f 12 - f 30	f 6 - f 25

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Set of HW profile cutters with brazed tips

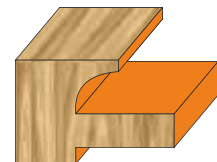
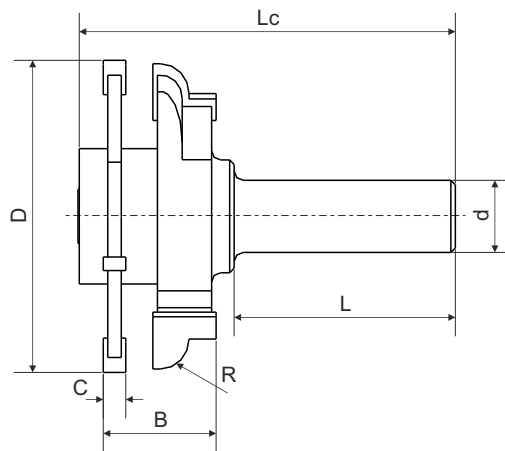
1047



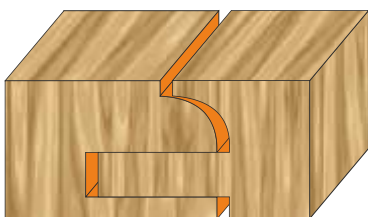
Description of products::

- shape milling
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	mm	mm	mm
50 - 100	10 - 30	3 - 10	1 - 20	25 - 50	f 12 - f 100	f 50 - f 150	f 6 - f 25



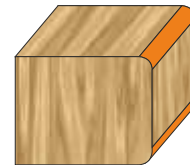
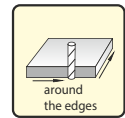
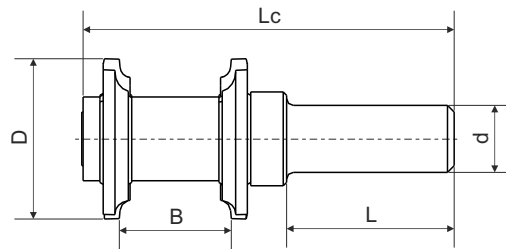
mm	mm	mm	mm	mm	mm	mm
50 - 100	10 - 30	3 - 10	1 - 20	25 - 100	f 50 - f 150	f 6 - f 25



In addition to the items directory tools made to individual order.
The term of up to two weeks.

Profile HW cutter with a brazed tip

1048



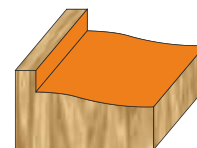
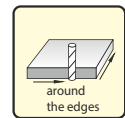
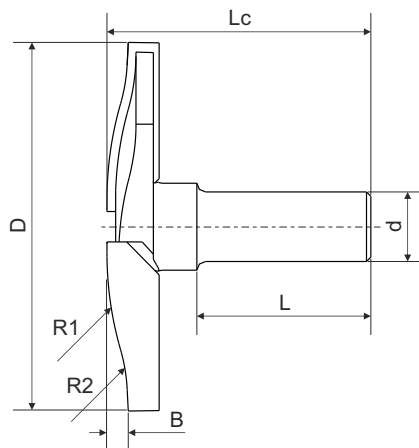
Description of products:

- shape milling
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm
50 - 100	5 - 100	25 - 500	f 50 - f 100	f 6 - f 25

Frez profilowy HW do produkcji płytyn

1049



Description of products:

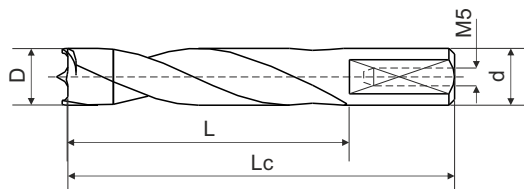
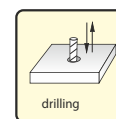
- shape milling
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	mm	mm
25 - 100	3 - 20	1 - 100	1 - 100	25 - 50	f 20 - f 120	f 6 - f 25

Pin addition to the items directory tools made to individual order.
The term of up to two weeks.

HW dowel drill

1100



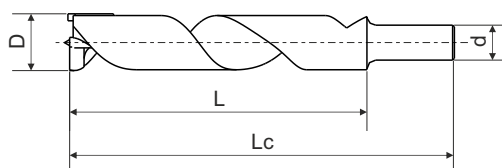
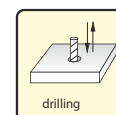
Description of products:

- drilling
- drilling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm
50 - 120	30 - 100	f 5 - f 18	f 5 - f 25

HW drill for deep holes

1101



Description of product:

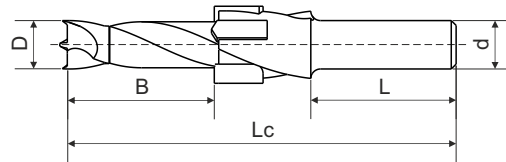
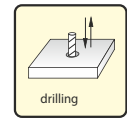
- drilling
- drilling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm
50 - 180	50 - 130	f 12 - f 20	f 6 - f 25

In addition to the items directory tools made to individual order.
The term of up to two weeks.

2 step HW drill

1102



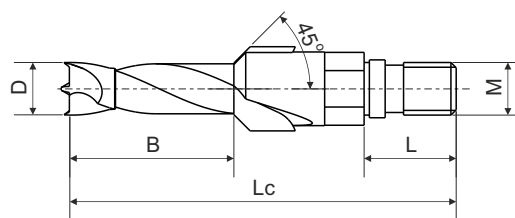
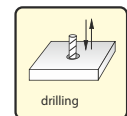
Description of product:

- drilling
- drilling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm
50 - 100	10 - 30	25 - 50	f 5 - f 20	f 6 - f 25

2 step HW drill

1103



Description of product:

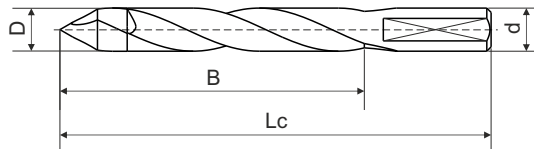
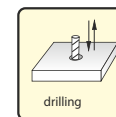
- drilling
- drilling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm
50 - 100	10 - 30	10 - 15	f 5 - f 20	M8 - M12

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Through-hole HW drill

1104



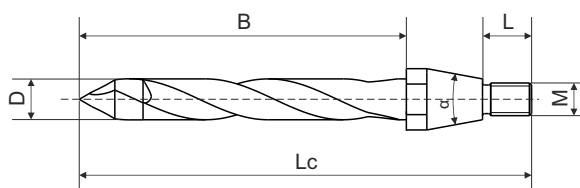
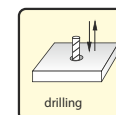
Description of product:

- drilling through holes
- drilling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm
50 - 120	30 - 100	f 5 - f 18	f 6 - f 25

Through-hole HW drill

1105



Description of product:

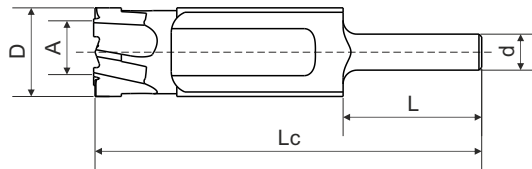
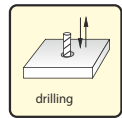
- drilling through holes
- drilling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm
50 - 100	10 - 30	10 - 15	f 5 - f 20	M8 - M12

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Solid HS drill for wood repairs

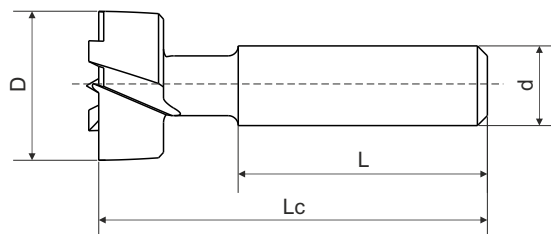
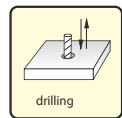
1106



mm	mm	mm	mm	mm
100 - 150	25 - 50	f 20 - f 80	f 15 - f 60	f 6 - f 25

Solid HS cylinder boring drill

1107



mm	mm	mm	mm
50 - 90	25 - 60	f 15 - f 40	f 12 - f 20

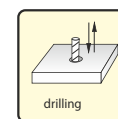
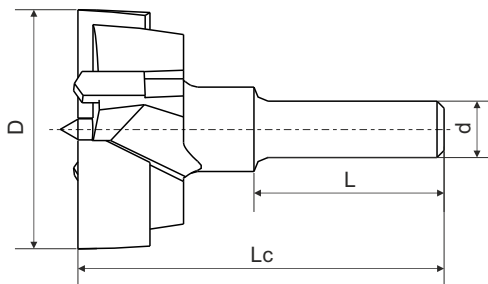
Description of product:

- set for wood repair (plug cutter)
- drilling in solid wood
- intended for router machines

In addition to the items directory tools made to individual order.
The term of up to two weeks.



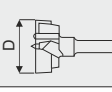

Solid HS hinge boring drill with HW tips

1110



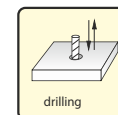
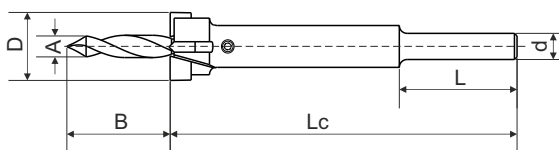
Description of product:

- drilling hinge holes
- drilling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

				v - ilość nacinaków	z-number of teeth
mm	mm	mm	mm	szt.	szt.
50 - 90	25 - 60	f 15 - f 150	f 12 - f 20	2 lub 3	2 lub 3

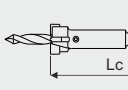
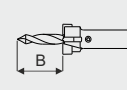
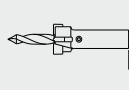
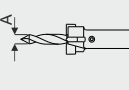
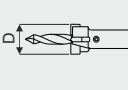
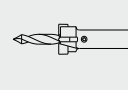
Solid HS hinge boring drill with HW tips

1111



Description of product:

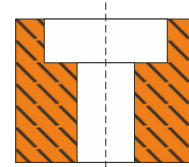
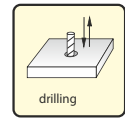
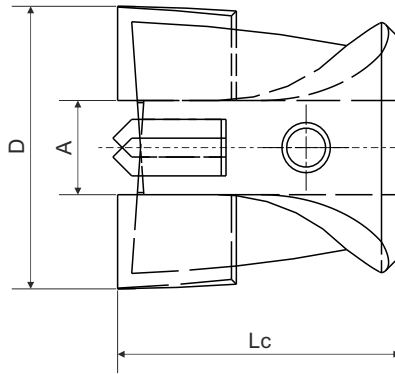
- drilling hinge holes
- drilling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

					
mm	mm	mm	mm	mm	mm
50 - 200	10 - 30	25 - 100	f 3 - f 10	f 20 - f 40	f 10 - f 25

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Solid HS countersink with HW brazed tips

1120



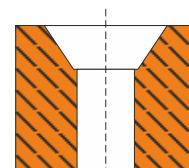
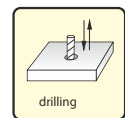
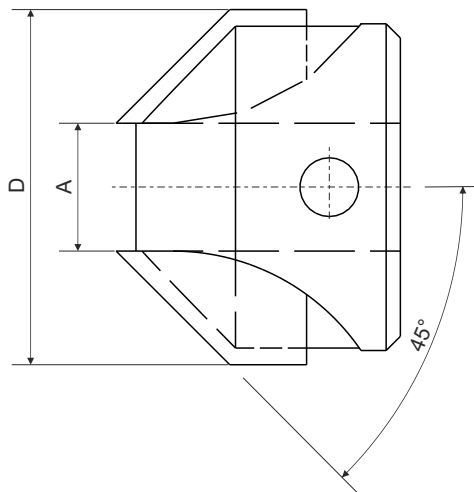
Description of product:

- deepening of holes
- drilling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm
15 - 25	f 10 - f 30	f 3 - f 20

Solid HS bevel countersink with brazed HW tips

1121



Description of product:

- bevelling holes
- drilling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm
10 - 30	f 3 - f 20

In addition to the items directory tools made to individual order.
The term of up to two weeks.

PCD diamond cutters



PCD diamond cutters

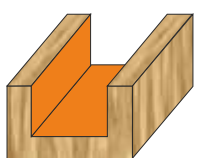
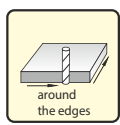
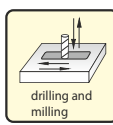
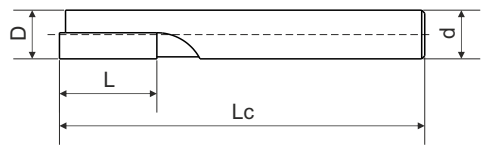
In addition to the items directory tools made
to individual order. The term of up to two weeks.

tel.: (+48)12 276 33 51

e-mail: sekretariat@frezwid.com.pl

Straight DP cutter

0001



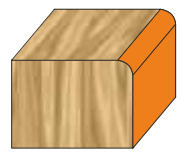
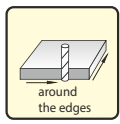
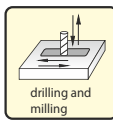
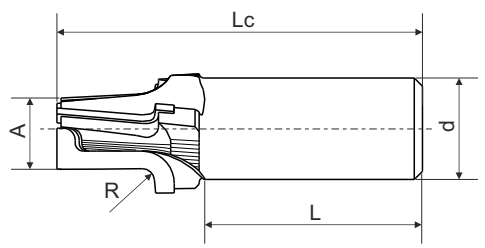
Description of products:

- milling grooves
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm
50 - 100	5 - 25	f 5 - f 10	f 5 - f 25

Profile DP cutter

0002



Description of products:

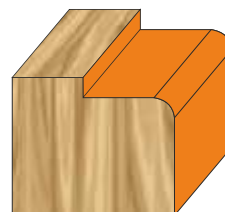
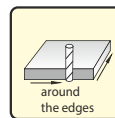
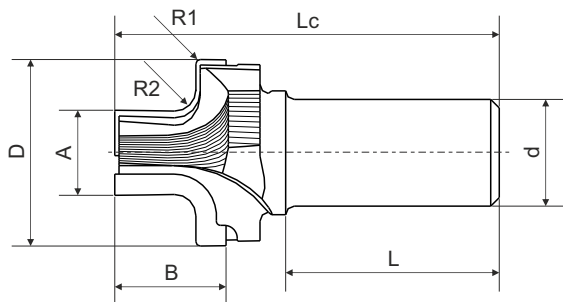
- MDF HDF profiling (for example furniture doors)
- front-side cutter with the possibility of drilling
- intended for router machines and CNC machining centres

					z - number of teeth
mm	mm	mm	mm	mm	szt.
80 - 100	25 - 50	1 - 10	12 - 20	12 - 25	1 - 3

In addition to the items directory tools made to individual order. The term of up to two weeks.

Profile DP cutter

0003



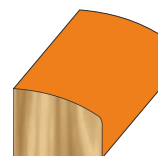
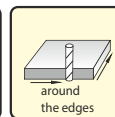
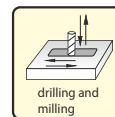
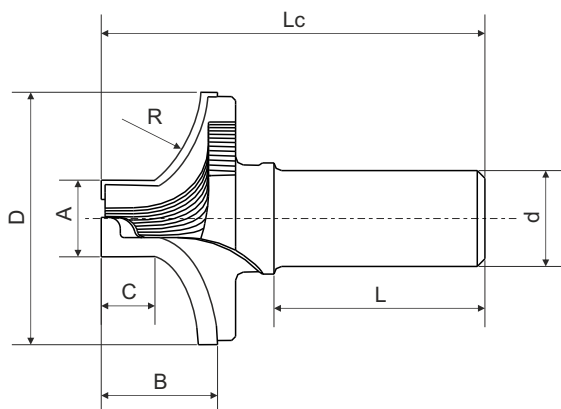
Description of products:

- MDF, HDF profiling
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

Lc	B	R1	R2	L	D	A	d
mm	mm	mm	mm	mm	mm	mm	mm
50 - 100	10 - 30	1 - 10	1 - 10	25 - 50	f 20 - f 100	f 12 - f 30	f 6 - f 25

Profile DP cutter

0004



Description of products:

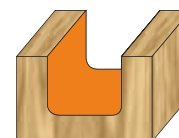
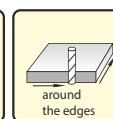
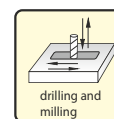
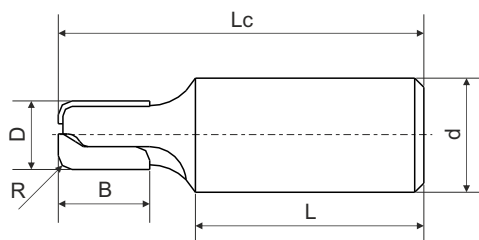
- MDF, HDF profiling
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

Lc	B	C	R	L	D	A	d
mm	mm	mm	mm	mm	mm	mm	mm
80 - 100	25 - 50	1 - 25	20 - 100	25 - 50	f 20 - f 120	f 12 - f 30	f 12 - f 25

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Profile DP cutter

0005



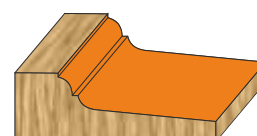
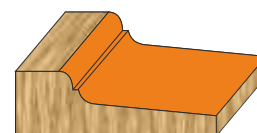
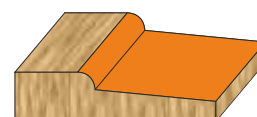
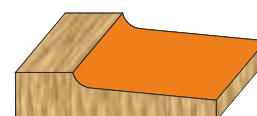
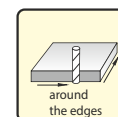
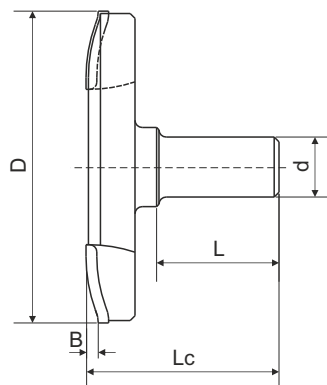
Description of products:

- MDF, HDF milling (e.g. for furniture doors)
- fronto-side cutter with the possibility of drilling
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	mm
50 - 100	10 - 25	1 - 10	25 - 50	f 10 - f 20	f 6 - f 25

Profile DP cutter

0006



Description of products:

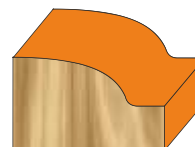
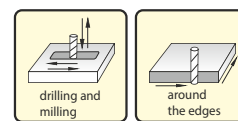
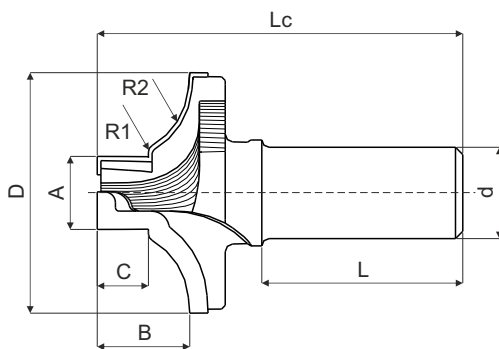
- panel raising production
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm
50 - 100	25 - 50	5 - 30	f 30 - f 120	f 6 - f 25

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Profile DP cutter

0007



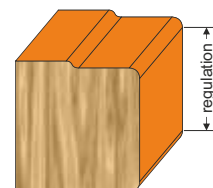
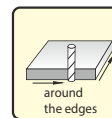
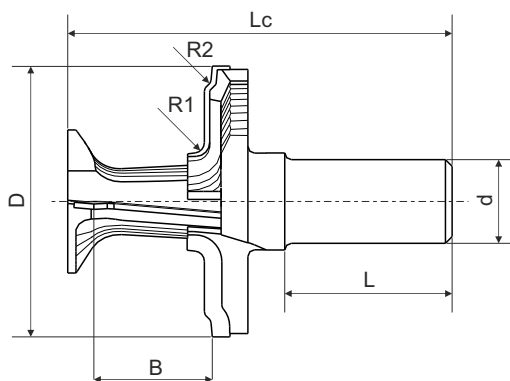
Description of products:

- MDF, HDF milling (e.g. for furniture doors)
- fronto-side cutter with the possibility of drilling
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	mm	mm	mm	mm
50 - 100	10 - 50	5 - 30	1 - 10	1 - 10	25 - 50	f 12 - f 30	f 20 - f 120	f 6 - f 25

Adjustable profile DP cutter

0008



Description of products:

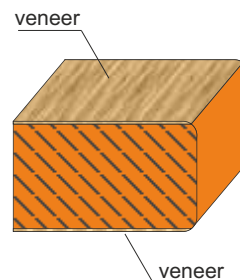
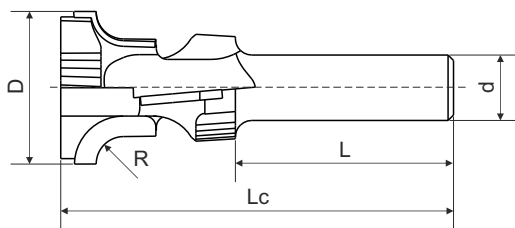
- MDF, HDF profiling
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	mm	mm
50 - 100	15 - 50	1 - 20	1 - 20	25 - 50	f 50 - f 120	f 6 - f 25

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Profile DP cutter

0009



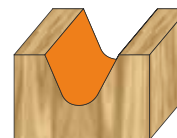
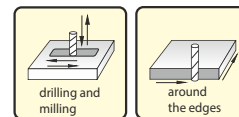
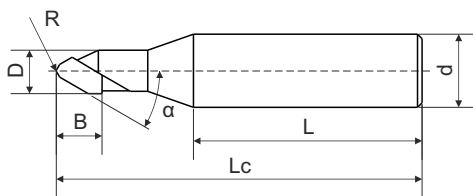
Description of products:

- MDF HDF profiling (does not damage the veneer)
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm
50 - 100	25 - 50	1 - 20	f 25 - f 100	f 6 - f 25

Profile DP cutter

0010



Description of products:

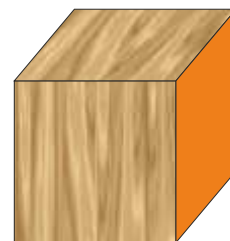
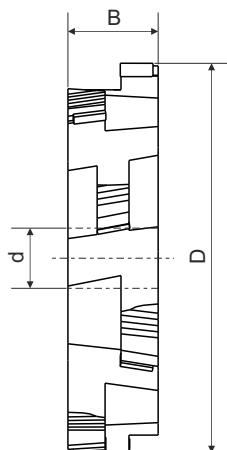
- MDF, HDF milling
- milling in solid wood and wood-based materials
- intended for router machines and CNC machining centres

mm	mm	mm	mm	mm	mm	o
50 - 100	5 - 25	0,3 - 3	25 - 50	f 10 - f 50	f 6 - f 25	30 - 45

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Straight DP cutter

0020



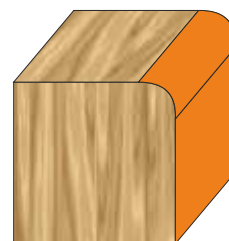
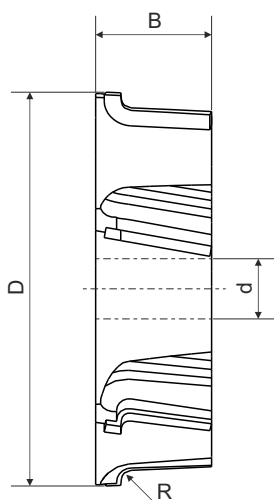
Description of products:

- MDF, HDF milling
- intended for spindle molders

mm	mm	mm
f 60 - f 250	f 25 - f 60	10 - 50

Profile DP cutter

0021



Description of products:

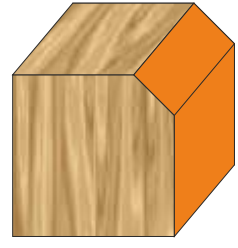
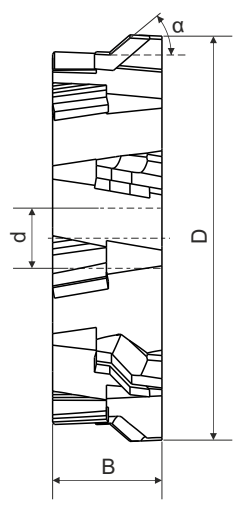
- MDF, HDF milling
- intended for spindle molders

mm	mm	mm	mm
f 60 - f 250	f 25 - f 60	10 - 50	1 - 10

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Bevel DP cutter

0022

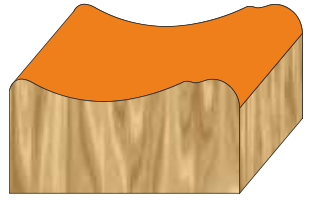
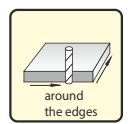
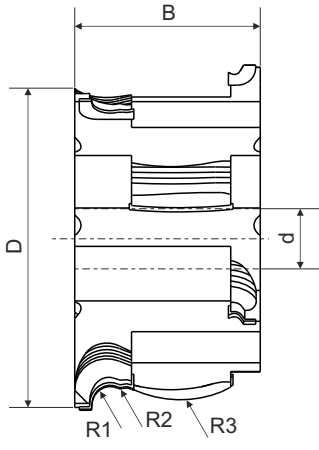


- Description of products:**
- milling MDF, HDF
 - intended for spindle molders

mm	mm	mm	o
f 60 - f 250	f 25 - f 60	10 - 50	15 - 45

Profile DP cutter

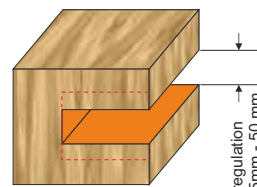
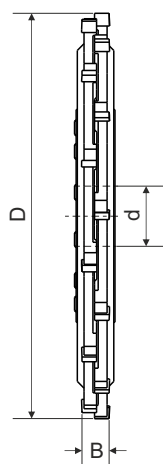
0023



- Description of products:**
- milling MDF, HDF
 - intended for spindle molders

mm	mm	mm	mm	mm	mm
f 60 - f 250	f 25 - f 60	10 - 100	1 - 50	1 - 50	1 - 50

In addition to the items directory tools made to individual order. The term of up to two weeks.



Description of products:

- milling MDF, HDF
- intended for spindle molders

mm	mm	mm
f 60 - f 250	f 25 - f 60	5 - 100

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Side milling cutters with brazed tips

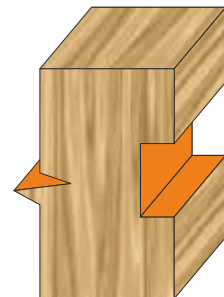
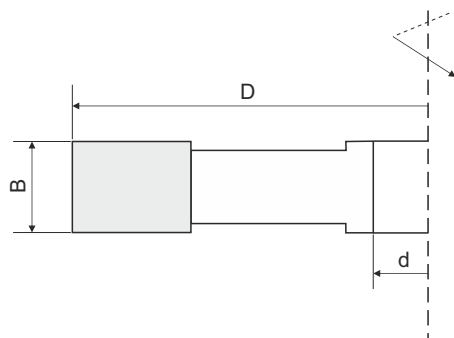


Side milling
cutters

In addition to the items directory tools made
to individual order. The term of up to two weeks.
tel.: (+48)12 276 33 51
e-mail: sekretariat@frezwid.com.pl

Straight HS/HW cutter

2010



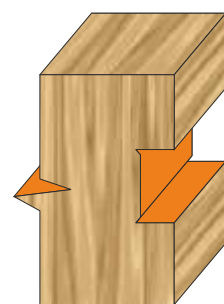
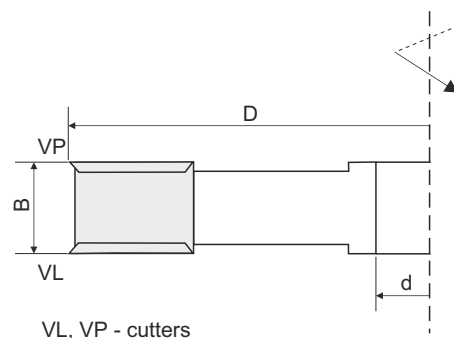
Description of products:

- milling of wood and wood-based materials
- intended for spindle molders

			z - number of teeth
mm	mm	mm	szt.
f 100 - f 200	f 20 - f 50	4 - 60	4 - 6

Straight HS/HW cutter with spurs

2020



Description of products:

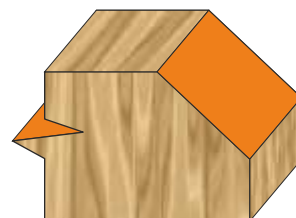
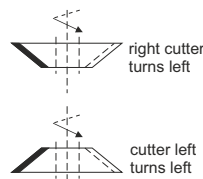
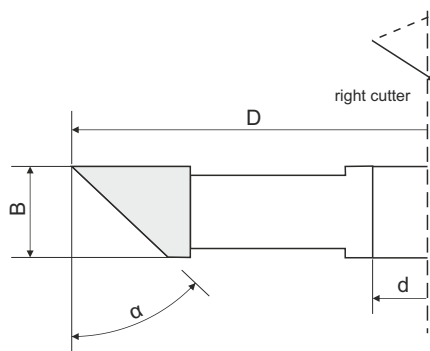
- milling of wood and wood-based materials
- intended for spindle molders

			VL = VP	z - number of teeth
mm	mm	mm	szt.	szt.
f 100 - f 200	f 20 - f 50	4 - 60	2 - 4	2 - 4

In addition to the items directory tools made to individual order.
The term of up to two weeks

Bevel HS/HW cutter – right- or left-handed

2050



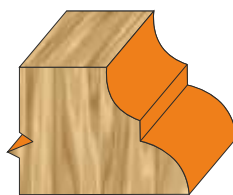
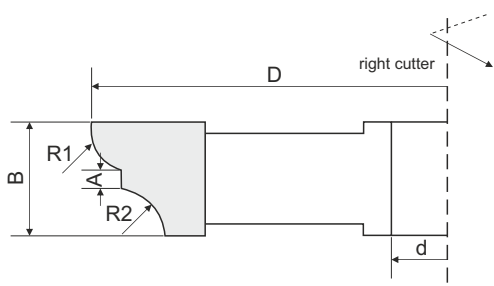
Description of products:

- milling of wood and wood-based materials
- intended for spindle molders

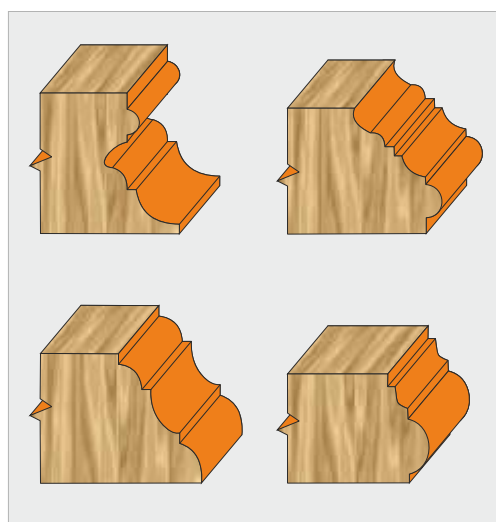
				z - number of teeth
mm	mm	mm	o	szt.
f 100 - f 180	f 20 - f 50	20 - 60	15 - 60	4 - 6

Profile HS/HW cutter – right- or left-handed

2060



Other examples of prole



Description of products:

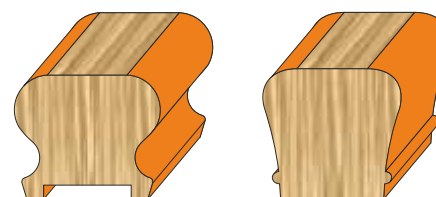
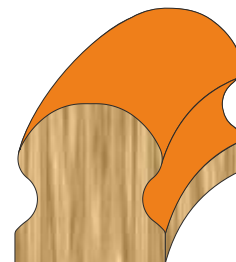
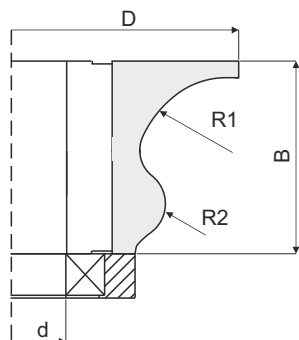
- milling of wood and wood-based products
- intended for spindle molders

					z - number of teeth
mm	mm	mm	mm	mm	szt.
f 100 - f 180	f 20 - f 50	5 - 15	5 - 15	2 - 5	12 - 35
					4 - 6

In addition to the items directory tools made to individual order.
The term of up to two weeks

Profile HS/HW cutter for stair handrail production

2070



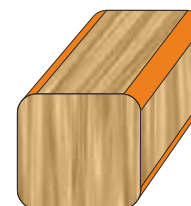
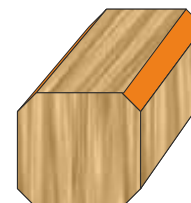
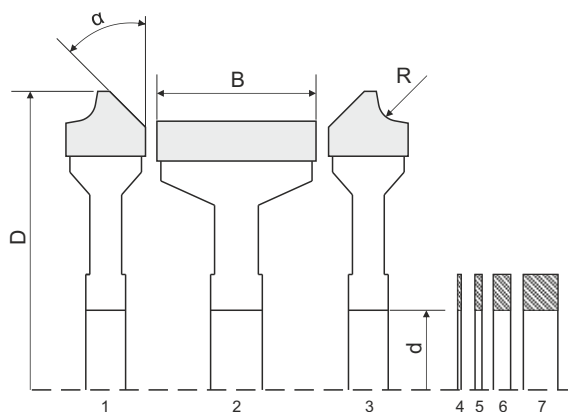
Description of products:

- milling of wood and wood-based products
- intended for spindle molders

					z - number of teeth
mm	mm	mm	mm	mm	szt.
f 100 - f 180	f 30 - f 60	10 - 25	5 - 20	40 - 80	4 - 6

Bevel/round-off HS/HW profile cutter

2080



Description of products:

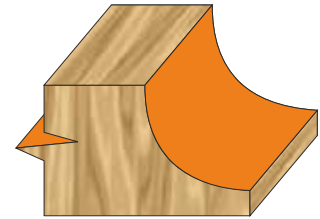
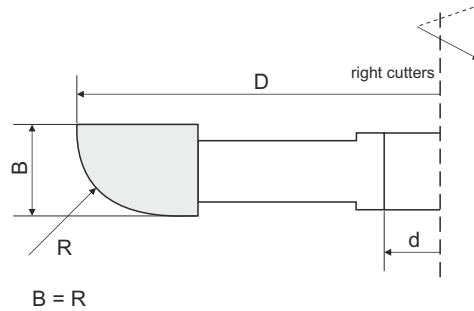
- milling of wood and wood-based products
- intended for spindle molders

mm	mm	mm	o	mm
f 120 - f 180	f 20 - f 50	30 - 100	45	2 - 6

In addition to the items directory tools made to individual order. The term of up to two weeks.

Bevel HS/HW cutter – right- or left-handed

3010



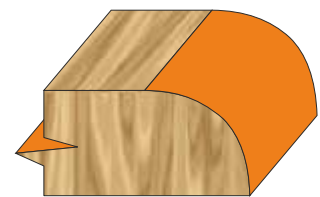
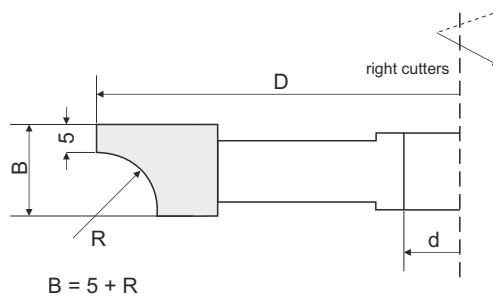
Description of products:

- milling of wood and wood-based products
- intended for spindle molders

			z - number of teeth
mm	mm	mm	szt.
f 100 - f 180	f 20 - f 50	5 - 60	4 - 6

Profile HS/HW cutter – right- or left-handed

3011



Description of products:

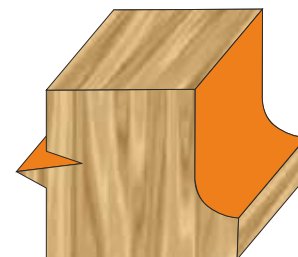
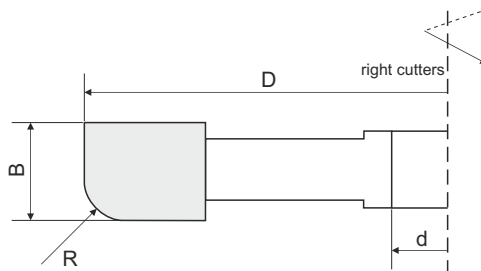
- milling of wood and wood-based products
- intended for spindle molders

			z - number of teeth
mm	mm	mm	szt.
f 100 - f 180	f 20 - f 50	5 - 60	4 - 6

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Profile HS/HW cutter – right- or left-handed

3020



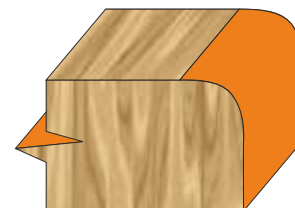
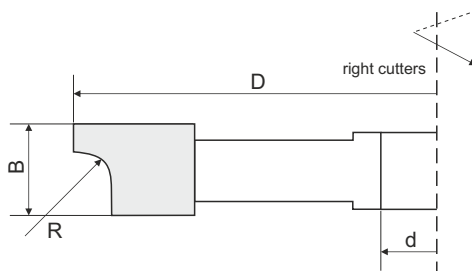
Description of products:

- milling of wood and wood-based products
- intended for spindle molders

				z - number of teeth
mm	mm	mm	mm	szt.
f 100 - f 180	f 20 - f 50	2 - 10	10 - 60	4 - 6

Profile HS/HW cutter – right- or left-handed

3021



Description of products:

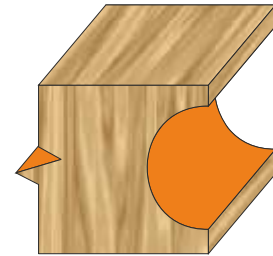
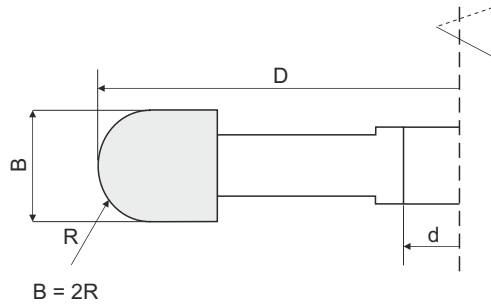
- milling of wood and wood-based products
- intended for spindle molders

				z - number of teeth
mm	mm	mm	mm	szt.
f 100 - f 180	f 20 - f 50	2 - 10	10 - 60	4 - 6

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Profile HS/HW cutter

3030



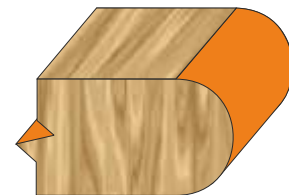
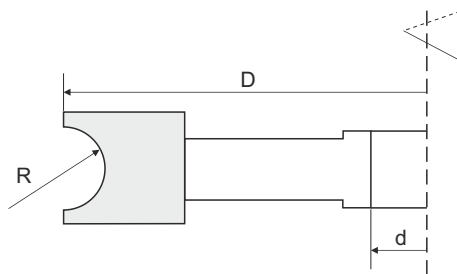
Description of products:

- milling of wood and wood-based products
- intended for spindle molders

			z - number of teeth
mm	mm	mm	szt.
f 100 - f 180	f 20 - f 50	5 - 30	4 - 6

Profile HS/HW cutter

3031



Description of products:

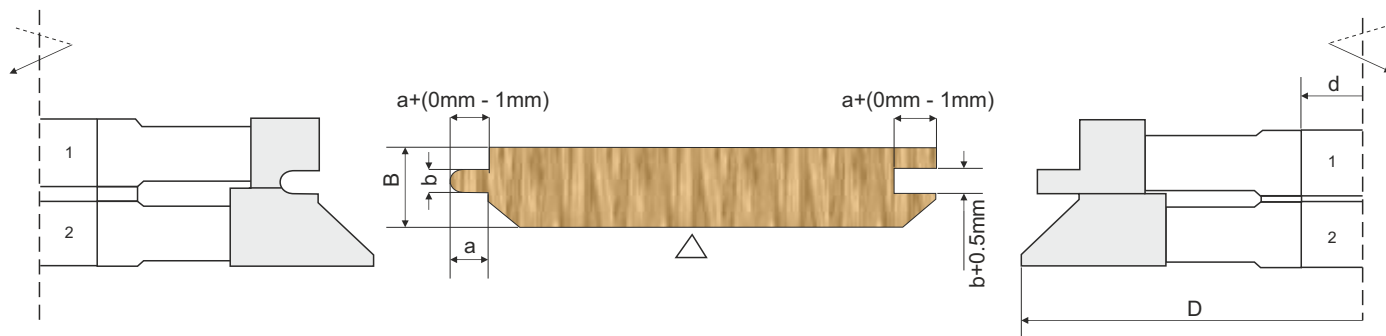
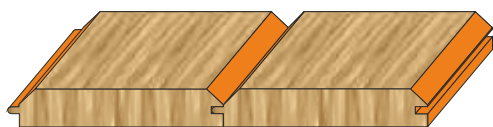
- milling of wood and wood-based products
- intended for spindle molders

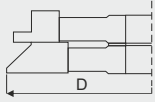
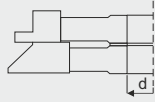
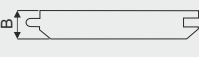
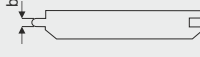
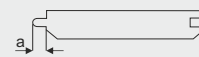
			z - number of teeth
mm	mm	mm	szt.
f 100 - f 180	f 20 - f 50	5 - 30	4 - 6

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Set of HS/HW cutters for production of wood paneling

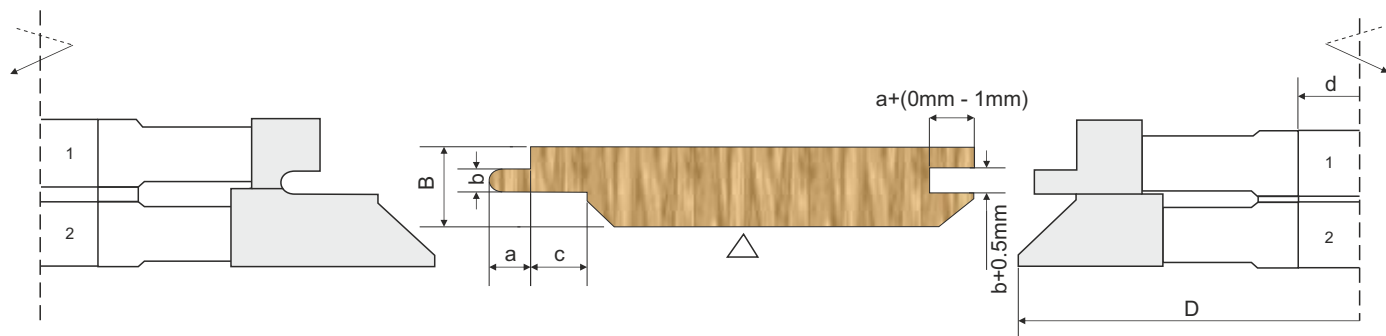
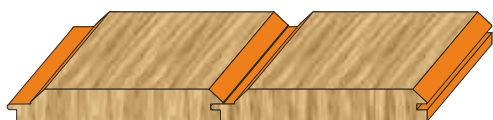
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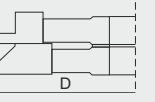
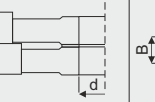


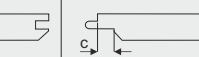
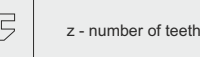


					z - number of teeth
mm	mm	mm	mm	mm	szt.
f 120 - f 180	f 20 - f 50	12 - 20	3.2 - 5	8 - 11	4 - 6

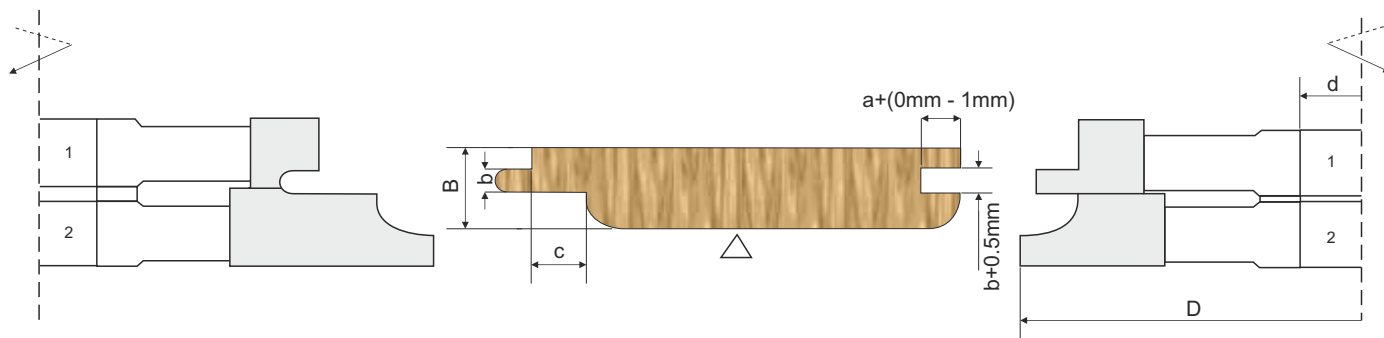
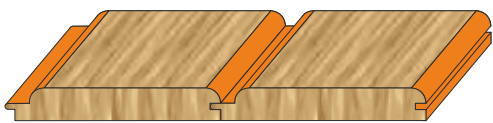
Set of HS/HW cutters for production of wood paneling

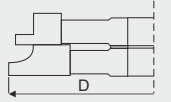
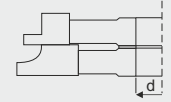
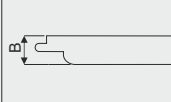
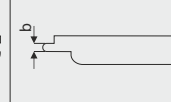
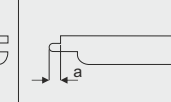
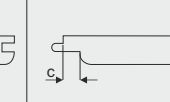
4011



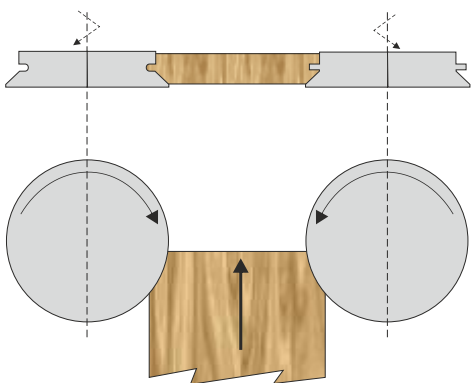
						z - number of teeth
mm	mm	mm	mm	mm	mm	szt.
f 120 - f 180	f 20 - f 50	12 - 20	3.2 - 5	8 - 11	6 - 15	4 - 6

In addition to the items directory tools made to individual order.
The term of up to two weeks.



						z - number of teeth
mm	mm	mm	mm	mm	mm	szt.
f 140 - f 180	f 20 - f 50	12 - 20	3.2 - 6	9 - 11	6 - 15	4 - 6

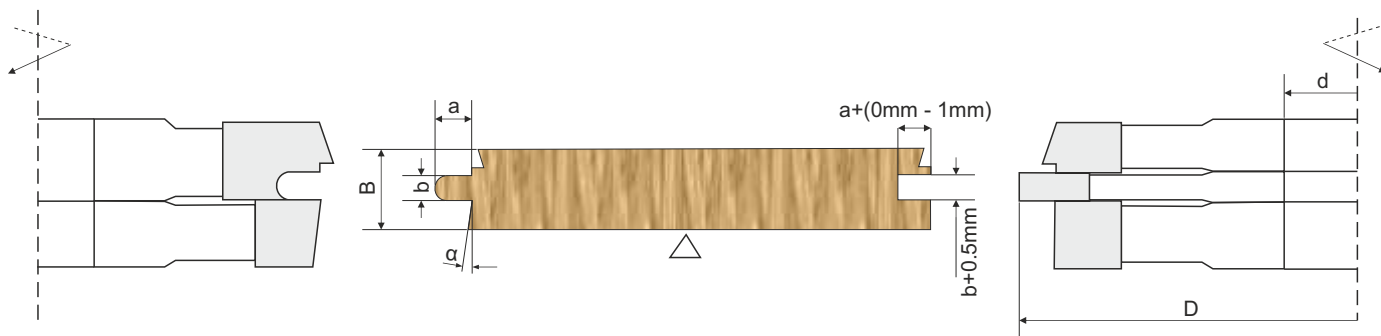
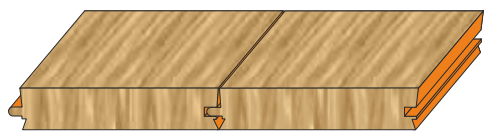
Kits for treating wooden panels are normally made on multi-spindle machine tool according to the orientation shown in the gure below.



In addition to the items directory tools made to individual order.
The term of up to two weeks.

Set of HS/HW cutters for production of wood paneling

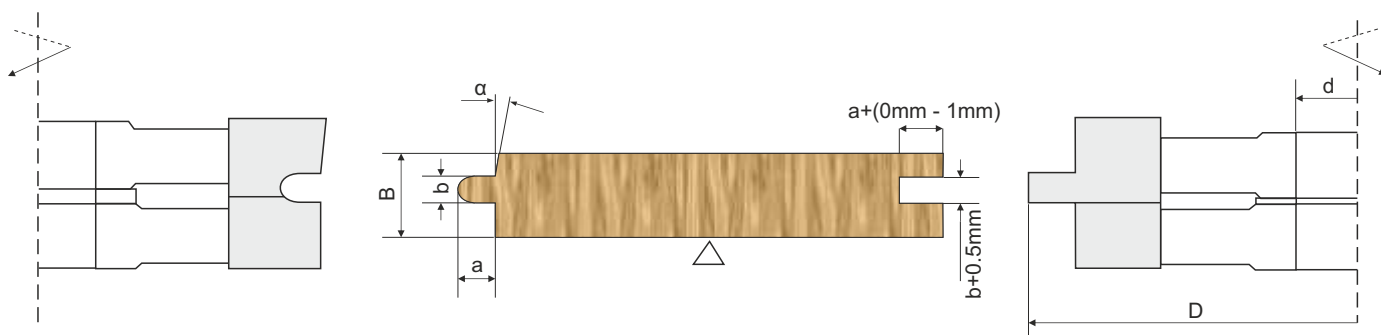
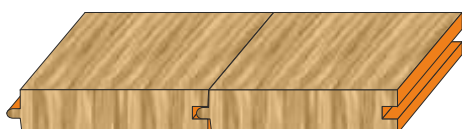
4020



						z - number of teeth
mm	mm	mm	mm	mm	o	szt.
f 120 - f 180	f 20 - f 50	20 - 22	4 - 6	6	10	4 - 6

Set of HS/HW cutters for production of parquet floors

4021

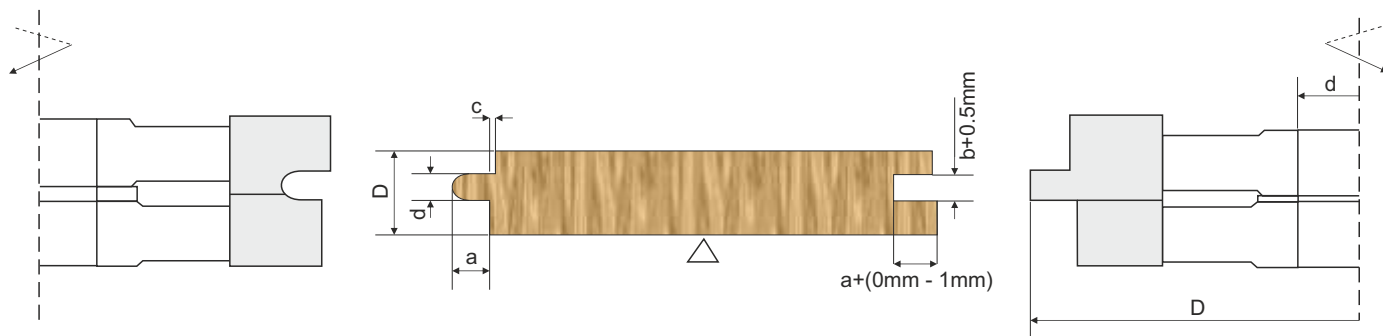
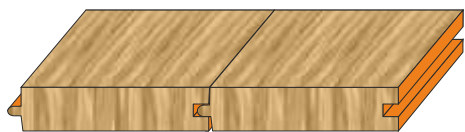


						z - number of teeth
mm	mm	mm	mm	mm	o	szt.
f 120 - f 180	f 20 - f 50	20 - 22	4 - 6	6	10	4 - 6

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Set of HS/HW cutters for production of floor boards

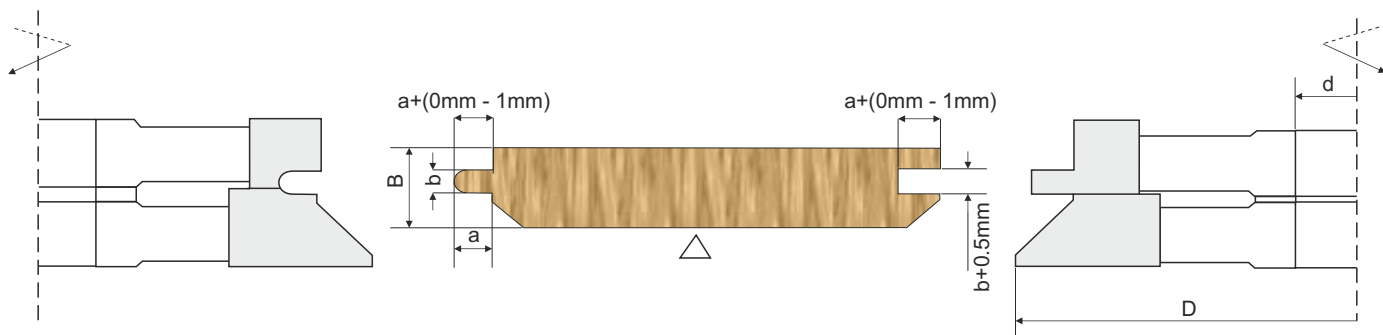
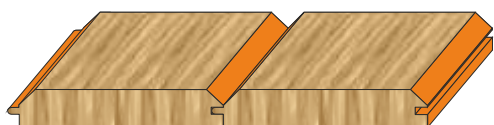
4030



						z - number of teeth
mm	mm	mm	mm	mm	mm	szt.
f 120 - f 180	f 20 - f 50	32 - 40	4 - 8	6 - 9	0.5 - 1	4 - 6

Set of HS/HW cutters for production of soffit boards

4040

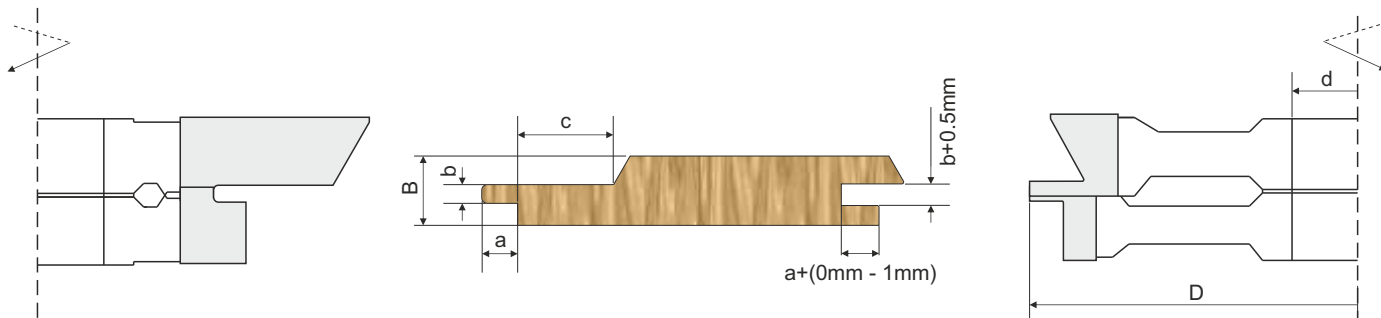
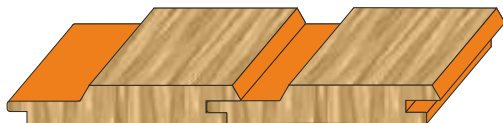


					z - number of teeth
mm	mm	mm	mm	mm	szt.
f 120 - f 180	f 20 - f 50	20 - 26	4 - 6	9 - 11	4 - 6

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Set of HS/HW cutters for production of siding boards

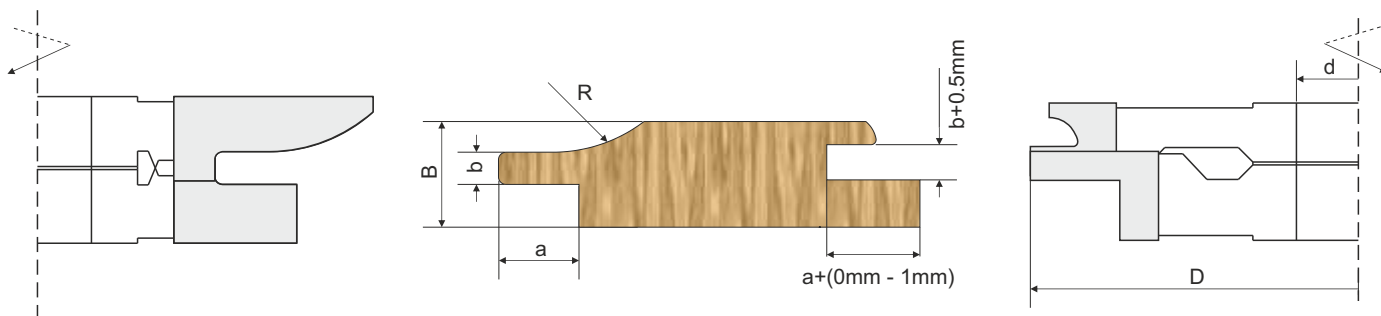
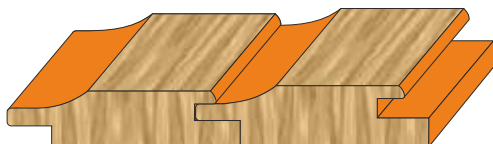
4041



mm	mm	mm	mm	mm	mm	z - number of teeth
f 120 - f 200	f 30 - f 60	15 - 27	4 - 10	8 - 14	20 - 30	4 - 6

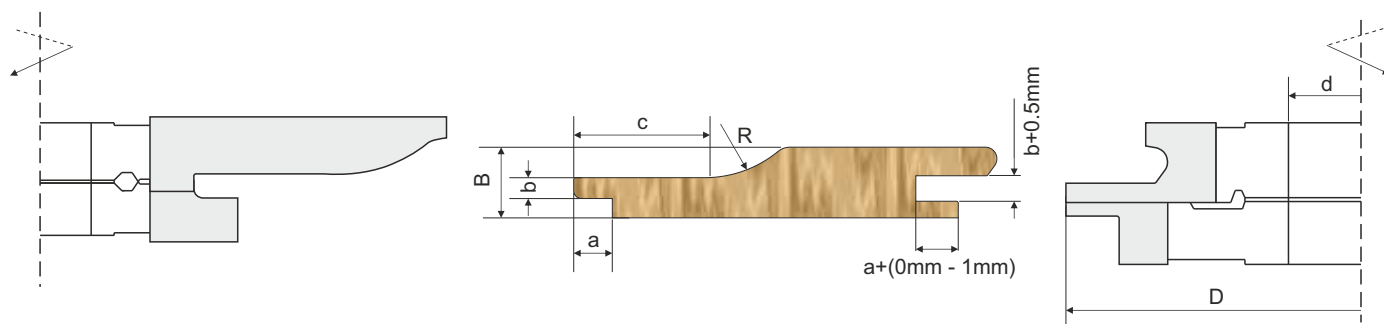
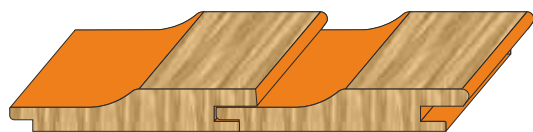
Set of HS/HW cutters for production of siding boards

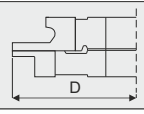
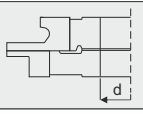
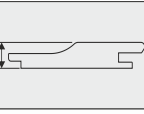
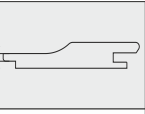
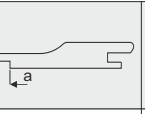
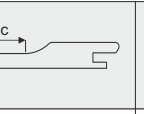
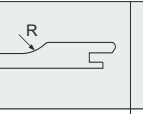
4042



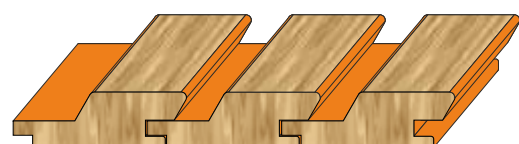
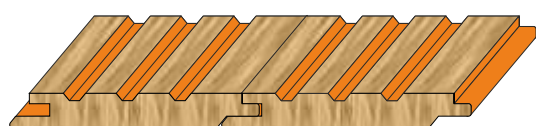
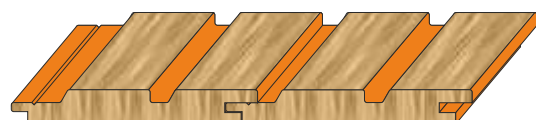
mm	mm	mm	mm	mm	mm	z - number of teeth
f 120 - f 200	f 30 - f 60	18 - 35	5 - 12	8 - 15	10 - 50	4 - 6

In addition to the items directory tools made to individual order. The term of up to two weeks.

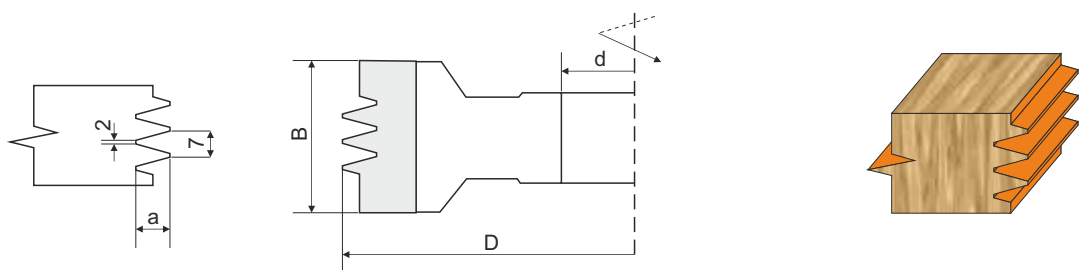


							z - number of teeth
mm	mm	mm	mm	mm	mm	mm	szt.
f 150 - f 250	f 30 - f 60	15 - 27	4 - 10	8 - 14	20 - 50	20 - 100	4 - 6

Other examples of profiles of facade boards:

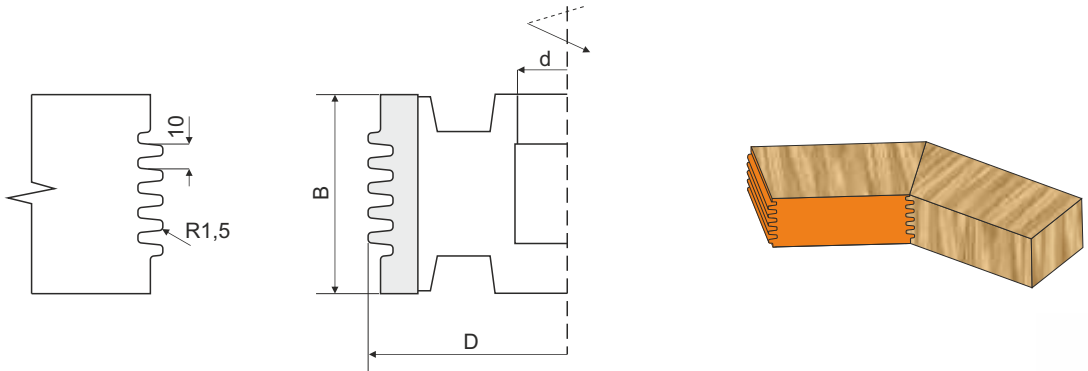
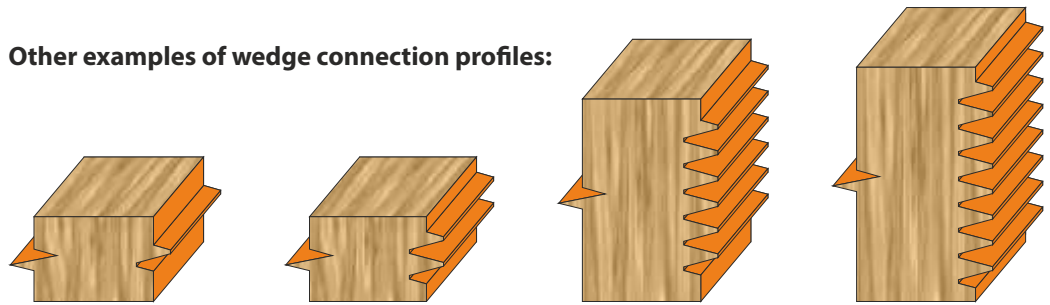


In addition to the items directory tools made to individual order.
The term of up to two weeks.

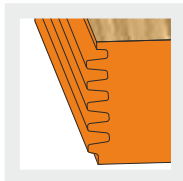


				z - number of teeth
mm	mm	mm	mm	szt.
f 120 - f 160	f 20 - f 50	20 - 60	10 - 12	4 - 6

Other examples of wedge connection profiles:



			z - number of teeth
mm	mm	mm	szt.
f 160 - f 180	f 20 - f 50	80 - 120	4 - 6

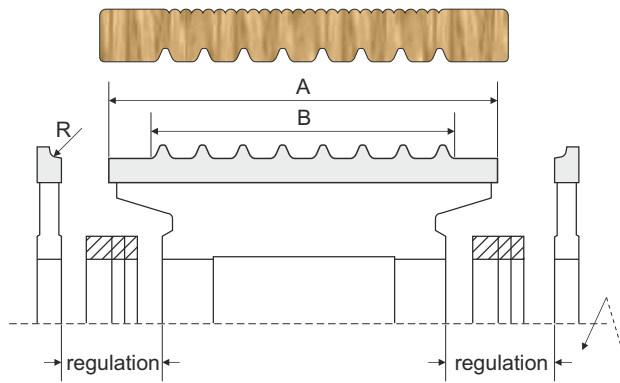
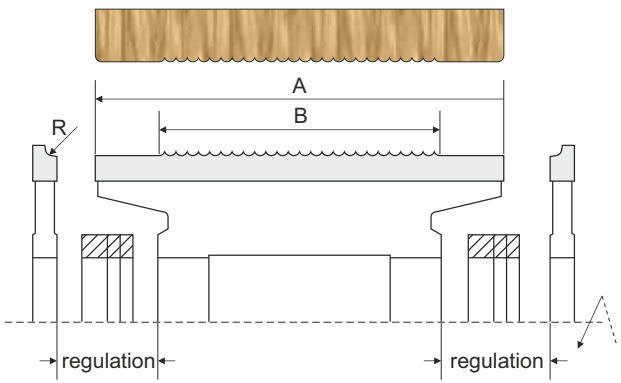


In addition to the items directory tools made to individual order. The term of up to two weeks.



right side

left side



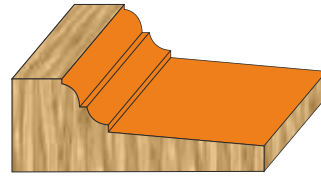
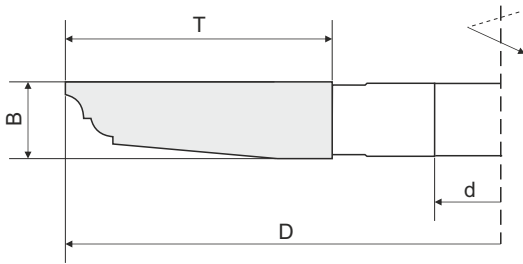
			z - number of teeth
mm	mm	mm	szt.
2 - 3	120 - 160	100	4 - 6

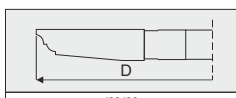
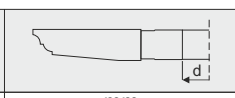
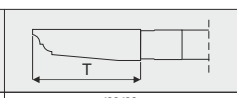
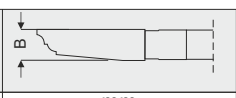
			z - number of teeth
mm	mm	mm	szt.
2 - 3	120 - 160	100	4 - 6

Other examples of profiles:

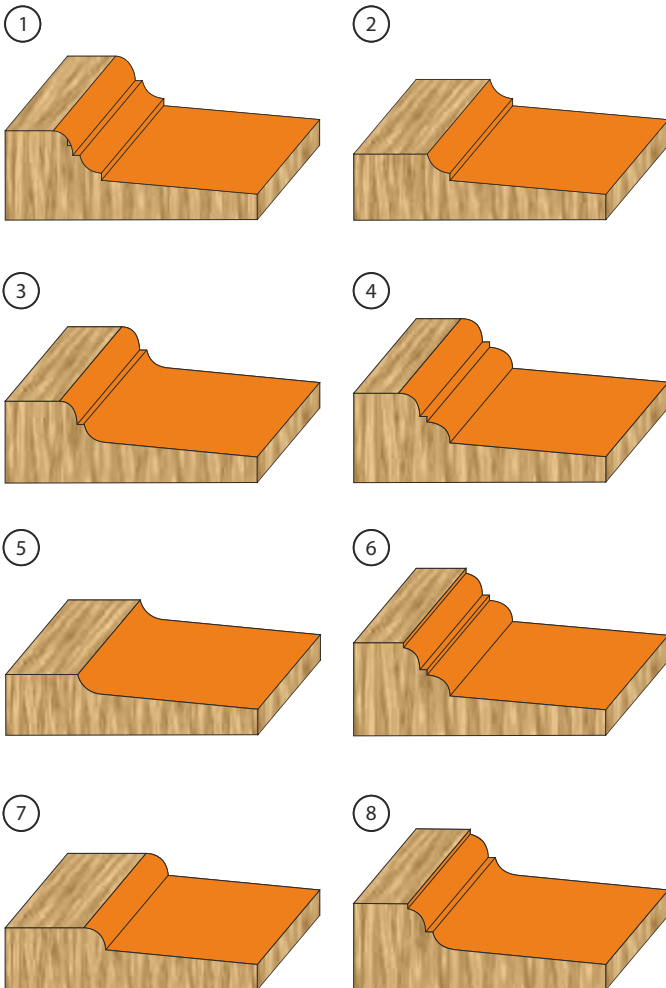


In addition to the items directory tools made to individual order.
The term of up to two weeks.

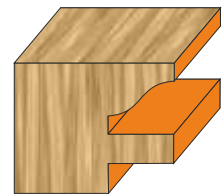
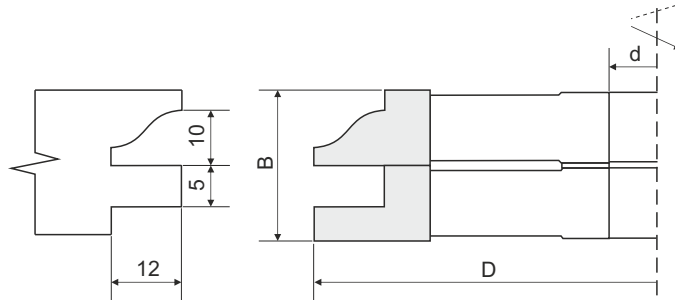
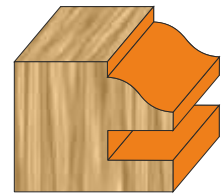
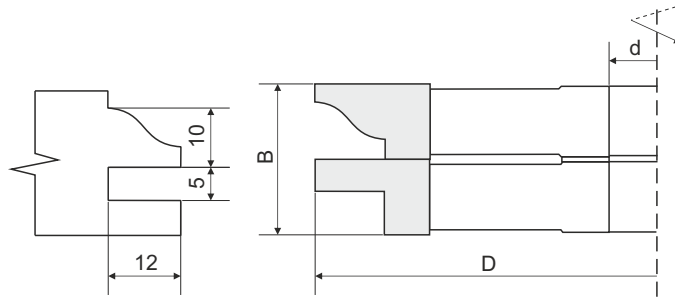


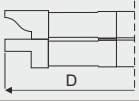
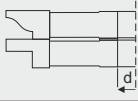
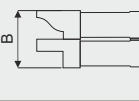
				z - number of teeth
mm	mm	mm	mm	szt.
f 180 - f 220	f 30 - f 50	30 - 70	18 - 24	3 + 3

Other examples of cutting patterns:

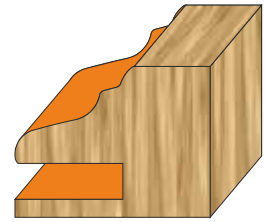
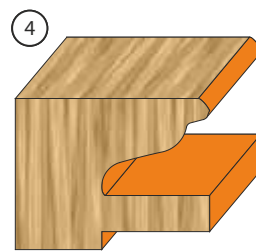
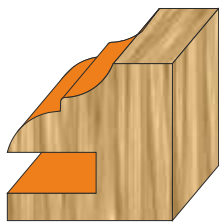
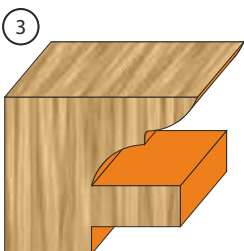
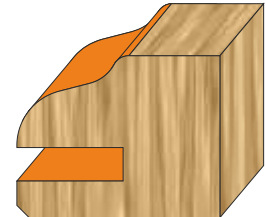
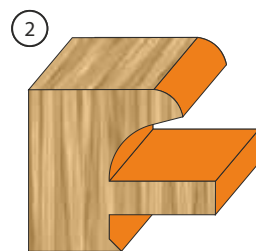
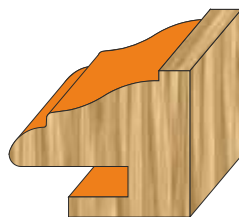
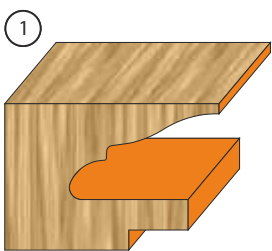


In addition to the items directory tools made to individual order.
The term of up to two weeks.



			z - number of teeth
mm	mm	mm	szt.
f 120 - f 160	f 20 - f 50	20 - 24	4 - 6

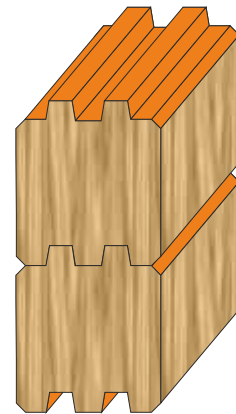
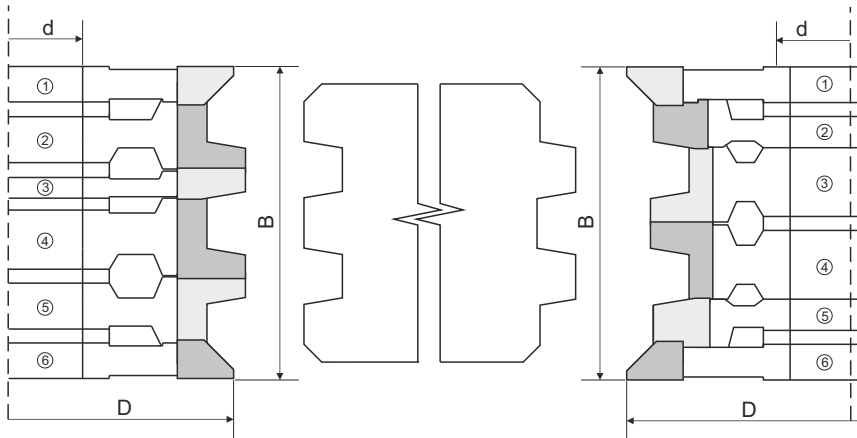
Other examples of milling patterns:



In addition to the items directory tools made to individual order.
The term of up to two weeks.

Set of HS/HW cutters for production of logs

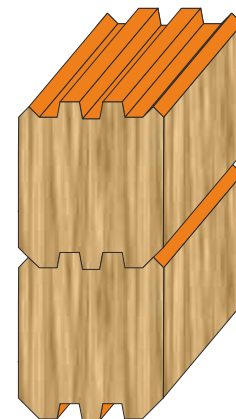
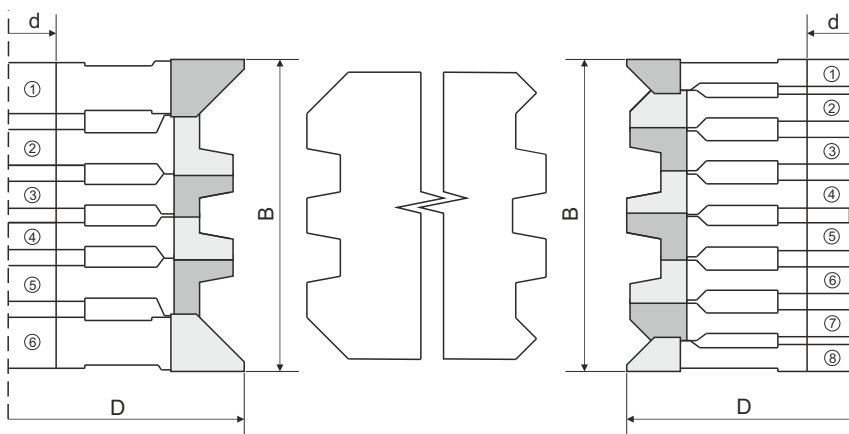
6070



			z - number of teeth
mm	mm	mm	szt.
f 140 - f 180	f 30 - f 50	60 - 100	4 - 6

Set of HS/HW cutters for production of logs

6071

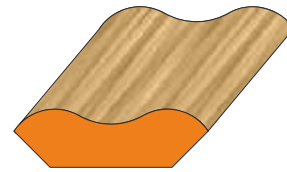
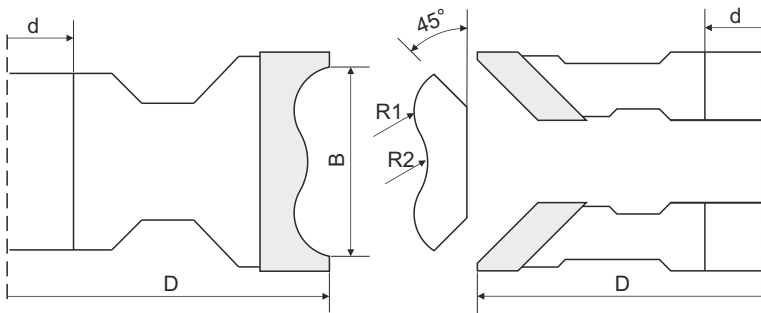


			z - number of teeth
mm	mm	mm	szt.
f 140 - f 180	f 30 - f 50	60 - 100	4 - 6

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Set of HS/HW cutters for production of mop boards

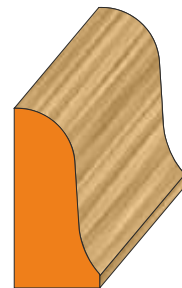
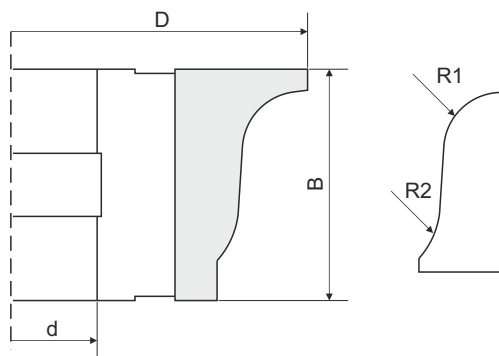
6080



					z - number of teeth
mm	mm	mm	mm	mm	szt.
f 100 - f 180	f 20 - f 60	20 - 60	3 - 10	5 - 10	4 - 6

HS/HW cutter for production of mop boards

6081



					z - number of teeth
mm	mm	mm	mm	mm	szt.
f 100 - f 180	f 20 - f 60	40 - 80	10 - 25	5 - 15	4 - 6

In addition to the items directory tools made to individual order.
The term of up to two weeks.

Circular saws

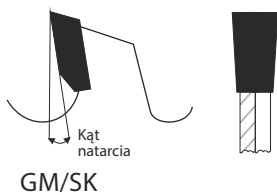


Circular saws

In addition to the items directory tools made to individual order. The term of up to two weeks.

tel.: (+48)12 276 33 51

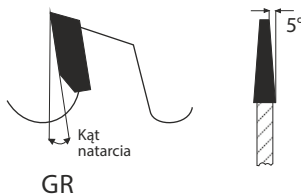
e-mail: sekretariat@frezwid.com.pl



Two-component scoring saw blades with at teeth.

Use:

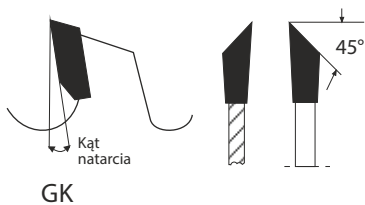
- to undercut layers of veneer, laminate or lacquer in the wood-based material boards such as chipboard, breboard, plywood, MDF or HDF.
- cooperate with the main saw by slitting the bottom layer of laminate or veneer
- preventing chipping at the edges after passing the main saw blade.



Two-component scoring saw blades with at teeth.

Use:

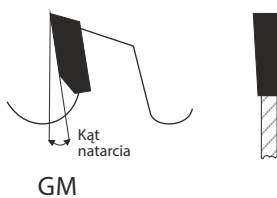
- to undercut layers of veneer, laminate or lacquer in the wood-based material boards such as chipboard, breboard, plywood, MDF or HDF.
- cooperate with the main saw by slitting the bottom layer of laminate or veneer
- preventing chipping at the edges after passing the main saw blade.



Undercut Saw -toothed conical folding .

Use:

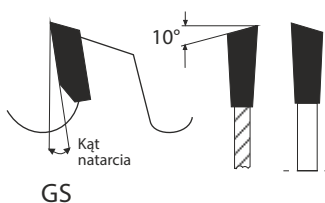
- For chamfering surface
- To undercut PVC glazing beads .



Undercut Saw -toothed conical folding .

Use:

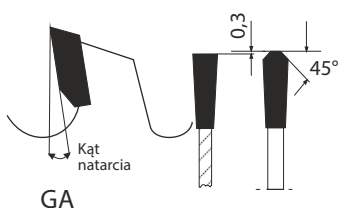
- For chamfering surface
- To undercut PVC glazing beads .



Alternate top bevel teeth saw blades (GS)

Use:

- for transverse dry and wet wood, plywood, and wood-based chipboards cutting
- for smaller quantities of teeth may be used to longitudinal cutting



Alternate top bevel teeth saw blades (GS)

Use:

- for wood-based boards cutting (chipboard, breboard, plywood, MDF, HDF)
- for veneered and laminated boards cutting.
- for PVC and aluminum cutting
- cooperate with scoring saws.

Single-component scoring saws



Lp	D	B	b	d	Angle of attack	Type teeth	z	no. catalog
1	100	3,0-4,0	2,2	20	10°	GR	20	124 D
2	125	3,0-4,0	2,6	20	10°	GR	24	125 D
3	125	3,0-4,0	2,6	20	10°	GR	36	145 D
4	150	3,0-4,0	2,8	30	10°	GR	28	121 D

Two-component scoring saws



Lp	D	B	b	d	Angle of attack	Type teeth	z	no. catalog
1	100	2,8-3,6	2,0	22	12°	GM	2x12	123 D
2	120	2,8-3,6	2,0	22	12°	GM	2x12	001 D
3	125	2,8-3,6	2,0	22	12°	GM	2x12	122 D

Angular scoring saws



Lp	D	B	b	d	Angle of attack	Type teeth	z	no. catalog
1	95-103	2,5	-	20-32	10°	GK	20-24	149 PCV
2	150	3,0	2,0	30	10°	GK	36	126 D
3	160	3,0	2,0	30	10°	GK	42	127 D

HM grooving cutters



Lp	D	B	b	d	Angle of attack	Type teeth	z	no. catalog
1	125	2,0	1,0	30	15°	GS	12	002 D
2	125	2,5	1,5	30	15°	GS	12	003 D
3	125	3,0	2,0	30	15°	GS	12	004 D
4	125	3,5	2,5	30	15°	GS	12	005 D
5	125	4,0	3,0	30	15°	GS	12	006 D
6	180	5,0	4,0	30	15°	GM	12	014 D
7	180	4,0	3,0	30	15°	GM	12	021 D

D - saw diameter B - tooth width b- thickness of saw body d - spindle diameter
z - number of teeth

In addition to the items directory tools made to individual order.
The term of up to two weeks.

SAWS FOR LONGITUDINAL WOOD CUTTING – version with limited shaving thickness



Lp	D	B	b	d	Angle of attack	Type teeth	z	no. catalog
1	250	3,0	2,0	30	18°	GS	18	037 D
2	300	3,2	2,2	30	18°	GS	28	056 D
3	315	3,4	2,2	30	18°	GM	28	066 D
4	350	3,9	2,5	30	18°	GM	16	069 D
5	350	3,9	2,5	30	18°	GS	32	073 D
6	400	4,0	2,5	30	18°	GM	18	080 D
7	400	4,0	2,5	30	18°	GS	36	082 D
8	450	4,6	2,8	30	18°	GM	20	088 D
9	450	4,6	2,8	30	18°	GS	40	089 D
10	500	4,8	2,8	30	18°	GM	22	094 D
11	500	4,8	2,8	30	18°	GS	44	095 D

SAWS FOR LONGITUDINAL WOOD CUTTING – version with limited shaving thickness



Lp	D	B	b	d	Angle of attack	Type teeth	z	no. catalog
1	250	3,2	1,8	30	24°	GM	24	111 D
2	250	3,2	2,2	30	24°	GM	18	112 D
3	300	3,4	2,2	30	24°	GM	18	053 D
4	350	3,9	2,5	70	24°	GM	24	070 D
5	350	3,9	2,5	30	24°	GM	24	071 D
6	400	4,0	2,5	70	24°	GM	24	117 D
7	400	4,0	2,5	80	24°	GM	24	118 D
8	450	4,6	2,5	70	24°	GM	24	119 D
9	450	4,6	2,5	80	24°	GM	24	120 D

SAWS FOR LONGITUDINAL WOOD CUTTING – version with carbide shaving scrapers



Lp	D	B	b	d	Angle of attack	Type teeth	z	no. catalog
1	250	3,2	2,2	30-70	24°	GM/GS	16	138 D
2	300	3,4	2,2	30-70	24°	GM/GS	18	143 D
3	315	3,7	2,5	30-70	24°	GM/GS	18	139 D
4	350	3,9	2,5	30-70	24°	GM/GS	24	140 D
5	400	4,6	3,0	30-70	24°	GM/GS	24	141 D
6	450	4,8	3,2	30-70	24°	GM/GS	24	142 D

D - saw diameter B - tooth width b - thickness of saw body d - spindle diameter
z - number of teeth

In addition to the items directory tools made to individual order.
The term of up to two weeks.

SAWS FOR LONGITUDINAL WOOD CUTTING



Lp	D	B	b	d	Angle of attack	Type teeth	z	no. catalog
1	150	2,5	1,5	30	15°	GS	18	007 D
2	150	3,0	2,0	30	15°	GS	18	008 D
3	150	2,7	1,6	30	15°	GS	24	009 D
4	150	3,0	2,0	30	10°	GS	24	010 D
5	160	3,0	2,0	30	15°	GS	24	114 D
6	180	3,0	2,0	30	15°	GS	24	015 D
7	180	2,7	1,6	30	15°	GS	30	016 D
8	180	3,0	2,0	30	10°	GS	30	017 D
9	200	3,0	2,0	30	15°	GS	24	025 D
10	220	3,0	2,0	30	15°	GS	24	113 D
11	250	3,0	2,0	30	18°	GS	24	038 D
12	250	3,2	2,2	30	15°	GS	30	039 D
13	300	3,4	2,2	30	18°	GS	20	054 D
14	300	3,4	2,2	30	18°	GS	24	055 D
15	300	3,4	2,2	30	15°	GS	36	057 D
16	300	2,8	1,6	30	15°	GS	48	058 D
17	315	3,4	2,2	30	18°	GS	48	067 D
18	315	3,4	2,2	30	15°	GS	36	129 D
19	350	3,9	2,5	30	18°	GS	28	072 D
20	400	4,0	2,5	30	18°	GS	28	081 D
21	400	4,0	2,5	30	15°	GS	48	083 D
22	450	4,6	2,8	30	15°	GS	54	090 D

SAWS FOR CUTTING MDF AND HDF - Low noise version



Lp	D	B	b	d	Angle of attack	Type teeth	z	no. catalog
1	250	3,2	2,2	30	10°	GA	80	103 D
2	300	3,2	2,2	30	10°	GA	100	063 D
3	350	3,5	2,5	30	10°	GA	80	104 D
4	350	3,5	2,5	30	10°	GA	110	105 D
5	400	3,5	2,5	30	10°	GA	120	106 D

SAWS FOR TRANSVERSE WOOD, CHIPBOARD AND PLYWOOD CUTTING



Lp	D	B	b	d	Angle of attack	Type teeth	z	no. catalog
1	150	3,0	2,0	30	10°	GS	36	011 D
2	180	3,0	2,0	30	10°	GS	36	019 D
3	180	3,0	2,0	30	10°	GS	42	020 D
4	200	3,0	2,0	30	10°	GS	34	026 D
5	200	3,0	2,0	30	10°	GS	48	027 D
6	240	3,2	2,2	30	10°	GS	54	036 D
7	250	2,7	1,6	30	15°	GS	40	040 D

D - saw diameter B - tooth width b - thickness of saw body d - spindle diameter
z - number of teeth

Poza pozycjami katalogowymi wykonujemy narzędzia na indywidualne zamówienie klienta.
Termin realizacji do dwóch tygodni.

SAWS FOR TRANSVERSE WOOD, CHIPBOARD AND PLYWOOD CUTTING



Lp	D	B	b	d	Angle of attack	Type teeth	z	no. catalog
8	250	3,2	2,2	30	10°	GS	40	041 D
9	250	3,2	2,2	30	10°	GS	48	042 D
10	250	3,2	2,2	30	10°	GS	60	044 D
11	250	3,2	2,2	30	10°	GS	80	045 D
12	280	3,2	2,2	30	10°	GS	48	052 D
13	300	3,2	2,2	30	10°	GS	48	059 D
14	300	3,2	2,2	30	10°	GS	60	170 D
15	300	3,2	2,2	30	10°	GS	72	060 D
16	300	3,2	2,2	30	10°	GS	96	061 D
17	350	3,9	2,5	30	10°	GS	54	074 D
18	350	3,5	2,5	30	10°	GS	60	130 D
19	350	3,7	2,5	30	10°	GS	84	075 D
20	350	3,5	2,5	30	10°	GS	108	076 D
21	400	4,0	2,5	30	10°	GS	60	084 D
22	400	3,5	2,5	30	10°	GS	96	085 D
23	400	3,5	2,5	30	10°	GS	120	144 D
24	450	3,8	2,8	30	10°	GS	66	167 D
25	450	2,8	2,5	30	10°	GS	108	168 D
26	500	5,0	3,2	30	18°	GS	60	096 D
27	500	4,6	2,8	30	10°	GS	72	169 D

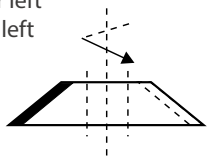
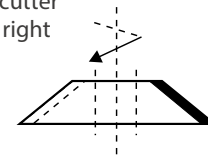
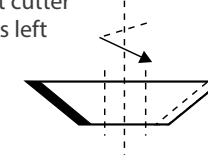
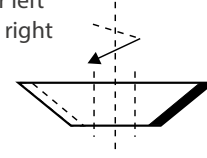
SAWS FOR CHIPBOARD WOOD-BASED, MDF AND HDF BOARDS



Lp	D	B	b	d	Angle of attack	Type teeth	z	no. catalog
1	150	2,6	1,6	30	5°	GA	60	012 MDF
2	180	2,6	1,6	30	10°	GA	58	023 MDF
3	180	3,0	2,0	30	10°	GA	58	024 MDF
4	180	3,0	2,0	30	10°	GA	58	024 MDF
5	200	2,6	1,6	30	5°	GA	80	030 MDF
6	220	3,2	2,2	30	10°	GA	64	034 MDF
7	225	2,6	1,6	30	5°	GA	80	146 MDF
8	250	3,2	2,2	30	10°	GA	60	044 MDF
9	250	3,2	2,2	30	10°	GA	80	045 MDF
10	250	3,2	2,2	30	5°	GA	100	047 MDF
11	275	3,6	2,6	40	5°	GA	72	050 MDF
12	300	3,2	2,2	30	10°	GA	96	061 MDF
13	300	3,2	2,2	30	5°	GA	120	064 MDF
14	330	3,6	2,6	30	5°	GA	102	068 MDF
15	350	3,5	2,5	30	10°	GA	84	075 MDF
16	350	3,5	2,5	30	10°	GA	108	076 MDF
17	400	3,5	2,5	30	10°	GA	96	085 MDF
18	400	4,2	3,2	30	5°	GA	96	086 MDF
19	400	3,4	2,5	30	10°	GA	120	144 MDF
20	450	4,2	3,2	30	5°	GA	108	092 MDF

D - saw diameter B - tooth width b - thickness of saw body d - spindle diameter
z - number of teeth NL - spacing of collector holes

Poza pozycjami katalogowymi wykonujemy narzędzia na indywidualne zamówienie klienta.
Termin realizacji do dwóch tygodni.

Tool catalog number :			* Delete as appropriate
TYPE OF TOOLS * - Layering cutter - Shank cutter - cutter - saw	OUTER DIAMETER * min / basic/ max D =mm	CZĘŚĆ CHWYTOWA * - hole..... - cylindrical..... - conic..... with left/right, internal/external thread	TYPE OF BLADES * - Solder - Replacement - tool uniform
Type workpiece	Material blade* HSS / HM / DP	NUMBER OF BLADES z =	MATERIAŁ KORPUSU* steel / aluminium
TYPE OF MILLING MACHINE * moulder / three- / Four / Router TYPE OF FEED ON THE MACHINE (milling) * manual / machine		Quantity * - pieces / sets	TYPE gearing (It refers to circular saws)
OPERATING SYSTEM TOOLS (please tick the appropriate position):			
cutter left turns left <input type="checkbox"/> 	right cutter turns right <input type="checkbox"/> 	right cutter turns left <input type="checkbox"/> 	cutter left turns right <input type="checkbox"/> 
THE WORKPIECE MODEL IN ATTACHMENT:		YES <input type="checkbox"/>	NO <input type="checkbox"/>
sketches and notes:			
terms of delivery:		agreed price:	
payment deadline:		deadline:	
contracting - the company: ADDRESS: TEL / FAX:			date / signature