

Saw Blades

for Non ferrous Metals

KANEFUSA

Sash Pro

Stable Saw Blade

Novametal Pro DIA

Kanefusa - A New Dimension of Performance



JQA-QM3710

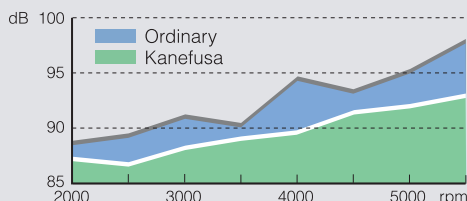


JQA-EM3137
Head Office
Factory

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[Class] [Article] [Revision]

Reliable Performance



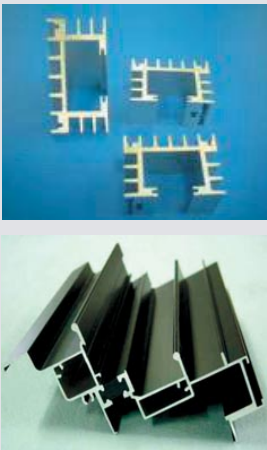

Noise comparison between a Kanefusa Sash Pro saw blade and an ordinary saw blade

1 Kanefusa uses only the very best steel for its saw blades. After heat treatment, the saw plate is very flat. Kanefusa's proprietary flattening and surface grinding processes ensure plates that are distortion free and have uniform thickness. A good plate with high rigidity is essential for straight running of the saw.

2 Kanefusa Sash Pro saw blades have polymer injected vibration damping elements incorporated into the plate (MS-P Slits). Vibration is responsible for high tone noise, which causes hardness of hearinghazard, bad performance due to structural damage to the carbide grain and a bad cutting quality because of edge chipping or a waving cut.

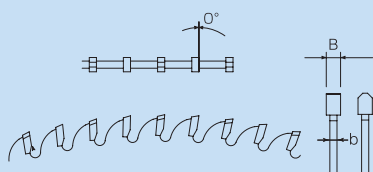
3 Special carbide, which is exclusively available to Kanefusa, was developed in cooperation with a leading carbide manufacturer. The carbide was designed for cutting non-ferrous metals such as aluminium and clearly outlasts conventional carbides.

Tooth Geometries

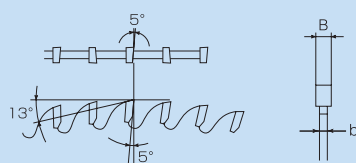
Extruded Profiles 	3DX <ul style="list-style-type: none"> Does not create high cutting forces and therefore cuts very lightly Almost no bending of the material especially when cutting thin walled material such as lamellas or radiator fins The cut quality is very consistent throughout the entire time of use Runs very straight and does not create vibration
	BC5 <ul style="list-style-type: none"> Does not create high cutting forces and therefore it cuts very light Cuts cleaner than 3DX or D Almost no bending of the material especially when cutting thin walled material such as lamellas or radiator fins When cutting thick walled material (> 4 mm) vibration can occur, the cut quality deteriorates and chipping of the cutting edge can appear
	D <ul style="list-style-type: none"> Due to symmetric tooth geometry the saw blade runs very straight Very suitable when cutting thick walled material (> 4 mm) Cut quality is inferior to BC5 and 3DX Hook angle is 5 degrees
Solids 	D <ul style="list-style-type: none"> Due to a symmetric tooth geometry the saw blade runs very straight Hook angle is 15 degrees

Sash Pro

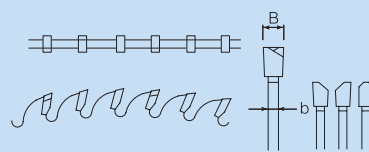
D



BC5



3DX



	Product No.	D [mm]	B [mm]	b [mm]	d [mm]	z	Pin Holes	Tooth Type	Hook Angle [°]				
1	681-B480-405	350	x	3.0	x	2.4	x	32	x	108	2/14/64	BC5	5
2	681-A630-405	400	x	3.5	x	3.0	x	30	x	120		BC5	5
3	681-B114-405	500	x	3.5	x	3.0	x	30	x	120	2/14/64	BC5	5
4	681-B482-405	530	x	4.0	x	3.4	x	30	x	140	2/14/64	BC5	5

	Product No.	D [mm]	B [mm]	b [mm]	d [mm]	z	Pin Holes	Tooth Type	Hook Angle [°]				
1	691-C432-405	215	x	2.2	x	1.6	x	30	x	60		D	-5
2	691-D207-405	250	x	3.0	x	2.4	x	32	x	80	2/11/63	D	5
3	691-B207-405	300	x	3.0	x	2.4	x	30	x	96	2/10/60+2/10.5/70	D	5
4	691-C604-405	300	x	3.0	x	2.4	x	32	x	96	2/11/63	D	5
5	691-A495-405	300	x	3.2	x	2.4	x	30	x	72	2/10/60	D	5
6	691-A792-405	300	x	3.2	x	2.4	x	30	x	96	2/12/63	D	5
7	691-D805-405	350	x	3.0	x	2.4	x	32	x	108	2/11/63	D	5
8	691-D137-405	350	x	3.0	x	2.5	x	40	x	84	2/11/63	D	5
9	691-A578-405	350	x	3.6	x	2.8	x	30	x	108	2/10/60	D	5
10	691-D428-405	352	x	3.6	x	2.8	x	30	x	108	2/10/60	D	5
11	691-A791-405	400	x	4.0	x	3.2	x	30	x	96	2/12/64	D	5
12	691-A580-405	420	x	4.0	x	3.2	x	30	x	100		D	5
13	691-C628-405	430	x	3.0	x	2.5	x	30	x	60		D	5
14	691-A551-405	450	x	4.0	x	3.2	x	30	x	108	2/12/64	D	5
15	691-D804-405	450	x	4.0	x	3.4	x	32	x	140		D	5
16	691-A925-405	500	x	4.0	x	3.4	x	30	x	120	2/10/60+2/13/70+2/12/63	D	5

Other sizes and tooth shapes are available upon request

Stable Saw Blade



KANEFUS A

Patented laser slot geometry allows reduction of plate thickness without losing lateral stability.

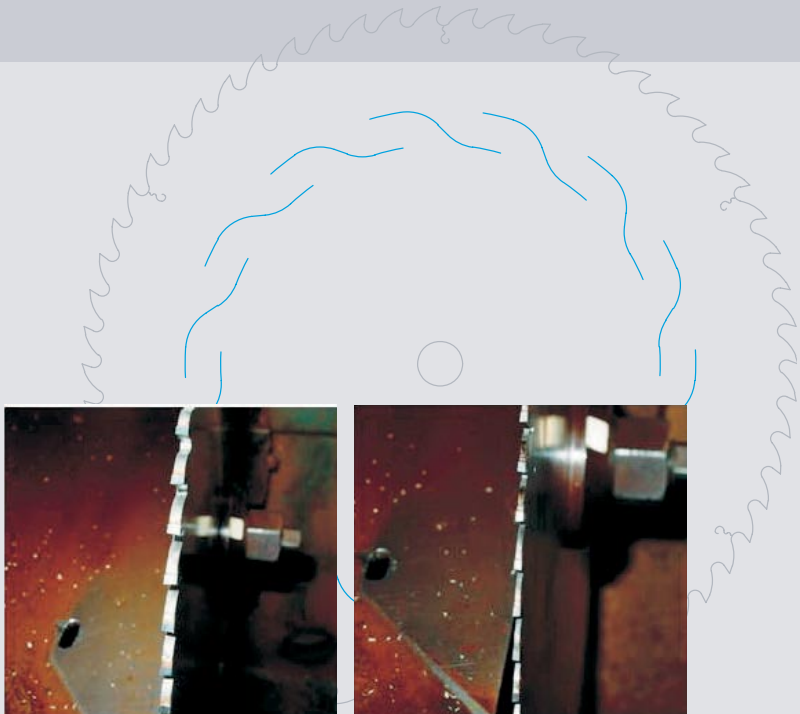


Plate thickness can be reduced by 20 % in comparison to a regular plate.



The value for the user is:

- Better material recovery rates
- Less swarf that must be recycled
- Better cut quality
- Longer saw life
- Less motor power is required
- Runs significantly quieter



Conventional Saw Blade

Stable Saw Blade

Cutting bars

	D [mm]		B [mm]		b [mm]		z	Tooth Type	Hook Angle [°]	f l [mm]	n _{max}
1	300	x	3.0	x	2.0	x	30	D	15	93	2,700
2	350	x	3.5	x	2.5	x	36	D	15	108	3,200
3	400	x	3.5	x	2.5	x	42	D	15	124	2,800
4	450	x	3.5	x	2.5	x	48	D	15	140	2,500
5	500	x	3.5	x	2.5	x	54	D	15	155	2,250
6	550	x	4.0	x	3.0	x	60	D	15	170	2,000
7	600	x	4.0	x	3.0	x	66	D	15	186	1,850

f l = flange diameter

Cutting extruded profiles

	D [mm]		B [mm]		b [mm]		z	Tooth Type	f l [mm]	n _{max}
1	300	x	2.0	x	1.5	x	72	3DX	93	5,100
2	350	x	2.5	x	2.0	x	84	3DX	108	4,350
3	400	x	2.5	x	2.0	x	96	3DX	124	3,800
4	450	x	2.5	x	2.0	x	108	3DX	140	3,400
5	500	x	2.5	x	2.0	x	120	3DX	155	3,000
6	550	x	3.0	x	2.5	x	132	3DX	170	2,800
7	600	x	3.0	x	2.5	x	138	3DX	186	2,500

f l = flange diameter

Stable Saw Blades are manufactured upon order.

Novametal Pro DIA



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Novametal Pro DIA is suitable to cut Aluminum alloys with a silicon content of over 10 %.

Novametal Pro DIA is tipped with polycrystalline diamond (PCD).

Polycrystalline diamond provides extensively longer life than tungsten carbide when cutting Aluminum alloys.

In the past, a certain size of the polycrystalline diamond tooth was required to assure that the tooth was firmly attached to the saw plate.

Because polycrystalline diamond is much more expensive than other cutting edge materials, the saw blade price strongly depended on the tooth size.

We at Kanefusa have developed a technology that allows us to fuse a very small PCD tooth to a tungsten carbide substrate, which is brazed to the saw plate. In this way we can optimize the use of the polycrystalline diamond and make the single use of PCD tipped saw blades possible.



For many reasons, saw blades for single use are superior to saw blades that can be re-sharpened.

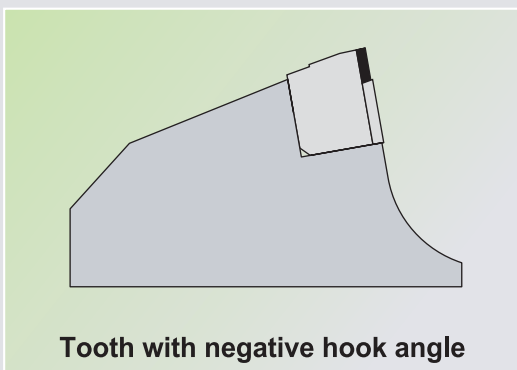
Saw blades that can be reground are instable in performance, especially after they have been reground a few times. Saw blades for single use provide the same cut quality cut after cut, blade after blade.

Saw blades for single use can be run until they suffer substantial damage. Saw blades that can be re-sharpened should be taken off the machine earlier to avoid such damage. For that reason, Novametal Pro DIA outlasts conventional PCD saw blades.

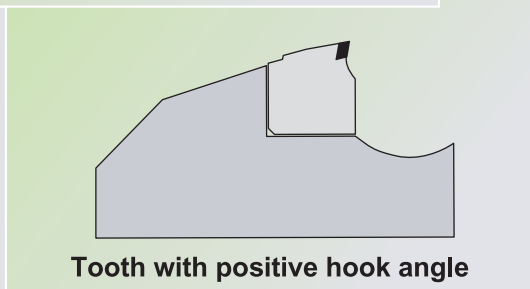
For various applications, saw blades with positive or negative hook angle are available

The Value for the user is:

- Extensively longer life time than tungsten carbide tipped saw blades
- Outperforms regular PCD saw blades
- More machine uptime
- High process reliability due to single use concept
- Maintenance free



Tooth with negative hook angle



Tooth with positive hook angle



<http://www.kanefusa.net>

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