

Saw Blades

for Non ferrous Metals

KANEFUSA

Sash Pro

Sash Pro-sw

Sash Pro-HV

Stable Sawblade

Nova metal

Kanefusa - A New Dimension of Performance



JQA-QM3710



JQA-EM3137
Head Office
Factory

Specifications and appearance are subject to change without notice.
Photographs and illustrations may vary from actual products.

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[Class] [Article] [Revision]

Sash Pro

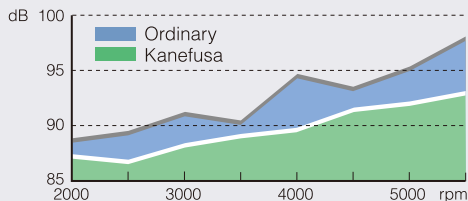
Reliable Performance



1 Kanefusa uses only the best steel for its sawblades. 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 sawblades have polymer injected vibration damping elements incorporated into the plate (LS-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 wavy cut.

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

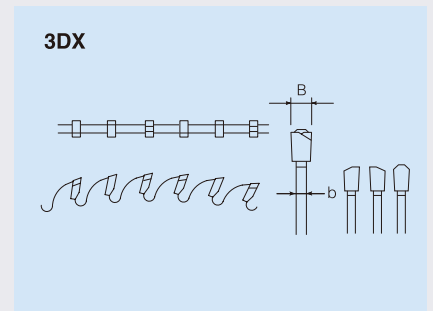
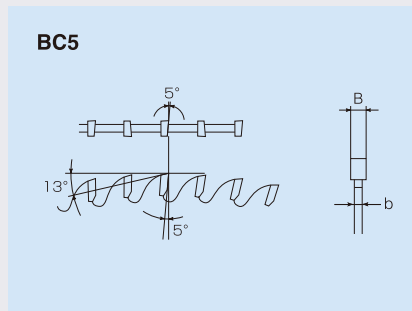
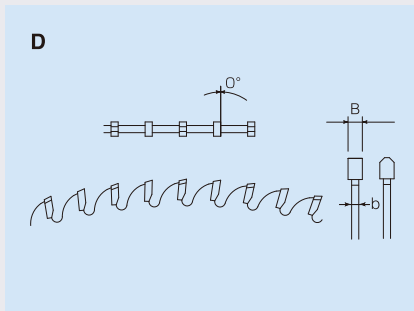


Noise comparison between a Kanefusa Sash Pro sawblade and an ordinary sawblade

Tooth Geometries

Extruded Profiles 	3DX <ul style="list-style-type: none"> Less cutting forces Less 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 less vibration
	BC5 <ul style="list-style-type: none"> Less cutting forces Cuts cleaner than 3DX or D Less bending on thin walled material such as lamellas or radiator fins Recommended for thin walled material (< 4mm)
	D <ul style="list-style-type: none"> Straight sawing by symmetric tooth geometry Very suitable cutting on thick walled material (> 4mm)
Solids 	D <ul style="list-style-type: none"> Straight sawing by symmetric tooth geometry Please ask us for the saw blade specification such as number of teeth.

Sash Pro Line Up



	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	2/12/64	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

Sash Pro "Special Type"

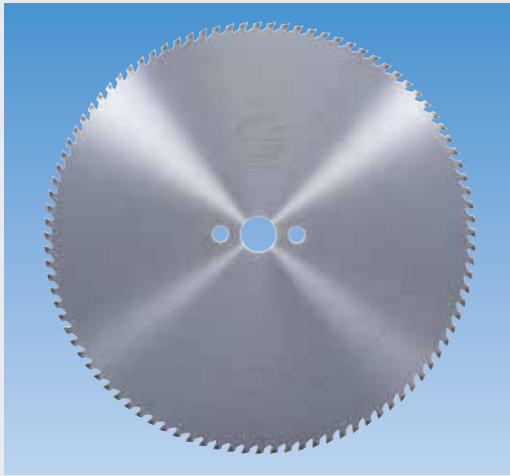
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Please let us know your cutting machine type and size/shape of material to be cut.

Non - Ferrous Metal sawing

Sash Pro-sw



Preventing scratches on work materials which are caused by swarf during the transportation after cutting.

Non - Ferrous Metal sawing

Sash Pro-HV



Burrs on the work material are reduced by high precision edge grinding.

Longer life by reducing initial burrs.

Beautiful cut surface such as a mirror.

★Applicable on each tooth geometry.

● Improved the swarf collection efficiency.



BHF Tooth

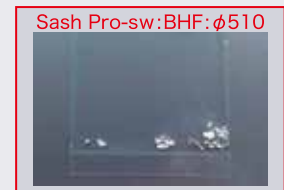
Swarf remained

Blade	Swarf remained
Sash Pro:3DX	0.180g
Sash Pro-sw	0.012g

93%
Less



Sash Pro:3DX:φ510

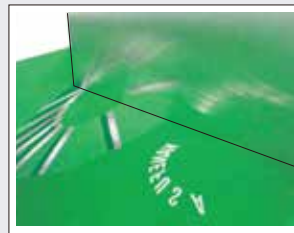


Sash Pro-sw:BHF:φ510

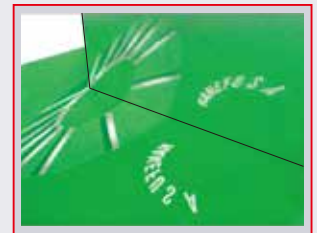
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● Improved the cutting surface quality.

Cut surface

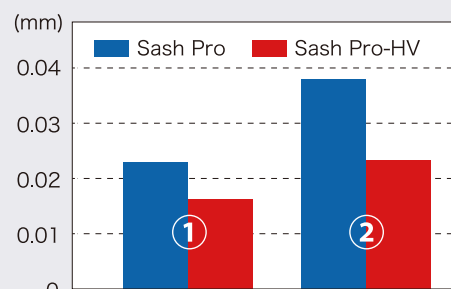


Sash Pro



Sash Pro-HV

Burr height



① Tooth type D (Metal plate t=8mm)

② Tooth type BC (Square Pipe t : 50×2.5mm)

Sash Pro Stable Saw Blade

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PAT.CA2542470,CN ZL200480030284,EP1679165,ID P0024180,IN234055,KR10-1041312,NO333385,RU2348513,US8042443,TWI316882

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

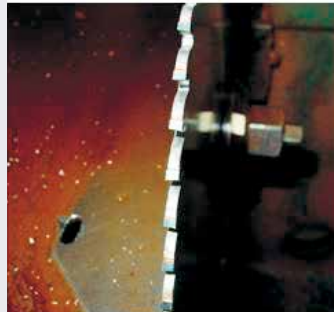
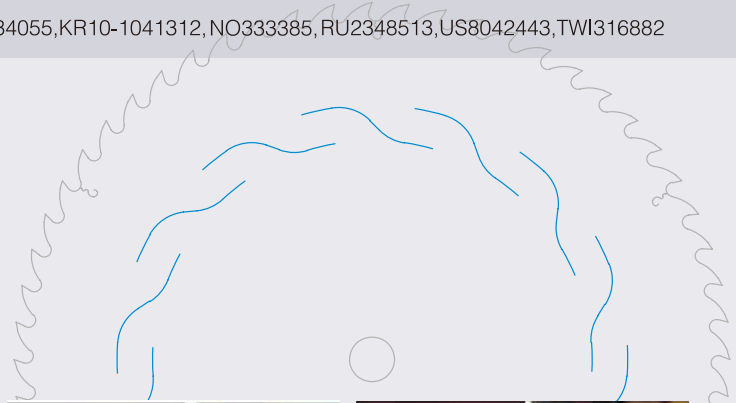


Plate thickness can be reduced by 20 % in comparison to a regular plate.

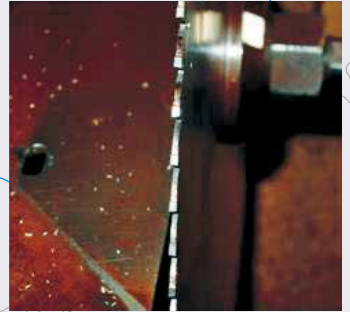


The value for the user is:

- Better material yield rates
- Less swarf that must be recycled
- Better cut quality
- Longer blade life
- Less motor power
- Less noise



Conventional Sawblade



Stable Sawblade

Cutting solids

	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 2.8	x 2.2	x 120	3DX	155	3,000
6	550	x 3.0	x 2.5	x 132	3DX	170	2,800
7	600	x 3.2	x 2.6	x 138	3DX	186	2,500

f l = flange diameter

Stable Sawblades are manufactured upon order.

Nova metal



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Nova metal is suitable to cut Aluminum alloys with silicon content of over 10 %.

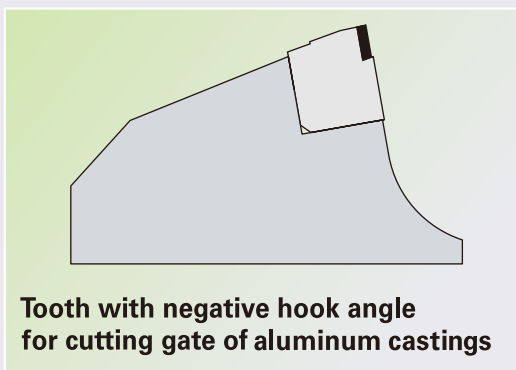
Nova metal is tipped with polycrystalline diamond (PCD).

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

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

Because PCD is much more expensive than other cutting edge materials, the sawblade 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 PCD and make the single use of PCD tipped sawblades possible.



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

Reground sawblades are instable in performance, especially after they have been reground a few times. Sawblades for single use provide the same cut quality cut after cut, blade after blade.

Sawblades for single use can be run to the limit. Sawblades that can be re-sharpened should be taken off the machine earlier to avoid damage. For that reason, **Nova metal** outlasts conventional PCD sawblades.

For various applications, sawblades with negative hook angle are available.

The value for the user is:

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

Specification are available upon request. Please contact Kanefusa.



<http://www.kanefusa.net>

E-mail : sales-ex@kanefusa.co.jp

Asia

KANEFUSA CORPORATION

Head Office / Factory

1-1, Nakaoguchi, Ohguchi-cho, Niwa-Gun,
Aichi-ken, Japan, Postal Code 480-0192
Tel : +81 587 95 7221 Fax : +81 587 95 7226
E-mail:sales-ex@kanefusa.co.jp

PT. KANEFUSA INDONESIA

EJIP Industrial Park, Jl. Ciujung Plot 8 D, South Cikarang,
Bekasi 17530, West Java, Indonesia
Tel : +62 21 897 0360 Fax: +62 21 897 0286
+62 21 897 0287
E-mail : sales@kanefusa.co.id

Surabaya Service Center

JL. Berbek Industri VII/5B Kawasan Industri Sier Surabaya, Indonesia
Tel : +62 31 849 1784 Fax: +62 31 849 2784

KANEFUSA CHINA CORPORATION

NO.50 Zhuzhu Road, Lujia Town Kunshan city, Jiangsu, China
Tel : +86 512 57875072 Fax:+86 512 57875073
E-mail : yy@kanefusa-cn.com

Tianjin Office

Sanjinglu No.5 Dongli economic development zone Tianjin city China
Tel : +86 22 5823 7633 Fax: +86 22 5823 7632
E-mail : tjkc03@kanefusa-cn.com

Guangdong Office

No.2 Danhen Road, Danzao Town Foshan City, Guangdong, China
Tel : +86(0)75785406562 Fax: +86(0)75785406571
E-mail : fssales@kanefusa-cn.com

KANEFUSA INDIA PRIVATE LIMITED

Plot No.169, Sector-8, IMT Manesar,
Gurugram Haryana PIN 122 051, India
Tel : +91 124 420 8440 Fax: +91 124 420 8441
E-mail : info@kanefusa.co.in

KANEFUSA VIETNAM MANUFACTURING CO., LTD.

Plot No. C 11-22-23, Thang Long Industrial Park (Vinh Phuc),
Thien Ke Commune, Binh Xuyen District, Vinh Phuc Province, Vietnam
Tel : +84 211 3510 992 Fax: +84 211 3510 990

KANEFUSA VIETNAM CO., LTD.

Road No.N3-2, Long Duc IP, Long Duc Ward,
Long Thanh District, Dong Nai Province, Vietnam
Tel : +84 251 368 1400 Fax: +84 251 368 1402
E-mail : sales@kanefusa-vn.com

Americas

KANEFUSA USA, INC.

621 Dolwick Drive Erlanger, KY 41018, USA
Tel : +1 859 283 1450 Fax: +1 859 283 5256
E-mail : sales@kanefusa-na.com

KANEFUSA DO BRASIL LTDA.

Rua Bom Pastor, 2732 Bloco Torre Sul - Sala 73
São Paulo - SP Cep:04203-003, Brasil
Tel : +55 11 2372 7664 Fax: +55 11 2372 7663
E-mail : vendas@kanefusa.net.br

Joinville Service Center

Rua Helmuth Fallgatter 1937, Joinville-SC CEP: 89206-101, Brasil
Tel : +55-47-3439-5486

KANEFUSA MEXICO S.A. DE C.V.

Circuito Logistic Aeropuerto No.4 Fracc.1 Lote2 Predio San
Antonio Texas Silao Guanajuato C.P. 36273 Mexico
Tel : +52 1 472 7486314/3 Fax: +52 1 472 7486313
E-mail : info@kanefusa.com.mx

Europe

KANEFUSA EUROPE B.V.

De Witbogt 12, 5652 AG, Eindhoven, The Netherlands
Tel : +31 40 2900 901 Fax: +31 40 2900 908
E-mail : info@kanefusa.nl

Moscow Office

TBldg. 2, Novodmitrovskaya 2, 127015, Moscow, Russia
Tel : +7 499 624 1030
E-mail : moscow@kanefusa.nl