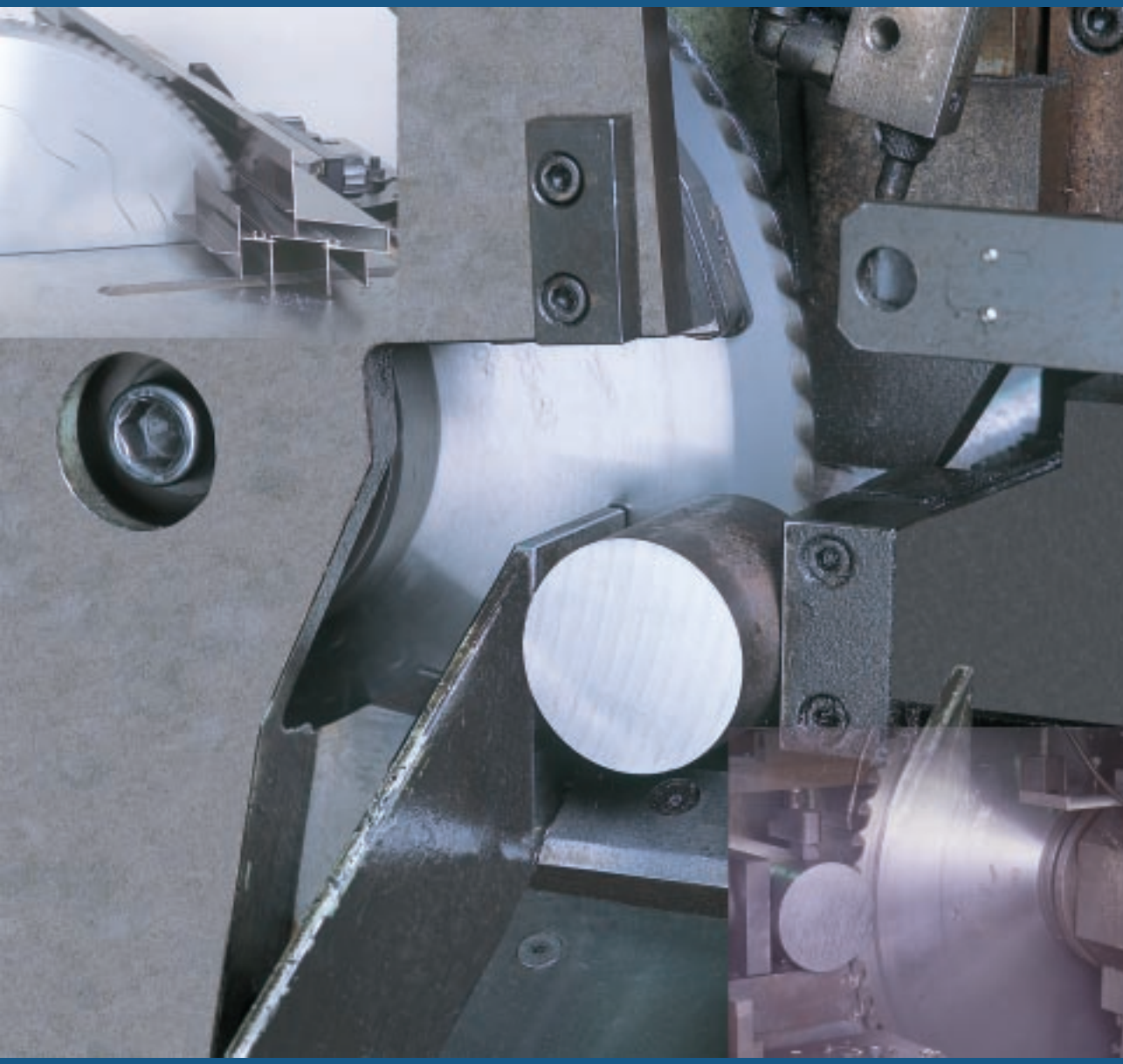
KANEFUSA

Catalogue
Katalog



ISO 9001
JQA-QM3710

ISO 14001
JQA-EM3137
Head Office
Factory

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

0-30-4
[Class] [Article] [Revision]

Our Customers

Ferrous Metal Processing

Automobile and Machine Parts Manufacturing

- Gears
- DriveShafts
- Intake Manifolds
- Cylinder Liners
- Connection Rods
- Mold Sash
- Bearings
- Interior Parts
- Shock Absorber

etc.

Non-Ferrous Metal Processing

Automobile and Machine Parts Manufacturing

- Engine Cylinders
- Engine Cylinder Heads
- AC Compressors
- Intake Manifolds
- Connecting Rods
- Aluminum Wheels

etc.

Housing Industry

- Windows
- Doors
- Facade Elements

etc.

Kanefusa is Japan's largest manufacturer of high quality industrial tools used in the metalworking, woodworking, paper and plastic processing industries.

Kanefusa was established as a company in 1896 and since then it has always been our strategy to continuously develop new products and cutting techniques to achieve one goal:

Higher User Value

Our saw blades, cutters and machine knives are engineered to the highest industrial standards and satisfied users all around the world testify to the reliability of our products.

Today we have over 1000 employees working at 3 production sites and in 12 domestic and 6 international offices.

Contents

1 Ferrous Metal Cutting

2 Non-Ferrous Metal Cutting

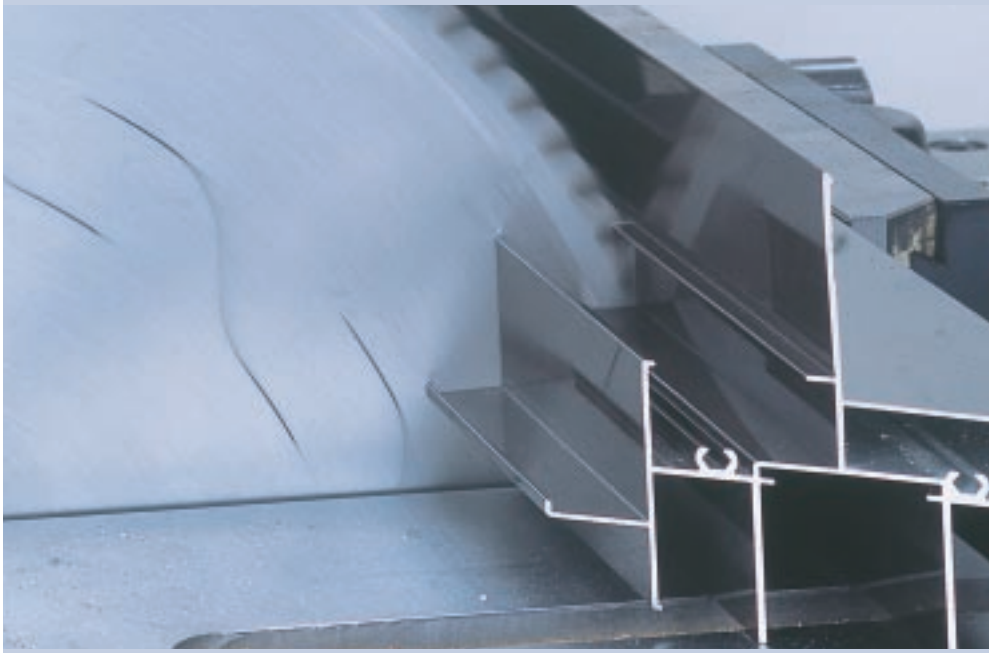
2

Non-Ferrous Metal Cutting

KANEFUSA

Tungsten Carbide Tipped Saw Blades

PCD Tipped Saw Blades



PCD Tipped End Mills

Sash Pro

APPLICATION

Cutting of extruded profiles, thin sheets and bars

MACHINE

Cut-off machines, beam saws, miter saws

MATERIAL

Non-ferrous metals such as aluminum or brass

LUBRICANT

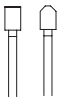
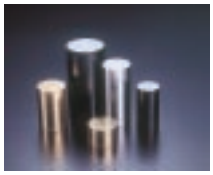
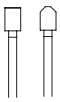
Dry cut or with lubricant

EDGE MATERIAL

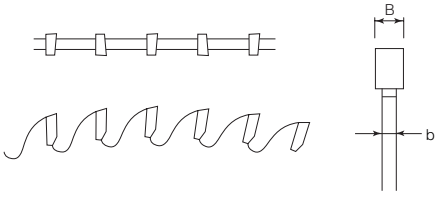
Tungsten Carbide

Features & Benefits

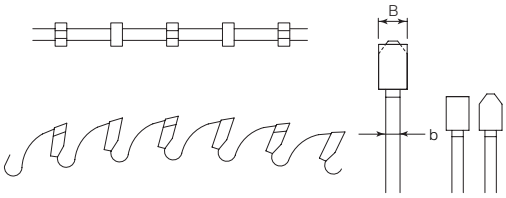
- Runs very quietly due to vibration damping element MS-P in the plate
- Excellent lifetime and cut quality due to flat and even plate
- Special selected carbide quality guarantees long edge life

Application	Tooth type	Features
Extruded Profiles 	BC5 	■ Does not create high cutting forces and therefore it cuts very lightly ■ Cuts cleaner than 3DX or D5 ■ 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) vibrations can occur and the cut quality deteriorates
	D5 	■ 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
Solids 	D 	■ Due to a symmetric tooth geometry, the saw blade runs very straight ■ Cut quality is inferior to BC5 and 3DX

BC5-Type



D-Type



Order no.	Size D [mm] × B [mm] × b [mm] × d [mm] × z	Type	Pin holes	Hook angle [°]
1 681-B480-405	350 × 3.0 × 2.4 × 32 × 108	BC5	2/14/64	5
2 681-A630-405	400 × 3.5 × 3.0 × 30 × 120	BC5		5
3 681-B114-405	500 × 3.5 × 3.0 × 30 × 120	BC5	2/14/64	5
4 681-B482-405	530 × 4.0 × 3.4 × 30 × 140	BC5	2/14/64	5
5 691-C432-405	215 × 2.2 × 1.6 × 30 × 60	D		-5
6 691-D207-405	250 × 3.0 × 2.4 × 32 × 80	D	2/11/63	5
7 691-B207-405	300 × 3.0 × 2.4 × 30 × 96	D	2/10/60+2/10.5/70	5
8 691-C604-405	300 × 3.0 × 2.4 × 32 × 96	D	2/11/63	5
9 691-A495-405	300 × 3.2 × 2.4 × 30 × 72	D	2/10/60	5
10 691-A792-405	300 × 3.2 × 2.4 × 30 × 96	D	2/12/63	5
11 691-D805-405	350 × 3.0 × 2.4 × 32 × 108	D	2/11/63	5
12 691-D137-405	350 × 3.0 × 2.5 × 40 × 84	D	2/11/63	5
13 691-A578-405	350 × 3.6 × 2.8 × 30 × 108	D	2/10/60	5
14 691-D428-405	352 × 3.6 × 2.8 × 30 × 108	D	2/10/60	5
15 691-A791-405	400 × 4.0 × 3.2 × 30 × 96	D	2/12/64	5
16 691-A580-405	420 × 4.0 × 3.2 × 30 × 100	D		5
17 691-C628-405	430 × 3.0 × 2.5 × 30 × 60	D		5
18 691-A551-405	450 × 4.0 × 3.2 × 30 × 108	D	2/12/64	5
19 691-D804-405	450 × 4.0 × 3.4 × 32 × 140	D		5
20 691-A925-405	500 × 4.0 × 3.4 × 30 × 120	D	2/10/60+2/13/70	5

TST Thin Sawing Technology

Stable Saw Blade

APPLICATION

Cutting of extruded profiles and bars

MACHINE

Cut-off machines, beam saws, miter saws,

MATERIAL

Non-ferrous metals such as aluminum or brass

LUBRICANT

Dry cut or with lubricant

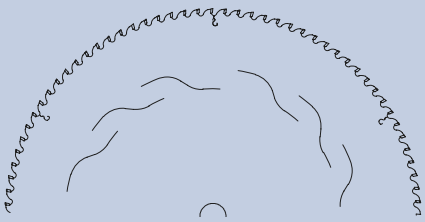
EDGE MATERIAL

Tungsten Carbide

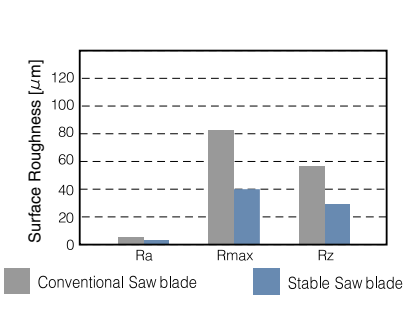
Features & Benefits

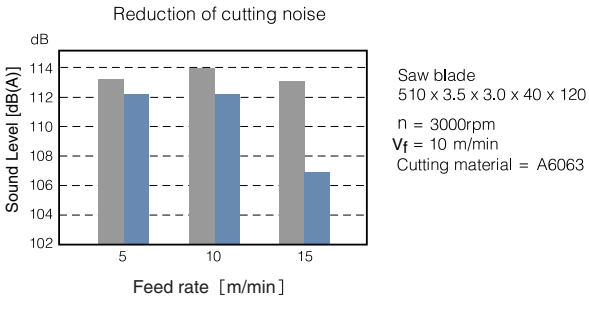
- Thin kerf improves the material recovery rates and reduces the cost of swarf disposal
- Thin kerf reduces the cutting pressure, enabling a better cut quality
- On average, Stable Saw Blades are 20 % thinner than conventional saw blades

Stable Saw Blade

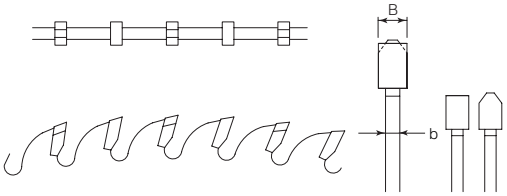


Patented laser slot design reducing the plate thickness without compromising the saw blade's lateral stiffness.

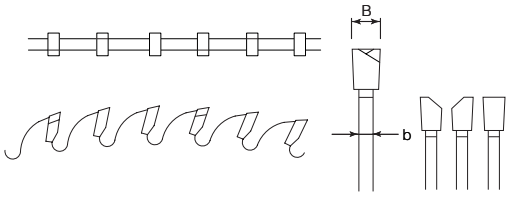




D-Type



3DX-Type



Order no.	Size D [mm]	B [mm]	b [mm]	d [mm]	z	Type	Pin holes	fl [mm]	RPM [1/min]
1	300	3.0	2.0		30	D		93	2700
2	350	3.5	2.5		36	D		108	3200
3	400	3.5	2.5		42	D		124	2800
4	450	3.5	2.5		48	D		140	2500
5	500	3.5	2.5		54	D		155	2250
6	550	4.0	3.0		60	D		170	2000
7	600	4.0	3.0		66	D		186	1850
8	300	2.0	1.5		72	3DX		93	5100
9	350	2.5	2.0		84	3DX		108	4350
10	400	2.5	2.0		96	3DX		124	3800
11	450	2.5	2.0		108	3DX		140	3400
12	500	2.5	2.0		120	3DX		155	3000
13	550	3.0	2.5		132	3DX		170	2800
14	600	3.0	2.5		138	3DX		186	2500

fl=flange diameter

PCD Polycrystalline Diamond

Novametal Pro DIA

APPLICATION
Cuts solids

MACHINE
Cold saw machine

MATERIAL
Non-ferrous metal alloys with high silicon content

LUBRICANT
Dry cut or with lubricant

EDGE MATERIAL
Polycrystalline Diamond

Features & Benefits

- Novametal Pro DIA are saw blades for single use
- Novametal Pro DIA saw blades enable high process reliablity
- Novametal Pro DIA saw blades clearly outlast Tungsten Carbide Tipped saw blades

PCD Saw Blade

APPLICATION
Cuts solids

MACHINE
Cold saw machine

MATERIAL
Non-ferrous metal alloys with high silicon content

LUBRICANT
Dry cut or with lubricant

EDGE MATERIAL
Polycrystalline Diamond

Features & Benefits

- PCD Saw Blades can be reground several times
- The saw blades are manufactured upon order and designed according to the application
- Kanefusa anti-impact brazing technology reduces edge chipping of the teeth
- Saw plate withstands heaviest loads

PCD
Polycrystalline Diamond

PCD Tipped End Mills

APPLICATION
Cuts solids

MACHINE
Milling machines

MATERIAL
Non-ferrous metal alloys with high silicon content

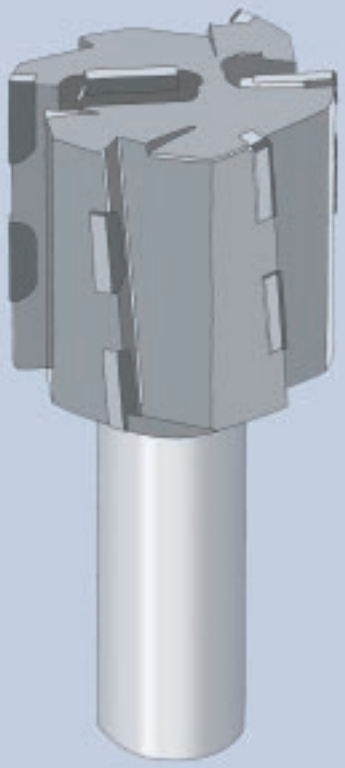
LUBRICANT
Dry cut or with lubricant

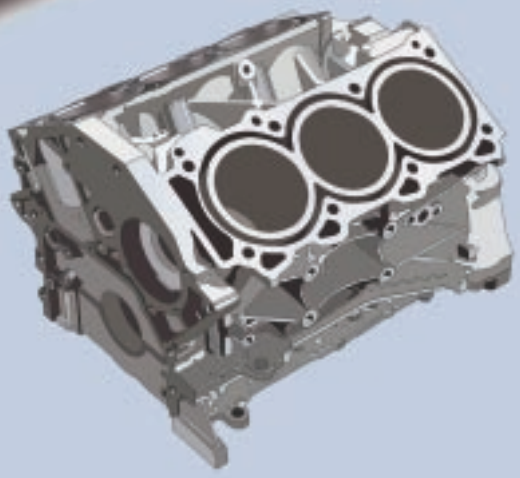
EDGE MATERIAL
Polycrystalline Diamond

Features & Benefits

- PCD end mills have up to 50 times longer life than tungsten carbide tooling
- PCD tools allow twice the cutting speed compared with tungsten carbide tooling
- PCD tooling is more economical than tungsten carbide tooling

Aero Space
Automotive
Marine
Train
Construction





“Aluminium use is skyrocketing in automobiles. In 2006, aluminium overtook iron to become the second most used material in new cars and trucks.”

Kanefusa offers a wide range of PCD tipped tooling for use machining of aluminium, aluminium Alloys and other nonferrous metals efficiently.

For instance ; PCD tipped tooling outlast Tungsten Carbide tipped tooling when machining cylinder bores by 6 to 7 times.

3

Company Profile

KANEFUSA

Business Activities

Cutting tool is an essential part in the manufacturing process of almost any product in any industry all around the world. Productivity, product quality, quality rates and the effective use of resources depend on the quality of the tools used.

Kanefusa develops, manufactures and supplies value-added tools and services to users in the woodworking, metalworking, plastic and paper industries.

Woodworking Industry

Metalworking Industry

Research & Development

In August 1995, the new Technical Center for enhanced research and development activities was completed. In oder to carry out intense research activities in areas of material science, cutting and grinding technology, state of the art equipment such as scanning electron microscopes (SEM), experimental furnaces, CNC-router machines, moulder and various sawing machines are available to our dedicated engineers.

Activities

- Developing products with clear user value and testing of tooling in respect to performance, safety and function
- Joint research, development and experimentation with users and machine builders
- Research and development of cutting and grinding technologies
- Rapid prototyping

Manufacturing Techniques

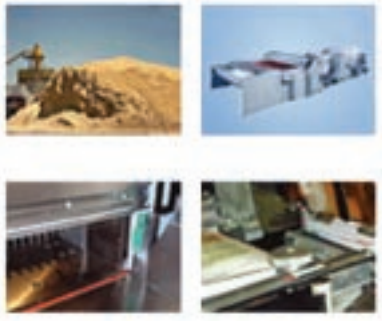
Our motto is "quality products arrive from quality equipment and techniques". We have been proactively developing various manufacturing technologies. Parallel fulfillment of the detailed pursuit of quality and reduction of cost is our focus when developing equipment. Awareness of further improvements leads to in-house development of machines designed with the originality and ingenuity of our engineers. Approximately 40% of equipment used at our factory has been developed by our engineers. We are dedicated to supplying reliable tools and service by further development of equipment and manufacturing techniques aimed at improved quality, reduction of costs higher precision and better function.

Sales Activities

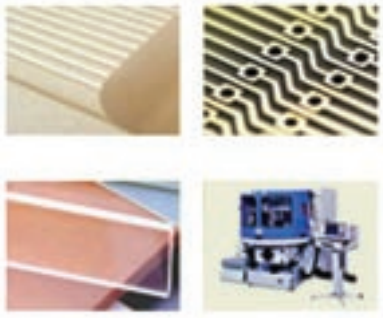
Knowledge, responsiveness and reliable customer support have become key drivers in today's business. It is therefore of utmost importance to transfer the technical know-how of our R&D Center as well as commercial information into our subsidiaries and distributor network. Besides providing appropriate literature and demonstration models, hands-on seminars have proven to be one of the most effective ways of enhancing the competence of our Distribution Network. We offer seminars and practical training courses for all knowledge levels, from the beginner to the professional.

On a regular basis we inform the consumer as well as our sales network through our website newsletter of the participation in trade shows and the organization of conferences about newly developed products and technologies, market news and intra-company information. Opinion and experience exchanges are vital parts in our development of new products, technologies and services.

Paper Industry



Plastic Industry & Special Projects



Global Network

Our world-spanning network guarantees local user satisfaction

P.T. KANEFUSA INDONESIA, and KANEFUSA CHINA CORPORATION are offshore manufacturing sites. To ensure highest product quality, raw materials and semi-finished products are supplied from Japan and processed on state of the art machinery from Japan and Germany.

KANEFUSA USA, INC., KANEFUSA EUROPE B.V., Malaysia Office, P.T. KANEFUSA INDONESIA and KUNSHAN KANEFUSA CORPORATION support our distributor network in commercial and technical issues and carry out grinding services in (except KFE and Malaysia Office) order to ensure highest user satisfaction and customer retention.

KANEFUSA EUROPE B.V.
Main Office (The Netherlands)
German Office

KANEFUSA CHINA CORPORATION
KUNSHAN KANEFUSA CORPORATION

KANEFUSA USA, INC.

KANEFUSA CORPORATION JAPAN
- Nagoya Head Office & Factory
- Osaka Office
- Tokyo Office
- Sapporo Office
- Sendai Office
- Hiroshima Office
- Fukuoka Office

Malaysia Office

P.T. KANEFUSA INDONESIA
Surabaya Service Center

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E-mail: yy@kfcn.szbnet.com

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Southeast Asia

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TEL: +62 21 897 0360 FAX: +62 21 897 0286 / 0287
E-mail: sales@kanefusa.co.id

Surabaya Service Center
Jl. Berbek Industri
VII/5.B. Kepuhkiriman, Waru Sidoarjo 61256
TEL: +62 31 8491784 FAX: +62 31 8492784

Malaysia Office
Level 36, Menara Citibank 165, Jalan Ampang, 50450 Kuala Lumpur, Malaysia
TEL: +60 3 21697720 / +60 3 21697721 FAX: +60 3 21697722
E-mail: kanefusamal@myjaring.net

Quality

Quality is when the customer comes back and not the product

Kanefusa is recognized throughout the world as a premium tool manufacturer and satisfied users testify to the reliability of our products and services.

It is also acknowledged by the market that we are continually striving to improve our company (Kaizen) and the quality of our processes, products and services. An essential factor in improving quality is the employee and the key words here are learning, knowledge and motivation. By way of regular seminars and training, our employees are updated with the latest machine, process, product, market and management knowledge enabling them to respond flexibly to the ever-changing market demands and ensuring the highest product and service quality.

Each department forms a Quality Improvement Team, which is part of the Kanefusa Quality Circle. The teams compete with each other, which keeps motivation high and ensures that the continuous improvement process does not stop. Occasionally, the teams compete with teams from other companies.

Technical Seminar

Kaizen Discussion

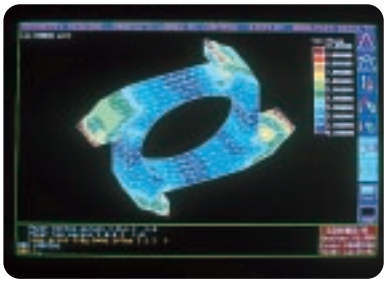
Quality Circle Team

Besides highly qualified and motivated employees, we are constantly investing in the latest machine and manufacturing equipment, computer systems and R&D equipment. If there is no technology available that satisfies our needs, we develop it. Our dedicated engineers develop about 40 % of our equipment.

Another part of our commitment to quality is to invent, produce and sell only products that are safe to use. One very important sales point of our products is that they run quieter, produce less dust, are easier to handle and have higher durability than other makes.

Naturally we are ISO 9001 and ISO 14001 certified.

Grinding Centre



Tool Structure Analysis by FEM-technology

JQA-QM3710

JQA-EM3137
Head Office Factory

History

1896	The blacksmith Kankichi Kamiya establishes "Uchihamonoshi Kanefusa" (Forging Master of Agricultural Tools) in Goheizou, Nagoya.
1931	Suzuo Watanabe, son of the founder, succeeds the business of his father and makes extensive improvements to High Speed Steel machine knives.
1937	Kanefusa Hamono Ltd. is established.
1948	A new factory is built in Rokuban-cho, Atsuta-ku, Nagoya and the company is renamed Kanefusa Hamono Kogyo Co., Ltd.
1957	Suzuo Watanabe travels to Europe to research European knife manufacturing and steel refining technologies.
1959	Kanefusa is the first Japanese machine tool manufacturer to use a High Frequency Induction Heating System for mass production of quality knives.
1964	A new state of the art factory is built in Ohguchi-cho, Niwa-gun, Aichi Prefecture.
1965	The main factory in Ohguchi-cho receives JIS certification (JIS = Japan Industrial Standards).
1967	The first Research and Development Center is completed.
1968	For product distribution, Kanefusa Knife & Saw Co., Ltd. is established.
1969	Kanefusa receives the Contribution Award from the Minister of International Trade and Industry.
1970	The capacity of the heat treatment facility is largely increased.
1971	Suzuo Watanabe is inaugurated as chairman of the Japan Saw Blade & Knife Industrial Association (JSK). Kanefusa receives the Contribution Award from the Minister of International Trade and Industry for the second time.
1972	The production capacity of the T.C.T. saw blade plant is expanded.
1976	The Ministry of International Trade and Industry acknowledges Kanefusa Hamono Ltd. as a factory of superior industrial standard.
1981	Hiroshi Watanabe becomes President. Suzuo Watanabe becomes Chairman. The production of PCD tooling begins.
1982	A new cold saw blade plant is completed. Production and sales of the ACE insert tooling system starts.

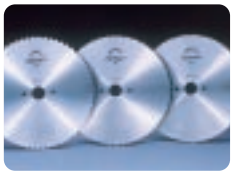

Kankichi Kamiya


Inside the factory in Rokuban-cho (1957)


Prayer for safety before construction of the Main Factory (Early 1960's)


20th Anniversary (1968)


Suzuo Watanabe


TA Cold Saw Blade

1985	The production capacity of the cold saw blade plant is expanded. The Head Office moves to Ohguchi-cho, where the Main Factory is located.
1986	P.T. Kanefusa Indonesia, the first offshore production facility, is established in Jakarta, Indonesia. An office in Singapore is set up.
1990	Kanefusa Hamono Ltd. and Kanefusa Knife and Saw Co., Ltd. merge to become KANEFUSA CORPORATION. A new T.C.T. saw blade production site is completed.
1995	Kanefusa Corporation is listed at the Nagoya Stock Exchange, Second Section. The production capacity of P.T. Kanefusa Indonesia is sharply increased.
1996	The new Technical Center for comprehensive Research and Development is completed.
1998	A liaison office in Eindhoven, The Netherlands, is set up.
1999	Kanefusa U.S.A. is established. Kanefusa Head Office and factory receive ISO 9001 certification.
2000	Masato Watanabe becomes President. Hiroshi Watanabe becomes Chairman.
2001	Kanefusa EUROPE B.V. is founded in Eindhoven, The Netherlands.
2002	Kanefusa China Corporation, the second offshore production facility, is established in Kunshan city, near Shanghai.
2003	Kunshan Kanefusa Corporation is set up. Kanefusa Head Office and Factory receive ISO 14001 certification.
2004	Kanefusa China Corporation receives ISO 9001 certification. The office in Singapore moves to Kuala Lumpur, Malaysia. A liaison office in Germany, which is under the jurisdiction of Kanefusa Europe B.V., is established. P.T. Kanefusa Indonesia receives ISO 9001 certification.
2005	Kanefusa China Corporation receives ISO 14001 certification.
2006	Kanefusa Corporation is listed at the Tokyo Stock Exchange, second Section. Kunshan Kanefusa Corporation acquires sales rights in China.

Outside view of KFI (1986)

R&D Technical Center (1996)

Hiroshi Watanabe

Masato Watanabe

4 Technical Information

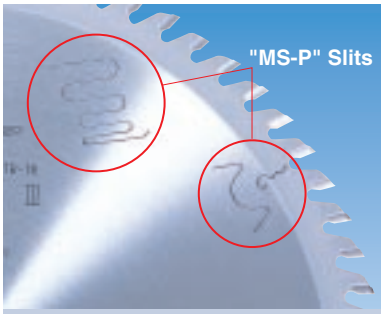
KANEFUSA

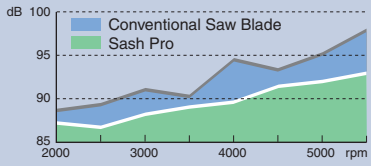
Ferrous Metal Cutting

Non-Ferrous Metal Cutting

Saw Blade Application Chart

Saw Blade Technology





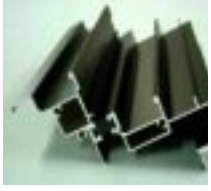
Noise comparison between a Kanefusa Sash Pro saw blade and an ordinary saw blade

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

Kanefusa Sash Pro saw blades have polymer-injected vibration damping elements incorporated into the plate (MS-P Slits).
Vibrations are responsible for high and tone noise, which can cause hearing problem bad performance due to damage to carbide, and bad cut quality because of edge chipping and waving cut.

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**	■ 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 vibrations
		BC5	■ Does not create high cutting forces and therefore it cuts very light ■ Cuts cleaner than 3DX or D5 ■ 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) vibrations can occur, the cut quality deteriorates and chipping of the cutting edge can appear
		D5	■ 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
Solids		**D**	■ Due to a symmetric tooth geometry the saw blade runs very straight ■ Cut quality is inferior to BC5 and 3DX

Saw Blade Specifications

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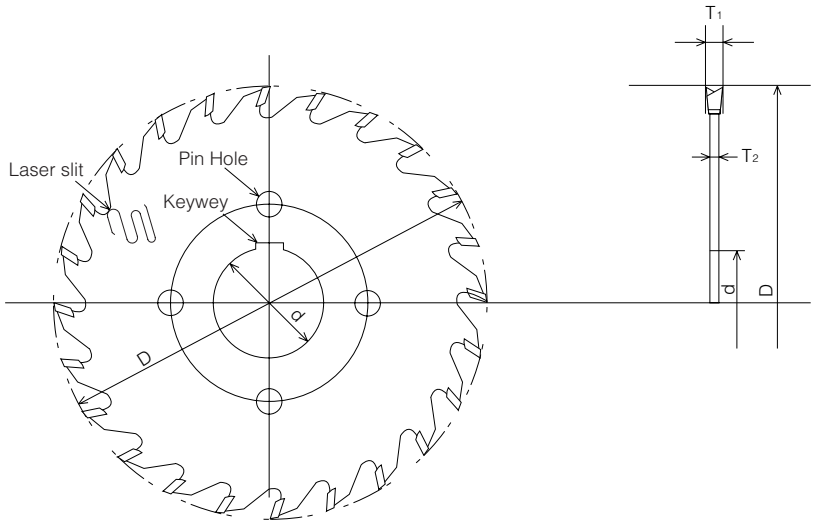

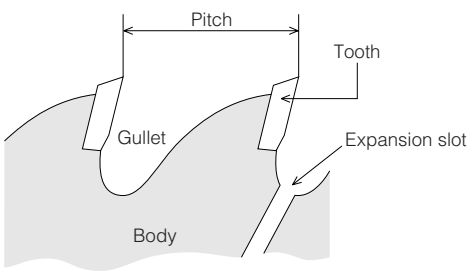

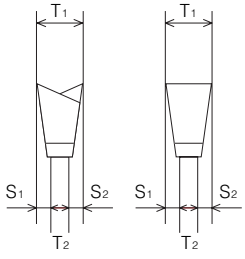

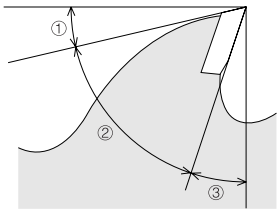

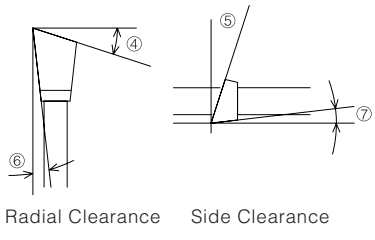

Angle Designation

① Clearance Angle [α]
② Included Angle [β]
③ Hook Angle [γ]
④ Top Bevel Angle [ε]
⑤ Face Bevel Angle [λ]
⑥ Radial Clearance Angle [α_r]
⑦ Tangential Clearance Angle [α_t]

Diameter	D
Bore	d
Kerf	T_1
Body Thickness	T_2
Number of Teeth	Z
Radial Clearance Angle	S_1 , S_2

Saw Blade Application Chart

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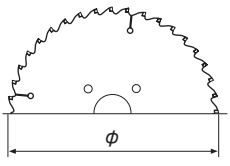
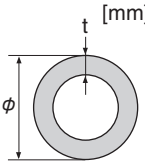
■Saw Blade Application chart

	JIS	Material Gloup	ST-4	ST-4P	Ti-4	TA-4SUS	Ferro Max SUS	Ferro Max Speed	Ferro Max Tube	Novametal Pro (Copper)	Novametal Pro (Alumi)	Novametal Pro DIA
Carbon Steels Alloy Steels	S-C	Case hardend steel	○		○			○				
	SNC	Nickel chrome steel	○									
	SNCM	Nickel chrome molybdenum steel	○									
	SCr	Chrome steel	○		○							
	SCM	Chrome molybdenum steel	○		○							
	SMn	Manganese steel	○		○							
Steel Tube	STKS	Alloy steels		○					○			
	STK	Carbon steel		○					○			
	STKM	Carbon steel		○					○			
	STKR	Square steel tube for general structure		○				○	○			
Special - Purpose Steel	SUS	Stainless steel				○	○					
	SUP	Spring steel			○							
	SUM	Sulfur free cutting steel			○							
	SUJ	High carbon chromium ball bearing steel			○							
Nonferrous Casting	YBsC	Brass cast								○		
	HBsC	High-strength brass cast								○		
	BC	Bronze cast								○		
	PBC	Phosphorus bronze cast								○		
	AIBC	Aluminium bronze cast								○		
	AC	Aluminium alloy casting									○	○
	ZDC	Die cast zinc alloy									○	○
	ADC	Die cast aluminum zinc alloy									○	○
	WJ	White metal									○	○
	KJ	Lead alloy bronze cast									○	○
	TB , TF	Titanium alloy									○	○

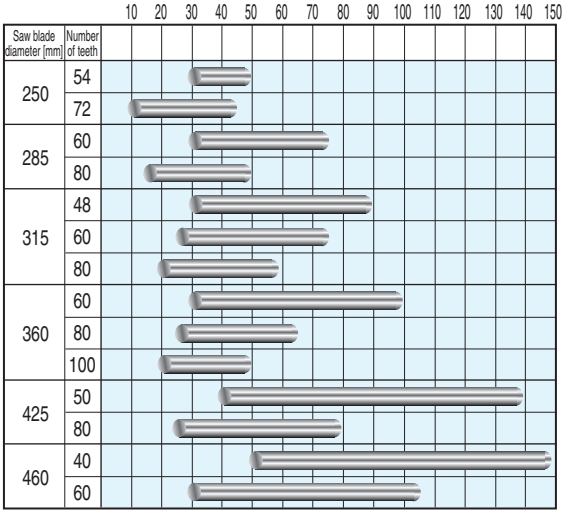
■Tubes
Recommended number of teeth





	ϕ285	
	140Z (Ferro Max Tube)	120Z (Ferro Max Tube)
ϕ10	–	–
ϕ20	t 6.8	–
ϕ30	t 3.1	t 9.3
ϕ40	t 2.1	t 5.2
ϕ50	t 1.6	t 3.7
ϕ60	t 1.2	t 2.8
ϕ70	t 1.0	t 2.3

■Solids
Material diameter [mm]



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