

Cutting tools for CLT



Cutting tools for CLT

High quality surface - reduce fuzzy grain and burning
Coated Insert " U-P II W " for wood processing
Reduced down-times with longer tool life

PAT.EP2939806B1, US10201908B2

Coated Carbide Inserts " U-P II W "

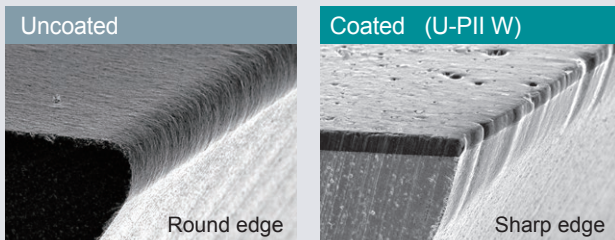


Patented

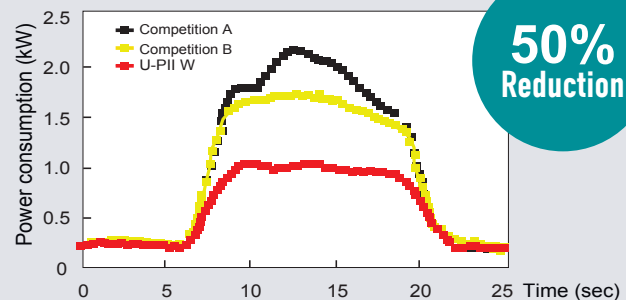
Features

Kanefusa's coating technology with self-sharpening effects, maintains a sharp edge for longer tool life and reduces power consumption.

Comparison of wear



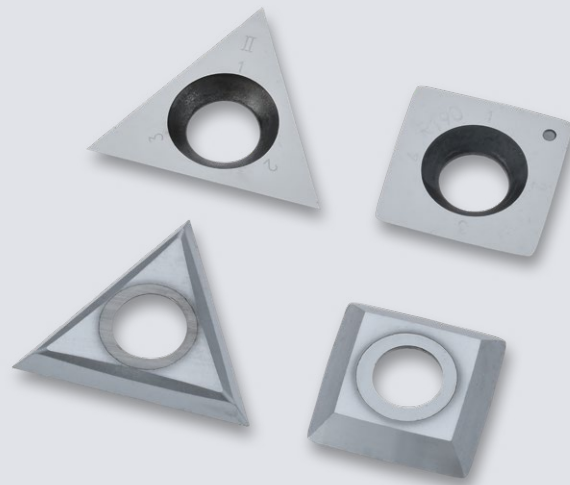
Power consumption



" U-P II W " saves 40-55% cutting power because of the superior wear resistance compared with other carbides of competitors.

Lineup

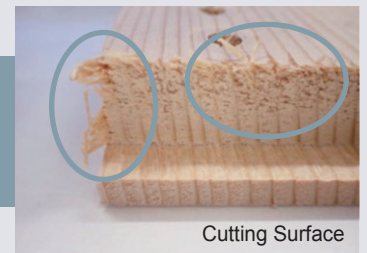
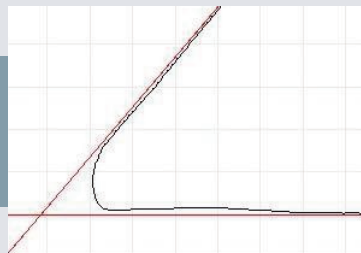
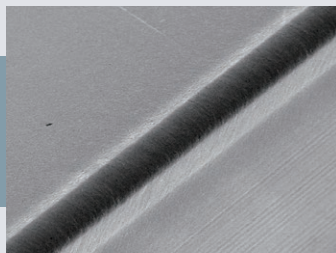
- 11 x 11 x 1.5
- 15 x 15 x 2.5
- 22 x 19 x 2.0 (triangle)



Example

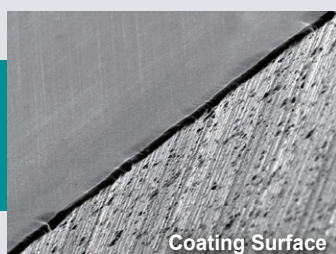
Material : European Pine Laminated Timber
Cutting Parameter : N=4,000rpm F=1m / min
Blade Outer Diameter : $\Phi 200$
After Cutting : 300m

Competitor
Uncoated

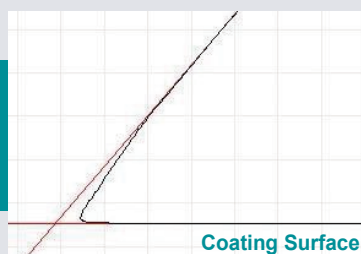


Cutting Surface

KANEFUSA
Coated
(U-P II W)



Coating Surface



Coating Surface



Cutting Surface

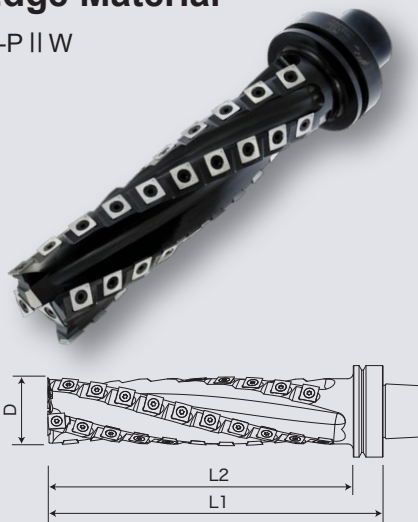
Cutting tools for CLT

High quality surface - reduce fuzzy grain and burning
Coated Insert " U-P II W " for wood processing
Reduced down-times with longer tool life

Endmill

Edge Material

U-P II W



Available Sizes

HSK	ΦD	L1	L2
HSK 63E	50~60	~300	~270
HSK 80A/C/F	50~80	~300	~270
HSK 100A/C	50~80	~270	~240

Features

- The integrated structure of the HSK section and blade body provides enhanced rigidity, minimizes fluffing and plucking, and ensures excellent cutting quality.
- The unique flute shape ensures optimal chip evacuation and prevents burning.

Example

Processing : Hollowing out, Milling
Material : Cedar CLT
Tools : HSK80F x 60 x 325 x 250 x 4P
Cutting Parameter : N=9,000rpm
F=2.5m / min



Monitor test results

CASE① Reduced the work noise.

Achieved three times longer compared to other brand.

CASE② Achieved two times longer tool life compared to other brand
(45→90days).

Hogger Cutter

Edge Material

U-P II W



Features

- Aluminum body minimizes the weight of cutterhead.
- The helical arrangement of blades reduces cutting resistance and achieves excellent surface.

Example

Processing : Rabbet grooving for panel (wall / floor) joint
Material : Cedar CLT
Available Sizes : $D \leq 400$
Tools : 12P 400 x 60-75 x 45
Cutting Parameter : N=4,300rpm F=14.4m / min

Grooving

Competitor Uncoated



KANEFUSA Coated (U-P II W)



Cutting tools for CLT

High quality surface - reduce fuzzy grain and burning
Coated Insert “ UPII W ” for wood processing
Reduced down-times with longer tool life

Dovetail Cutter

Edge Material

U-P II W



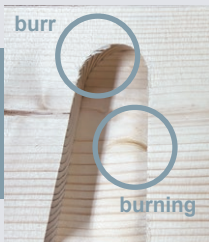
Features

- Specially designed suitable cutting angles which minimize chip-out.
- Swarf is efficiently removed and material burning is prevented thanks to our unique gullet design.

Example

Processing : Dovetail
Material : Spruce Laminated Timber
Tools : 30 x 60 x 150 x 35 x 6P
Cutting Parameter : N=12,000rpm F=12m / min

Competitor
Uncoated



KANEFUSA
Coated
(U-P II W)



Strob Saw Blade

Edge Material

Tungsten Carbide



Application

Large strob sawblades are specialized in CLT / large section integrated lumber cutting.

Features

- Stable and flat plate enables precise run-out for smoother finish and exact dimensions.
- Arranged suitable wipers to reduce the contact between timber and saw body.

Lineup

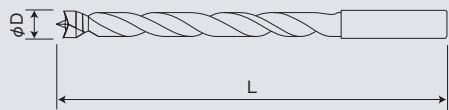
Machine	
•Hundegger K2i	900 x 8.0 x 6.0 x 30 x 54, 1000 x 8.0 x 6.0 x 30 x 36
•Hundegger PBA	1000 x 8.5 x 6.0 x 40 x 36, 1100 x 8.5 x 6.0 x 40 x 36
•Technowood	1100 x 8.5 x 6.0 x 40 x 36, 1150 x 8.5 x 6.0 x 40 x 36
•Uniteam	850 x 8.0 x 6.0 x 30 x 60

Cutting tools for CLT

Drill

Edge Material

Tungsten Carbide



Features

- Specialized edge design to prevent chip-out and burr at the exit.
- Two types of edge based on the application.
 - Standard type
 - Scoring type
- The drill bit is uniquely designed for preventing breakage.
- The surface treatment on the drill body (black part) ensures optimal chip evacuation.

Available Sizes

- $D = \Phi 12 \sim \Phi 30$
- $L \leq 460$

* Other sizes could be arranged upon request.

Example

Processing : Drilling
Material : European Pine Laminated Timber
Cutting Parameter : N=3,600rpm F=1.8m / min

Entry

Exit

Standard-type



Clean cutting surface for both entry and exit side.

Scoring-type



Perfect cutting surface for entry side but more breakout in the exit side compared to standard type.



<http://www.kanefusa.net/en/>

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. CISOKAN RAYA 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

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 : sales@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 0211 3510 992 Fax : +84 0211 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, Kentucky 41018, U.S.A
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
Sao 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 Frac.1 Lote2 Predio San
Antonio Texas Silao Guanajuato C.P. 36273 Mexico
Tel : +52 472 7486314/3 Fax : +52 472 74863 13
E-mail : sales@kanefusa.com.mx

Europe

KANEFUSA EUROPE B.V.

De Witbogt 12, 5652 AG, Eindhoven, The Netherlands
Tel : +31 40 290 0901
E-mail : info@kanefusa.nl