

freud.

Circular Saw Blades

Kružne testere

Catalogue 2018/19 - Katalog 2018/19



Your productive partner

Vaš pouzdan partner

Premium quality industrial tools for superior efficiency

Industrijski alati vrhunskog kvaliteta za maksimalnu efikasnost



A wide range of top performing products

- An extensive variety of precise and high-tech tools.
- Circular Saw Blades: the biggest manufacturer of high quality saw blades worldwide.
 - Cutterheads and Brazed Cutters: freud sets the highest standard in the wood industry and window tooling.
 - Knives, Spare parts and Accessories: in-house production of all Carbide inserts, unique in the world.
 - Drilling, Routing & CNC Tools: a complete range for all applications.

Široka gama vrhunskih proizvoda

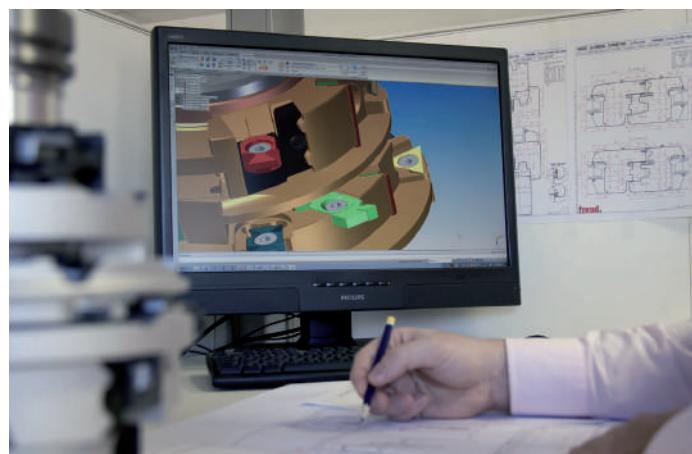
Veliki izbor preciznih i modernih alata.

- Kružne testere: najveći proizvođač visokokvalitetnih testera na svetu.
- Glodala sa izmenjivim i lemljenim pločicama: FREUD postavlja najviše standarde u drvnoj i industriji prozora.
- Pločice, rezervni delovi i dodaci: FREUD je jedinstven u svetu po proizvodnji svih karbidnih elemenata u okviru kuće.
- Alati za CNC: kompletan gama za sve aplikacije.



A wide range of industrial cutting tools.
Široka gama industrijskih alata za rezanje.

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Advanced engineering and technology.
Napredno projektovanje i tehnologija.

High quality solutions for your applications

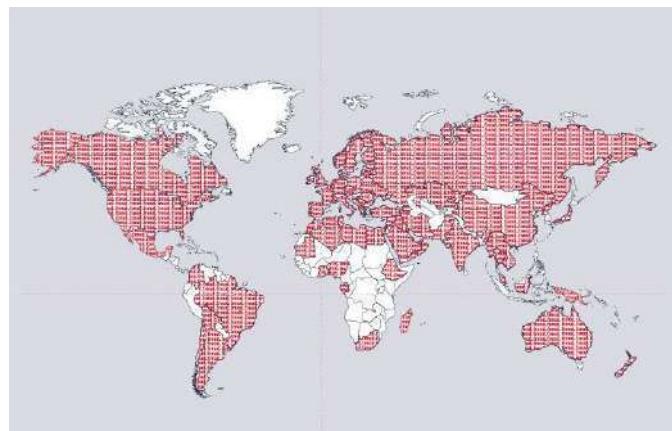
Engineering competence and manufacturing know-how.

- Customized-to-Order: products to match special production needs.
- Enhanced technologies: Silver I.C.E., Perma-SHIELD, EXrim, ISOprofil, High Speed ISOprofil and Split-Edge.

Visokokvalitetna rešenja za Vaše aplikacije

Stručnost u konstruisanju i proizvodnji.

- Specifični zahtevi: proizvodi po specijalnim zahtevima proizvodnje.
- Napredne tehnologije: Silver I.C.E, Perma-SHIELD, EXrim, ISOprofil, High Speed ISOprofil i Split-Edge.



Worldwide presence.
Prisutnost širom sveta.

Global services wherever you are

A belief in "think global and act local".

- Our worldwide subsidiaries and partners in over 90 countries ensure an extensive service and distribution network.
- Since 2009 freud is part of Bosch group, leveraging the global network of the world leading technology supplier.

Globalna usluga gde god da se nalazite

Verovanje u "misli globalno, radi lokalno".

- Naši agenti i partneri širom sveta u preko 90 zemalja osiguravaju dobru uslugu i distribuciju.
- Od 2009. godine FREUD je deo BOSCH grupe, čineći globalnu mrežu vodećeg svetskog dobavljača tehničkih proizvoda.

Advanced technology

Napredna tehnologija

Innovative solutions to maximize
your investments
Inovativna rešenja
za maksimizaciju Vaših investicija

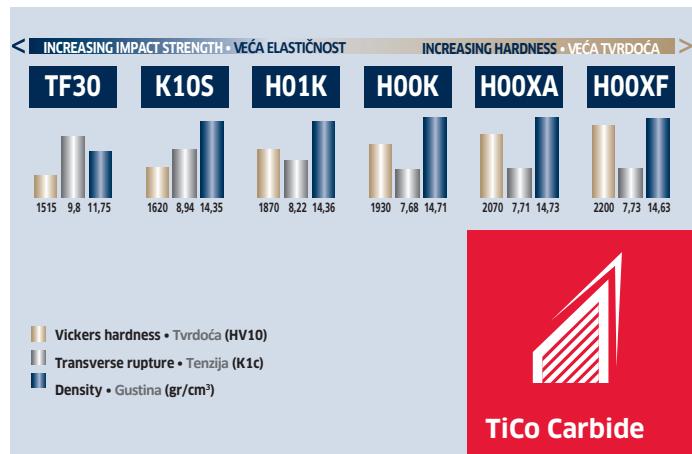


In-house Tungsten Carbide (HW) production

- TiCo Carbide is a specially formulated, highly compact Titanium Cobalt Carbide, engineered and manufactured in-house by freud.
- Special HW grades are mixed based on application needs and checked according to strict quality criteria.
- Special tooth geometries are developed for perfect cuts.

Proizvodnja Tungsten Karbida (HW) "u kući"

- TiCo Karbid je specijalna formula, visokokompaktna verzija Titanijum Kobalt Karbida, stvorena i proizvedena "u kući" od strane FREUD-a.
- Specijalne klase HW mešaju se po potrebi i proveravaju po striktnim kriterijumima kvaliteta.
- Specijalna geometrija zuba razvijena je da bi se omogućio savršen rez.



Overview of different standard HW grades.
Tablica različitih standardnih HW klasa.

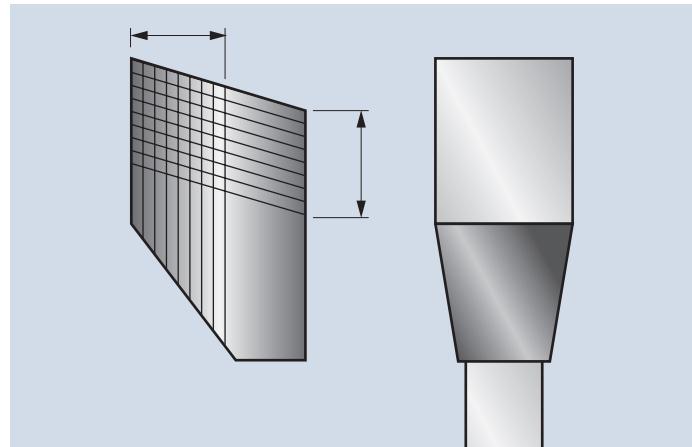
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Multiple sharpenings: super square tooth design

- Tip thickness 30% greater than standard tips.
- Up to 25 sharpenings to extend the product life-time.

Višetruka oštrena: superkvadratni zub

- Debljina vrha 30% veća od standardne.
- Do 25 oštrena i znatno duži radni vek alata.



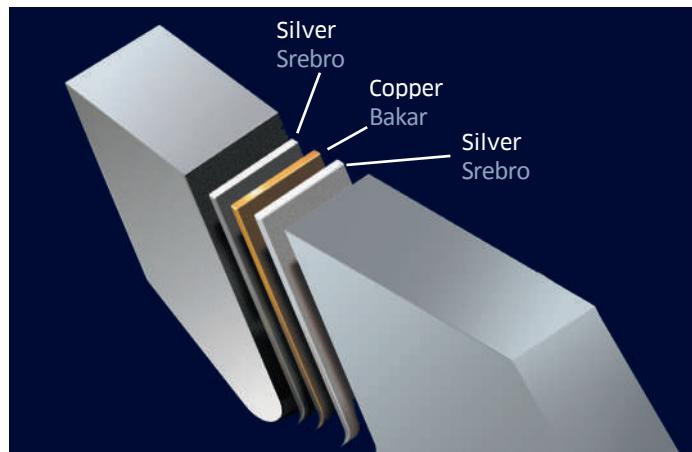
Supersquare tooth.
Superkvadratni zub.

Maximum durability: tri-metal shock resistant brazing

- freud special tri-metal alloy consists of copper wrapped between layers of silver.
- This solution allows the Carbide tips to withstand extreme impact, for maximum durability.

Maksimalna izdržljivost: trimetalni izuzetno otporan sloj

- FREUD-ov specijalni trimetalni sloj sastoji se od bakra između dva sloja srebra.
- Ovakvo rešenje omogućava da Karbidni vrhovi mogu da podnesu ekstremne uslove i imaju maksimalnu trajnost.



Tri-metal brazing.
Trimetalni sloj.

Superior finishing

Superioran završni rez

A flawless result with no re-work
Besprekoran rezultat od prvog do
poslednjeg reza



Reduced friction: 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 life time of the blade.

Smanjeno trenje: Silvet I.C.E. zaštitni sloj

- Antikorozivni zaštitni sloj visokih performansi održava temperaturu testere nižom tokom rada.
- Nelepljivi sloj poboljšava radne karakteristike smanjenjem lepljenja piljevine, značajnim smanjenjem trenja i produžavanjem veka trajanja sečiva.



**Silver I.C.E.
Coating**

Silver I.C.E. coating.
Silver I.C.E. zaštitni sloj

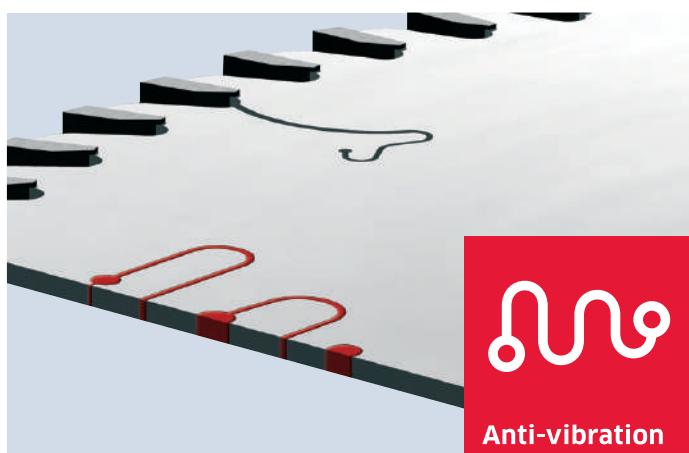
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Improved precision: Anti-vibration slots for the perfect finishing

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

Poboljšana preciznost: Antivibracioni prorez za savršen rez

- Prorezni na telu testere laserski su usečeni uz pomoć inovativne FREUD-ove tehnologije.
- Prorezni su popunjeni termoplastičnim poliuretanskim materijalom, koji značajno smanjuje vibracije vibracije i buku.



Anti-vibration

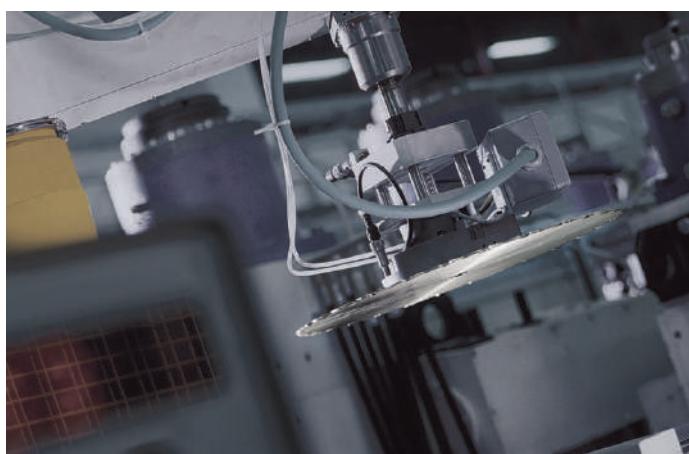
Section view of the antivibration slots.
Presek antivibracionih prostate

No blade distortion: laser cut steel, tensioning and balancing

- The high strength laser cut steel extends the blade durability, whereas the tensioning process guarantees maximum precision.
- An automated system balances freud blades one by one, eliminating completely the harmful vibrations.

Nema krivljenja testere: laserski sečen čelik, zategnut i balansiran

- Izuzetno izdržljiv laserski sečen čelik produžava vek trajanja testere, dok proces zatezanja garantuje maksimalnu preciznost.
- Automatizovan sistem balansira sve FREUD testere, eliminirajući potpuno štetne vibracije.



Balancing.
Balansiranje.

Circular saw blades for INDUSTRIAL MACHINES

Kružne testere za INDUSTRISKE MAŠINE

Choose the right tool
Izaberite odgovarajući alat

* LM10 - Only softwood
* LM10 - Samo meko drvo

Suitable for / Odgovarajuće za	Ultimate Najbolja	PERFORMANCE / PERMANSE	
		High Odlična	Good Dobra
Solid wood Masiv	 Multi-rip saw blades for ripping Testere za višelisne cirkulare - uzdužan rez	LM01 - LM10*	LM02-LM03-LM04-LM05- LM06-LM07-LM08
	 Ripping Uzdužan rez	LU1F-LU1G	LU1C-LU1D-LU1E-LU2A- LU2B-LG1C
	 Cross cutting Poprečan rez	LU2A-LU2B-LU2C- LU2D-LU2F	LU2E-LG2C LU1A-LU1E
	 Ripping and cross cutting Uzdužan i poprečan rez		LG2A-LG2B-LU1H LU1B
Laminated Laminati	 Saw blades for cutting laminates Testere za rezanje laminata	LSB X LSB-LU3A-LU3B-LU3C- LU3D-LU3E-LU3F	LG3D
	 Scoring saw blades for laminates Predrezači za laminate	LI13MD-LI13MS-LI14MD- LI14MS-LI16M-LI17M- LI20M-LI22MD-LI22MS- LI25M-LI27M	
Wood composites Drveni kompoziti		LSB X LSB-LU2C-LU2D-LU2E-LU2F- LU3A-LU3B-LU3C-LU3D-LU3F	LU2A-LU2B-LU3E- LG2A-LG2B-LG2C-LG3D LU1E-LU1H
Veneered Furnir		LU3A-LU3B-LU3C-LU3D- LU3E-LU3F	LG3D
Picture frames Ramovi		LU1I-LU1L	
Non ferrous metals Obojeni metali		LU5F LU5A-LU5B-LU5C-LU5D- LU5E	
Ferrous metals Crni metali		LU6A	
Plexiglas Pleksiglas		LU4A-LU4B	
Plastic materials Plastični materijali		LU5F LU4A-LU4B-LU5D-LU5B	LU2C-LU2D-LU2F- LG2C-LU3F
PVC PVC		LU5F	LU5B - LU5D
Solid surfaces Radne ploče		LU4D	

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Circular saw blades for PORTABLE MACHINES

Kružne testere za RUČNE CIRKULARE

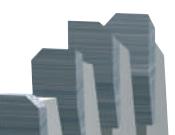
Choose the right tool
Izaberite odgovarajući alat

Suitable for / Odgovarajuća za:		PERFORMANCE / PERMANSE		
		Ultimate Najbolja	High Odlična	Good Dobra
Solid wood Masiv	 Ripping Uzdužan rez	LP60M		
	 Cross cutting Poprečan rez	LP40M-LP60M		
	 Ripping and cross cutting Uzdužan i poprečan rez		LP20M-LP30M-LP60M	LP70M
Laminated Laminati	 Saw blades for cutting laminates Testere za rezanje laminata	LP67M	LP85M-LP91M-LP40M	
Wood composites Drveni kompoziti			LP91M	LP40M
Veneered Furnir			LP91M	
Non ferrous metals Obojeni metali		LP80M	LP85M-LP91M-LP40M	
Ferrous metals Crni metali		LP90M	LP91M	
Plexiglas & plastic materials Pleksiglas i plastični materijali			LP91M	
PVC PVC			LP91M	
Solid surfaces Radne ploče			LP91M	

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Teeth shape varieties as applied to saw blades

Vrste zuba po tipovima testera

FLAT TOOTH RAVAN ZUB	DOUBLE TRIPLE CHIP TOOTH DUPLI TRAPEZNI ZUB	CONICAL TOOTH NAIZMENIČAN KOSI ZUB	BEVELLED TOOTH NAIZMENIČAN BW ZUB
LM01 - LM02 - LM05 - LM06 - LM07 - LM08 - LM10 - LU1E - LI20M - LI17M - LT18M - LT20M	LSC - LU4D - LU6A	LI25M	LU1B
			
Suitable for / Odgovarajući za:	Suitable for / Odgovarajući za:	Suitable for / Odgovarajući za:	Suitable for / Odgovarajući za:
 Ripping of softwood Legno tenero lungo vena	 Ferrous metals Metalli ferrosi	 Laminates (scoring saw blades) Laminati (lame incisore)	 Ripping and cross cutting of softwood Legno tenero lungo e traverso vena
 Ripping of hardwood Legno duro lungo vena	 Solid surfaces Materiali polimerici		 Ripping and cross cutting of hardwood Legno duro lungo e traverso vena
			 Chipboard Truciolare
			 Solid wood and composites with nails and impurities Legni e compositi con chiodi o impurità

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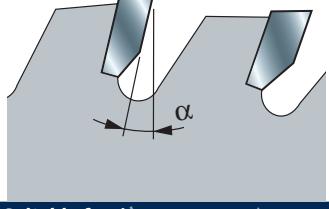
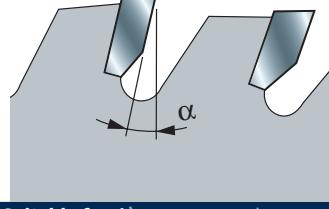
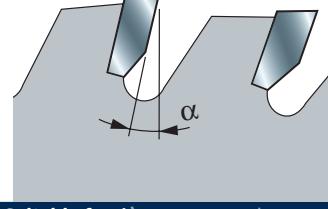
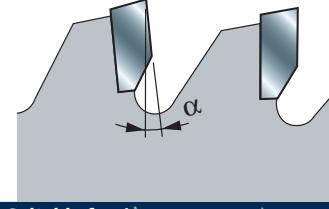
FLAT-TRIPLE CHIP TOOTH RAVAN - TRAPEZNI ZUB	INCLINED TOOTH KOSI ZUB	PYRAMID TOOTH PIRAMIDALNI ZUB	AXIAL TOOTH AKSIJALNI ZUB
LU3D - LU3E - LU3F - LG3D - LU4A - LU5A - LU5B - LU5C - LU5D - LU5E - LP40 - LP80 - LP90 - LP85 - LP91	LI22M - LI13M - LI14M - LT16M - LT12M - LT14M	LU5F	LU1L - LU4B
			
Suitable for / Odgovarajući za:	Suitable for / Odgovarajući za:	Suitable for / Odgovarajući za:	Suitable for / Odgovarajući za:
 Laminates / bilaminates Laminati / obostrano oplemenjeni pločasti materijali	 Cross cutting of softwood Poprečno rezanje mekog drveta	 PVC	 Cross cutting of softwood Poprečno rezanje mekog drveta
 Chipboard Iverica	 Cross cutting of hard-wood Poprečno rezanje tvrdog drveta	 Non-ferrous metals Obojeni metali	 Cross cutting of hard-wood Poprečno rezanje tvrdog drveta
 MDF Medijapan (MDF)	 Laminates / bilaminates Laminati / obostrano oplemenjeni pločasti materijali		 Picture frames Ramovi za slike
 Plywood Furnir (šper)	 Plywood Furnir (šper)		 Plexiglas
 Plexiglas Pleksiglas	 Scoring saw blades, for laminates Predrezači, za laminate		 Plastic materials Plastični materijali
 Plastic materials Plastični materijali			
 Non-ferrous metals Obojeni metali			

Teeth shape varieties as applied to saw blades

Vrste zuba po tipovima testera

CONCAVE TOOTH KONKAVNI ZUB	ROUNDED TOOTH ZAOBLJENI ZUB	ALTERNATE TOP BEVEL TOOTH NAIZMENIČNI BW ZUB
LU3B - LU3C	LU1G	LM03 - LM04 - LM08 - LU1A/C/D/F/H/I - LU2A/B/C/D/E/F - LU3A - LG1C - LG2A - LG2B - LG2C - LI16M LI27M - LP20M - LP30M - LP40M - LP60M - LP67M - LP70M
		
Suitable for / \	Suitable for / \	Suitable for / \
 Laminates / bilaminates Laminati / obostrano oplemenjeni pločasti materijali	 Ripping of softwood Uzdužno rezanje mekog drveta	 Ripping and cross cutting of softwood Uzdužno i poprečno rezanje mekog drveta
		 Ripping and cross cutting of hardwood Uzdužno i poprečno rezanje tvrdog drveta
		 Chipboard Iverica
		 MDF Medijapan (MDF)
		 Plywood Furnir (šper)
		 Picture frames Ramovi za slike

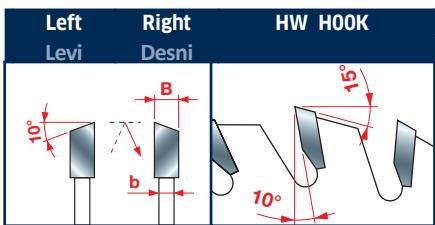
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HOOK ANGLES GRUDNI UGOVI	(α) 15° ÷ 25°	(α) 5° ÷ 15°	(α) 0° ÷ 5°	(α) 0° ÷ -10°
				
Suitable for / \	Suitable for / \	Suitable for / \	Suitable for / \	
 Cross cutting of softwood Poprečno rezanje mekog drveta	 Chipboard Iverica	 Chipboard Iverica	 Plexiglas Pleksiglas	
 Cross cutting of hardwood Poprečno rezanje tvrdog drveta	 Plywood Furnir (šper)	 Non-ferrous metals Obojeni metali	 Plastic materials Plastični materijali	
 Solid surfaces Kompaktni materijali (radne ploče)	 Laminates / bilaminates Laminati / obostrano oplemenjeni pločasti materijali	 Ferrous metals Crni metali	 Non-ferrous metals Obojeni metali	
	 PVC		 Laminates / bilaminates Laminati / obostrano oplemenjeni pločasti materijali	

LI13MD - LI13MS

Right
Desni

Left
Levi

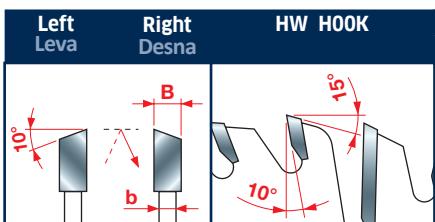


Tooth features - Karakteristike zuba

LI14MD - LI14MS

Right
Desna

Left
Leva



Tooth features - Karakteristike zuba

HW - Inclined tooth scoring saw blades

TM - Predrezači sa kosim zubom

To score bilaminated panels with very fragile plastic coating.

Machines: Panel sizing machines, double-end tenoners, edge banders.

Features: Inclined tooth with positive cutting angle.

Material: Bilaminated chipboard or MDF.

Za prosecanje obostrano oplemenjenih pločastih materijala sa veoma osetljivom plastičnom folijom.

Mašine: Formatizeri, dvostrani formatizeri, kanterice.

Oblik zuba: Kosi sa pozitivnim uglom rezanja.

Materijal: Obostrano oplemenjena iverica i medijapan (MDF).

D mm	B mm	b mm	d mm	Z	NL FT	Code Šifra D - Desni	SAP SAP D - Desni	Code Šifra S - Levi	SAP SAP S - Levi
100	3,2	2,2	20	24		LI13MD AA3	F03FS02452	LI13MS AA3	F03FS02466
100	3,2	2,2	22	24		LI13MD AB3	F03FS02454	LI13MS AB3	F03FS02468
125	3,2	2,2	20	30		LI13MD BA3	F03FS02455	LI13MS BA3	F03FS02470
150	3,2	2,2	30	48		LI13MD DA3	F03FS02459	LI13MS DA3	F03FS02474
150	3,2	2,2	55	48		LI13MD DB3	F03FS02461	LI13MS DB3	F03FS02476

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HW - End trim unit for panels with banded edges

TM - Testera za odsecanje kant trake

For cutting and boarding panels with banded edges.

Machines: Edge banders.

Features: Inclined toothing with 4 oversized teeth with positive cutting angle.

Material: Bilaminated chipboard or MDF.

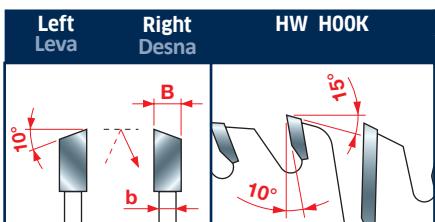
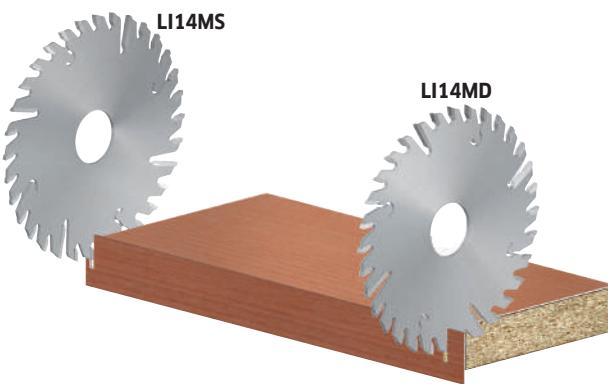
Za materijale sa kant trakom.

Mašine: Kanterice.

Oblik zuba: Kosi, sa 4 čistača i pozitivnim uglom rezanja.

Materijali: Obostrano oplemenjena iverica ili medijapan (MDF).

D mm	B mm	b mm	d mm	Z	NL FT	Code Šifra D - Desna	SAP SAP D - Desna	Code Šifra S - Leva	SAP SAP S - Leva
140	3,2	2,2	30	28+4		LI14MD CA3	F03FS02481	LI14MS CA3	F03FS02483

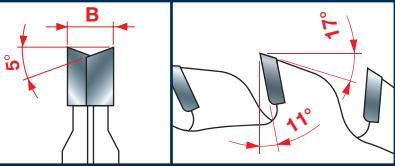


Tooth features - Karakteristike zuba

LI16M

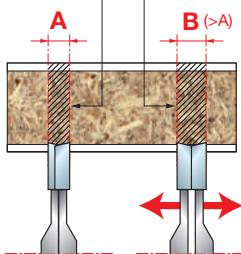


HW HOOKA



Tooth features - Karakteristike zuba

A= Cutting kerf of main saw blade.
B= Cutting kerf of the adjustable scorer.
A= Širina reza glavne rezare.
B= Širina reza podešivog predrezača.



HW - Adjustable scoring saw blades TM - Podesivi predrezači

To score the coating on bilaminated panels.

Machines: Horizontal panel sizing machines that do not allow the adjustment of the scoring depth. Max scoring depth 2 mm.

Features: ATB tooth 5° with positive cutting angle.

Material: Bilaminated chipboard or MDF.

Za prosecanje folije na obostrano oplemenjenim pločastim materijalima.

Mašine: Horizontalni formatizeri bez podešavanja dubine prosecanja.

Maksimalna dubina prosecanja je 2mm.

Oblik zuba: ATB 5° sa pozitivnim uglom rezanja.

Materijal: Dvostruko oplemenjena iverica ili MDF (medijapan).

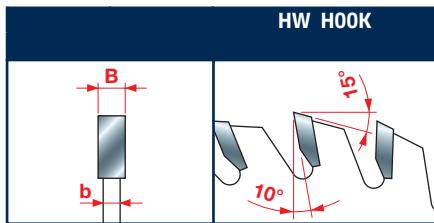
D mm	B mm	d mm	Z	Machines Mašine	Code Šifra	SAP SAP
80	2,8-3,6	20	10+10	Robland	LI16M HA3	F03FS02502
80	2,8-3,6	20	12+12	Felder	LI16M GA3	F03FS02501
100	2,8-3,6	20	12+12	Schelling - Panhans - Martin	LI16M BA3	F03FS02491
100	2,8-3,6	22	12+12	Altendorf - Striebig - Panhans	LI16M BB3	F03FS02493
100	2,8-3,6	25,4	12+12	Baldan	LI16M BR3	F03FS07433
105	2,8-3,6	20	10+10		LI16M CA3	F03FS02495
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
120	2,8-3,6	50	12+12	Felder	LI16M RF3*	F03FS06512
120	4,0-5,0	50	12+12		LI16M IF3*	F03FS02504
125	2,8-3,6	20	12+12	Paoloni	LI16M FA3	F03FS02500
125	2,8-3,6	20	14+14		LI16M EA3	F03FS02498
125	2,8-3,6	22	14+14		LI16M EB3	F03FS02499
125	4,0-4,7	20	20+20	SCM	LI16M DA3	F03FS02496
125	4,0-5,0	45	12+12	Giben - Mayer	LI16M KE3	F03FS02506
200	4,0-5,2	50	28+28	Giben	LI16M OF3	F03FS02511

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

* Podešavanje širine se mašinski kontroliše, nisu potrebni distanceri.

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LI17M

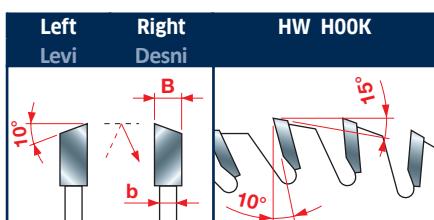


Tooth features - Karakteristike zuba

LI22MD - LI22MS

Right
Desni

Left
Levi



Tooth features - Karakteristike zuba

HW - Flat tooth scoring saw blades

TM - Predrezači sa ravnim zubom

To score the coating on bilaminated panels.

Machines: SCM Horizontal panel sizing machines.

Features: Flat tooth with positive cutting angle.

Material: Bilaminated chipboard or MDF.

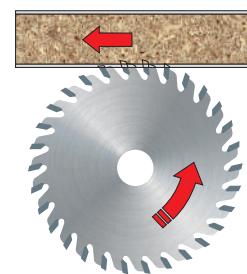
Za prosecanje folije na obostrano oplemenjenim pločastim materijalima.

Mašine: SCM horizontalni formatizeri.

Oblik zuba: Ravan sa pozitivnim uglom rezanja.

Materijal: Obostrano oplemenjena iverica ili medijapan (MDF).

D	B	b	d	Z	NL	Code	SAP
mm	mm	mm	mm		Pomoći otvor	Šifra	SAP
115	3,2	2,2	20	30		LI17M FA3	F03FS02572
120	3,2	2,2	20	30		LI17M GA3	F03FS02574



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HW - Inclined tooth scoring saw blades

TM - Predrezači sa kosim zubom

To score bilaminated panels with plastic or thermohardened resins coating.

Machines: Horizontal panel sizing machines.

Features: Inclined tooth with positive cutting angle.

Material: Bilaminated chipboard or MDF.

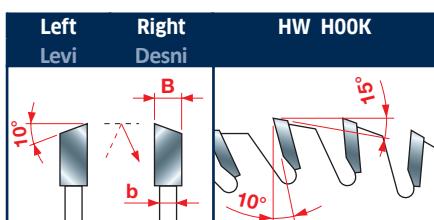
Za prosecanje obostrano oplemenjenih pločastih materijala sa tvrdom folijom.

Mašine: Horizontalni formatizeri.

Oblik zuba: Kosi sa pozitivnim uglom rezanja.

Materijal: Obostrano oplemenjena iverica ili medijapan (MDF).

D	B	b	d	Z	NL	Code	SAP	Code	SAP
mm	mm	mm	mm		Pomoći otvor	Šifra	Šifra	S - Desni	S - Levi
150	3,2	2,2	30	36		LI22MD KC3	F03FS02581	LI22MS KC3	F03FS02592
150	3,2	2,2	55	36		LI22MD KG3	F03FS02583	LI22MS KG3	F03FS02594
150	3,2	2,2	60	36		LI22MD KH3	F03FS02584	LI22MS KH3	F03FS02595
180	3,2	2,2	30	42		LI22MD NC3	F03FS02585	LI22MS NC3	F03FS02596
180	3,2	2,2	55	42		LI22MD NG3	F03FS02586	LI22MS NG3	F03FS02598
200	3,2	2,2	30	48		LI22MD PC3	F03FS02589	LI22MS PC3	F03FS02601
200	3,2	2,2	60	48		LI22MD PH3	F03FS02590	LI22MS PH3	F03FS02602



Tooth features - Karakteristike zuba

LI25M



HW - Conical scoring saw blades

TM - Konusni predrezači

To score the coating on bilaminated panels.

Machines: Horizontal panel sizing machines that allow vertical adjustment of the scorer in relation to the panel sizing saw blade kerf.

Features: ATB 6° tooth with positive cutting angle.

Material: Bilaminated chipboard or MDF.

Za prosecanje folije na obostrano oplemenjenim pločastim materijalima.

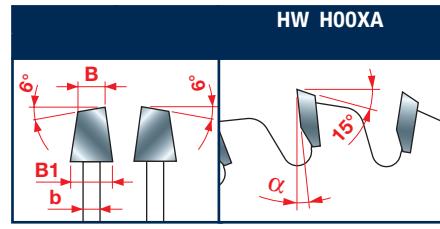
Mašine: Horizontalni formatizeri bez podešavanja dubine prosecanja.

Maksimalna dubina prosecanja je 2mm.

Oblik zuba: ATB 6° sa pozitivnim uglom rezanja.

Materijal: Obostrano oplemenjena iverica ili MDF (medijapan).

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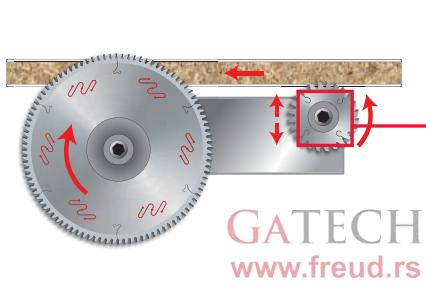
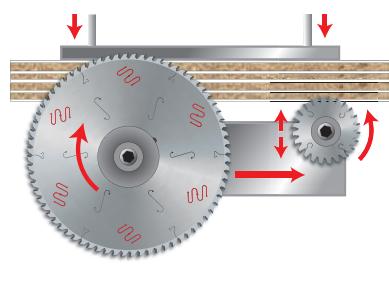
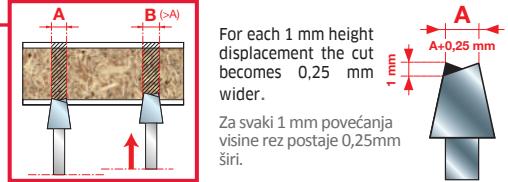
* Dedicated laser marking
* Laserske oznake



D mm	B - B1 mm	b mm	d mm	Z	α	NL Pomoći otvori	Machines Mašine	Code Šifra	SAP SAP
80	3,1 - 4,3	2,2	20	12	0°		Casadei	LI25M31AA3	F03FS02606
80	3,1 - 4,3	2,2	22	12	0°			LI25M31AB3	F03FS02608
100	3,1 - 4,3	2,5	20	20	0°			LI25M31BC3	F03FS06099
100	3,1 - 4,3	2,2	20	24	0°		Schelling	LI25M31BA3	F03FS02610
100	3,1 - 4,3	2,2	22	24	0°			LI25M31BB3	F03FS02612
110	3,1 - 4,3	2,2	20	24	0°			LI25M31CA3	F03FS02614
110	3,1 - 4,3	2,2	22	24	0°			LI25M31CB3	F03FS02615
115	3,1 - 4,3	2,2	20	24	0°			LI25M31DA3	F03FS02616
115	3,1 - 4,3	2,2	22	24	0°			LI25M31DB3	F03FS02618
120	2,8 - 4,0	2,2	20	24	0°		Schelling	LI25M28EA3	F03FS02604
120	2,8 - 4,0	2,2	22	24	0°			LI25M28EB3	F03FS02605
120	3,1 - 4,3	2,2	20	24	0°			LI25M31EA3	F03FS02620
120	3,1 - 4,3	2,2	22	24	0°			LI25M31EB3	F03FS02622
120	3,1 - 4,3	2,5	20	24	0°			LI25M31EC3	F03FS05978
120	3,4 - 4,6	2,2	20	24	0°		SCM	LI25M34EA3	F03FS02632
125	3,1 - 4,3	2,2	20	24	0°		Panhans-Schelling	LI25M31FA3	F03FS02623
125	3,1 - 4,3	2,2	22	24	0°		Martin	LI25M31FB3	F03FS02625
125	3,1 - 4,3	2,5	20	24	0°		Panhans-Schelling	LI25M31FC3	F03FS05932
125	3,4 - 4,6	2,2	20	24	0°			LI25M34FA3	F03FS02634
125	3,4 - 4,6	2,2	45	24	0°			LI25M34FE3	F03FS02636
125	4,3 - 5,5	3,2	20	24	0°		Panhans - Gabbiani	LI25M43FA3	F03FS02643
125	4,3 - 5,5	3,2	45	24	0°		Giben - Homag	LI25M43FE3	F03FS02645
125	4,5 - 5,7	3,0	20	24	0°			LI25M45FA3	F03FS02697
125	4,5 - 5,7	3,0	45	24	0°		Giben - Homag	LI25M45FE3	F03FS02699
140	3,1 - 4,3	2,2	16	28	8°	1/6/33	Scheer	LI25M31HM3	F03FS02627
140	3,4 - 4,7	3,0	45	24	8°			LI25M34HE3	F03FS02638
140	4,3 - 5,5	3,2	45	28	8°			LI25M43HE3	F03FS02647
140	4,5 - 5,7	3,0	45	24	8°			LI25M45HE3	F03FS02701
145	4,3 - 5,5	3,2	45	30	8°		Hansol Machine	LI25M43WE3	F03FS08015
150	3,1 - 4,3	2,2	30	36	8°			LI25M31KC3	F03FS02628
150	3,4 - 4,7	2,2	30	36	8°			LI25M34KC3	F03FS02639
150	4,3 - 5,6	3,2	30	36	8°			LI25M43KC3	F03FS02649
150	4,3 - 5,6	3,2	45	36	8°		SCM, Holzma, Haisung Woodworking Machinery	LI25M43KE3	F03FS02651
150	4,5 - 5,8	3,0	30	36	8°			LI25M45KC3	F03FS02702
150	4,5 - 5,8	3,0	45	36	8°			LI25M45KE3	F03FS02704
160	3,1 - 4,3	2,2	20	36	8°			LI25M31LA3	F03FS02630
160	3,4 - 4,6	2,2	25,4	36	8°			LI25M34LR3	F03FS02641
160	4,3 - 5,5	3,2	25,4	36	8°			LI25M43LR3	F03FS02660
160	4,3 - 5,5	3,2	30	36	8°			LI25M43LC3	F03FS02653
160	4,3 - 5,5	3,2	45	36	8°	3/11/70	Langzauner	LI25M43LE3	F03FS02655
160	4,3 - 5,5	3,2	55	36	8°		Giben	LI25M43LG3	F03FS02657
160	4,3 - 5,5	3,2	60	36	8°	3/6/84 + 3/7/66	Gabbiani - SCM	LI25M43LH3	F03FS02659
						3/7/80			

	D mm	B - B1 mm	b mm	d mm	Z	α	NL Pomoći otvori	Machines Mašine	Code Šifra	SAP SAP
	160	4,5 - 5,7	3,0	45	36	8°	3/11/70	Giben	LI25M45LE3	F03FS02706
	160	4,5 - 5,7	3,0	55	36	8°	3/7/66 + 3/9/72	Gabbiani	LI25M45LG3	F03FS02708
nowo	175	4,3 - 5,5	3,2	75	36	8°		Wonpoong	LI25M43WT3	F03FS07816
	180	3,1 - 4,3	2,2	16	42	8°	1/6/33	Scheer	LI25M31NM3	F03FS02631
	180	3,4 - 4,6	2,2	25,4	36	8°			LI25M34NR3	F03FS02642
	180	4,3 - 5,5	3,2	20	28	8°		Schelling - Anthon	LI25M43NA3	F03FS02661
	180	4,3 - 5,5	3,2	30	28	8°	2/7/42 + 2/10/60	Panhans - Holzer	LI25M43NC3	F03FS02663
	180	4,3 - 5,5	3,2	20	36	8°		Schelling - Anthon	LI25M43XA3	F03FS06372
	180	4,3 - 5,5	3,2	30	36	8°	2/7/42 + 2/10/60	Holzher, Nanking, KDT	LI25M43XN3	F03FS06373
	180	4,3 - 5,5	3,2	45	36	8°		Holzma	LI25M43NE3	F03FS02664
	180	4,3 - 5,5	3,2	50	36	8°	3/13/80	Giben	LI25M43NF3	F03FS02666
	180	4,5 - 5,7	3,0	20	36	8°		Schelling - Anthon	LI25M45NA3	F03FS02710
	180	4,7 - 5,9	3,5	45	36	8°		Holzma	LI25M47NE3	F03FS02715
	180	5,1 - 6,3	3,5	55	36	8°	3/7/66	Gabbiani	LI25M51NG3	F03FS02724
	180	5,7 - 6,9	4,0	20	36	8°		Anthon - Holzma	LI25M57NA3	F03FS02727
	200	4,3 - 5,5	3,2	20	36	8°	2/11/66 + 2/10/60 + 2/9/62	Schelling	LI25M43PA3	F03FS02670
	200	4,3 - 5,5	3,2	22	36	8°			LI25M43PB3	F03FS02673
	200	4,3 - 5,5	3,2	30	36	8°	2/9/60 + 2/10/60	Scheer	LI25M43PC3	F03FS02674
	200	4,3 - 5,5	3,2	45	36	8°		Holzma, Hyundai Sangi	LI25M43PE3	F03FS02676
	200	4,3 - 5,5	3,2	50	36	8°	2/7/80 + 3/13/80	Giben, KDT	LI25M43PF3	F03FS02679
	200	4,3 - 5,5	3,2	65	36	8°	2/9/100 + 2/9/110	Selco	LI25M43PI3	F03FS02681
	200	4,3 - 5,5	3,2	80	36	8°	2/14/110	Gabbiani	LI25M43PL3	F03FS02683
nowo	200	4,3 - 5,5	3,2	75	36	8°		Hyundai Sangi	LI25M43PT3	F03FS07755
	200	4,5 - 5,7	3,0	22	36	8°			LI25M45PB3	F03FS02712
	200	4,5 - 5,7	3,0	65	36	8°	2/8,5/110	Selco	LI25M45PI3	F03FS02714
	200	4,7 - 5,9	3,5	20	36	8°	2/11/66		LI25M47PA3	F03FS02716
	200	4,7 - 5,9	3,5	22	36	8°			LI25M47PB3	F03FS02717
	200	4,7 - 5,9	3,5	30	36	8°	2/9/60	Scheer	LI25M47PC3	F03FS02718
	200	4,7 - 5,9	3,5	45	36	8°		Holzma	LI25M47PE3	F03FS02719
	200	4,7 - 5,9	3,5	65	36	8°	2/9/100 + 2/9/110	Selco	LI25M47PI3	F03FS02720
	200	5,4 - 6,6	3,8	20	36	8°			LI25M54PA3	F03FS02726
	200	5,7 - 6,9	4,0	45	36	8°		Holzma	LI25M57PE3	F03FS02728
nowo	200	5,7 - 6,9	3,5	65	36	8°	2/9/110		LI25M57PI3BS*	F03FS08165
	200	6,1 - 7,3	4,2	20	36	8°	2/11/66	Schelling, Scheer	LI25M61PA3	F03FS02730
	215	4,3 - 5,5	3,2	50	42	8°	2/7/80 + 3/15/80	Giben	LI25M43QF3	F03FS02685
	215	4,5 - 5,7	3,2	50	42	8°	3/15/80	Giben	LI25M45PF3	F03FS02713
	220	6,3 - 7,5	4,4	20	36	8°	2/11/66	Schelling	LI25M63UA3	F03FS02732
nowo	250	3,1 - 4,3	2,2	30	54	8°			LI25M31OC3	F03FS07595
	250	4,3 - 5,5	3,2	50	48	8°	3/13/80	Giben	LI25M43OF3	F03FS02669
	250	4,3 - 5,5	3,2	30	48	8°	2/10/60		LI25M43OC3	F03FS02668
	280	4,3 - 5,5	3,2	30	48	6°	2/10/60	Panhans	LI25M43VC3	F03FS07419
	300	4,3 - 5,5	3,0	65	48	6°	2/9/100 + 2/9/110	Selco	LI25M43RX3	F03FS07616
	300	4,3 - 5,5	3,2	30	48	6°	2/11/75+2/13/94	Schelling	LI25M43RC3	F03FS07577
	300	4,3 - 5,5	3,5	50	48	12°	3/15/80	Giben	LI25M43RM3	F03FS02693
	300	4,3 - 5,5	3,2	65	72	12°	2/9/110	Selco	LI25M43RI3	F03FS02689
	300	4,3 - 5,5	3,2	80	72	12°	2/14/110		LI25M43RL3	F03FS02691
	300	4,7 - 5,9	3,5	65	48	6°	2/9/110	Selco	LI25M47RX3	F03FS07744
	320	4,3 - 5,5	3,0	45	48	12°			LI25M43SE3	F03FS02696
	320	4,3 - 5,5	3,2	45	48	12°			LI25M43SA3	F03FS02695
	340	4,7 - 5,9	3,5	45	72	12°	3/14/65	Holzma	LI25M47TE3	F03FS02722

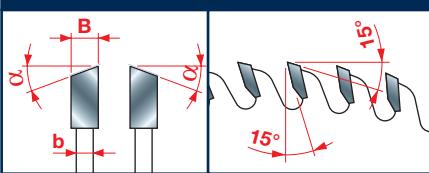
A= Cutting kerf of main saw blade.
B= Cutting kerf of the conical scorer, which can be adjusted vertically.
A= Širina reza glavne testere.
B= Širina reza konusnog predrezača, koja se može vertikalno podešavati.



LI27M



HW HOOXA

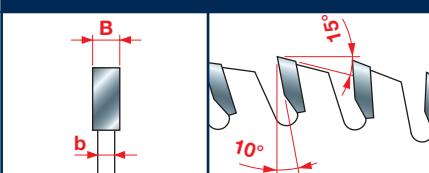


Tooth features - Karakteristike zuba

LI20M



HW HOOK



Tooth features - Karakteristike zuba

HW - Postforming scoring saw blades TM - Predrezači za radne ploče

To score the coating on bilaminated panels.

Machines: Horizontal panel sizing machines.

Features: ATB tooth with positive cutting angle.

Material: Bilaminated chipboard or MDF.

Za prosecanje folije na obostrano oplemenjenim pločastim materijalima.

Mašine: Horizontalni formatizeri.

Oblik zuba: ATB sa pozitivnim uglom rezanja.

Materijal: Obostrano oplemenjena iverica ili MDF (medijapan).

D mm	B mm	b mm	d mm	Z	α	NL Pomoćni otvori	Code Šifra	SAP SAP
200	4,7	3,5	80	42	10°	2/14/110	LI27M FA3	F03FS02749
220	3,4	2,2	30	48	10°		LI27M AA3	F03FS02733
250	4,6	3,0	30	48	10°		LI27M BA3	F03FS02734
280	4,7	3,2	80	72	15°	2/14/110	LI27M47VL3	F03FS08014
280	5,0	3,5	45	84	30°		LI27M CA3	F03FS02736
300	4,5	3,0	75	72	10°		LI27M DE3	F03FS02744
300	4,55	3,0	30	72	10°		LI27M DF3	F03FS02745
300	4,55	3,2	65	72	10°	2/9/100+2/9/110	LI27M DA3	F03FS02737
300	4,55	3,2	50	72	10°	3/15/80	LI27M DD3	F03FS02743
300	4,7	3,2	80	72	10°	2/14/110	LI27M DC3	F03FS02741
300	4,95	3,0	65	72	10°	2/9/100+2/9/110	LI27M DB3	F03FS02739
340	5,0	3,5	45	48	30°	3/14/65	LI27M EA3	F03FS02746
340	5,0	3,5	45	108	30°	3/14/65	LI27M EB3	F03FS02747

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HW - Flat tooth scoring saw blades TM - Predrezači sa ravnim zubom

To score bilaminated panels with plastic coating.

Machines: Horizontal panel sizing machines.

Features: Flat tooth with positive cutting angle.

Material: Bilaminated chipboard or MDF.

Za prosecanje folije od plastičnih polimera na obostrano oplemenjenim pločastim materijalima.

Mašine: Horizontalni formatizeri.

Oblik zuba: Ravan zub sa pozitivnim uglom rezanja.

Materijal: Obostrano oplemenjena iverica ili MDF (medijapan).

D mm	B mm	b mm	d mm	Z	NL Pomoćni otvori	Code Šifra	SAP SAP	
180	3,2	2,2	50	54		3/22/80	LI20M BB3	F03FS02579

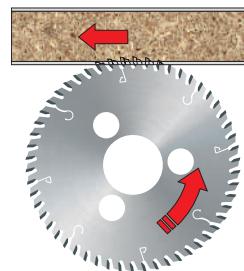


Table 1

Tabela 1

Saw blade's technical table to obtain the correct saw blade diameter based on its tip speed and the material to cut
Tabela za određivanje optimalnog prečnika testere prema perifernoj brzini i vrsti materijala za obradu

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D (mm)

Saw blade diameter
Prečnik testere

Tip speed (m/s) Periferna brzina u m/s	Recommended for Preporučuje se za
50 - 90	Softwood / Meko drvo
50 - 80	Hardwood / Tvrdo drvo
50 - 85	Exotic wood / Egzotično drvo
60 - 80	Chipboard / Iverica
60 - 80	Joinery wood / Panel ploče
30 - 60	MDF / Medijapan (MDF)
40 - 60	Laminated and bilaminated / Oplemenjeni materijali

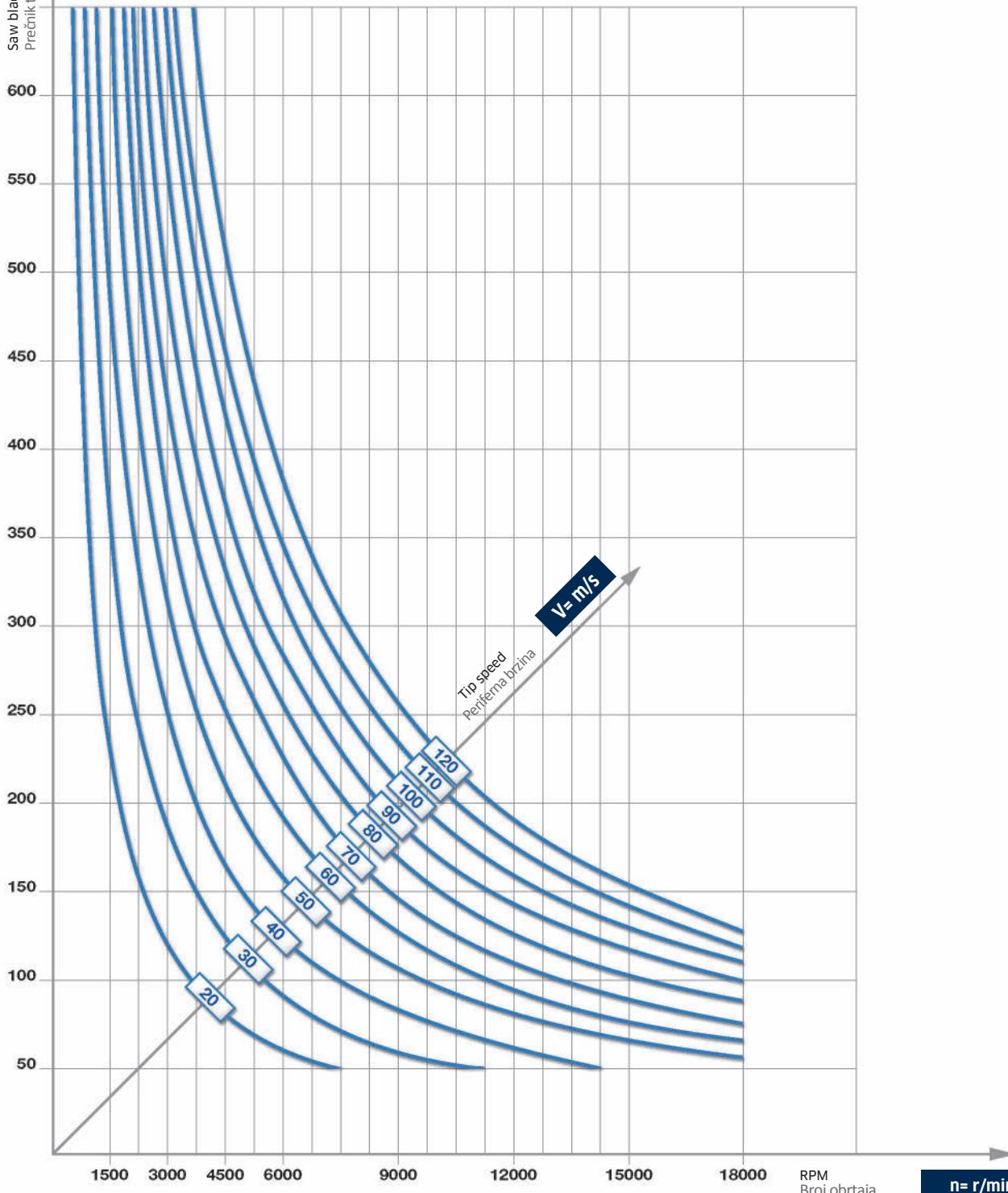
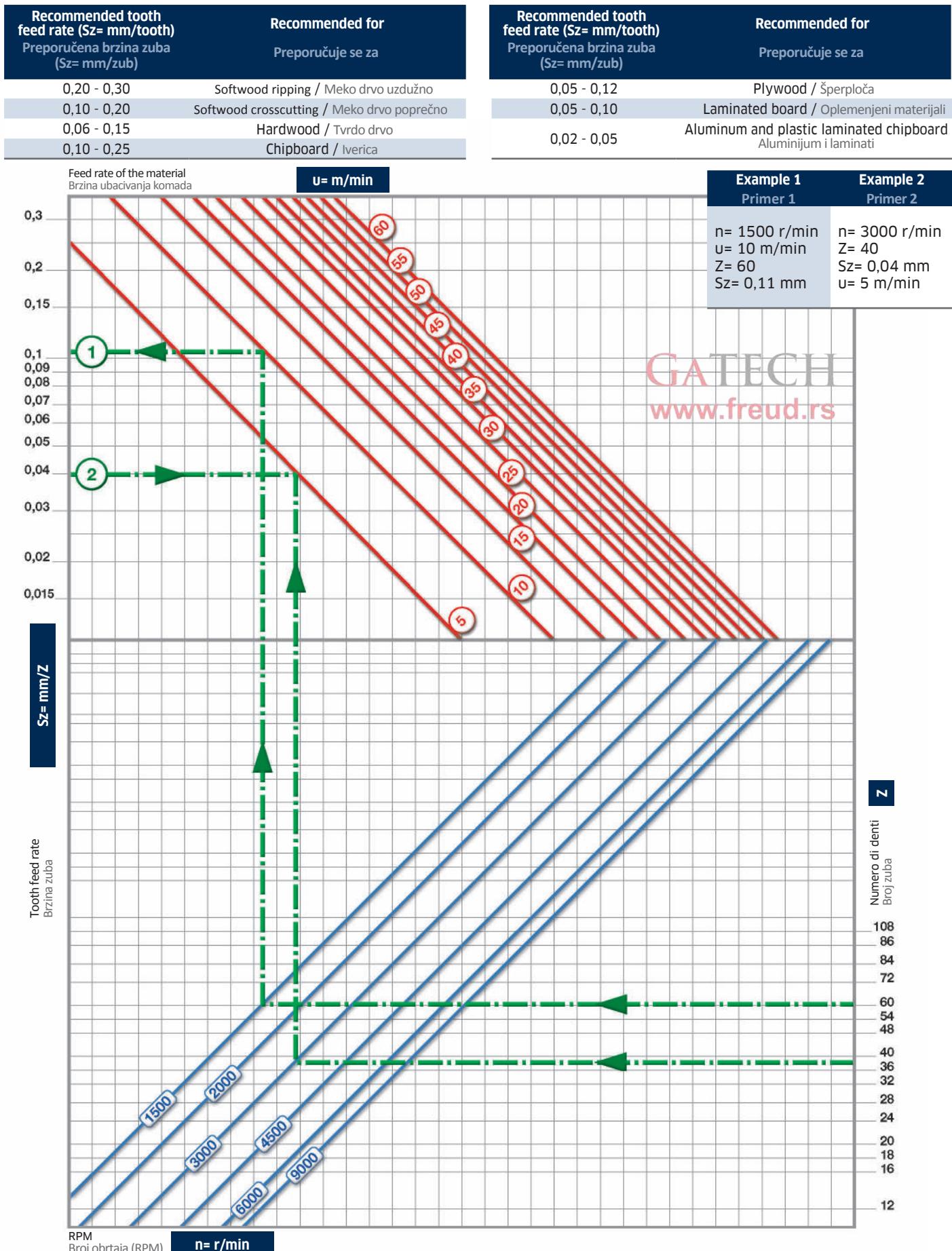


Table 2

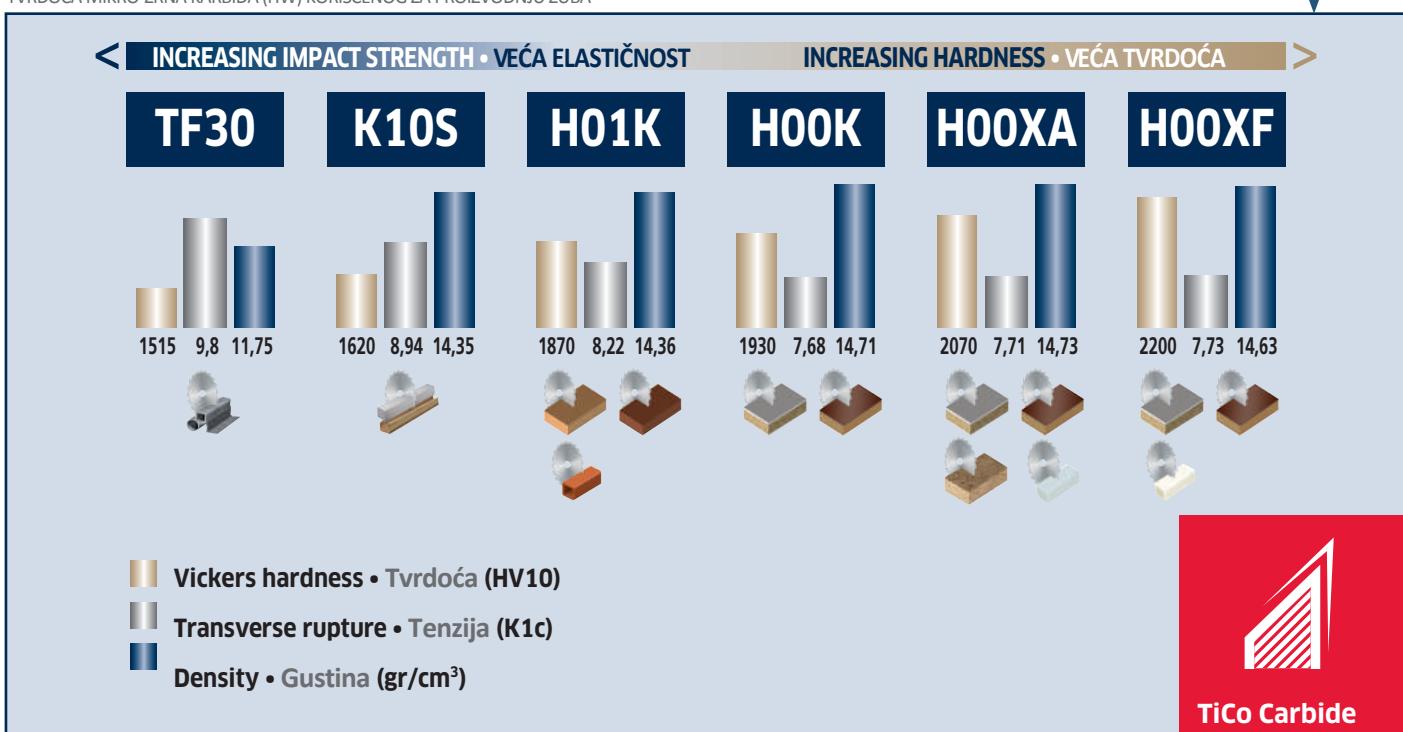
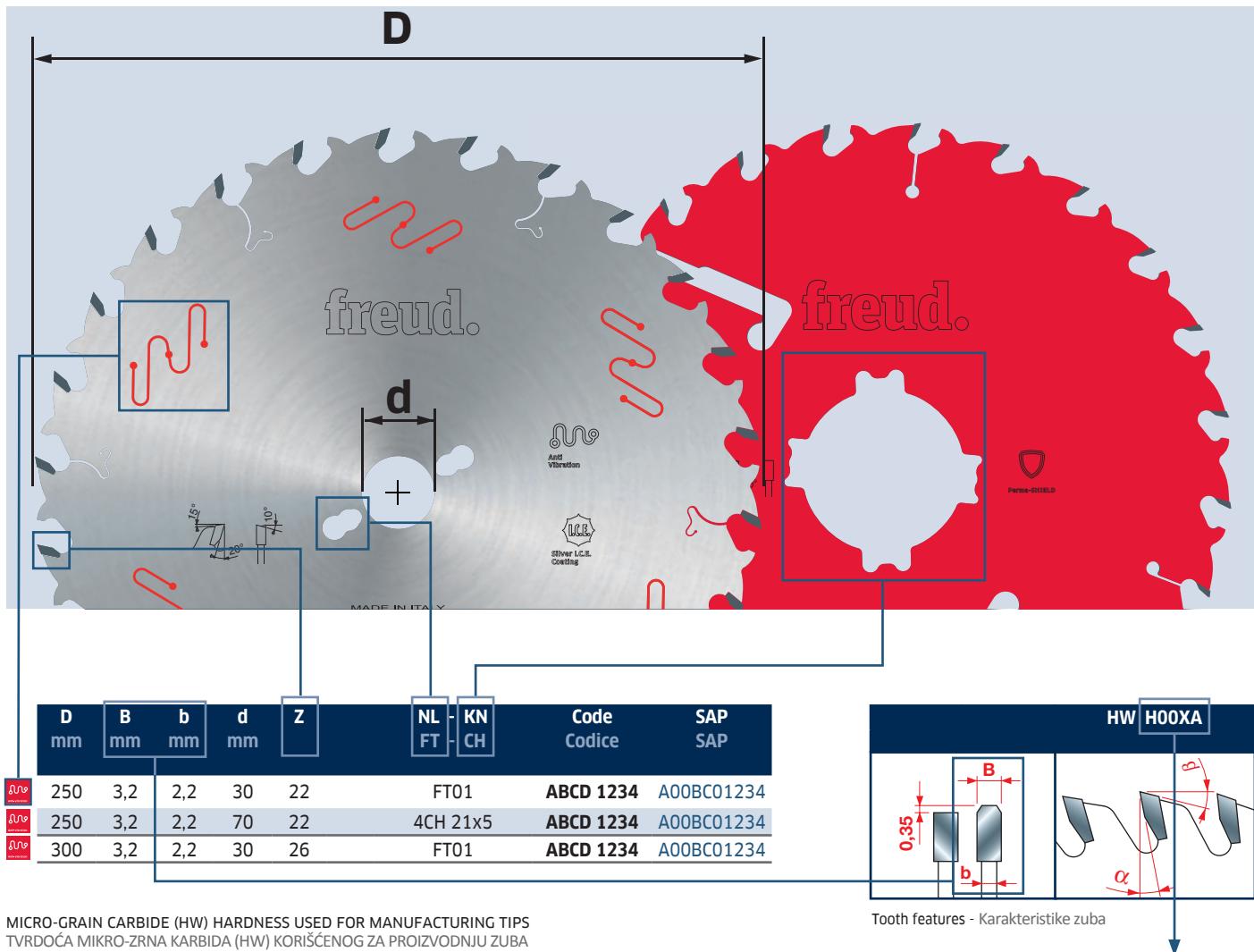
Tabela 2

Saw blade's technical table to obtain the correct tooth feed rate, the feed rate of the material, the number of teeth and the RPM
 Tabela za određivanje adekvatne brzine zuba, brzine ubacivanja komada, broja zuba i broja obrtaja (RPM)



Explanation of symbols and abbreviations

Pojašnjenje simbola i skraćenica



Explanation of symbols and abbreviations

Pojašnjenje simbola i skraćenica

PERFORMANCE		
Ultimate Najbolja	High Odlična	Standard Dobra
●	●	●

CHART ABOUT THE SAW BLADE'S
PERFORMANCE
TABELA PERFORMANSI TESTERA

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SYMBOLS TO READ THE PRODUCT TABLES SIMBOLI POTREBNI ZA TUMAČENJE TABELA PROIZVODA

D	Diameter Prečnik	d	Central bore Centralni otvor	α	Hook angle Grudni ugao
B	Cutting thickness Debljina reza	Z	Number of teeth Broj zuba	β	Back relief angle Leđni ugao
B-B1	Adjustable cutting thickness Podesiva debljina reza	KN CH	Keyways Otvori za klinove	Code Codice	Item code Šifra artikla
b	Saw blade body thickness Debljina tela testere	NL FT	Pin holes Pomoći otvori	SAP SAP	Item code - for SAP users only Šifra artikla - samo za klijente SAP

OTHER SYMBOLS ALTRI SIMBOLI

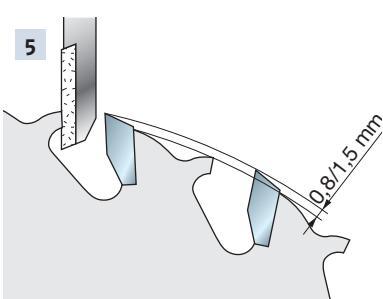
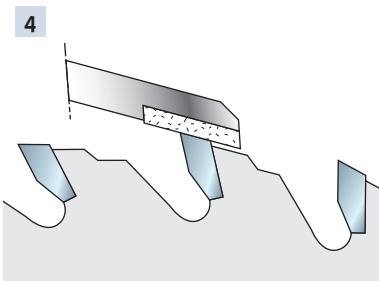
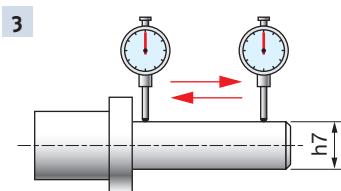
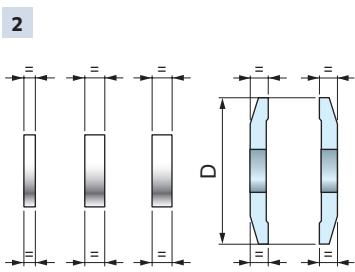
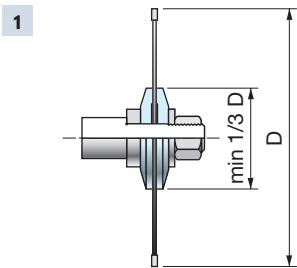
	Silver I.C.E. Coating Silver I.C.E. zaštitni sloj		Multi-rip saw blade for ripping of softwood Testera za uzdužno rezanje mekog drveta na višelisnim cirkularima		Saw blade to cut solid wood and composites with nails and impurities Testera za rezanje masiva i kompozita sa ekserima i nečistoćama
	Perma-SHIELD coating Perma-SHIELD zaštitni sloj		Multi-rip saw blade for ripping of hardwood Testera za uzdužno rezanje tvrdog drveta na višelisnim cirkularima		Saw blade to cut laminates Testera za rezanje laminata
	Anti-vibration technology Antivibraciona tehnologija		Saw blade for ripping of softwood Testera za uzdužno rezanje mekog drveta		Saw blade to cut veneered Testera za rezanje furnira
	Saw blade for miter saws Testera za ger		Saw blade for ripping of hardwood Testera za uzdužno rezanje tvrdog drveta		Scoring saw blade Predrezač
	Saw blade for portable machines Testera za prenosne cirkulare		Saw blade for ripping of softwood Testera za uzdužno rezanje mekog drveta		Saw blade to cut picture frames Testera za rezanje ramova
	Right hand or left hand Desni ili levi smer kretanja		Saw blade for ripping of hardwood Testera za uzdužno rezanje tvrdog drveta		Saw blade to cut PVC Testera za rezanje PVC-a
	Tools for automatic feed Alati za automatsko dodavanje		Saw blade for cross cutting of softwood Testera za poprečno rezanje mekog drveta		Saw blade to cut plastic materials Testera za rezanje plastičnih materijala
	Disposable knives Izmenjive pločice (nožići)		Saw blade for cross cutting of hardwood Testera za poprečno rezanje tvrdog drveta		Saw blade to cut plexiglas Testera za rezanje pleksiglasa
			Saw blade for ripping and cross cutting of softwood Testera za uzdužno i poprečno rezanje mekog drveta		Saw blade to cut solid surfaces Testera za rezanje radnih ploča
			Saw blade for ripping and cross cutting of hardwood Testera za uzdužno i poprečno rezanje mekog drveta		Saw blade to cut non-ferrous metals Testera za rezanje aluminijuma i obojenih metala
			Saw blade to cut wood composites Testera za rezanje drvenih kompozita		Saw blade to cut ferrous metals Testera za rezanje gvožđa i crnih metala

Tips for the correct use of a saw blade

Saveti za ispravno korišćenje testere

Tips for the correct use of a saw blade

Saveti za ispravno korišćenje testere



To obtain the best performance from a saw blade we suggest to follow these simple instructions:

- The machine must be in good condition, free of vibrations.
- The flanges used to secure the blade must be of the same diameter, at least 1/3 of the blade's diameter (Fig. 1).
- The flanges must be parallel to each other. Also check tolerances on diameters, sides and concentricity, by using a clock gauge (Fig. 2).
- The spacers must be perfectly parallel (Fig. 2).
- The spindle must be perfectly straight and with an H7 tolerance (Fig. 3).
- After continuous use, remove the blade and clean it with the appropriate solvents making sure to get rid of built up resin. For the synthetic coated (perma-SHIELD) blades, it's sufficient to use warm water. In any case, avoid using solvents containing caustic soda.
- The blades must be sharpened as soon as they become dull, maintaining the original tooth angles.
- For sharpening, always use the correct grinding wheels and plenty of cooling liquid.
- Always keep spacers and flanges clean.
- When sharpening, the shoulder of the teeth must not be lowered more than needed. This operation must be done with appropriate precision machinery and never by hand. There is the risk of breaking the tip or upsetting the blade balance (Fig. 4 - 5).
- On ripping machines, the feeding track must be levelled with the fixed table.
- Before starting the cut of the material, make sure the blade is correctly locked according to the machine's specifications.

Da biste iskoristili najbolje performanse testere, predlažemo Vam da pratite ova jednostavna uputstva:

- Mašina na kojoj radite mora biti u dobrom stanju, bez vibracija.
- Flanšne kojima se steže testera moraju biti istih dimenzija, otprilike minimum 1/3 prečnika testere (Slika 1).
- Flanšne za stezanje moraju biti paralelno postavljene. Proverite da li su dobro postavljene i pričvršćene pre započinjanja radova (Slika 2).
- Distantni prstenovi moraju biti savršeno paralelni (Slika 2)
- Osovina mora biti ravna i u toleranciji h7 (Slika 3).
- Nakon duže upotrebe, skinite testeru sa mašine i operite je odgovarajućim sredstvom da biste sprečili nagomilavanje otpadaka po njoj. Za testere sa sintetičkom (perma-SHIELD) prevlakom, dovoljno je da upotrebite toplu vodu. U svakom slučaju, izbegavajte upotrebu rastvora koji u sebi sadrže kaustičnu sodu.
- Naoštrite testere čim primetite da su tipe, zadržavajući originalne uglove zuba.
- Prilikom oštrenja uvek koristite odgovarajuće brusne ploče i dovoljno tečnosti za rashlađivanje.
- Vodite računa da distantni prstenovi i prirubnice budu uvek čisti.
- Telo iza zuba ne sme se spuštati više nego što je potrebno i to se nikada ne sme raditi ručno, jer postoji opasnost od lomljenja vrha i gubitka pravilnog balansa testere (Slike 4 - 5)
- Na višelisnim cirkularima, vučni valjci moraju biti u ravni sa fiksnim delom stola.
- Pre početka rezanja proverite da li je testera dobro fiksirana u skladu sa specifikacijama mašine.

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Tips for the correct use of a saw blade

Saveti za ispravno korišćenje testere

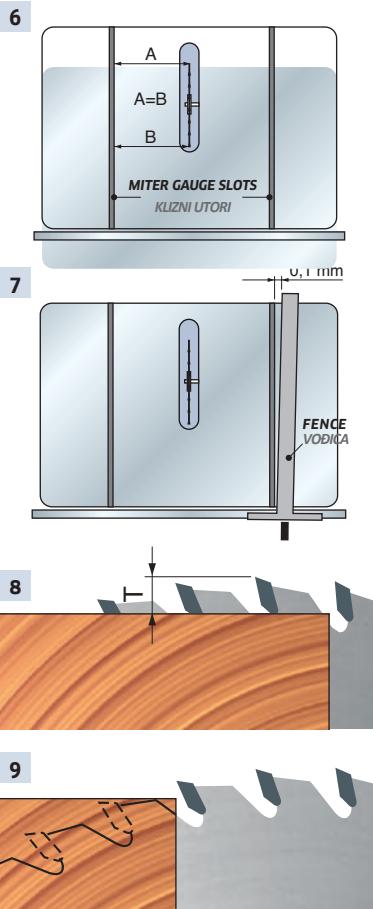


Table 1 - Tabela 1

Saw blade diameter Prečnik testere	Maximum RPM Max OBRTAJA/MIN
100 mm	23.000
125 mm	18.000
150 mm	14.500
180 mm	11.500
185 mm	11.000
200 mm	10.000
225 mm	8.500
250 mm	8.000
255 mm	7.800
280 mm	7.100
300 mm	6.500
320 mm	6.000
350 mm	5.500
380 mm	5.000
400 mm	4.700
430 mm	4.400
450 mm	4.200
500 mm	3.750
550 mm	3.400
600 mm	3.100
630 mm	2.950
650 mm	2.800
700 mm	2.600
730 mm	2.500
760 mm	2.400
800 mm	2.250

Not valid for saw blades to cut ferrous metals.
Nije validno za testere za rezanje gvožđa i crnih metala.

SAW BLADE ALIGNMENT ON A TABLE SAW

- If the saw blade and the saw are not correctly aligned to the table and the fence, then there is the possibility that a serious accident may occur (for example, violent kickbacks) or that the workpiece may scorch or splinter. The first thing you must do is read the instruction sheet carefully. This is necessary so as you may acquire the understanding and comprehension of the corrections suggested in this section.
- Before carrying out the following instructions, make sure that the starter switch is off and that the machine is not connected to the socket.

Mounting the saw blade onto the table:

We advise you to use precise measuring instruments when mounting your saw blade. Clean the saw blade well, before mounting it onto the machine. Mount the saw blade onto the arbor. Adjust the arbor to its maximum height. With the aid of the most precise measuring instrument available, verify that the saw blade is parallel to the miter gauge slots (Fig. 6). Adjust as needed. This step is necessary to obtain crosscuts with the maximum in quality finish and for setting up the fence for ripping.

Positioning the fence for ripping:

After having positioned the saw blade so as it is parallel to the miter gauge slots, you may proceed with setting the fence. The fence should ideally be parallel to the saw blade. However since it is impossible to position the guide "exactly" it is necessary to leave a slight margin of clearance on the exit side of the cut so as to avoid the wood becoming wedged in between the fence and the saw blade.

Adjust the fence so as when it is aligned to the miter gauge slots, there is a space of 0,1 mm (fig. 7; for the correct adjustment, consult the machine's instruction manual).

- The maximum RPM of a circular saw blade varies according the diameter of the blade itself (table 1). If you exceed this limit, the saw blade will lose its characteristics, therefore influencing the cutting quality and the work life of the blade itself, not to mention the dangers implied to the user who may incur serious injury.
- The saw blade's projection (T) with respect to the workpiece must be at least equal to the height of the blade's tooth (fig. 8). Increase or decrease the projection of the saw blade to improve the quality of the cutting finish.
- The number of teeth cutting (teeth cutting the wood simultaneously - fig. 9) must be between 3 or 4. With less than three teeth cutting, the saw blade begins to vibrate leading to an uneven cut. If you want to cut workpieces with increased thicknesses (S - fig. 11), but wish to maintain the same diameter saw blade, then use a blade with less teeth. If instead you want to cut workpieces with a reduced thickness, but also maintain the same diameter saw blade, then use a blade with more teeth.

POSTAVLJANJE TESTERE NA MAŠINU

- Ukoliko testere i mašina nisu pravilno postavljene u odnosu na sto i vođicu, može doći do ozbiljnih nezgoda (npr. odskakanja komada) ili se komad može oštetiti. Prva stvar koju morate uraditi jeste da pažljivo pročitate uputstvo za rukovanje mašinom. Zahvaljujući tome, moći ćete i da razumete i primenite savete koje Vam u ovom delu kataloga dajemo.

- Pre primene saveta koje Vam dajemo, proverite da li je mašina isključena i da nema dovoda struje.

Postavljanje testere na sto:

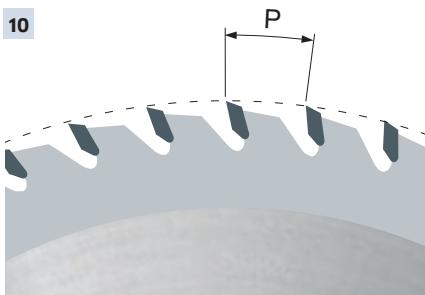
- Savetujemo Vam da koristite tačne merne instrumente kada postavljate testeru. Pre postavljanja, testera koja je radila dobro očistite. Postavite testeru na osovinu i dovedite je na maksimalnu visinu. Uz pomoć preciznog mernog instrumenta proverite da li je testera paralelna sa kliznim utorima (Slika 6). Podesite je na taj način. Ovaj korak je neophodan da bi se dobili poprečni rezovi maksimalnog kvaliteta završnog reza i da bi se postavila vođica za uzdužan rez.

Postavljanje vođice za poprečan rez:

- Kada ste postavili testeru paralelno sa kliznim utorima, možete pristupiti podešavanju vođice. Vođica bi u idealnim uslovima trebalo da bude paralelna sa testerom. Međutim, kako je nemoguće postaviti vođicu „apsolutno tačno“, potrebno je ostaviti malu marginu na izlaznoj strani reza da bi se izbeglo zaglavljivanje komada između vođice i testere. Podesite vođicu tako da bude otprilike oko 0,1mm između nje i kliznih utora (Slika 7). Za tačno podešavanje, pogledajte uputstvo koje ste dobili uz mašinu.
- Maksimalan broj obrtaja testere (RPM) zavisi od prečnika testere (Tabela 1). Ukoliko se ove vrednosti pređu, testeraće izgubiti svoja svojstva, što će direktno uticati na kvalitet reza i vek trajanja testere – da ne spominjemo i opasnost od povreda koje se mogu desiti ukoliko se testera ošteti.
- Projekcija testere (T) mora biti takva da ona bude viša (viri iz materijala) barem za visinu zuba (Slika 8). Smanjenje ili povećanje te visine utičaće na kvalitet završnog reza.
- Broj zuba koji se istovremeno nalaze u zahvatu (Slika 9) mora biti između 3 i 4. Ukoliko istovremeno kroz komad prodire manje od 3 zuba, testera počinje da vibrira i doći će do neravnomernog rezanja. Ukoliko želite da režete komad povećane visine (S – Slika 11), ali želite da zadržite istu dimenziju testere, koristite testere sa manjim brojem zuba. Ukoliko želite da režete komad manje visine, uz zadržavanje iste dimenzije testere, odlučite se za tetesu sa većim brojem zuba.

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- To obtain the pitch (**P**) of a blade (the distance between teeth: fig. 10 - (see formula "a") multiply the thickness of the workpiece by 1,4142 and divide by 3 (if you want 3 teeth cutting) or by 4 (if you want 4 teeth cutting).
- Formula "b": to obtain the number of teeth (**Z**) of the saw blade, multiply the diameter (**D**) of the saw blade by 3,14 (π) and divide by the pitch of the saw blade - obtained from the previous formula. The shorter formula "c" allows you to obtain the nr. of the saw blade's teeth, knowing its diameter and the thickness of the workpiece.
- Korak (**P**) je udaljenost između zuba (Sl. 10). Da biste ga dobili (vidi formulu "a"), pomnožite debljinu komada sa 1,4142 i podelite s 3 (ako želite 3 zuba u zahvatu) ili 4 (ako želite 4 zuba u zahvatu).
- Formula "b": za dobijanje broja zuba (**Z**) testere, pomnožite njen prečnik (**D**) s 3,14 (π) i podelite s korakom (**P**) dobijenim u prethodnoj formuli. Kraća formula "c" omogućava da se dobije potreban broj zuba testere koristeći samo njen prečnik i debljinu komada koji se reže.

Formula A	Formula B	Formula C
$P = \frac{S \times 1,4142}{3}$	$Z = \frac{D \times 3,14}{P}$	$Z = \frac{D \times 8}{S}$

KEY:

LEGENDA:

P=pitch / korak

S=thickness of the workpiece / debljina komada

Z=nr. teeth of the saw blade / broj zuba testere

D=diameter of the saw blade / prečnik testere

ATTENTION:

These formulas are valid for crosscutting and cutting other wood composites of (MDF, plywood, chipboard and laminated panels) and cannot be applied for ripping.

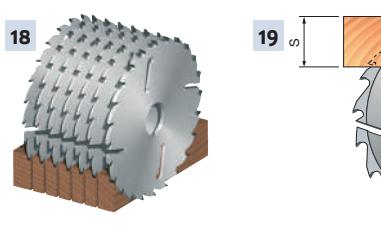
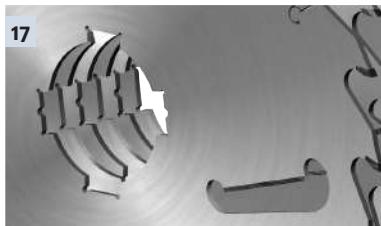
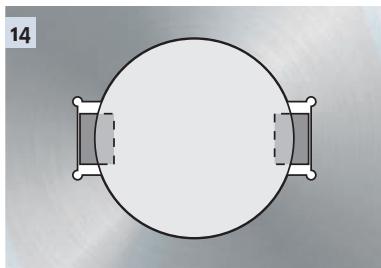
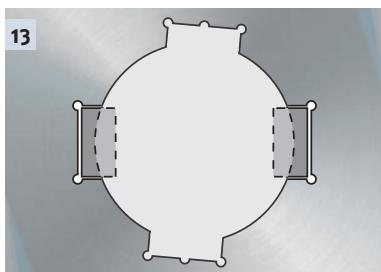
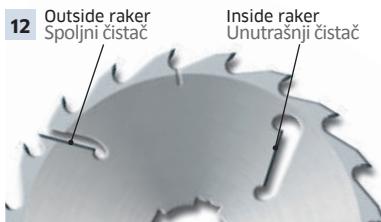
PAŽNJA:

Ove formule su validne za poprečno rezanje drveta i pločastih materijala (medijapana MDF, iverice, šper ploče i laminata) i ne mogu se primeniti na uzdužno rezanje.

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- Rakers (Fig. 12) are inserts in HW that are brazed onto saw blades exclusively for cutting wood. They help keep a distance between the saw blade body and the workpiece, in order to avoid friction and overheating which cause the blade to deform.
- On saw blades for multiripping machines the anti kick-back device is advised in cases where wood has loose knots and discards cases insert themselves underneath the saw blade.
- The pairing of blade and arbor with keyways is excellent in all cases where the keyways are the same (Fig. 13) or smaller than the blade slots (Fig. 14).
- On machines with an arbor with 1 keyway, you can only mount blades with 1 keyway slot (Fig. 15); on machines with an arbor with 2 keyways, you can only mount blades with 2 or 4 keyway slots (Fig. 16).
- You cannot mount a saw blade with 2 keyways on an arbor with 1 keyway slot, because the pairing will not be balanced.
- In case multiripping saw blades are used, it is recommendable to assemble them with alternate keyways (Fig. 17).
- Shoulder blade ensures correct distribution of lateral forces created by crooked planks in heavy duty use. The shoulder blade must be the first blade on the guide side of the multiripping machine.
- Always use shoulder blade with the set of multiripping blades (Fig. 18).
- On multiripping saw blades, the thickness of the workpiece (S) varies according to the diameter of the blade (\varnothing) and the minimum diameter (\varnothing_1) of the rakers (the rakers position may vary from blade to blade - Fig. 19).

- Čistači (Slika 12) su TM pločice koje su lemljene na telo testera isključivo za rezanje drveta. Koriste se za odvajanje drveta od tela alata, kako bi se izbeglo trenje i pregrevanje što uzrokuje deformaciju testere.
- Na testerama za višelisne cirkulare, preporučuje se upotreba stezača protiv odskakanja komada, posebno u slučajevima kada drvo ima čvorove i kada se može desiti da ostaci komada koji se reže upadnu ispod testere.
- Pričvršćivanje testera za osovinu najbolje je kada postoje otvori koji odgovaraju dimenzijama klinova (Slika 13) ili su malo veći od dimenzija klinova (Slika 14).
- Na mašine čija osovina ima jedan klin mogu se montirati samo testere koji imaju jedan otvor za klin (Slika 15), a na mašine čija osovina ima dva kлина mogu se montirati testere koji imaju dva ili četiri otvora za klinove (Slika 16).
- Testera sa dva otvora za klin ne može se montirati na osovinu sa jednim klinom, jer ne bi mogla dobro da se balansira.
- Ukoliko se vrši postavljanje više testera za višelisne cirkulare odjednom, preporuka je da se to radi tako što će se svaka od testera pomeriti za po jedan otvor u odnosu na prethodnu (Slika 17).
- Krajnja testera na višelisnim cirkularima mora biti jača od ostalih i postavlja se kao prva na ulaznoj strani komada. Ona osigurava pravilnu distribuciju lateralnih sila prilikom obrade komada.
- Uvek koristite krajnju testeru u setu testera za višelisni cirkular (Slika 18).
- Kada su u pitanju višelisni cirkulari, debljina komada (S) zavisi od prečnika testere (\varnothing) i minimalnog prečnika (\varnothing_1) čistača (njihov položaj može varirati od testere do testere (Slika 19).

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