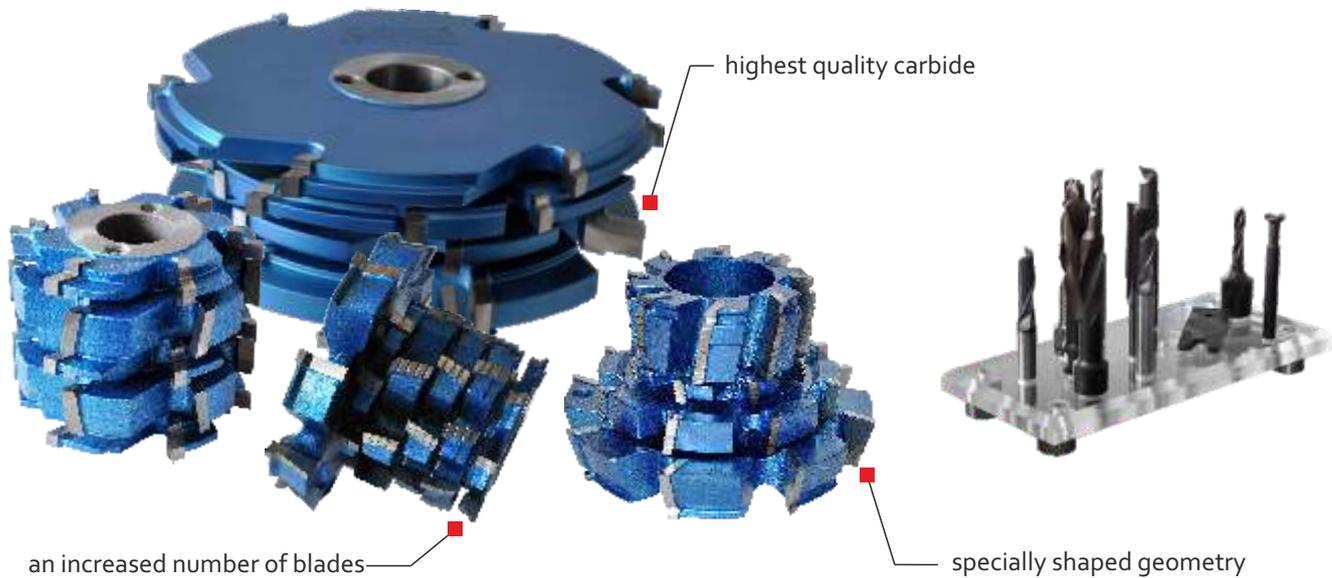


PremiumLine tools

In order to address the demand in the market, Frezwid has introduced new PremiumLINE tools for production of PVC windows. Our many years of experience have enabled us to develop tools that improve the quality of processing and reduce the time of milling of window profiles. In our work on the new milling cutters we focused on enabling the easiest and the quickest milling and achieving milling surface of the best quality.



To achieve our objectives, we make the PremiumLINE cutters with specially selected, best quality widia supplied by the best certified manufacturers. The heads for face milling of posts have specially shaped geometry and a larger number of blades, which prevents breaking of the profile during milling.

Cutters for cleaning of corners also have more edges and are made in the same technology as the cutters for posts. The use of the same design solutions as in the cutters for posts makes it possible to avoid ripping of corners and to increase the speed of movement, as well as to extend the time intervals between required sharpening. This clearly improves the quality and reduces the process of milling of corners

PremiumLine support blocks, templates, and guides

The PremiumLINE tool series includes welding support blocks, guides for cutting glazing beads, drilling templates, and saw guides. They are made from the best aluminium alloys and are additionally surface hardened.

The components of the support blocks, such as knives limiting seals and fixing elements, as well as elements of cutting guides that are particularly exposed to abrasion, are made from hardened zinc-coated steel. This prevents soling the profile by the aluminium parts and the improved abrasion resistance enables longer use of the tools.

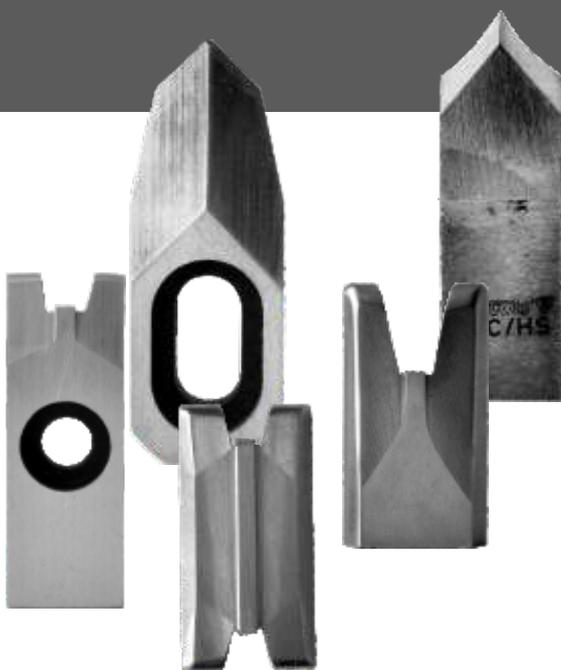


Corner cleaning cutters



These cutters are intended for cleaning welded window corners to remove excess material. The two basic types are cutters for frames and cutters for sashes. The blades are made from carbides specially selected for milling of PVC. We use carbides from the best global suppliers only.

Knives for flash cutting



We make knives for removing flash intended for most machines offered in the market. They are made from high quality steel hardened as appropriate for PVC processing. Upon the customer's request, we can make knives in accordance with samples or drawings provided by the customer.

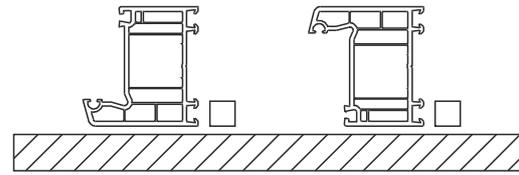
▶ Profile system:		
Profile number		

Profile with gasket
 Profile without gasket

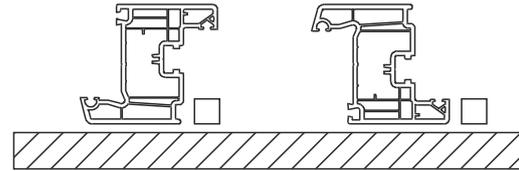
▶ Corner cleaner	
Manufacturer:	
Type:	
Year of construction:	
Machine No. :	

▶ Milling parameters	
Hole diameter Φ_w [mm]	
Min. cutter diameter Φ_b [mm]	
Max. possible cutter diameter [mm]	
Keyway	YES <input type="checkbox"/> NO <input type="checkbox"/>
Quick change sleeve	Inner diameter [mm]
YES <input type="checkbox"/> NO <input type="checkbox"/>	Outer diameter [mm]
Reducer sleeve	Length [mm]
YES <input type="checkbox"/> NO <input type="checkbox"/>	

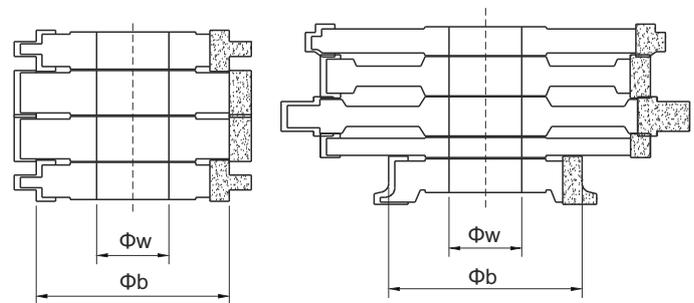
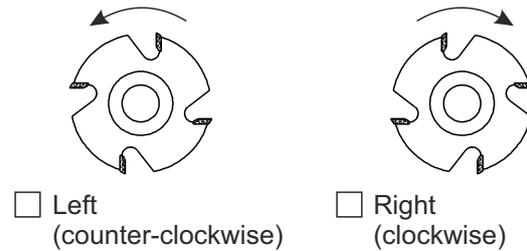
▶ Profile supporting side frame



▶ Profile supporting side sash



▶ Direction of rotation (viewed from above)



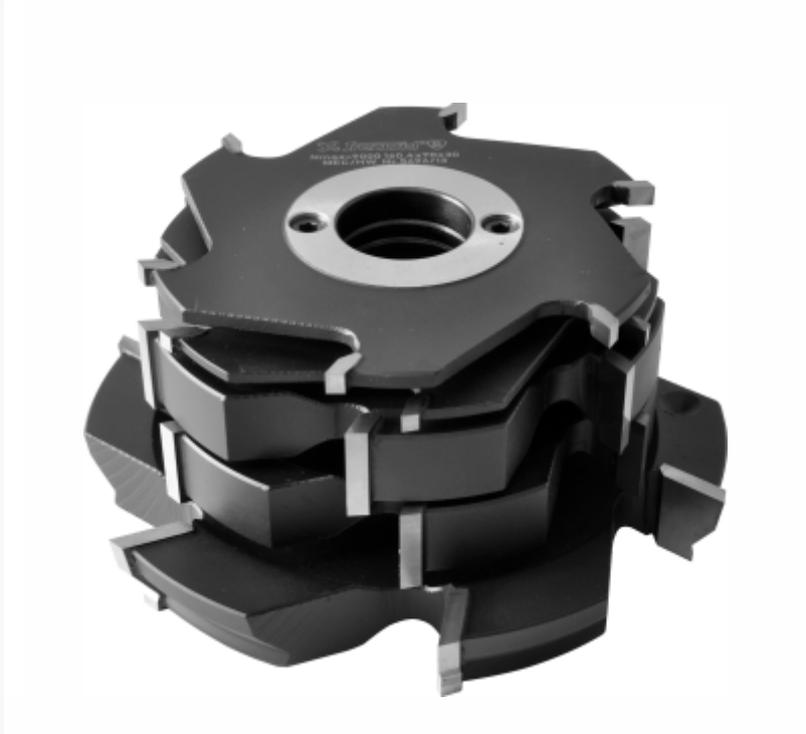
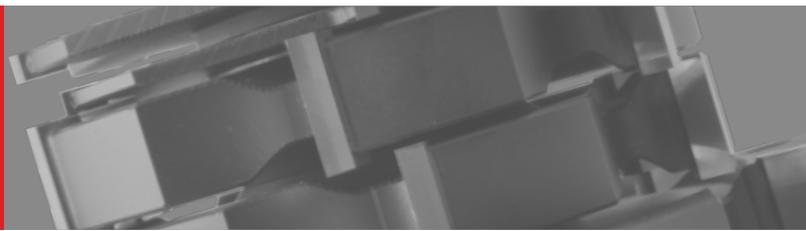
Note:

Company:		DATA/SIGNATURE
Address:		
Phone No.:		
E-mail:		

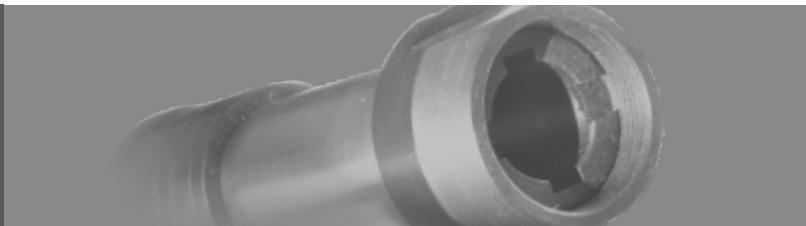
Cutters for milling posts



Cutters for milling surfaces of posts are made in accordance with guidelines of window profile manufacturers. They enable proper connection of posts when using commercial connectors. Upon the customer's request, we also make cutters that enable alternative post connection methods, other than commercial ones.



Mounting accessories

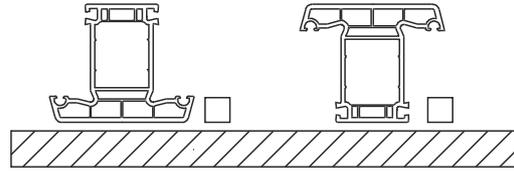


We manufacture a full range of accessories for mounting and positioning of cutters and resistance to welders. In our offer are: reduction rings, bushing electrical fast, spacers for cutters, fasteners for all types of welding, positionings screws etc. On request, we are able to perform unusual accessories according to supplied designs or drawings.



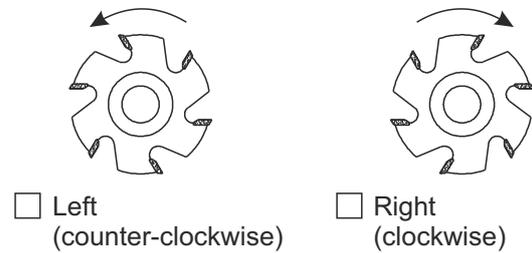
▶ Profile system:	
Profile number	

▶ Profile supporting side

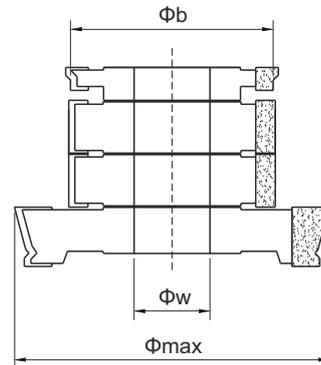


▶ End milling machine	
Manufacturer:	
Type:	
Year of construction:	
Machine No. :	

▶ Direction of rotation (viewed from above)



▶ Cutter specification	
Hole diameter Φ_w [mm]	
Min. cutter diameter Φ_b [mm]	
Max. cutter diameter Φ_{max} [mm]	
Max. possible cutter diameter [mm]	
Quick change sleeve	Inner diameter [mm]
YES <input type="checkbox"/> NO <input type="checkbox"/>	
Reducer sleeve	Outer diameter [mm]
YES <input type="checkbox"/> NO <input type="checkbox"/>	Length [mm]

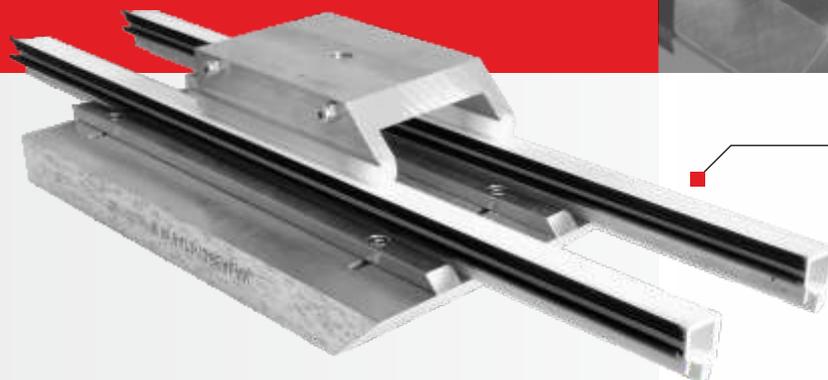


Note:

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Company:		DATA/SIGNATURE
Address:		
Phone No.:		
E-mail:		

Glazing bead cutting guides



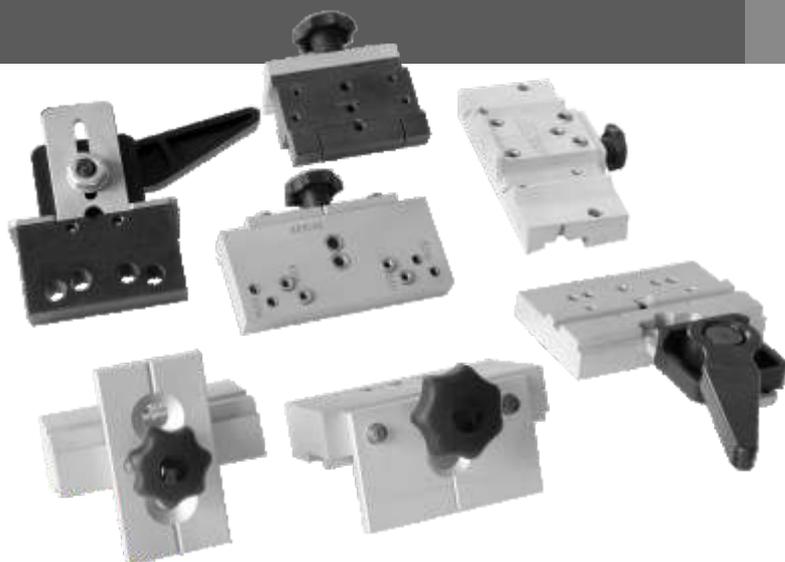
Sample guide for cutting glazing beads.

Guides for cutting glazing beads are made from durable aluminium alloys or, upon the customer's request, from steel. The guides ensure proper positioning of the bead during cutting, which results in their proper assembly in the corner of the window. The basic method of stabilization of beads in the guides during cutting is pressure from the top; however, upon the customer's request, we can make guides that hold the beads with bottom fasteners

The guide with clamping springs for cutting glazing beads



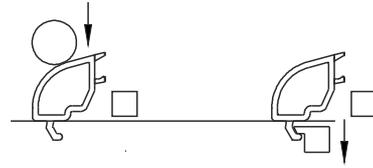
Drilling templates



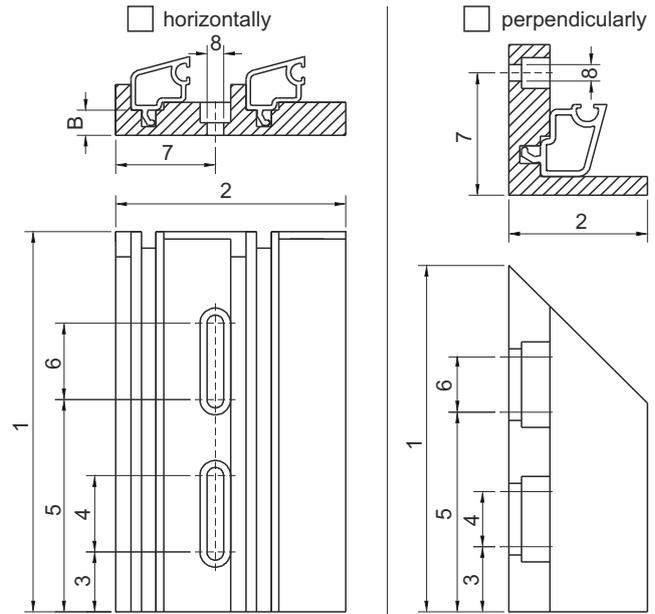
Drilling templates are used for making holes that enable proper connection of the posts or other assembly holes which require precise positioning. Our offer includes templates for a majority of systems existing in the market, which enable fastening of the posts using commercial systems. Upon the customer's request, we can make templates for alternative connection methods.

▶ Profile system:	
Profile number	

▶ Glazing bead fixing mode



▶ Sawing method



▶ Glazing bead saw	
Manufacturer:	
Type:	
Year of construction:	
Machine No. :	

▶ Mounting type	
screws	
pins	
insert	
other	
without	

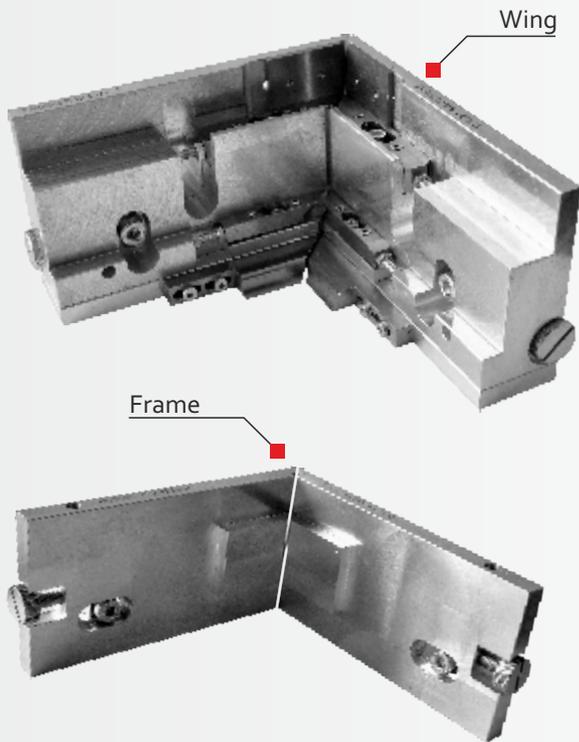
▶ Dimensions [mm]

B	3	6
1	4	7
2	5	8

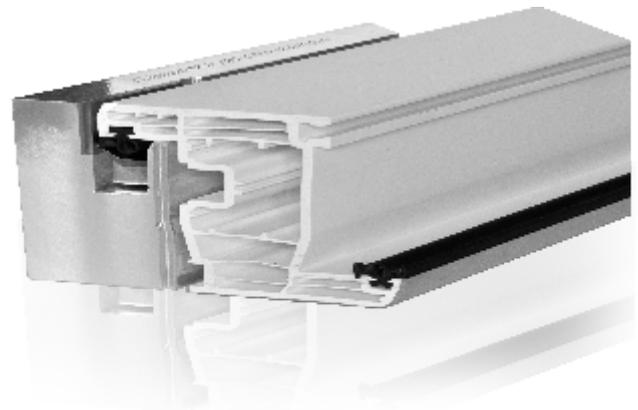
Note:

Company:		DATA/SIGNATURE
Address:		
Phone No.:		
E-mail:		

Welding support blocks



We make welding support blocks for all types of welding machines. In the case of non-standard or new formats, the orders can be fulfilled based on documentation provided by the customer or prepared in our design office.



We make the support blocks from durable aluminium alloys. Support blocks for profiles with welded seals are provided with seal forming knives that are made of stainless steel of improved hardness. Upon the customer's request, we can provide the support blocks with additional knives for 0.2 mm flash forming.

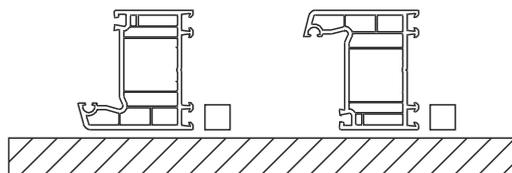


▶ Profile system :	
profile numbers	

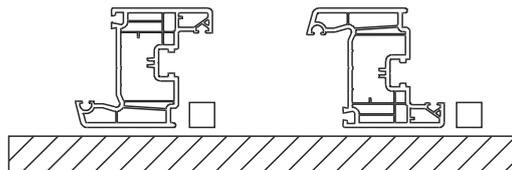
Profile with gasket
 Profile without gasket

▶ Welding machine	
Manufacturer:	
Type:	
Year of construction:	
Machine No. :	

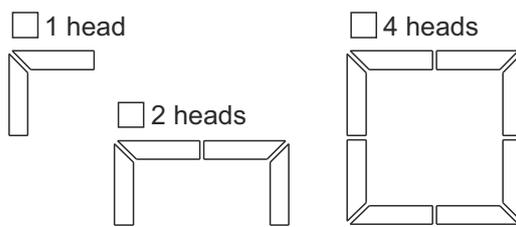
▶ Profile supporting side frame



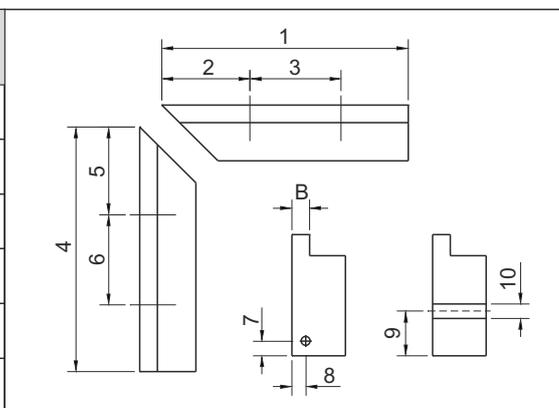
▶ Profile supporting side sash



▶ Welding machine type



▶ Mounting type		▶ Dimensions[mm]	
magnets		1	7
T-slots nuts		2	8
screws		3	9
particular		4	10
without		5	B
Other		6	



Note:

Company:		DATA/SIGNATURE
Address:		
Phone No.:		
E-mail:		

Saw supports



Supports for cutting profiles enable achieving proper dimensions in the process of cutting frame and sash profiles. They are made from aluminium alloys that are resistant to abrasion, which guarantees their long lifetime.

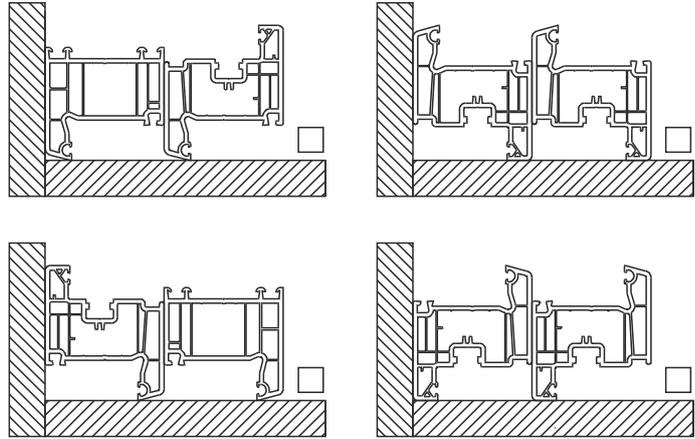
Cutters for aluminium

Cutters for milling surfaces of aluminium posts are made in accordance with guidelines of window profile manufacturers. We also manufacture cutters for milling other aluminium profiles, e.g. ALUCOBOND. Upon the customer's request, we can make tools according to samples and drawings provided by the customer.



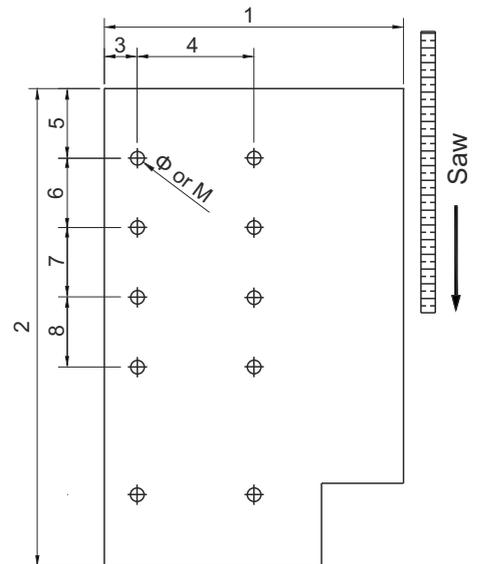
▶ Profile system :	
Profile numbers	

▶ Profile position on the table saw



▶ Glazing bead saw	
Manufacturer:	
Type:	
Year of construction:	
Machine No. :	

▶ Right table drawing



▶ Mounting type	
screws	
pins	
magnets	
other	
other	

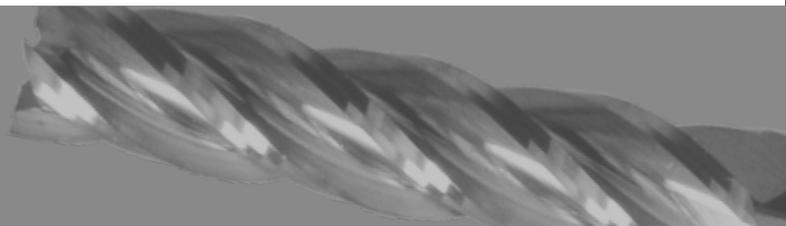
▶ Dimensions[mm]		
1		6
2		7
3		8
4		Φ
5		M

Note:

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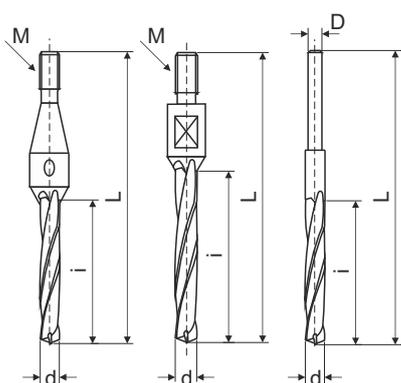
Company:		DATA/SIGNATURE
Address:		
Phone No.:		
E-mail:		

Finger drills and cutters for PVC and aluminium



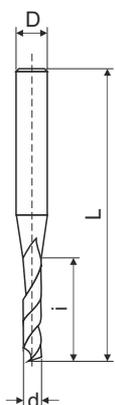
We make finger drills and cutters for PVC and aluminium for all types of machines. In the case of non-standard models, we design and make tools based on our own or provided designs.

Drill Bit Set (3 pcs.), Made of HSS



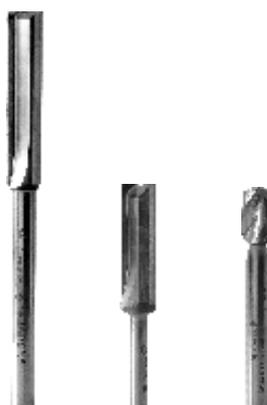
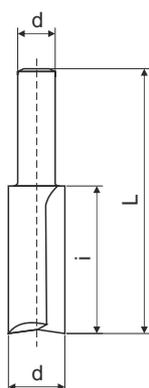
L - total length
i - the length of the working part
d - diameter of working part
M - kind of thread

Monolithic end mills for drainage (one, two, three or czteropiórowe) made from HSS steel or carbide HW.



L - total length
i - the length of the working part
d - diameter of working part
D - diameter of the shank

Monolithic under double door bolt cutters made of HSS steel or carbide HW.



L - total length
i - the length of the working part
d - diameter of working part
D - diameter of the shank

▶ I order the following tools for processing of PVC profiles:

--

▶ Knives for burrs: (please sketch blades)

▶ clining machine type

--	--

▶ Mills trailer for drainage

Diameter of the working part ΦD [mm]	one feather <input type="checkbox"/>	
Diameter of the shank Φd [mm]	two feather <input type="checkbox"/>	
Diameter of the working part i [mm]	torsion <input type="checkbox"/>	
Total length L [mm]	simply <input type="checkbox"/>	

▶ The double door bolt cutters

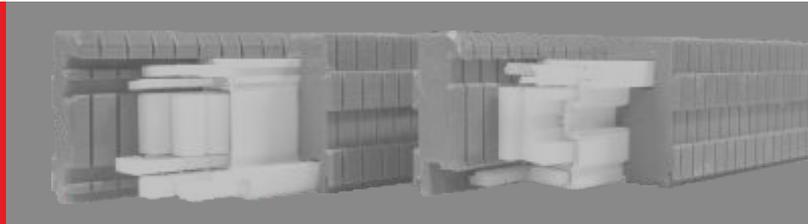
Diameter of the working part ΦD [mm]	
Diameter of the shank Φd [mm]	
Diameter of the working part i [mm]	
Total length L [mm]	

▶ Zestaw wiertel pod klamki

The diameter of the shank thread or Φd [mm]	M				
The length of the working part i [mm]					
total length L [mm]					
Please select the diameter of the working part ΦD , and to what system they work drill :					
right	left	right	left	right	left
8 - 12 - 8	<input type="checkbox"/>	8 - 12 - 8	<input type="checkbox"/>	8 - 12 - 8	<input type="checkbox"/>
10 - 12 - 10	<input type="checkbox"/>	10 - 12 - 10	<input type="checkbox"/>	10 - 12 - 10	<input type="checkbox"/>
12 - 12 - 12	<input type="checkbox"/>	12 - 12 - 12	<input type="checkbox"/>	12 - 12 - 12	<input type="checkbox"/>
10 - 14 - 10	<input type="checkbox"/>	10 - 14 - 10	<input type="checkbox"/>	10 - 14 - 10	<input type="checkbox"/>
.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
drill with remote control <input type="checkbox"/> YES <input type="checkbox"/> NO					

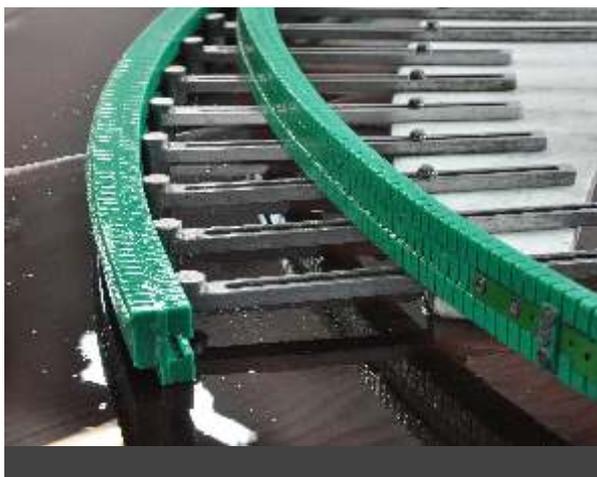
Company Address: Phone No.: E-mail:		DATA/SIGNATURE
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PVC window profile bending technique



Guides for bending PVC profiles

Filling System PVC profiles



Z.P.H. Frezwid Sp. j. makes tools for bending PVC window profiles.

- we make tools for all window systems;
- our tools work on tables of all well-known manufacturers of bending equipment;
- we use materials for glycerine and hot air heating devices;
- we make special tools for non-standard PVC profiles (also for other industries than the window industry);
- tool configuration: guides - 3 m long; inner chamber filling - 4 m. long.

We can make tools for each device and for each profile.

Circular saws for cutting PVC and aluminum



saw to cut PVC



Lp	D	B	b	d	angle of attack	type teeth	z	catalog number
1	180	2,2	1,6	30	10°	GA	58	023 PCV
2	180	2,6	2,0	30	10°	GA	58	024 PCV
3	200	2,6	2,0	30	10°	GA	64	028 PCV
4	220	2,8	2,2	30	10°	GA	64	034 PCV
5	250	2,8	2,2	30	10°	GA	80	045 PCV
6	300	2,8	2,2	30	10°	GA	96	061 PCV
7	350	3,1	2,5	30	10°	GA	108	076 PCV
8	400	3,1	2,5	30	10°	GA	96	085 PCV
9	400	3,1	2,5	30	10°	GA	120	144 PCV

Пилы для резки ПВХ и алюминия



Lp	D	B	b	d	angle of attack	type teeth	z	catalog number
1	150	2,2	1,6	30	5°	GA	60	012 PCV
2	180	2,6	2,0	30	-5° neg	GA	48	022 PCV
3	200	2,8	2,2	30	-6° neg	GA	64	029 PCV
4	200	2,2	1,6	30	5°	GA	80	030 PCV
5	210	2,6	2,0	30	-5° neg	GA	54	031 PCV
6	216	2,8	2,2	30	-6° neg	GA	64	032 PCV
7	225	2,2	1,6	30	5°	GA	80	146 PCV
8	230	2,6	2,0	30	-5° neg	GA	64	035 PCV
9	250	3,0	2,4	30	-5° neg	GA	80	046 PCV
10	250	2,8	2,2	30	5°	GA	100	047 PCV
11	250	3,2	2,6	30	-6° neg	GA	100	048 PCV
12	300	3,2	2,6	30	-6° neg	GA	96	062 PCV
13	300	2,8	2,2	30	5°	GA	120	064 PCV
14	330	3,2	2,6	30	5°	GA	102	068 PCV
15	350	3,2	2,6	30	-6° neg	GA	108	077 PCV
16	380	3,4	2,8	30	-6° neg	GA	110	079 PCV
17	400	3,8	3,2	30	5°	GA	96	086 PCV
18	400	3,8	3,2	30	-6° neg	GA	120	087 PCV
19	420	4,2	3,2	30	5°	GA	96	161 PCV
20	420	4,2	3,2	30	-6° neg	GA	96	162 PCV
21	450	3,8	3,2	30	5°	GA	108	092 PCV
22	450	3,8	3,2	30	-6° neg	GA	108	093 PCV
23	500	4,4	3,8	30	5°	GA	120	099 PCV
24	500	4,4	3,8	30	-6° neg	GA	120	097 PCV
25	550	4,4	3,8	30	5°	GA	132	163 PCV
26	550	4,4	3,8	30	-6° neg	GA	132	164 PCV
27	600	4,6	4,0	30	5°	GA	140	166 PCV
28	600	4,6	4,0	30	-6° neg	GA	140	165 PCV

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

Circular saws for cutting PVC and aluminum



Angular scoring saws



Lp	D	B	b	d	angle of attack	type teeth	z	catalog numer
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

SAWS FOR CUTTING MDF AND HDF - Low noise version



Lp	D	B	b	d	angle of attack	type teeth	z	catalog numer
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 CUTTING PVC and aluminum - a low-noise version



Lp	D	B	b	d	angle of attack	type teeth	z	catalog numer
1	250	3,2	2,6	30	5°	GA	80	107 AL
2	250	3,2	2,6	30	-6° neg	GA	80	108 AL
3	300	3,2	2,6	30	-6° neg	GA	100	109 AL

CUTTERS CUTTING HSS serrated steel reinforcements



Lp	D	B	d	catalog numer
1	200	2,0	32	133 S
2	225	2,5	32	134 S
3	250	2,5	32	135 S
4	275	3,0	32	136 S
5	300	3,0	32	137 S

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