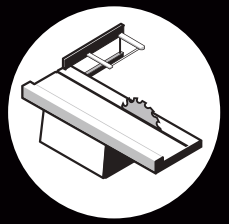
freud

Precisely the best

LU Range

Premium Circular Saw Blades for Squaring Saws

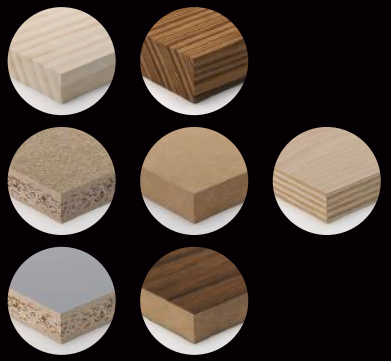
A COMPLETE RANGE OF CIRCULAR SAW BLADES FOR SQUARING SAWS



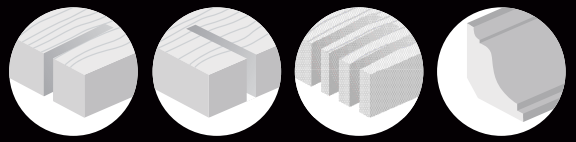
WOOD

WOOD BASED PANELS

LAMINATED PANELS

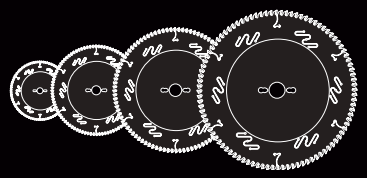


FOR A WIDE RANGE OF APPLICATIONS



AVAILABLE IN A BROAD VARIETY OF DIAMETERS

from 220 mm



to 600 mm

PRODUCT FEATURES

WHY FREUD IS PRECISELY THE BEST FOR SQUARING SAWS

Superior performance
Long lasting TiCo Carbide in-house manufactured.

Low noise
Exclusive anti-vibration slots.

Extreme shock resistance
Freud special Tri-metal Brazing alloy consists of copper wrapped between silver layers to withstand extreme impact.

Excellent rust protection and anti-friction technology
Silver I.C.E. Coating.

Tensioning ring
to maintain the blade flat, maximising cutting precision and performance.

Laser-cut expansion slots
Enable heat dispersion and prevent blade deformation.

TiCo Carbide

• A specially formulated, highly compact Titanium Cobalt Carbide, engineered and manufactured by freud.
• It provides a sharper edge and flawless finish with a dramatically longer cutting life.

Silver I.C.E. Coating

• A high performing and anticorrosive coating to maintain the blade temperature low during the working process.
• The non-stick feature improves chip ejection and notably reduces resin build-up, significantly reducing friction and extending the lifetime of the blade.

Anti-vibration slots

• Body slots laser cut with freud innovative technology.
• Also available with thermoplastic polyurethane filling, that considerably reduces vibration and minimizes noise.

FLAWLESS FINISH, EVERY TIME
FREUD SQUARING SAW SOLUTIONS FOR JOINERS

Key factors to select Freud LU circular saw blades for your wood applications with squaring saw.

VERSATILE SOLUTION

Perfect for solid wood, wood-based panels, bilaminated MDF and chipboard.

UNMATCHED PERFORMANCE

Delivers precise finish and excellent results.

ENGINEERED EXCELLENCE

Superior cuts achieved leveraging:

- In-House Carbide - Extended durability and edge sharpness.
- Dedicated Tooth Geometries - Optimized for specific materials and applications.
- State-of-the-Art Coating - Enhanced performance and extended blade lifetime.

TAILORED FOR YOU

Available in a wide range of diameters, ensuring an exact fit for the specific application.

COMPLETE TOOLKIT

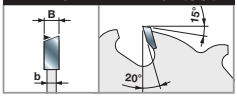
Maximum precision with Freud selection of conical and adjustable scorers.

For a complete overview of Freud solutions, please refer to our General Product Catalogue.

WOOD

LU1C
Saw blades for solid wood ripping

HW H01K - ATB 10° tooth

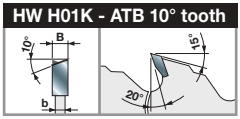


Technical information:
Saw blades with anti-kickback technology, suitable for ripping softwood and hardwood also with loose knots.

D mm	B mm	b mm	d mm	Z	NL - KN	Freud Code	Art. No.
250	3,2	2,2	30	22	FT01	**LU1C 0100**	F03FS04590
300	3,2	2,2	30	26	FT01	**LU1C 0400**	F03FS04595
315	3,2	2,2	30	28	FT01	**LU1C 0800**	F03FS04601
350	3,5	2,5	30	30	FT02	**LU1C 1000**	F03FS04603
400	4,0	2,8	30	34	2/10/60	**LU1C 1300**	F03FS04609
450	4,4	3,0	30	38	2/10/60	**LU1C 1400**	F03FS04611
500	4,4	3,2	30	42	2/10/60	**LU1C 1500**	F03FS04612
550	4,4	3,5	30	48	2/10/60	**LU1C 1600**	F03FS04613

FT01: 2/7/42 + 2/9/46,4 + 2/10/60 - **FT02:** 2/9/46,4 + 2/10/60

LU1D
Saw blades for solid wood ripping

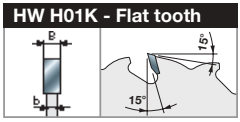


Technical information:
Saw blades suitable for ripping softwood and hardwood without anti-kickback.

D mm	B mm	b mm	d mm	Z	NL - KN	Freud Code	Art. No.
250	3,2	2,2	70	24	4CH 21x5	**LU1D 0200**	F03FS04617
300	3,2	2,2	30	28	FT01	**LU1D 0500**	F03FS04620
350	3,5	2,5	30	32	FT02	**LU1D 1100**	F03FS04628

FT01: 2/7/42 + 2/9/46,4 + 2/10/60 - **FT02:** 2/9/46,4 + 2/10/60

LU1E
Thin kerf saw blades for solid wood ripping



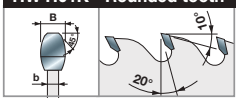
Technical information:
The thin kerf design, with anti-kickback technology, makes the workpiece feed easy when ripping soft and hard drywood, also with loose knots.

D mm	B mm	b mm	d mm	Z	NL	Freud Code	Art. No.
250	2,5	1,6	30	24	FT01	**LU1E 0100**	F03FS04630
300	2,7	1,8	30	28	FT01	**LU1E 0300**	F03FS04634
350	3,0	2,2	30	32	FT01	**LU1E 0400**	F03FS04636

FT01: 2/7/42 + 2/9/46,4 + 2/10/60

LU1G
Saw blades with rounded teeth sides to cut solid wood

HW H01K - Rounded tooth



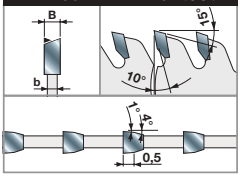
Technical information:
Saw blades suitable for ripping, ideal to achieve a perfectly smooth surface on softwood.

D mm	B mm	b mm	d mm	Z	NL	Freud Code	Art. No.
250	3,0	2,0	30	40	FT01	**LU1G 0100**	F03FS04646
300	3,0	2,0	30	48	FT01	**LU1G 0200**	F03FS04647
350	3,2	2,2	30	60	FT01	**LU1G 0300**	F03FS04648

FT01: 2/7/42 + 2/9/46,4 + 2/10/60

LU1I
Saw blades to cut solid wood frames

HW H00K - ATB 20° tooth

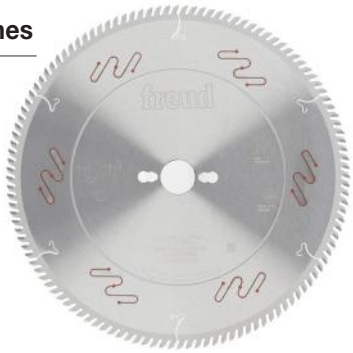


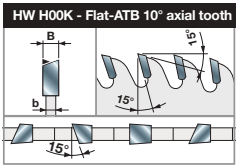
Technical information:
Saw blades suitable for crosscutting of wooden frames or profiled items.
Splintering-free surface and perfect matching of the cut parts guaranteed also if painted, covered by chalk or other delicate and abrasive coatings.

D mm	B mm	b mm	d mm	Z	NL	Freud Code	Art. No.
250	2,95	2,5	30	96	FT02	**LU1I 0400**	F03FS04679
300	2,95	2,5	30	96	FT02	**LU1I 0600**	F03FS04682
330	3,45	3,0	30	96	FT02	**LU1I 0800**	F03FS04686

FT02: 2/9/46,4 + 2/10/60

LU1L
Saw blades with axial angle to cut solid wood frames





Technical information:
Saw blades ideal for wooden frames and profiles end trims whose front-end cut stays visible.
The axial angle grants splinter-free surfacing, with a perfect matching of the parts, also when painted or covered in chalk and abrasive coatings.
Suitable for thicker wood pieces and higher feed rates.

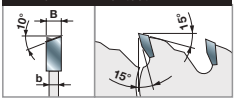
D mm	B mm	b mm	d mm	Z	NL	Freud Code	Art. No.
250	3,0	2,2	30	100	FT01	**LU1L 0100**	F03FS04690
300	3,0	2,2	30	100	FT01	**LU1L 0500**	F03FS04694
350	3,0	2,2	30	120	FT01	**LU1L 0900**	F03FS04698

FT01: 2/7/42 + 2/9/46,4 + 2/10/60

WOOD BASED PANELS

LU2A
Saw blades for wood based panels, ripping and crosscutting

HW H01K - ATB 10° tooth



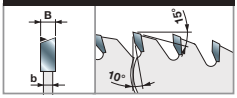
Technical information:
Saw blades suitable for ripping and crosscutting.
Lower number of teeth for higher thicknesses.

D mm	B mm	b mm	d mm	Z	NL	Freud Code	Art. No.
250	3,2	2,2	30	40	FT01	**LU2A 1700**	F03FS04830
300	3,2	2,2	30	48	FT01	**LU2A 2100**	F03FS04840
315	3,2	2,2	30	48	FT01	**LU2A 2400**	F03FS04844
350	3,5	2,5	30	54	FT02	**LU2A 2800**	F03FS04849
400	4,0	2,8	30	60	2/10/60	**LU2A 3300**	F03FS04856
450	4,4	3,0	30	66	2/10/60	**LU2A 3600**	F03FS04862
500	4,4	3,2	30	72	2/10/60 + 2/10/80	**LU2A 3800**	F03FS04865
550	4,8	3,5	30	84	2/10/60 + 2/10/80	**LU2A 3900**	F03FS04867
600	5,4	4	30	96	2/10/80	**LU2A 4000**	F03FS04868

FT01: 2/7/42 + 2/9/46,4 + 2/10/60 - **FT02:** 2/9/46,4 + 2/10/60

LU2B
Saw blades for wood based panels, ripping and crosscutting

HW H00K - ATB 15° tooth

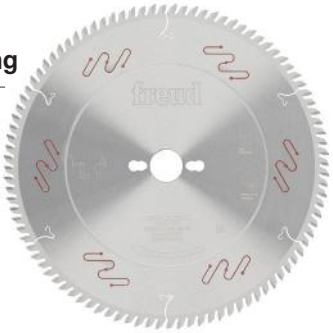


Technical information:
Saw blades suitable for ripping and crosscutting with medium number of teeth.

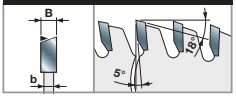
D mm	B mm	b mm	d mm	Z	NL	Freud Code	Art. No.
250	3,2	2,2	30	48	FT01	**LU2B 0500**	F03FS04877
250	3,2	2,2	30	60	FT01	**LU2B 0700**	F03FS04880
300	3,2	2,2	30	60	FT01	**LU2B 0900**	F03FS04884
300	3,2	2,2	30	72	FT01	**LU2B 1100**	F03FS04887
315	3,2	2,2	30	72	FT01	**LU2B 1300**	F03FS04891
350	3,5	2,5	30	72	FT02	**LU2B 1400**	F03FS04893
350	3,5	2,5	30	84	FT02	**LU2B 1600**	F03FS04895
400	4,0	2,8	30	96	2/10/60	**LU2B 1900**	F03FS04897
450	4,4	3,0	30	96	2/10/60	**LU2B 2000**	F03FS04899
500	4,4	3,2	30	108	2/10/60 + 2/10/80	**LU2B 2100**	F03FS04901

FT01: 2/7/42 + 2/9/46,4 + 2/10/60 - **FT02:** 2/9/46,4 + 2/10/60

LU2C
Saw blades for wood based panels and crosscutting



HW H00K - ATB 15° tooth



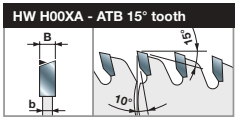
Technical information:
Saw blades with higher number of teeth, perfect for crosscutting.
Suitable also to cut thermoplastic-wood composites.

D mm	B mm	b mm	d mm	Z	NL		Freud Code	Art. No.
250	3,2	2,2	30	80	FT01		**LU2C 1200**	F03FS04922
300	3,2	2,2	30	96	FT01		**LU2C 1500**	F03FS04927
350	3,5	2,5	30	108	FT02		**LU2C 2000**	F03FS04936
400	3,8	2,8	30	120	2/10/60		**LU2C 2100**	F03FS04938
450	4,4	3,0	30	132	FT02		**LU2C 2200**	F03FS04939
500	4,4	3,2	30	144	2/10/60 + 2/10/80		**LU2C 2300**	F03FS04940

FT01: 2/7/42 + 2/9/46,4 + 2/10/60 - **FT02:** 2/9/46,4 + 2/10/60

LU2E
Saw blades to cut exotic abrasive wood and panels

HW H00XA - ATB 15° tooth



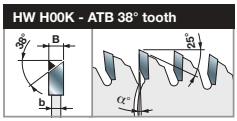
Technical information:
Good finishing in softwood and hardwood crosscutting, in particular exotic abrasive wood.
Suitable also for chipboard (up to 50 mm thickness) and single-side laminated MDF (up to 30 mm thickness).

D mm	B mm	b mm	d mm	Z	NL		Freud Code	Art. No.
300	3,2	2,2	30	60	FT01		**LU2E 0200**	F03FS04965
300	3,2	2,2	30	72	FT01		**LU2E 0400**	F03FS04967

FT01: 2/7/42 + 2/9/46,4 + 2/10/60 - **FT02:** 2/9/46,4 + 2/10/60

LAMINATED PANELS

LU3A
Saw blades to cut bilaminated panels

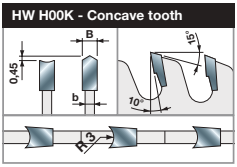


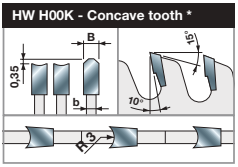
Technical information:
To size chipboard and MDF bilaminated panels. The ATB 38° tooth geometry grants extremely accurate finishing on both sides.
Also suitable for vertical panel sizing machines.
No scoring saw blade needed.

D mm	B mm	b mm	d mm	Z	α	NL	Freud Code	Art. No.
250	3,2	2,2	30	80	-2°	FT01	**LU3A 0200**	F03FS05061
300	3,2	2,2	30	96	2°	FT01	**LU3A 0300**	F03FS05064
350	3,5	2,5	30	108	5°	FT02	**LU3A 0400**	F03FS05066

FT01: 2/7/42 + 2/9/46,4 + 2/10/60 - **FT02:** 2/9/46,4 + 2/10/60

LU3B
Saw blades to cut bilaminated panels





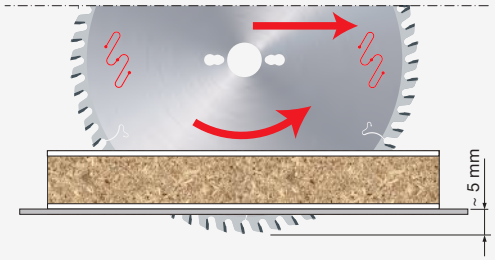
Technical information:
Circular saw blades to size chipboard and MDF bilaminated panels with good finishing and long cutting life.
Also suitable for vertical panel sizing machines.
No scoring saw blade needed.

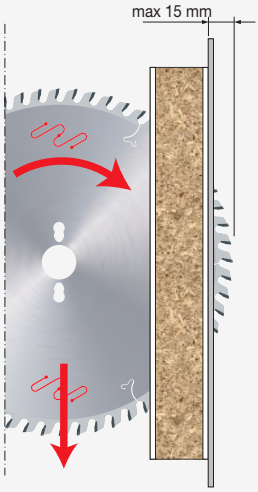
D mm	B mm	b mm	d mm	Z	NL	Freud Code	Art. No.
220	3,2	2,2	30	42	2/7/42	**LU3B 0100**	F03FS05069
250	3,2	2,2	30	48	FT01	**LU3B 0200**	F03FS05071
303	3,2	2,2	30	60	FT01	**LU3B 0300**	F03FS05073
303	3,2	2,2	30	60	FT01	**LU3B 1300 ***	F03FS06478

FT01: 2/7/42 + 2/9/46,4 + 2/10/60

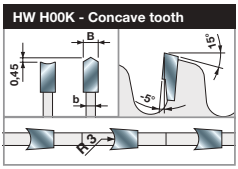
Working with spindle over the working plane

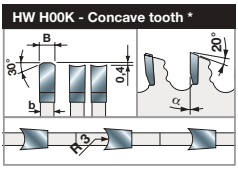
With positive hook angle, the blade cuts through the material with ease and delivers an extremely clean cut thanks to the concave front of the teeth.





LU3C
Saw blades to cut bilaminated panels





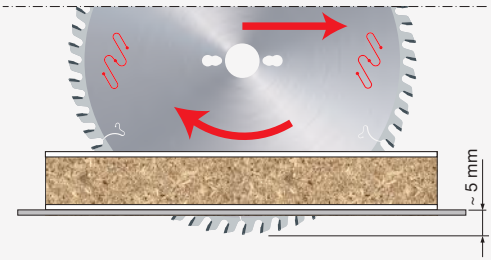
Technical information:
Concave tooth to size chipboard and MDF bilaminated panels with good finishing and long cutting life.
Also suitable for vertical panel sizing machines.
No scoring saw blade needed.

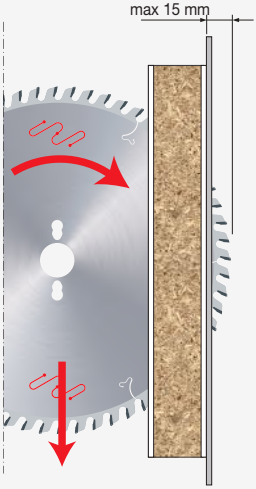
D mm	B mm	b mm	d mm	Z	α	NL	Freud Code	Art. No.
250	3,2	2,2	30	48		FT01	**LU3C 0200**	F03FS05077
303	3,2	2,2	30	60		FT01	**LU3C 0300**	F03FS05078
303	3,4	2,4	30	66	0°	FT01	**LU3C 0302 ***	F03FS09038

FT01: 2/7/42 + 2/9/46,4 + 2/10/60 - **FT02:** 2/9/46,4 + 2/10/60

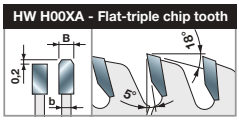
Working with spindle over the working plane

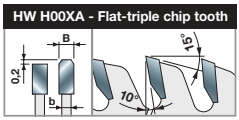
With negative hook angle, the quality of cut is extremely accurate on both sides of the panel.





LU3D
Saw blades to cut bilaminated panels



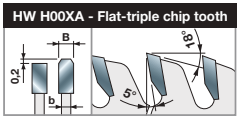


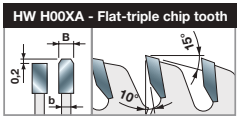
Technical information:
Flat-triple chip tooth design to size chipboard and MDF bilaminated panels with good finishing and extremely long lasting cutting life.
Hook angle 5° for cutting height up to 30 mm.
Hook angle 10° for cutting height up to 40 mm.
Scoring saw blade needed: LI16 or LI25 depending on the machine.

D mm	B mm	b mm	d mm	Z	α	NL	Freud Code	Art. No.
250	3,2	2,2	30	80	5°	FT01	**LU3D 0400**	F03FS05088
300	3,2	2,2	30	96	5°	FT01	**LU3D 0600**	F03FS05093
350	3,5	2,5	30	108	5°	FT02	**LU3D 0900**	F03FS05098
300	3,2	2,2	30	72	10°	FT01	**LU3D 2100**	F03FS05810
300	3,2	2,2	30	96	10°	FT01	**LU3D 1500**	F03FS05104

FT01: 2/7/42 + 2/9/46,4 + 2/10/60 - **FT02:** 2/9/46,4 + 2/10/60

LG3D
Saw blades to cut bilaminated panels





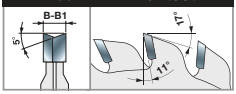
Technical information:
Alternative solution to LU3D blade for chipboard and MDF bilaminated panel sizing.

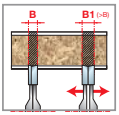
D mm	B mm	b mm	d mm	Z	α	NL	Freud Code	Art. No.
250	3,2	2,2	30	80	5°	FT01	**LG3D 0400**	F03FS07438
300	3,2	2,2	30	96	5°	FT01	**LG3D 0600**	F03FS07436
350	3,5	2,5	30	108	5°	FT02	**LG3D 0900**	F03FS07437
300	3,2	2,2	30	72	10°	FT01	**LG3D 2100**	F03FS07574

FT01: 2/7/42 + 2/9/46,4 + 2/10/60 - **FT02:** 2/9/46,4 + 2/10/60

LI16M
Adjustable scoring saw blades

HW H00XA - ATB 5° tooth





B= Minimum kerf of the scoring saw blade.

B1= Maximum kerf of the scoring saw blade.

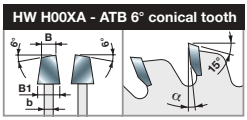
Technical information:
Saw blade to score the coating on bilaminated panels.

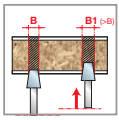
D mm	B-B1 mm	d mm	Z	NL	Freud Code	Art. No.
100	2,8 - 3,6	20	12 + 12	Schelling - Panhans - Martin	**LI16M BA3**	F03FS02491
120	2,8 - 3,6	20	12 + 12	Holzher - SCM	**LI16M AA3**	F03FS02485
120	2,8 - 3,6	22	12 + 12	Altendorf - Martin - Mrozek	**LI16M AB3**	F03FS02488
120	2,8 - 3,6	50	12 + 12	Altendorf - Griggio	**LI16M PF3***	F03FS02512
125	2,8 - 3,6	20	12 + 12	Paoloni	**LI16M FA3**	F03FS02500

* Thickness adjustment controlled by the machines, no spacers required.

LI25M
Conical scoring saw blades

HW H00XA - ATB 6° conical tooth





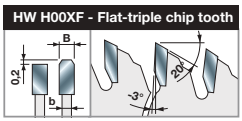
B= Minimum kerf of the scoring saw blade.

B1= Maximum kerf of the scoring saw blade.

Technical information:
Saw blade to score the coating on bilaminated panels.
For each 1 mm height displacement the cut becomes 0,25 mm wider.

D mm	B-B1 mm	b mm	d mm	Z	NL	Freud Code	Art. No.
100	3,1 - 4,3	2,2	20	24	Schelling	**LI25M31BA3**	F03FS02610
120	2,8 - 4,0	2,2	20	24	Schelling	**LI25M28EA3**	F03FS02604
120	3,1 - 4,3	2,2	20	24		**LI25M31EA3**	F03FS02620
120	3,1 - 4,3	2,2	22	24		**LI25M31EB3**	F03FS02622
120	3,1 - 4,3	2,5	20	24		**LI25M31EC3**	F03FS05978
125	3,1 - 4,3	2,2	20	24	Panhans - Schelling	**LI25M31FA3**	F03FS02623
150	3,4 - 4,6	2,2	30	36	SCM	**LI25M34KC3**	F03FS02639

LU3F
Saw blades to cut bilaminated panels and plastic materials

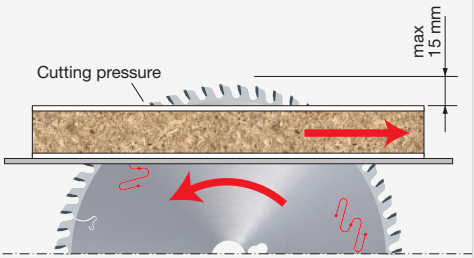


Technical information:
Circular saw blades suitable to work melamine-coated chipboard, MDF, HPL panels and plastic materials.
The H00XF Carbide grants extremely long blade lifetime.
No scoring saw blade needed.

D mm	B mm	b mm	d mm	Z	NL	Freud Code	Art. No.
250	3,2	2,2	30	80	FT01	**LU3F 0200**	F03FS05119
300	3,2	2,2	30	96	FT01	**LU3F 0300**	F03FS05121
350	3,5	2,5	30	108	FT02	**LU3F 0400**	F03FS05124

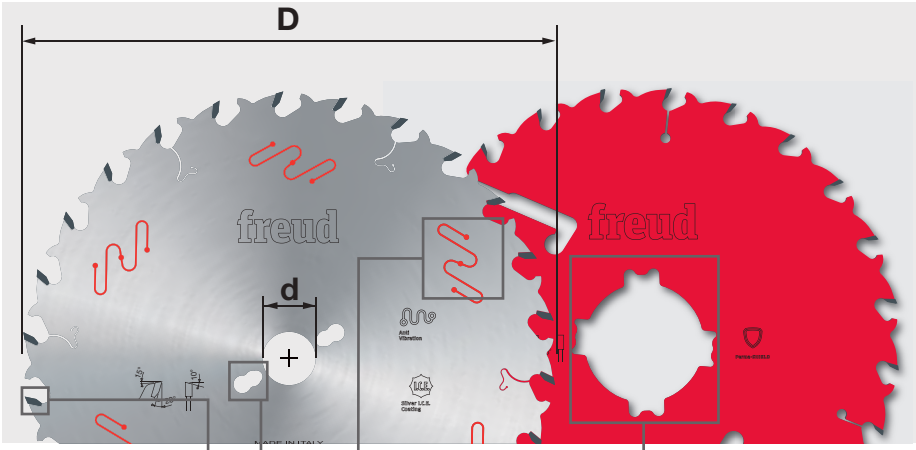
FT01: 2/7/42 + 2/9/46,4 + 2/10/60 - **FT02:** 2/9/46,4 + 2/10/60

Working with spindle under the working plane



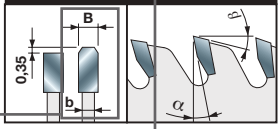
The cutting pressure acts over the working plane.

EXPLANATION OF SYMBOLS AND ABBREVIATIONS



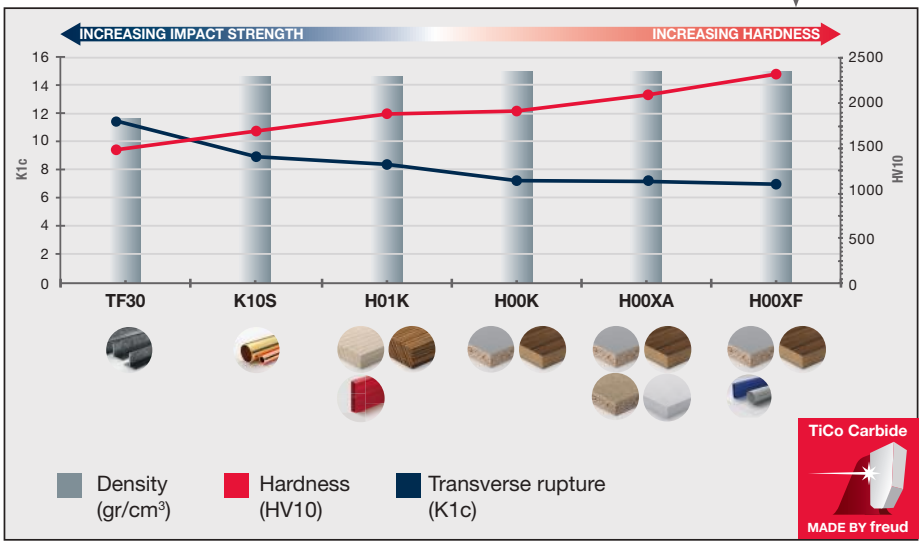
D mm	B mm	b mm	d mm	Z	NL - KN	Freud Code	Art. No.
250	3,2	2,2	30	22	FT01	**ABCD 1234**	A00BC01234
250	3,2	2,2	70	22	4CH 21x5	**ABCD 1234**	A00BC01234

HW H00XA

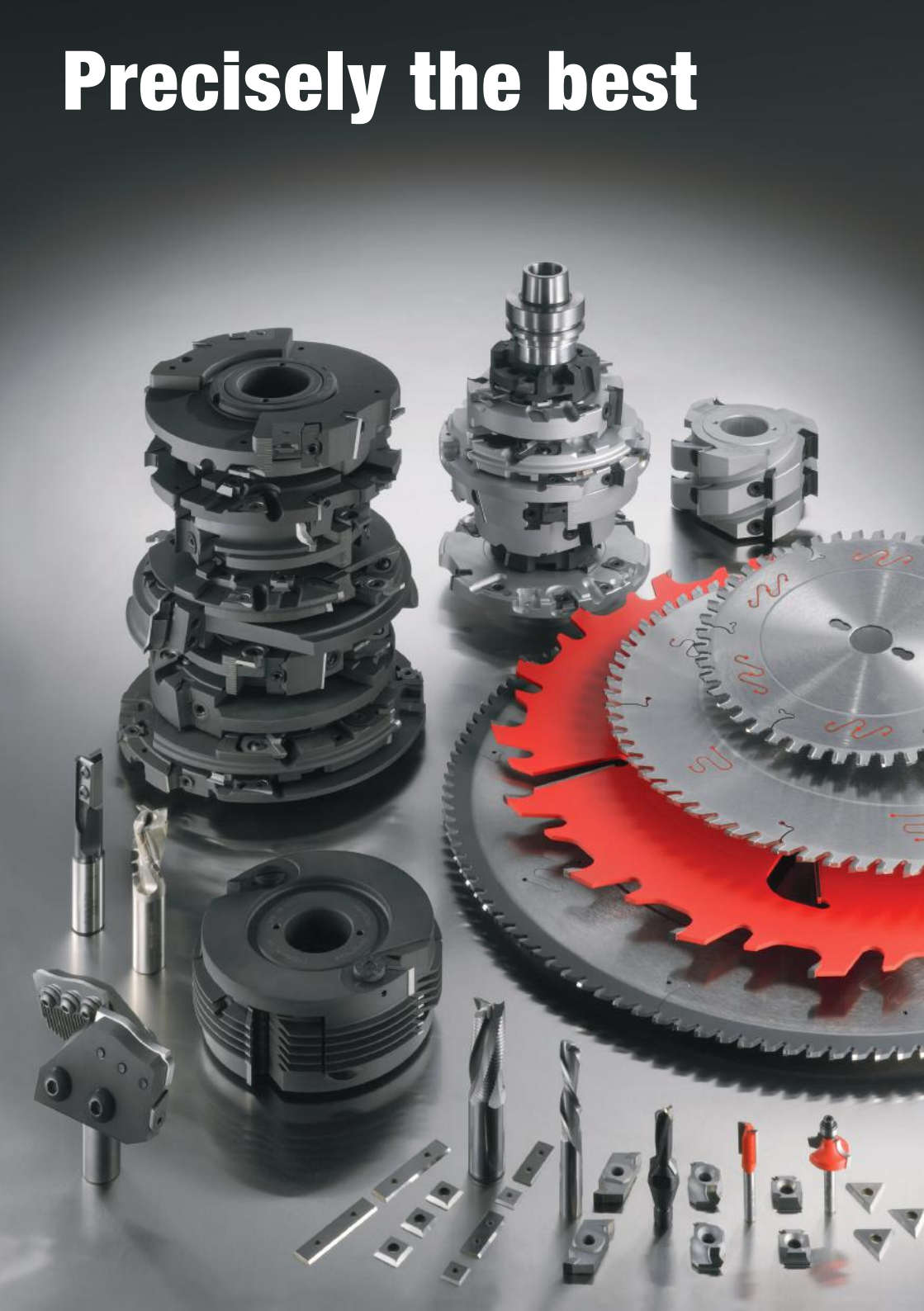


Tooth features

OVERVIEW OF FREUD MICRO GRAIN MICRO-GRAIN CARBIDE (HW)
HARDNESS USED FOR MANUFACTURING TIPS



Precisely the best



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Freud is a worldwide leader in the cutting tool industry and the biggest manufacturer of premium circular saw blades. Since 1962 Freud designs and produces an extensive range of superior quality circular saw blades, cutter heads & brazed cutters, drilling, routing & CNC tools as well as knives and accessories.

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