

# Board Pro III

T.C.T. Panel Saw Blade

KANEFUSA



*Kanefusa - A New Dimension of Performance*



JQA-QM3710

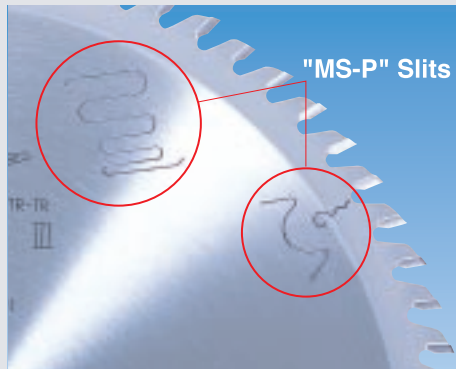


JQA-EM3137  
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\*Specifications and appearance are subject to change without notice.  
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**0-22-11**  
[Class] [Article] [Revision]

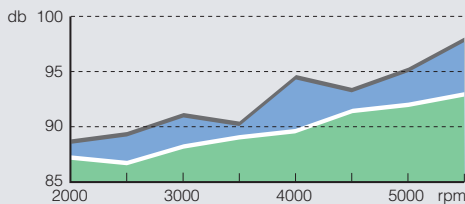
# Quality in Terms of User Value



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 Sash 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.
- 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.

# Line Up

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

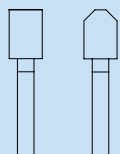
|    | Product No.  | D<br>[mm] | B<br>[mm] | b<br>[mm] | d<br>[mm] | z     | Pin Holes                      | Tooth Type | Machine                                 |
|----|--------------|-----------|-----------|-----------|-----------|-------|--------------------------------|------------|---|
| 1  | 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, Diamater ≤ 450mm

|   | Product No.  | D<br>[mm] | B<br>[mm] | b<br>[mm] | d<br>[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         | Prismatic 1; Given 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                                |

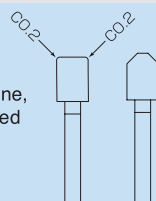
### D-Type

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



### TD-Type

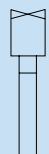
Finish cutting of Melamine, HPL, and CPL laminated particleboard or MDF.



### 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

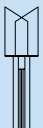
D-type, Diameter  $\geq 450\text{mm}$

|    | Product No.  | D<br>[mm] | B<br>[mm] | b<br>[mm] | d<br>[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 | 2/11/115                       | D          | Teutomatic        |
| 7  | 691-E001-403 | 500       | x 4.4     | x 3.2     | x 80      | x 72 | 2/11/115                       | 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<br>[mm] | B<br>[mm]    | b<br>[mm] | d<br>[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 - 5.6  | x 3.2     | x 45      | x 24      |                       | F          | Homag                      |
| 11 | 699-D175-403 | 127       | x 4.4 - 5.6  | x 3.4     | x 45      | x 24      |                       | TP         | PS3+7 Giben                |
| 12 | 699-E129-403 | 150       | x 4.4 - 5.6  | x 3.2     | x 30      | x 24      |                       | TP         |                            |
| 13 | 699-E560-403 | 160       | x 4.4 - 5.45 | x 3.0     | x 45      | x 36      | 3/11/70               | TP         | Giben Prismatic            |
| 14 | 699-D782-403 | 180       | x 4.4 - 5.8  | x 3.0     | x 30      | x 34      |                       | F          |                            |
| 15 | 699-B874-403 | 180       | x 4.4 - 5.6  | x 3.2     | x 45      | x 36      |                       | TP         | Holzma                     |
| 16 | 699-D557-403 | 200       | x 4.3 - 5.6  | x 3.0     | x 20      | x 24      |                       | F          | Schelling                  |
| 17 | 699-E989-403 | 200       | x 4.4 - 5.6  | x 3.2     | x 20      | x 36      |                       | TP         | Schelling                  |
| 18 | 699-A876-403 | 200       | x 4.6 - 6.0  | x 3.2     | x 20      | x 34      |                       | TP         | Schelling                  |
| 19 | 699-E803-403 | 200       | x 4.8 - 5.8  | x 3.2     | x 65      | x 34      | 2/8.5/110 + 2/8.4/100 | TP         | Selco                      |

CA-Type



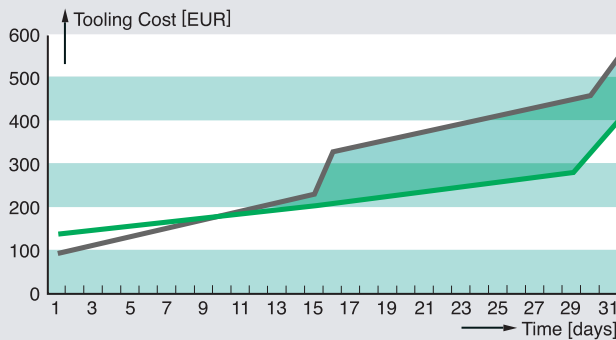
F-Type



TP-Type



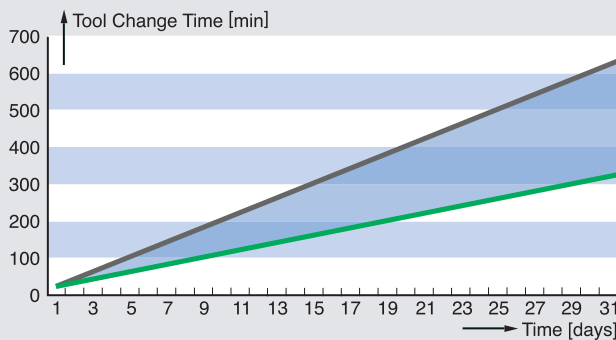
# User Value



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 that means 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 OEM. 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.



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