

Board Pro III

T.C.T. Panel Saw Blade

KANEFUSA



Kanefusa - A New Dimension of Performance



JQA-QM3710

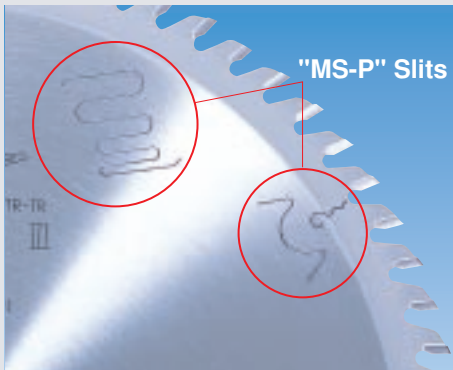


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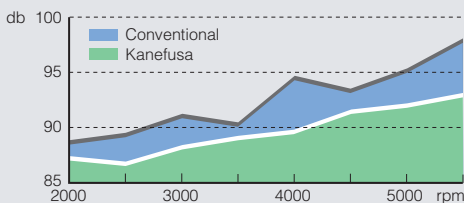
Quality in Terms of User Value



All Kanefusa saw blades are engineered to the absolute highest engineering standards. We believe in "Kaizen" and continuously innovate saw blade design, saw blade components, manufacturing technologies and quality control standards to achieve one goal. Higher user value.

User value can be measured in

- Less noise or cutting dust, for a better and safer work environment.
- Better performance for more machine uptime and less grinding cost.
- Constant and repeatable performance for a stable manufacturing process.
- Better cut quality for better products.
- Better recovery rates for higher material utilization.



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

Our saw blades outlast and outperform the conventional and offer more value than the conventional.

Satisfied customers attest to the reliable performance of Kanefusa saw blades worldwide.

Features for Reliable Performance

- 1** The difference lays in detail and therefore 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 stiffness is essential for straight running of the saw blade.
- 2** Kanefusa Board Pro series have polymer injected vibration damping elements incorporated into the plate. Vibrations are responsible for
 - high tone noise which causes hardness of hearing which is identified as one of the most common occupational diseases in woodworking and irreparable.
 - bad performance, due to structural damages to the carbide grain.
 - bad cut 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 of board materials and clearly outlasts conventional carbides.
- 4** The Kanefusa grinding process is a painstaking one. Each tooth is perfectly honed. Proprietary cooling methods assist with creating mirror-like finishes on the carbide teeth, that guarantees perfect cut finishes.

Product Line-Up

Board Pro III Panel Sizing Saw Blades D-type, Diameter ≤ 450mm

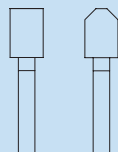
	Product No.	D [mm]	B [mm]	b [mm]	d [mm]	z	Pin Holes	Tooth Type	Machine
1	691-D933-403	303	x 3.0	x 2.2	x 30	x 48	2/10/60 + 2/7/42	D	Striebig
2	691-D934-403	303	x 3.0	x 2.2	x 30	x 60	2/10/60 + 2/7/42	D	Striebig
3	691-D935-403	303	x 3.0	x 2.2	x 30	x 100	2/10/60	D	Striebig
4	691-D936-403	303	x 3.2	x 2.2	x 30	x 100	2/10/60	D	Striebig
5	691-D937-403	305	x 3.2	x 2.2	x 30	x 60		D	Scheer FM16
6	691-D938-403	305	x 4.4	x 3.0	x 30	x 60		D	Mayer; Panhans
7	691-D939-403	305	x 4.4	x 3.2	x 60	x 60		D	
8	691-D940-403	350	x 3.2	x 2.2	x 30	x 80		D	
9	691-D941-403	350	x 3.2	x 2.0	x 30	x 108		D	
10	691-D942-403	350	x 4.4	x 3.2	x 30	x 72	2/10/60	D	SCM; Panhans; EURO 12; Mayer; Schelling
11	691-D943-403	350	x 4.4	x 3.0	x 80	x 72	4/8.5/100 + 2/14/110 + 2/7/110	D	Gabbiani Prima; SCM Alpha; Scheer FM21
12	691-D944-403	350	x 4.4	x 3.2	x 30	x 54	2/12/80	D	SCM
13	691-D945-403	350	x 4.4	x 3.2	x 75	x 72	2/10/120	D	Giben
14	691-D946-403	355	x 4.4	x 3.0	x 80	x 72		D	SMA; Zerspaner
15	691-D947-403	355	x 4.4	x 3.2	x 75	x 60		D	Giben
16	691-D948-403	380	x 4.8	x 3.5	x 60	x 72	2/14/100	D	Holzma
17	691-D949-403	400	x 3.5	x 2.4	x 30	x 72		D	
18	691-D950-403	400	x 4.3	x 3.2	x 30	x 72		D	Scheer
19	691-D951-403	400	x 4.4	x 3.2	x 30	x 72		D	Panhans; Schelling; Scheer
20	691-D952-403	400	x 4.4	x 3.0	x 60	x 72		D	Anthon
21	691-D955-403	400	x 4.4	x 3.2	x 80	x 72	2/7/110 + 2/8.3/130	D	
22	691-D956-403	400	x 4.4	x 3.2	x 80	x 72	2/14/110 + 4/9/110 + 2/7/110	D	
23	691-D957-403	400	x 4.4	x 3.2	x 80	x 72	4/19/120 + 2/8.4/130	D	Selco WN/EB
24	691-D958-403	400	x 4.8	x 3.5	x 60	x 72		D	Holzma Type 01
25	691-D959-403	420	x 4.8	x 3.5	x 60	x 72		D	Holzma
26	691-D960-403	430	x 4.4	x 3.2	x 30	x 72		D	
27	691-D961-403	430	x 4.4	x 3.2	x 60	x 72	2/11/85	D	Anthon
28	691-D962-403	430	x 4.4	x 3.2	x 75	x 72	4/15/105	D	
29	691-D963-403	430	x 4.4	x 3.2	x 75	x 96	4/15/105	D	Giben Prismatic 2
30	691-D964-403	430	x 4.4	x 3.2	x 80	x 72	4/19/120 + 2/9/130	D	Selco WN
31	691-D965-403	430	x 4.4	x 3.2	x 80	x 72	2/8.3/130	D	
32	691-D966-403	450	x 4.4	x 3.2	x 30	x 72	2/8.5/60	D	Schelling; Scheer FM22
33	691-D968-403	450	x 4.8	x 3.5	x 60	x 72	2/14/125	D	Holzma
34	691-D969-403	450	x 4.8	x 3.5	x 80	x 72	4/19/120 + 2/9/130	D	Selco WN

Board Pro III Panel Sizing Saw Blades TD-type, Diameter ≤ 450mm

	Product No.	D [mm]	B [mm]	b [mm]	d [mm]	z	Pin Holes	Tooth Type	Machine
1	699-J976-403	350	x 4.4	x 3.2	x 30	x 54	2/10/60	TD	SCM; Panhans; EURO 12; Mayer; Schelling
2	699-G046-403	380	x 4.8	x 3.5	x 60	x 72	2/14/100	TD	Holzma
3	699-G871-403	400	x 4.4	x 3.2	x 75	x 72	4/15/105	TD	Giben Prismatic 1; Giben Starmatic
4	699-G801-403	400	x 4.4	x 3.2	x 80	x 72	2/14/110 + 4/9/110 + 2/7/110	TD	Gabbiani
5	699-J973-403	420	x 4.8	x 3.5	x 60	x 72	2/10/80	TD	Holzma
6	699-G048-403	450	x 4.8	x 3.5	x 60	x 72	2/14/125	TD	Holzma
7	699-G873-403	450	x 4.8	x 3.5	x 80	x 72	4/19/120 + 2/9/130	TD	Selco WN

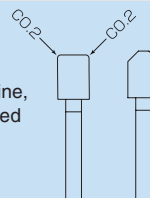
D-Type

Sizing and finish cutting of Melamine, HPL, and CPL laminated particleboard or MDF.



TD-Type

Finish cutting of Melamine, HPL, and CPL laminated particleboard or MDF.



Optional Tooth Geometry

BC-Type

Cutting of raw particleboard, MDF, plywood or OSB. Sizing and finish cutting of veneer and paper laminated particleboard and MDF.



Board Pro Panel Sizing Saw Blades

D-type, Diameter $\geq 450\text{mm}$

	Product No.	D [mm]	B [mm]	b [mm]	d [mm]	z	Pin Holes	Tooth Type	Machine
1	691-D994-403	460	x 4.6	x 3.2	x 30	x 72		D	
2	691-D995-403	470	x 4.4	x 3.2	x 75	x 96	4/15/105	D	Giben Prismatic 3
3	691-D996-403	480	x 4.4	x 3.2	x 30	x 80		D	Schelling FL
4	691-D997-403	480	x 4.8	x 3.5	x 80	x 72	4/19/120 + 2/9/130	D	Selco WN
5	691-D998-403	500	x 4.4	x 3.0	x 75	x 60		D	Giben
6	691-D999-403	500	x 4.4	x 3.2	x 80	x 60		D	Teutomatic
7	691-E001-403	500	x 4.4	x 3.2	x 80	x 72		D	SMA; Teutomatic
8	691-E002-403	500	x 4.4	x 3.2	x 80	x 72	4/8.5/100 + 2/14/110 + 2/7/110	D	Gabbiani A/10
9	691-E003-403	500	x 4.7	x 3.4	x 30	x 60		D	
10	691-E004-403	500	x 4.8	x 3.5	x 60	x 60	2/11/115	D	Holzma Type21
11	691-E005-403	500	x 4.8	x 3.5	x 60	x 72	2/11/115	D	Holzma Type22
12	691-E006-403	520	x 4.8	x 3.5	x 60	x 60		D	Holzma
13	691-E007-403	530	x 5.0	x 3.5	x 30	x 60		D	Schelling
14	691-E008-403	530	x 5.8	x 4.0	x 60	x 60	1/11/85	D	Anthon
15	691-E009-403	550	x 5.0	x 3.5	x 40	x 72		D	Schelling
16	691-E010-403	550	x 5.0	x 3.5	x 80	x 72		D	Teutomatic
17	691-E011-403	550	x 5.0	x 3.5	x 100	x 72		D	Giben
18	691-E012-403	570	x 4.8	x 3.5	x 60	x 60		D	Holzma
19	691-E013-403	570	x 5.8	x 4.0	x 60	x 96		D	Holzma Type 42
20	691-E014-403	580	x 5.5	x 4.0	x 40	x 60		D	Schelling
21	691-E015-403	600	x 5.8	x 4.0	x 60	x 72	2/19/120 + 2/11/115	D	Holzma Type 42
22	691-E016-403	600	x 6.2	x 4.0	x 80	x 72		D	SMA
23	691-E017-403	620	x 6.2	x 4.0	x 40	x 72		D	Schelling FT
24	691-E018-403	650	x 6.2	x 4.0	x 40	x 72		D	Schelling
25	691-E020-403	670	x 6.2	x 4.0	x 40	x 72		D	Schelling
26	691-E021-403	680	x 6.2	x 4.2	x 40	x 60		D	Schelling AS
27	691-E022-403	700	x 6.2	x 4.4	x 80	x 60	2/17/110	D	Anthon

Board Pro Scoring Saw Blades

	Product No.	D [mm]	B [mm]	b [mm]	d [mm]	z	Pin Holes	Tooth Type	Machine
1	699-F059-403	100	x 2.8 - 3.6	x 2.0	x 20	x (12+12)		CA	Panhans; Martin; Schelling
2	699-E376-403	100	x 2.8 - 3.6	x 2.0	x 22	x 24		TP	
3	699-C641-403	120	x 2.8 - 3.8	x 2.0	x 22	x (12+12)		CA	Altendorf; Martin
4	699-D611-403	120	x 2.8 - 3.6	x 2.0	x 20	x (12+12)		CA	HolzHer; SCM
5	699-D888-403	120	x 3.2 - 4.5	x 2.2	x 22	x 24		F	
6	699-F521-403	120	x 3.1 - 4.22	x 2.2	x 20	x 24		F	
7	699-E214-403	125	x 3.2 - 4.5	x 2.2	x 22	x 24		F	Martin
8	699-E517-403	125	x 4.4 - 5.2	x 3.2	x 45	x 20		TP	
9	699-F179-403	125	x 4.4 - 5.45	x 2.8	x 20	x 24		TP	Panhans
10	699-D960-403	125	x 4.4 - 5.45	x 3.2	x 45	x 24		F	Homag
11	699-D175-403	127	x 4.4 - 5.1	x 3.3	x 45	x 24		TP	PS3+7 Giben
12	699-E560-403	160	x 4.4 - 5.45	x 3.0	x 45	x 36	3/11/70	TP	Giben Prismatic
13	699-D782-403	180	x 4.4 - 5.8	x 3.0	x 30	x 34		F	
14	699-B874-403	180	x 4.4 - 5.6	x 3.2	x 45	x 36		TP	Holzma
15	699-D557-403	200	x 4.3 - 5.5	x 3.0	x 20	x 24		F	Schelling
16	699-E989-403	200	x 4.4 - 5.6	x 3.2	x 20	x 36		TP	Schelling
17	699-A876-403	200	x 4.6 - 5.7	x 3.2	x 20	x 34		TP	Schelling
18	699-E803-403	200	x 4.8 - 5.8	x 3.2	x 65	x 34	2/8.5/110	TP	Selco

CA-Type



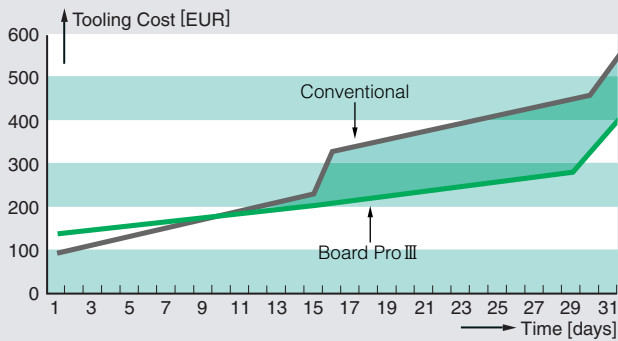
F-Type



TP-Type



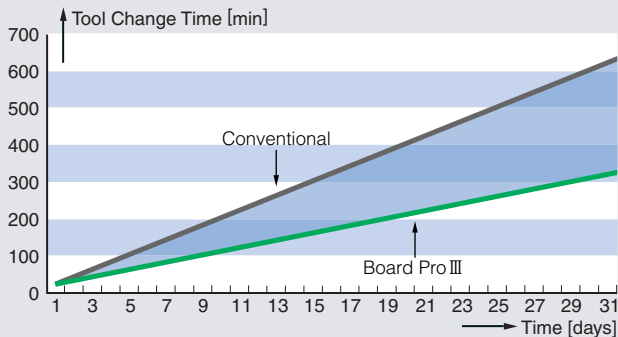
User Value



At various major furniture manufacturer from Ukraine to Germany, Turkey to England, Board Pro saw blades clearly outlasted saw blades of other quality brands.

The graphs aside demonstrate what they mean to the tooling cost and machine uptime.

The figures are based on experience at a large furniture part manufacturer in Southern Germany.



- Machine : Holzma Powerline
- Feed rate : 28 m/min
- Material : Melamine laminated particleboard
40 mm thick
- Saw blade : Board Pro 450 x 4.8 x 3.5 x 60 x 72z TD
- Edge life : Conventional saw blade = 1 day
Board Pro saw blade = 2-3 days

Overall Equipment Effectiveness (OEE)

$$OEE = \text{Machinery Availability} \times \text{Performance Rate} \times \text{Quality Rate}$$

Machinery Availability

This is the percentage of scheduled time a machine is available to produce products. You might think of this as a percentage of uptime to crewed hours. Downtimes are caused by tool change, material shortage, technical or other trouble.

Performance Rate

This is also a percentage measurement. It is calculated by dividing the actual run speed by the maximum run speed as stated by your OEE. When calculating the performance rate, it is necessary to take into account that the maximum speed also depends on the material to be cut or the book height.

Quality Rate

This is the percentage of conforming units compared to the total output. This is an important ratio to measure because it shows you the real value in our output. It is the inverse of the waste percentage.



<http://www.kanefusa.net>

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