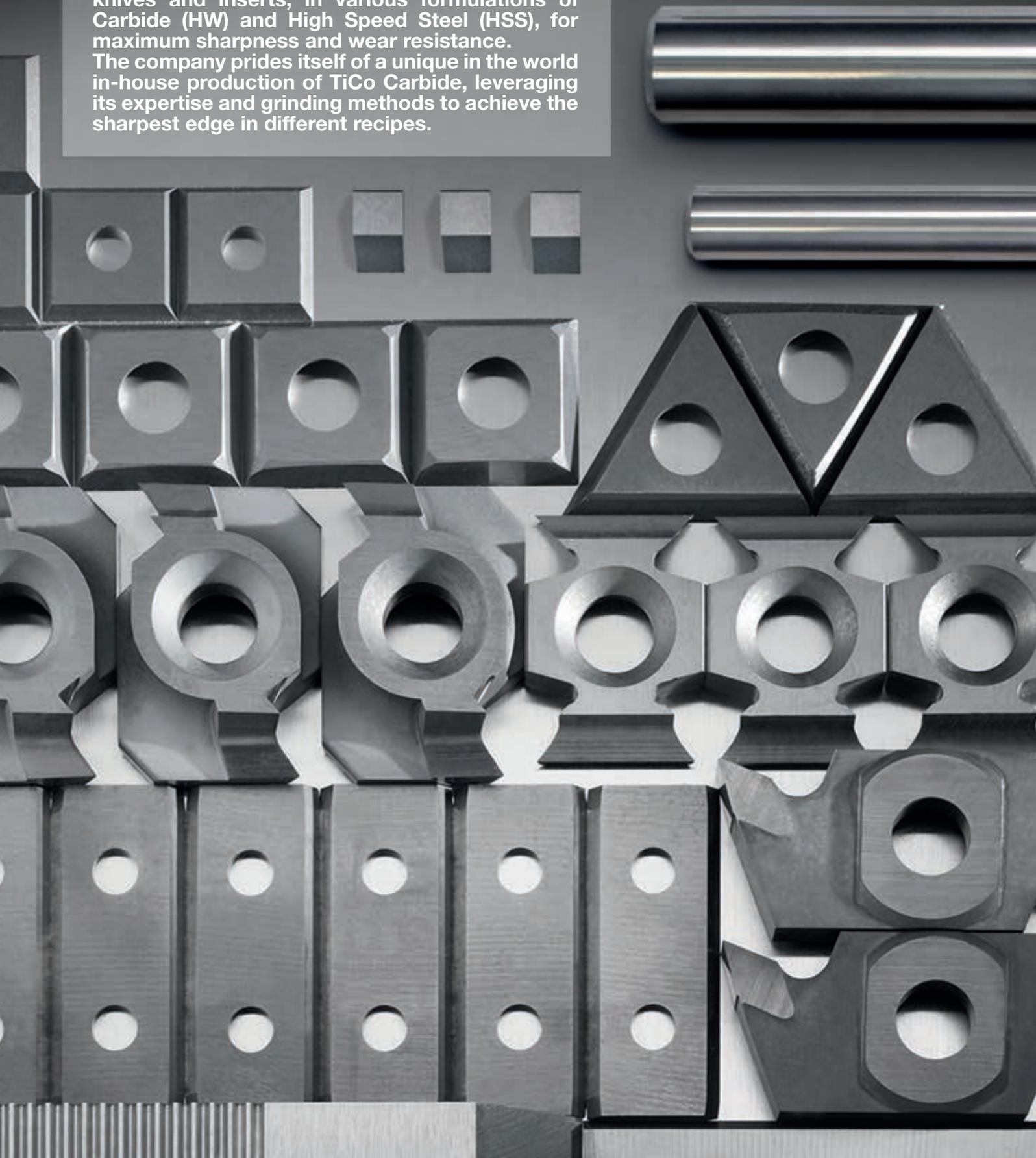


Knives and Inserts in HW and HSS

Freud offers the most comprehensive range of knives and inserts, in various formulations of Carbide (HW) and High Speed Steel (HSS), for maximum sharpness and wear resistance. The company prides itself of a unique in the world in-house production of TiCo Carbide, leveraging its expertise and grinding methods to achieve the sharpest edge in different recipes.



Leading technology for knives and inserts..... Page 486
 HW - Industrial quality knives - Choose the right tool..... Page 488

KNIVES

Disposable knives in HW for planing & rebating

CG08M HW - 35° Disposable knives..... Page 491
 CG01M HW - 35° Disposable knives..... Page 491
 CG10M HW - 35° Disposable knives..... Page 492
 CG26M HW - 35° Disposable knives..... Page 492
 CG05M HW - 35° Disposable knives..... Page 492
 CG04M HW - 35° Disposable knives..... Page 493
 CG20M HW - 35° Disposable knives..... Page 493
 CG06M HW - 40° Disposable knives..... Page 493
 CG66M HW - 40° Disposable knives..... Page 494
 CG76M HW - 40° Disposable knives..... Page 494
 CG62M HW - 45° Disposable knives..... Page 495
 CG22M HW - 45° Disposable knives..... Page 495
 CG17M HW - 40° Disposable knives with end bevels..... Page 495
 CG18M HW - 40° Disposable knives with end bevels..... Page 496
 CG19M HW - 35° Disposable knives with end bevels..... Page 496
 CG50M HW - 35° Disposable knives for TG35M Page 499
 CGSEM HW - Split-Edge knives Page 498

Customised knives in HW

CG400 HW - Customised knives..... Page 496
 CG401 HW - Customised knives..... Page 497
 CG402 HW - Customised profiled knives..... Page 497
 CG403 HW - Customised profiled knives..... Page 497
 CG404 HW - Customised profiled knives..... Page 499
 CG405 HW - Customised profiled knives..... Page 499
 CG501 HW - Customised Split-Edge knives..... Page 498
 CG502 HW - Customised Split-Edge knives..... Page 498
 CK01 HW - Knives 2 mm thickness - special profiling..... Page 500
 CK02 HW - Performance knives 3 mm thickness - special profiling Page 501

Blanks in HW for profiling

0317M HW - Blanks for profiling - 3 mm thickness Page 502
 0318M HW - Blanks for profiling - 3 mm thickness Page 503
 0339M HW - Blanks for profiling - 2 mm thickness - mirror finished..... Page 504

HSS Knives for planing

CT01M 18%W HSS knives - Standard dimensions..... Page 505
 CT010S 18%W HSS knives - Special dimensions..... Page 505
 CZ01M HSS serrated back knives Page 505
 CP01M 18%W HSS planing knives - Standard dimensions..... Page 506
 CP010S 18%W HSS planing knives - Special dimensions..... Page 506

SPURS

Spurs in HW for roughing and rebating

RG01M HW - Square disposable spurs - Type A..... Page 508
 RG01M HW - Square disposable spurs - Type B..... Page 508
 RG01M HW - Square disposable spurs - Type C..... Page 508
 RG02M HW - Triangular disposable spurs Page 509
 RG03M HW - Triangular disposable spurs with radius..... Page 509

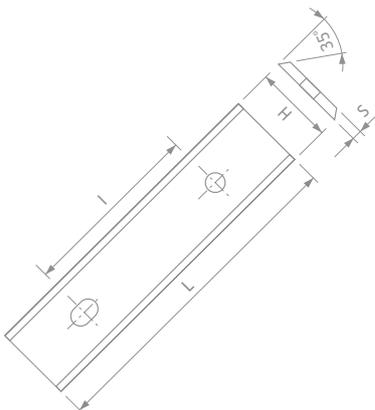
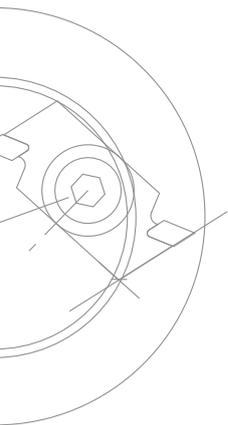
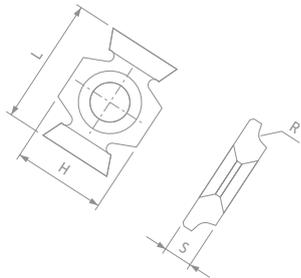
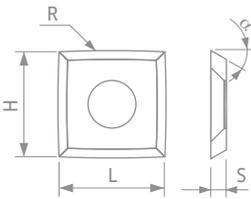
Spurs in HW for planing and finishing

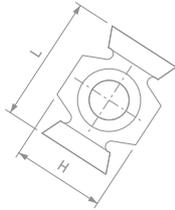
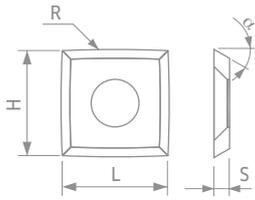
RR01 HW - Razor with rounded corners..... Page 510
 RR10 HW - 30° razor with rounded edges..... Page 510
 RR11 HW - 30° razor with both rounded corners and edges Page 510

INSERTS

Inserts in HW for beveling & rounding

IG25MD - IG25MS HW - Multipurpose inserts Page 512
 IG01M HW - 45° Beveling inserts Page 512
 IG02M HW - Rounding inserts Page 513
 IG21MD - IG21MS HW - 45° Beveling inserts with shear angle Page 513
 IG22MD - IG22MS HW - Rounding inserts with shear angle Page 514
 IG33M HW - 45° Beveling inserts with shear angle Page 514
 IG33M HW - Rounding inserts with shear angle..... Page 515
 IG51M HW - 45° Beveling inserts with shear angle Page 515
 IG52M HW - Rounding inserts with shear angle..... Page 516
 IG61MD - IG61MS HW - Beveling inserts with anti-kickback design..... Page 516
 IG62MD - IG62MS HW - Rounding inserts with anti-kickback design Page 517





Inserts in HW for grooving

IG04MD - IG04MS	HW - Grooving inserts.....	Page 517
ID04MD - ID04MS	Deflectors for inserts IG04MD and IG04MS.....	Page 518
CG03M	HW - Disposable knives with four cutting edges	Page 518
IG05MD - IG05MS	HW - Spur inserts.....	Page 518
IG17MD	HW - Insert for beveled grooves	Page 519
SR01MD - SR01MS	HW - Grooving inserts.....	Page 519
SR06MD	HW - Multipurpose inserts	Page 519
SR06M	HW - Grooving inserts.....	Page 520
SR06MD - SR06MS	HW - Multipurpose inserts	Page 520
SR11MD - SR11MS	HW - Grooving inserts.....	Page 520
IG03M	HW - Anti capillary groove inserts.....	Page 521
IG11M	HW - Anti capillary groove inserts.....	Page 521
ID11MD - ID11MS	Deflectors for inserts IG11M	Page 521
IG10MD - IG10MS	HW - Inserts for gasket seats.....	Page 522
ID10MD - ID10MS	Deflectors for inserts IG10MD and IG10MS.....	Page 522
IG13MD - IG13MS	HW - Inserts for sealing strip seats	Page 523
ID13MD - ID13MS	Deflectors for inserts IG13MD and IG13MS.....	Page 523
IG14MD - IG14MS	HW - Inserts for frame rebates.....	Page 524
IG15MD - IG15MS	HW - Inserts for glass sealing	Page 524
IG16M	HW - Inserts for glass sealing	Page 525
IG16MD - IG16MS	HW - Inserts for glass sealing	Page 525
	Safe working practice.....	Page 526
	Technical features.....	Page 527

LEADING TECHNOLOGY

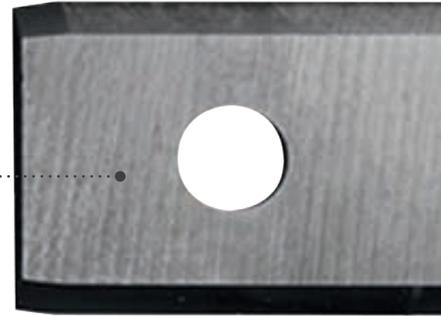
TiCo CARBIDE TECHNOLOGY



For its premium cutters Freud offers more than 20 Carbide blends, formulated both for standard and custom applications, crafted to deliver the correct grade, an optimised relief angle and maximum sharpness.

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.



CARBIDE INNOVATION

The continuous investment in new Carbide recipe development maintains the knives performance at unmatched quality levels.

For its new Carbide Rounded Razors, Freud has formulated a dedicated fine-grain Carbide (**K01S**), specifically engineered to achieve a high level of hardness and tenacity. The formula guarantees the greatest resistance to wear and impact.





PIONEERING SOLUTIONS

Freud's production process, from raw material selection to final grinding, is based on the industry's most sophisticated manufacturing technologies, for knives and inserts with superior wear resistance.

Advanced testing methods and strict controls, throughout the entire cycle, guarantee 100% product compliance to quality parameters.



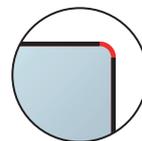
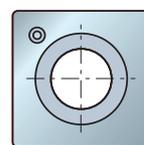
Freud takes pride in producing the sharpest knives in the world, in different Carbide formulas (cutting edge minimum roughness μm 0.12-0.15). This remarkable result is achieved leveraging a solid know-how and the most advanced grinding methods.

The sharpness of the cutting edge provides higher resistance to cutting pressure and abrasion, delivering extended lifetime and perfect finishing on wood and wood derivatives.

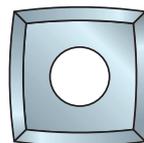
DESIGN INNOVATION

Freud leverages its market knowledge and technical know-how to constantly develop new geometries and shapes for its knives and inserts.

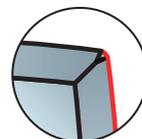
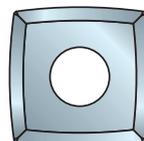
For its new range of Carbide Rounded Razors, for example, Freud has developed designs with rounded corners, rounded edges and with a combination of both, to achieve the highest results in demanding applications that require a perfect quality of cut.



RR01
razor with rounded
corners



RR10
razor with rounded
edges



RR11
razor with both
rounded corners and
edges

HW - INDUSTRIAL QUALITY KNIVES

CHOOSE THE RIGHT TOOL

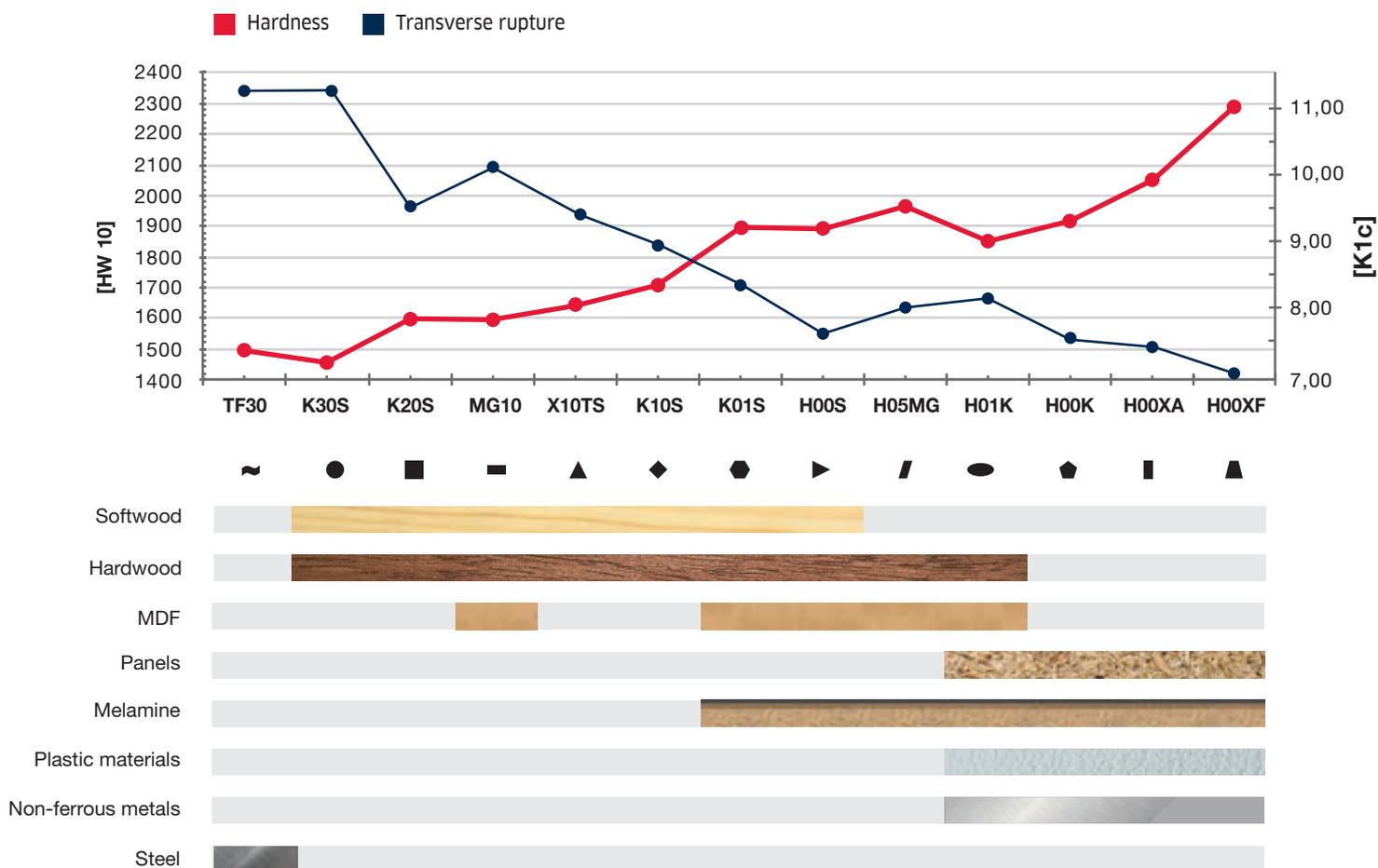
APPLICATION		PERFORMANCE	RELIEF ANGLES	FREUD CODE
	Universal	●	35°	CG26M
		●	35°	CG01M - CG10M
		●	35°	CG08M
		●	35°	CG19M
	Softwood	●	35°	CG26M
		●	35°	CG01M - CG10M
		●	35°	CG08M
		●	35°	CG19M
		●	40°	CG76M
		●	40°	CG66M
		●	40°	CG06M
		●	40°	CG18M
		●	45°	CG62M
●	45°	CG22M		
	Hardwood	●	35°	CG26M
		●	35°	CG01M - CG10M
		●	35°	CG08M
		●	35°	CG19M
		●	40°	CG76M
		●	40°	CG66M
		●	40°	CG06M
		●	40°	CG17M
		●	40°	CG18M
		●	45°	CG62M
●	45°	CG22M		
	Plywood panels	●	35°	CG04M*
		●	35°	CG05M
		●	35°	CG01M - CG10M
		●	35°	CG08M
		●	35°	CG19M
	Laminate chipboard	●	35°	CG20M*
		●	35°	CG04M*
		●	35°	CG05M
		●	35°	CG26M
		●	35°	CG01M - CG10M
		●	35°	CG08M
		●	35°	CG19M
	MDF	●	35°	CG20M*
		●	35°	CG04M*
		●	35°	CG05M
		●	35°	CG26M
		●	35°	CG01M - CG10M
		●	35°	CG08M
		●	35°	CG19M
		●	40°	CG76M
●	40°	CG66M		
	HDF	●	35°	CG20M*
		●	35°	CG04M*
	Plastics	●	35°	CG20M*
		●	35°	CG26M
		●	35°	CG01M - CG10M
		●	35°	CG08M
		●	35°	CG19M

HW - INDUSTRIAL QUALITY KNIVES CHOOSE THE RIGHT TOOL

RELIEF ANGLE	CODE	APPLICATION								HW	HARDNESS	
		Universal	Softwood	Hardwood	Plywood	Laminated	MDF	HDF	Plastics			
35°	CG20M*	-	-	-	-	●	●	●	●	H00XF	▲	2300
35°	CG04M*	-	-	-	◐	◑	◑	◑	-	H00XA	■	2070
35°	CG05M	-	-	-	◐	◑	◑	-	-	H00K	▲	1960
35°	CG26M	◐	◑	◑	-	◑	◑	-	◑	H01K	●	1870
35°	CG01M - CG10M	◑	◑	◑	◑	◑	◑	-	◑	H00S	▶	1860
35°	CG08M	◑	◑	◑	◑	◑	◑	-	◑	K01S	◆	1850
35°	CG19M	◑	◑	◑	◑	◑	◑	-	◑	H00S	▶	1860
40°	CG76M	-	◑	●	-	-	◑	-	-	H01K	●	1870
40°	CG66M	-	◑	◑	-	-	◑	-	-	X10TS	▲	1650
40°	CG06M	-	◑	◑	-	-	-	-	-	K30S	●	1430
40°	CG17M	-	-	●	-	-	-	-	-	K10S	◆	1620
40°	CG18M	-	◑	◑	-	-	-	-	-	K30S	●	1430
45°	CG62M	-	●	◑	-	-	-	-	-	X10TS	▲	1650
45°	CG22M	-	◑	◑	-	-	-	-	-	K30S	●	1430

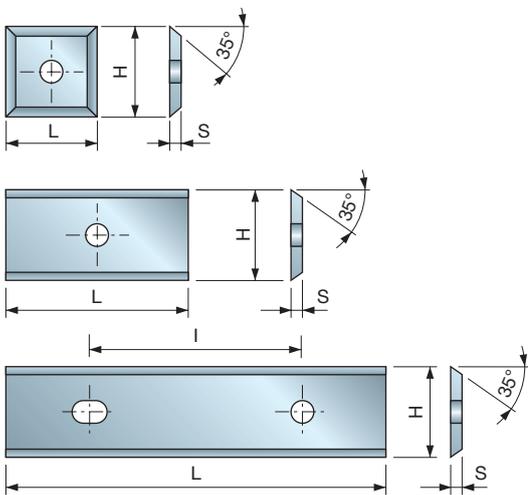
* Not for board containing foreign materials

● Ultimate performance
 ◑ High performance
 ◐ Standard performance
 ◒ Basic performance
 - Not recommended



Knives





**HW
K01S**

12 mm disposable knives made by K01S
Freud's Carbide with 35° relief angle.

- Ideal for a universal use.

CG08M

HW - 35° Disposable knives



Softwood Hardwood Chipboard Laminated Chipboard MDF Laminated MDF Plastics

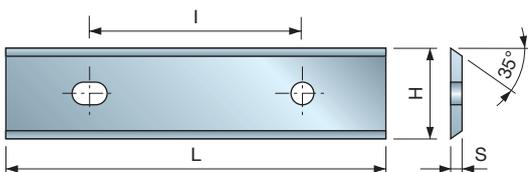
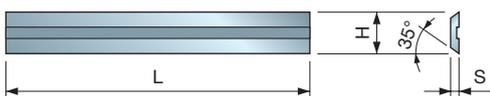
L mm	H mm	S mm	I mm	Freud Code	Art. No.
7,6	12	1,5	-	CG08MAA310	F03FH02902
8,6	12	1,5	-	CG08MJA310	F03FH03349
9,6	12	1,5	-	CG08MMA310	F03FH02910
11,6	12	1,5	-	CG08MNA310	F03FH03254
12	12	1,5	-	CG08MBA310	F03FH02903
15	12	1,5	-	CG08MCA310	F03FH02904
15,6	12	1,5	-	CG08MGB310	F03FH03350
16,3	12	1,5	-	CG08MJD310	F03FH03351
16,6	12	1,5	-	CG08MJB310	F03FH03352
20	12	1,5	-	CG08MDA310	F03FH02905
24	12	1,5	-	CG08MOA310	F03FH02911
25,8	12	1,5	14	CG08MJC310	F03FH03353
30	12	1,5	14	CG08MEA310	F03FH02906
40	12	1,5	26	CG08MLA310	F03FH02909
50	12	1,5	26	CG08MFA310	F03FH02907
60	12	1,5	26	CG08MGA310	F03FH02908

CG01M

HW - 35° Disposable knives



Softwood Hardwood Chipboard Laminated Chipboard MDF Laminated MDF Plastics



Type A

L mm	H mm	S mm	I mm	Freud Code	Art. No.
20	5,5	1,1	-	CG01MDB310	F03FH02735
30	5,5	1,1	-	CG01MEB310	F03FH02850
40	5,5	1,1	-	CG01MFJ310	F03FH02853
50	5,5	1,1	-	CG01MFB310	F03FH02852

Type B

L mm	H mm	S mm	I mm	Freud Code	Art. No.
20	5,5	1,1	-	CG01MBX310	F03FH03713
25	5,5	1,1	-	CG01MCX310	F03FH03715
30	5,5	1,1	-	CG01MEX310	F03FH03717
40	5,5	1,1	-	CG01MDX310	F03FH03719
50	5,5	1,1	-	CG01MFX310	F03FH03721

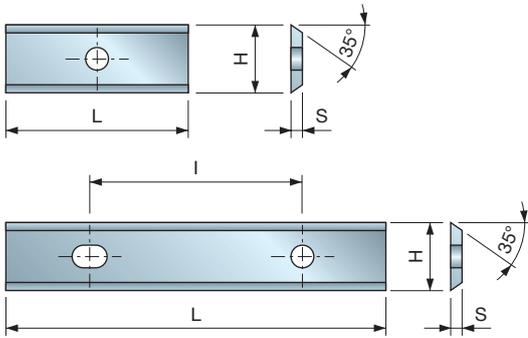
Type C

L mm	H mm	S mm	I mm	Freud Code	Art. No.
80	13	2,2	60	CG01MHA301	F03FA18134
100	13	2,2	60	CG01MIA301	F03FA18182
120	13	2,2	60	CG01MKA301	F03FA18183

**HW
H00S**

12 mm Disposable knives made by H00S
Freud's Carbide with 35° relief angle.

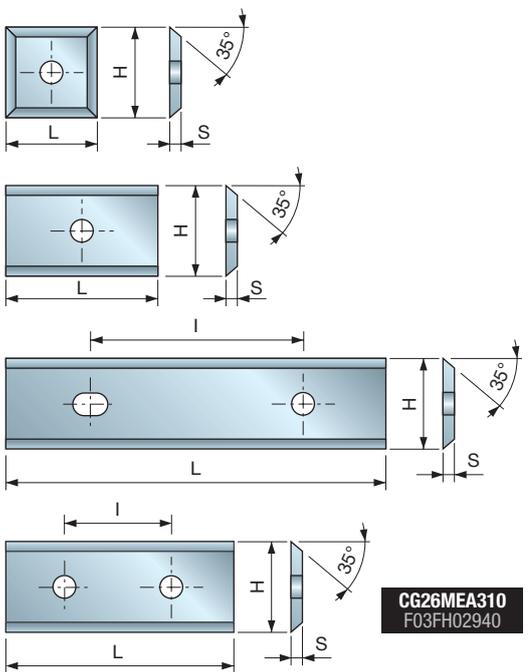
- Ideal for a universal use.



**HW
H00S**

12 mm Disposable knives made by H00S
Freud's Carbide with 35° relief angle.

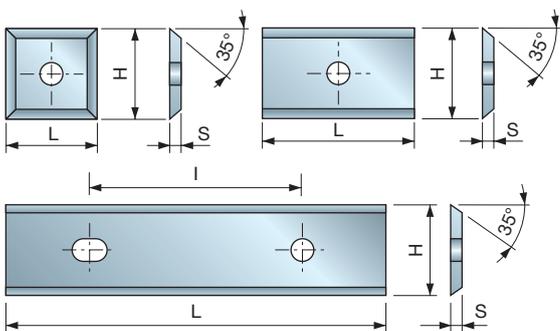
- Ideal for a universal use.



**HW
H01K**

12 mm Disposable knives made by H01K
Freud's Carbide with 35° relief angle.

- Ideal for a universal use.



**HW
H00K**

12 mm Disposable knives made by H00K
Freud's Carbide with 35° relief angle.

- Ideal for wood composites

CG10M

HW - 35° Disposable knives



L mm	H mm	S mm	I mm	Freud Code	Art. No.
7,5	9	1,5	-	CG10MAA310	F03FC23863
9,6	9	1,5	-	CG10MBA310	F03FC23864
12	9	1,5	-	CG10MCA310	F03FC23865
14,6	9	1,5	-	CG10MEA310	F03FH02912
20	9	1,5	-	CG10MGA310	F03FH02913
30	9	1,5	14	CG10MHA310	F03FH02914
40	9	1,5	26	CG10MIB310	F03FH02916
50	9	1,5	26	CG10MIA310	F03FH02915
60	9	1,5	26	CG10MKA310	F03FH02917

CG26M

HW - 35° Disposable knives



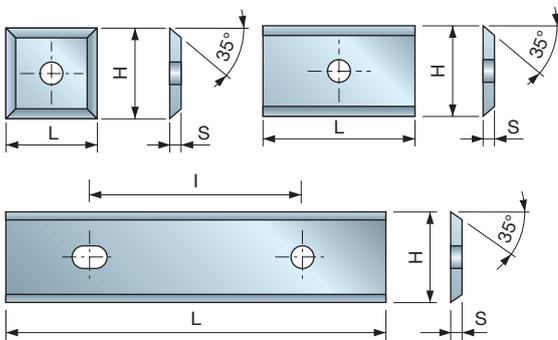
L mm	H mm	S mm	I mm	Freud Code	Art. No.
7,6	12	1,5	-	CG26MAA310	F03FH02936
8,6	12	1,5	-	CG26MJA310	F03FH04114
9,6	12	1,5	-	CG26MMA310	F03FH02944
10,6	12	1,5	-	CG26MUE310	F03FH02947
11,6	12	1,5	-	CG26MNA310	F03FH02945
12	12	1,5	-	CG26MBA310	F03FH02937
15	12	1,5	-	CG26MCA310	F03FH02938
18,6	12	1,5	-	CG26MJE310	F03FC23866
20	12	1,5	-	CG26MDA310	F03FH02939
20,6	12	1,5	-	CG26MJF310	F03FC23867
22,6	12	1,5	-	CG26MJG310	F03FC23868
24	12	1,5	-	CG26MOA310	F03FH02946
30	12	1,5	14	CG26MEA310	F03FH02940
40	12	1,5	26	CG26MLA310	F03FH02943
50	12	1,5	26	CG26MFA310	F03FH02941
60	12	1,5	26	CG26MGA310	F03FH02942

CG05M

HW - 35° Disposable knives



L mm	H mm	S mm	I mm	Freud Code	Art. No.
12	12	1,5	-	CG05MBA310	F03FH02885
20	12	1,5	-	CG05MDA310	F03FH02886
30	12	1,5	14	CG05MEA310	F03FH02887
50	12	1,5	26	CG05MFA310	F03FH02888



**HW
H00XA**

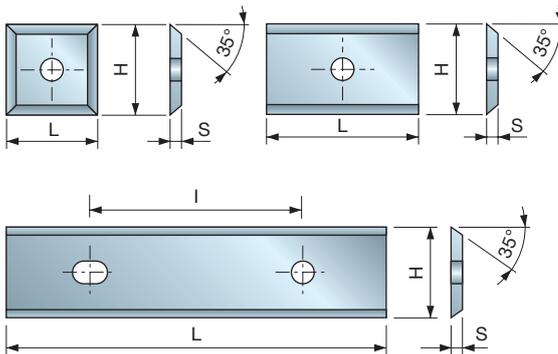
12 mm Disposable knives made by H00XA
Freud's Carbide with 35° relief angle.
• Ideal for wood composites.

CG04M

HW - 35° Disposable knives



L mm	H mm	S mm	I mm	Freud Code	Art. No.
12	12	1,5	-	CG04MBA310	F03FH02880
15	12	1,5	-	CG04MCA310	F03FH02881
20	12	1,5	-	CG04MDA310	F03FH02882
30	12	1,5	14	CG04MEA310	F03FH02883
50	12	1,5	26	CG04MFA310	F03FH02884



**HW
H00XF**

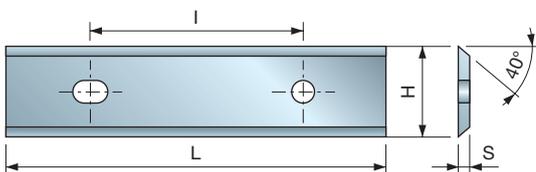
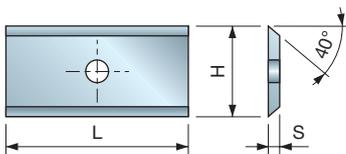
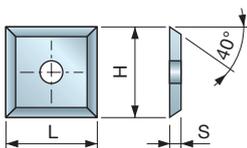
12 mm Disposable knives made by H00XF
Freud's Carbide with 35° relief angle.
• Especially indicated to work melamine
chipboard panels, MDF, HDF wood
composites and plastic materials.

CG20M

HW - 35° Disposable knives



L mm	H mm	S mm	I mm	Freud Code	Art. No.
9,6	12	1,5	-	CG20MMA310	F03FH03354
12	12	1,5	-	CG20MBA310	F03FH02923
15	12	1,5	-	CG20MCA310	F03FH03355
20	12	1,5	-	CG20MDA310	F03FH02924
30	12	1,5	14	CG20MEA310	F03FH02925
40	12	1,5	26	CG20MLA310	F03FH03356
50	12	1,5	26	CG20MFA310	F03FH02926
60	12	1,5	26	CG20MGA310	F03FH03357



**HW
K30S**

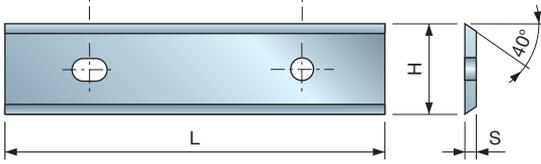
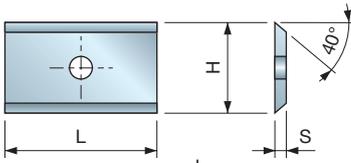
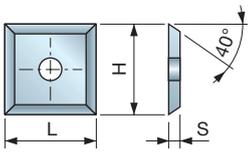
12 mm Disposable knives made by K30S
Freud's Carbide with 40° relief angle.
• Particularly indicated for natural softwood and
hardwood.

CG06M

HW - 40° Disposable knives



L mm	H mm	S mm	I mm	Freud Code	Art. No.
7,6	12	1,5	-	CG06MHA310	F03FH02897
8,6	12	1,5	-	CG06MJA310	F03FH02899
9,6	12	1,5	-	CG06MIA310	F03FH02898
11	12	1,5	-	CG06MUE310	F03FC23822
11,6	12	1,5	-	CG06MLA310	F03FH02901
12	12	1,5	-	CG06MAA310	F03FH02889
12,6	12	1,5	-	CG06MLB310	F03FC23819
13,6	12	1,5	-	CG06MOZ310	F03FC23820
14,6	12	1,5	-	CG06MBA310	F03FH02890
15,6	12	1,5	-	CG06MGB310	F03FH02896
16,3	12	1,5	-	CG06MJD310	F03FC23817
16,6	12	1,5	-	CG06MJB310	F03FC23815
18	12	1,5	-	CG06MUF310	F03FC23823
20	12	1,5	-	CG06MCA310	F03FH02891
24	12	1,5	-	CG06MKA310	F03FH02900
25,8	12	1,5	14	CG06MJC310	F03FC23816
26,6	12	1,5	14	CG06MKB310	F03FC23818
30	12	1,5	14	CG06MDA310	F03FH02892
40	12	1,5	26	CG06MEA310	F03FH02893
50	12	1,5	26	CG06MFA310	F03FH02894
60	12	1,5	26	CG06MGA310	F03FH02895



**HW
X10TS**

12 mm Disposable knives made by X10TS
Freud's Carbide with 40° relief angle.

- Suitable for natural softwood, hardwood and plywood.
- Not suitable for chipboard and laminates.

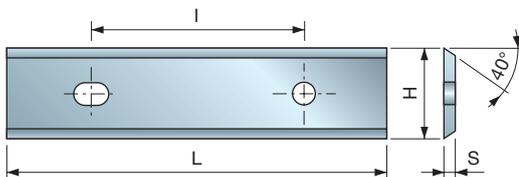
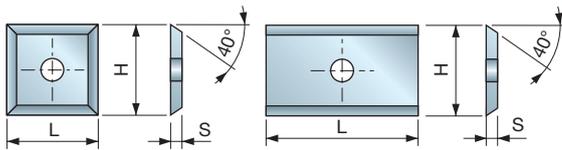
CG66M

HW - 40° Disposable knives



Softwood Hardwood Plywood

L mm	H mm	S mm	I mm	Freud Code	Art. No.
7,6	12	1,5	-	CG66MHA310	F03FH02969
8,6	12	1,5	-	CG66MJA310	F03FH02971
9,6	12	1,5	-	CG66MIA310	F03FH02970
11	12	1,5	-	CG66MUE310	F03FH03814
11,6	12	1,5	-	CG66MLA310	F03FH02973
12	12	1,5	-	CG66MAA310	F03FH02961
13	12	1,5	-	CG66MLB310	F03FH03815
13,6	12	1,5	-	CG66MOZ310	F03FC23922
14,6	12	1,5	-	CG66MBA310	F03FH02962
15,6	12	1,5	-	CG66MGB310	F03FH02968
16,3	12	1,5	-	CG66MJD310	F03FH03816
17	12	1,5	-	CG66MJB310	F03FH03817
18	12	1,5	-	CG66MJG310	F03FH03818
18	12	1,5	-	CG66MUF310	F03FH03819
19	12	1,5	-	CG66MJE310	F03FH03820
20	12	1,5	-	CG66MCA310	F03FH02963
21	12	1,5	-	CG66MJF310	F03FH03821
22	12	1,5	-	CG66MTA310	F03FH03822
24	12	1,5	-	CG66MKA310	F03FH02972
27	12	1,5	14	CG66MKB310	F03FH03823
30	12	1,5	14	CG66MDA310	F03FH02964
40	12	1,5	26	CG66MEA310	F03FH02965
50	12	1,5	26	CG66MFA310	F03FH02966
60	12	1,5	26	CG66MGA310	F03FH02967



**HW
H01K**

12 mm Disposable knives made by H01K
Freud's Carbide with 40° relief angle.

- Particularly indicated for hardwood and abrasive wood.
- Not ideal for chipboard.

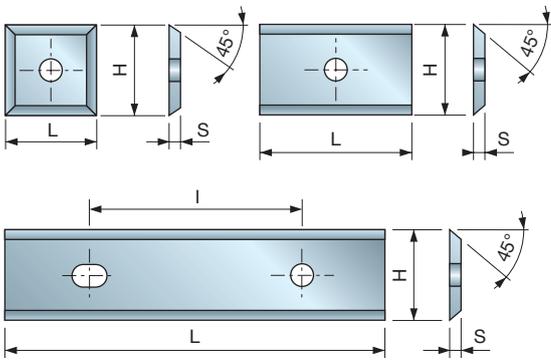
CG76M

HW - 40° Disposable knives



Softwood Hardwood MDF

L mm	H mm	S mm	I mm	Freud Code	Art. No.
12	12	1,5	-	CG76MAA310	F03FH02975
14,6	12	1,5	-	CG76MBA310	F03FH02976
20	12	1,5	-	CG76MCA310	F03FH02977
24	12	1,5	-	CG76MKA310	F03FH02982
30	12	1,5	14	CG76MDA310	F03FH02978
40	12	1,5	26	CG76MEA310	F03FH02979
50	12	1,5	26	CG76MFA310	F03FH02980
60	12	1,5	26	CG76MGA310	F03FH02981



CG62M

HW - 45° Disposable knives



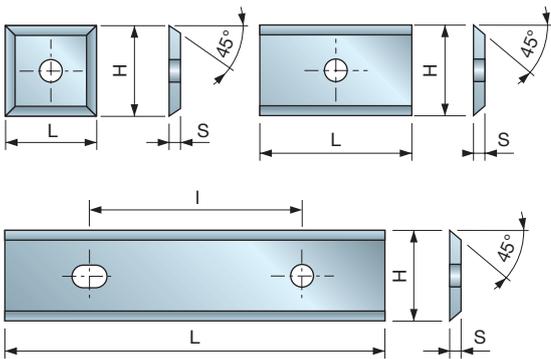
Softwood Hardwood Plywood

HW X10TS

12 mm Disposable knives made by X10TS
Freud's Carbide with 45° relief angle.

- Suitable for natural softwood, hardwood and plywood.
- Not suitable for chipboard and laminates.

L mm	H mm	S mm	I mm	Freud Code	Art. No.
7,6	12	1,5	-	CG62MHA310	F03FH02956
8,6	12	1,5	-	CG62MJA310	F03FH02958
9,6	12	1,5	-	CG62MIA310	F03FH02957
11,6	12	1,5	-	CG62MLA310	F03FH02960
12	12	1,5	-	CG62MAA310	F03FH02948
13,6	12	1,5	-	CG62MOZ310	F03FC23921
14,6	12	1,5	-	CG62MBA310	F03FH02949
15,6	12	1,5	-	CG62MGB310	F03FH02955
20	12	1,5	-	CG62MCA310	F03FH02950
24	12	1,5	-	CG62MKA310	F03FH02959
30	12	1,5	14	CG62MDA310	F03FH02951
40	12	1,5	26	CG62MEA310	F03FH02952
50	12	1,5	26	CG62MFA310	F03FH02953
60	12	1,5	26	CG62MGA310	F03FH02954



CG22M

HW - 45° Disposable knives



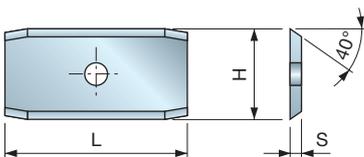
Softwood Hardwood

HW K30S

12 mm Disposable knives made by K30S
Freud's Carbide with 45° relief angle.

- Particularly indicated for natural softwood.

L mm	H mm	S mm	I mm	Freud Code	Art. No.
7,6	12	1,5	-	CG22MHA310	F03FH02933
9,6	12	1,5	-	CG22MIA310	F03FH02934
14,6	12	1,5	-	CG22MBA310	F03FH02927
20	12	1,5	-	CG22MCA310	F03FH02928
25	12	1,5	14	CG22MVB310	F03FH02935
30	12	1,5	14	CG22MDA310	F03FH02929
40	12	1,5	26	CG22MEA310	F03FH02930
50	12	1,5	26	CG22MFA310	F03FH02931
60	12	1,5	26	CG22MGA310	F03FH02932



CG17M

HW - 40° Disposable knives with end bevels



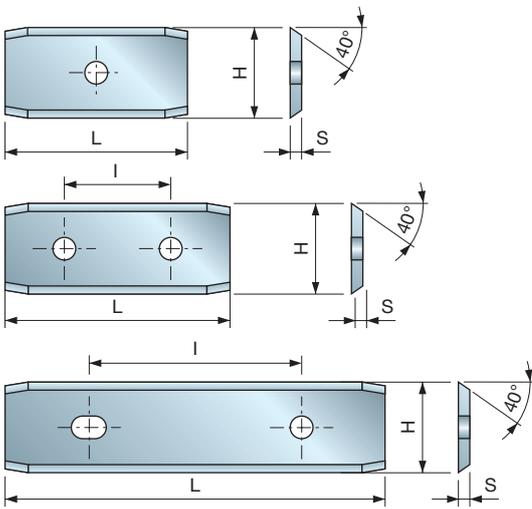
Softwood Hardwood

HW K10S

12 mm Disposable knives made by K10S
Freud's Carbide with 40° relief angle and bevel
on both cutting edges.

- Suitable for hardwood with particularly sandy and abrasive surfaces (exotic woods).

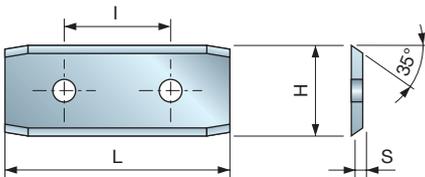
L mm	H mm	S mm	Freud Code	Art. No.
24	12	1,5	CG17MBC310	F03FH02918



**HW
K30S**

12 mm Disposable knives made by K30S Freud's Carbide with 40° relief angle and bevel on both cutting edges.

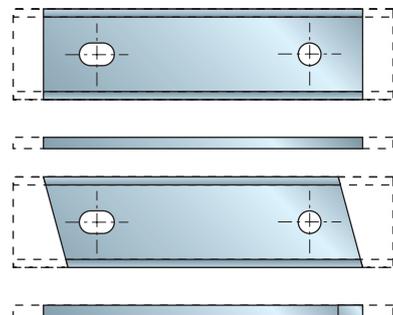
- Particularly indicated for natural softwood and hardwood.



**HW
H00S**

12mm Disposable knives made by H00S Freud's Carbide with 35° relief angle and bevel on both cutting edges.

- Ideal for universal use.



Disposable knives with 2 cutting edges without side clearance.

- Minimum order quantity: 1 set of 10 knives of the same type.
- The codes are just a guideline and should be used for ordering purposes only.
- In case of orders specify type of Carbide.

CG18M

HW - 40° Disposable knives with end bevels

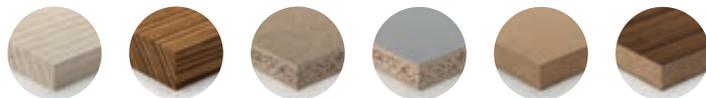


Softwood Hardwood

L mm	H mm	S mm	I mm	Freud Code	Art. No.
24	12	1,5	-	CG18MBC310	F03FH02919
30	12	1,5	14	CG18MDC310	F03FH02920
50	12	1,5	26	CG18MFC310	F03FH02921

CG19M

HW - 35° Disposable knives with end bevels



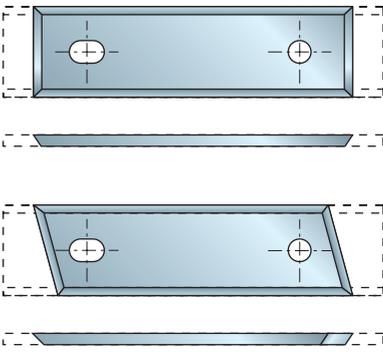
Softwood Hardwood Chipboard Laminated Chipboard MDF Laminated MDF

L mm	H mm	S mm	I mm	Freud Code	Art. No.
30	12	1,5	14	CG19M35EC310	F03FH02922

CG400

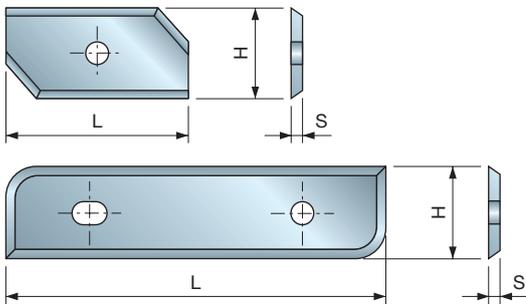
HW - Customised knives

L mm	H mm	S mm	Freud Code	Art. No.
12	12	1,5	CG400 BA3	
15	12	1,5	CG400 CA3	
20	12	1,5	CG400 DA3	
30	12	1,5	CG400 EA3	
50	12	1,5	CG400 FA3	
60	12	1,5	CG400 GA3	
80	13	2,2	CG400 HA3	



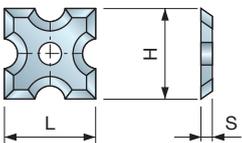
Disposable knives with 2 cutting edges with side clearance.

- Minimum order quantity: 1 set of 10 knives of the same type.
- The codes are just a guideline and should be used for ordering purposes only.
- In case of orders specify type of Carbide.



Shaped knives with 2 cutting edges.

- Minimum order quantity: 1 set of 10 knives of the same type.
- The codes are just a guideline and should be used for ordering purposes only.
- In case of orders specify type of Carbide.



Shaped knives with 4 cutting edges.

- Minimum order quantity: 1 set of 10 knives of the same type.
- The codes are just a guideline and should be used for ordering purposes only.

CG401

HW - Customised knives

L mm	H mm	S mm	Freud Code	Art. No.
12	12	1,5	CG401 BA3	
15	12	1,5	CG401 CA3	
20	12	1,5	CG401 DA3	
30	12	1,5	CG401 EA3	
50	12	1,5	CG401 FA3	
60	12	1,5	CG401 GA3	
80	13	2,2	CG401 HA3	

CG402

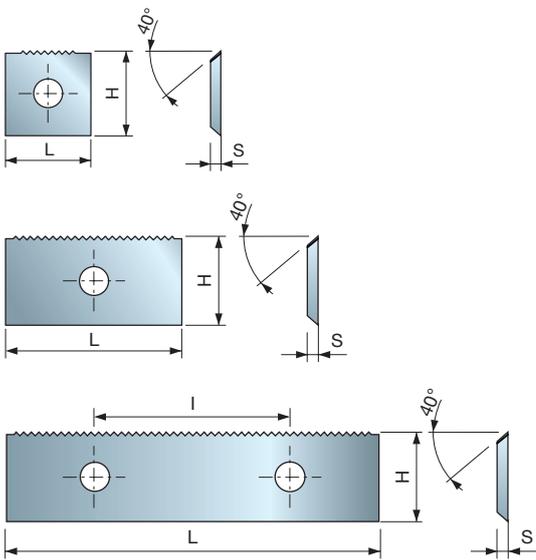
HW - Customised profiled knives

L mm	H mm	S mm	Freud Code	Art. No.
12	12	1,5	CG402 BA3	
15	12	1,5	CG402 CA3	
20	12	1,5	CG402 DA3	
30	12	1,5	CG402 EA3	
50	12	1,5	CG402 FA3	
60	12	1,5	CG402 GA3	

CG403

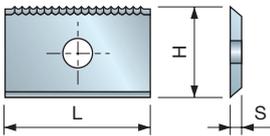
HW - Customised profiled knives

L mm	H mm	S mm	Freud Code	Art. No.
12	12	1,5	CG403 BA3	



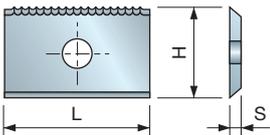
Disposable knives with Split Edge profile

- Suitable for cutterhead with dedicated knife seat.
- Particularly indicated for natural softwood, hardwood and plywood.
- The profiled knives have a Split-Edge profile only on one side (Z1 not reversible) and the height is 12 mm.



Customised knives with Split-Edge design.

- Suitable for original Split edge tools.
- Minimum order quantity: 1 set of 10 knives of the same type.
- The codes are just a guideline and should be used for ordering purpose only.



Knives with 1 cutting edge, Split-Edge design.

- Suitable for no-Split edge tools.
- Minimum order quantity: 1 set of 10 knives of the same type.
- The codes are just a guideline and should be used for ordering purpose only.

CGSEM

HW - Split-Edge knives



Softwood Hardwood

L mm	H mm	S mm	Freud Code	Art. No.
7,6	12	1,5	CGSEMHA310	F03FH03824
8,6	12	1,5	CGSEMJA310	F03FH03825
9,6	12	1,5	CGSEMIA310	F03FH03826
10,6	12	1,5	CGSEMUE310	F03FH03827
11,6	12	1,5	CGSEMLA310	F03FH03828
12	12	1,5	CGSEMAA310	F03FH03829
12,6	12	1,5	CGSEM LB310	F03FH03830
13,6	12	1,5	CGSEM OZ310	F03FH03831
14,6	12	1,5	CGSEM BA310	F03FH03832
15,6	12	1,5	CGSEM GB310	F03FH03833
16,3	12	1,5	CGSEM JD310	F03FH03834
16,6	12	1,5	CGSEM JB310	F03FH03835
17,6	12	1,5	CGSEM JG310	F03FH03836
17,8	12	1,5	CGSEM UF310	F03FH03837
18,6	12	1,5	CGSEM JE310	F03FH03838
20	12	1,5	CGSEM CA310	F03FH03839
20,6	12	1,5	CGSEM JF310	F03FH03840
21,6	12	1,5	CGSEM TA310	F03FH03841
24	12	1,5	CGSEM KA310	F03FH03842
26,6	12	1,5	CGSEM KB310	F03FH03844
30	12	1,5	CGSEM DA310	F03FH03845
40	12	1,5	CGSEM EA310	F03FH03846
50	12	1,5	CGSEM FA310	F03FH03847
60	12	1,5	CGSEM GA310	F03FH03848

CG501

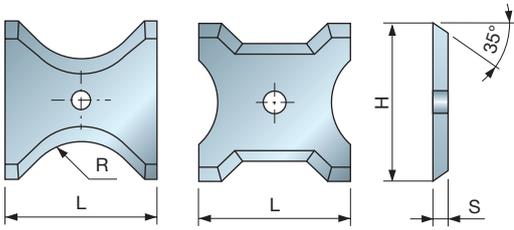
HW - Customised Split-Edge knives

L mm	H mm	S mm	I mm	Freud Code	Art. No.
12	12	1,5	-	CG501 BA3	
15	12	1,5	-	CG501 CA3	
20	12	1,5	-	CG501 DA3	
30	12	1,5	14	CG501 EA3	
50	12	1,5	26	CG501 FA3	
60	12	1,5	26	CG501 GA3	

CG502

HW - Customised Split-Edge knives

L mm	H mm	S mm	I mm	Freud Code	Art. No.
12	12,33	1,5	-	CG502 BA3	
15	12,33	1,5	-	CG502 CA3	
20	12,33	1,5	-	CG502 DA3	
30	12,33	1,5	14	CG502 EA3	
50	12,33	1,5	26	CG502 FA3	
60	12,33	1,5	26	CG502 GA3	



CG50M

HW - 35° Disposable knives for TG35M



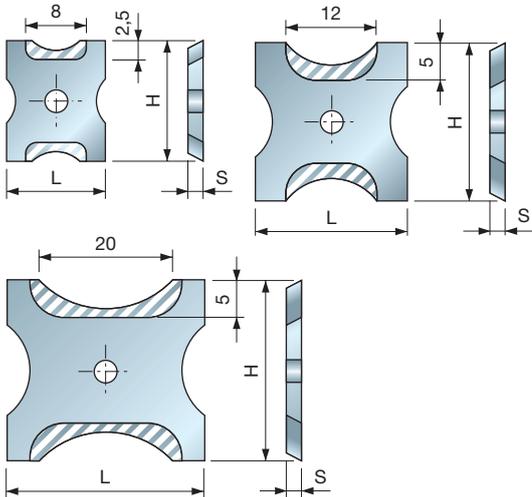
Softwood Hardwood Chipboard Laminated Chipboard MDF Laminated MDF Plywood

HW H00S

Disposable knives made of H00S Freud's Carbide with 35° relief angle.

- Suitable for TG35M tools set.
- Ideal for universal use.

L mm	H mm	S mm	R mm	Freud Code	Art. No.
13	16	2	45°	CG50MCE305	F03FC23920
13	16	2	1	CG50MCD305	F03FC23919
13	16	2	2	CG50MCA305	F03FC23916
13	16	2	3	CG50MCB305	F03FC23917
13	16	2	4	CG50MCC305	F03FC23918
20	21	2	45°	CG50MAE305	F03FC23910
20	21	2	5	CG50MAA305	F03FC23906
20	21	2	6	CG50MAB305	F03FC23907
20	21	2	7	CG50MAC305	F03FC23908
20	21	2	8	CG50MAD305	F03FC23909
26	24	2	45°	CG50MBE305	F03FC23915
26	24	2	9	CG50MBA305	F03FC23911
26	24	2	10	CG50MBB305	F03FC23912
26	24	2	11	CG50MBC305	F03FC23913
26	24	2	12	CG50MBD305	F03FC23914

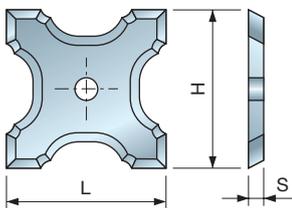


CG404 HW - Customised profiled knives

L mm	H mm	S mm	Freud Code	Art. No.
13	16	2	CG404 ZA3	
20	21	2	CG404 ZB3	
26	24	2	CG404 ZC3	

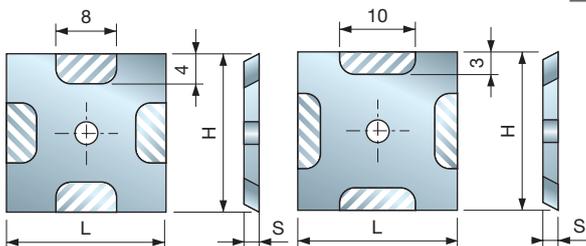
Shaped knives with 2 cutting edges.

- Minimum order quantity: 1 set of 10 knives of the same type.
- The codes are just a guideline and should be used for ordering purposes only.



CG405 HW - Customised profiled knives

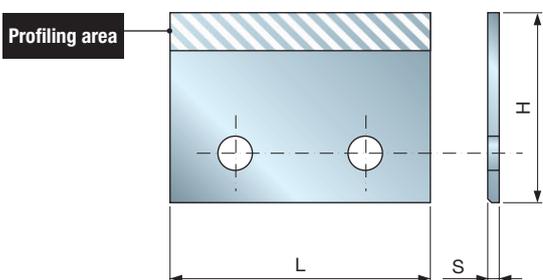
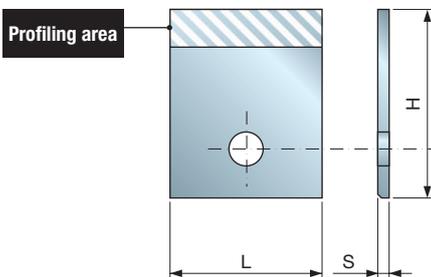
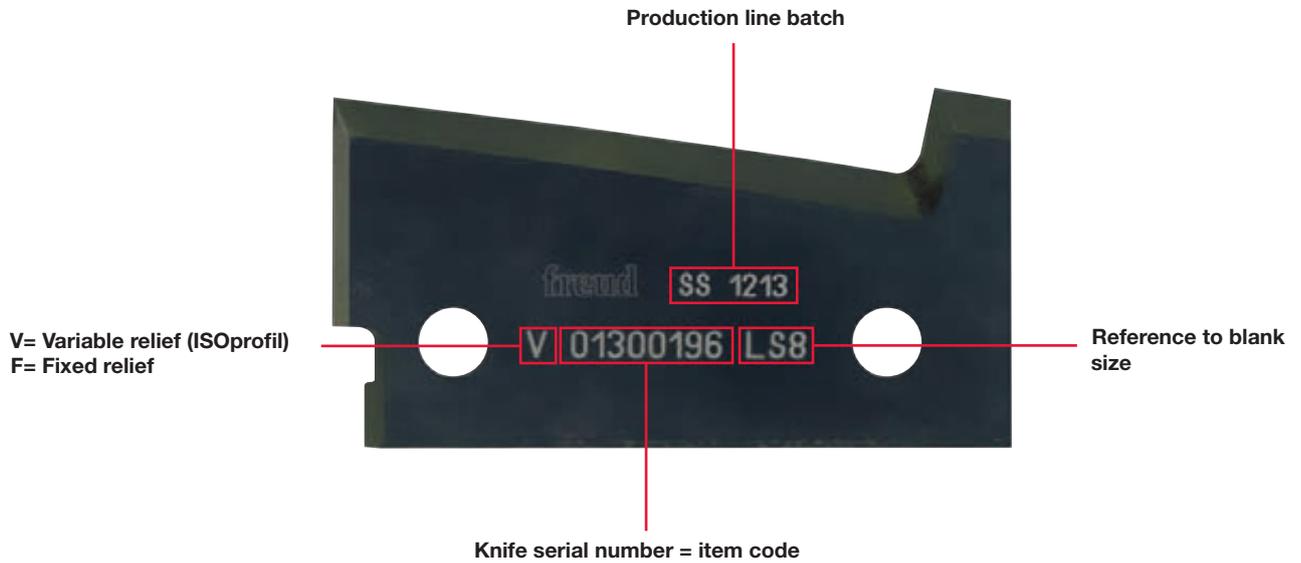
L mm	H mm	S mm	Freud Code	Art. No.
21	21	2	CG405 DA3	



Shaped knives with 4 cutting edges.

- Minimum order quantity: 1 set of 10 knives of the same type.
- The codes are just a guideline and should be used for ordering purposes only.

Meaning of the codes

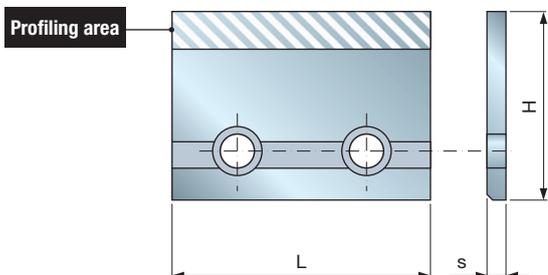
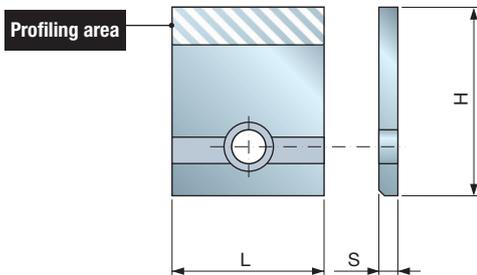


Profiled knives with 2 mm thickness.

The codes are just a guideline and should be used for ordering purpose only.

CK01 HW - Knives 2 mm thickness - special profiling

L mm	H mm	S mm	Freud Code	Art. No.
20	20	2	CK01 AA3	
30	20	2	CK01 CA3	
40	20	2	CK01 EA3	
20	25	2	CK01 AB3	
25	25	2	CK01 BB3	
30	25	2	CK01 CB3	
35	25	2	CK01 DB3	
40	25	2	CK01 EB3	
50	25	2	CK01 GB3	
20	30	2	CK01 AC3	
25	30	2	CK01 BC3	
30	30	2	CK01 CC3	
35	30	2	CK01 DC3	
40	30	2	CK01 EC3	
50	30	2	CK01 GC3	
80	30	2	CK01 OC3	
25	35	2	CK01 BD3	
30	35	2	CK01 CD3	
35	35	2	CK01 DD3	
40	35	2	CK01 ED3	
50	35	2	CK01 GD3	
80	35	2	CK01 OD3	
25	40	2	CK01 BE3	
35	40	2	CK01 DE3	
40	40	2	CK01 EE3	
30	45	2	CK01 CF3	
35	50	2	CK01 HG3	



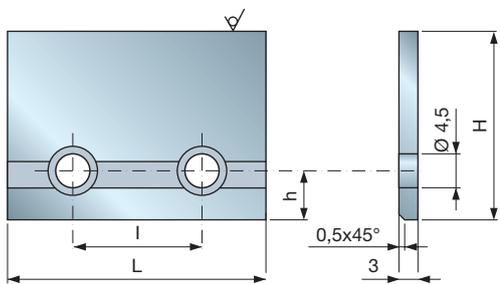
Performance System profiled knives with 3 mm thickness.

The codes are just a guideline and should be used for ordering purpose only.

CK02

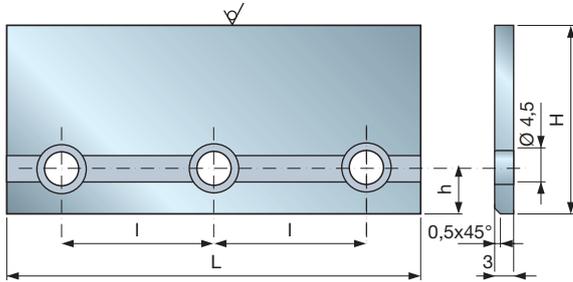
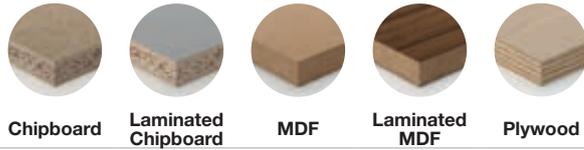
HW - Performance knives 3 mm thickness - special profiling

L mm	H mm	S mm		Freud Code	Art. No.
65	20	3	HU7	CK02 LA3	
65	20	3	HU8	CK02 LA3	
20	25	3	LH7	CK02 AB3	
20	25	3	LH8	CK02 AB3	
25	25	3	LL7	CK02 BB3	
25	25	3	LL8	CK02 BB3	
30	25	3	LN7	CK02 CB3	
30	25	3	LN8	CK02 CB3	
35	25	3	LP7	CK02 DB3	
35	25	3	LP8	CK02 DB3	
45	25	3	LS7	CK02 FB3	
45	25	3	LS8	CK02 FB3	
55	25	3	LT7	CK02 HB3	
55	25	3	LT8	CK02 HB3	
70	25	3	LV7	CK02 MB3	
70	25	3	LV8	CK02 MB3	
21	30	3	NA7	CK02 GC3	
21	30	3	NA8	CK02 GC3	
25	30	3	NL7	CK02 BC3	
25	30	3	NL8	CK02 BC3	
35	30	3	NP7	CK02 DC3	
35	30	3	NP8	CK02 DC3	
45	30	3	NS7	CK02 FC3	
45	30	3	NS8	CK02 FC3	
55	30	3	NT7	CK02 HC3	
55	30	3	NT8	CK02 HC3	
80	30	3	NZ7	CK02 OC3	
80	30	3	NZ8	CK02 OC3	
14,4	35	3	PG8	CK02 ID3	
21	35	3	PA7	CK02 GD3	
21	35	3	PA8	CK02 GD3	
25	35	3	PL7	CK02 BD3	
25	35	3	PL8	CK02 BD3	
30	35	3	PN7	CK02 CD3	
30	35	3	PN8	CK02 CD3	
35	35	3	PP7	CK02 DD3	
35	35	3	PP8	CK02 DD3	
45	35	3	PS7	CK02 FD3	
45	35	3	PS8	CK02 FD3	
55	35	3	PT7	CK02 HD3	
55	35	3	PT8	CK02 HD3	
80	35	3	PZ7	CK02 OD3	
80	35	3	PZ8	CK02 OD3	
25	40	3	RL7	CK02 BE3	
25	40	3	RL8	CK02 BE3	
30	40	3	RN7	CK02 CE3	
30	40	3	RN8	CK02 CE3	
40	40	3	RR7	CK02 EE3	
40	40	3	RR8	CK02 EE3	
55	40	3	RT7	CK02 HE3	
55	40	3	RT8	CK02 HE3	



0317M

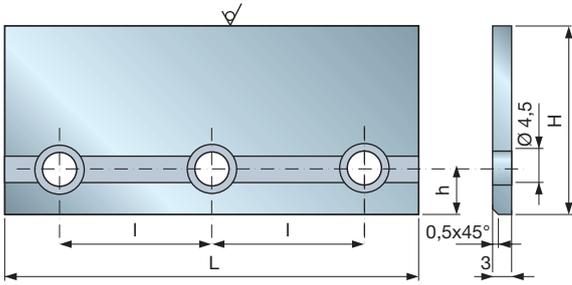
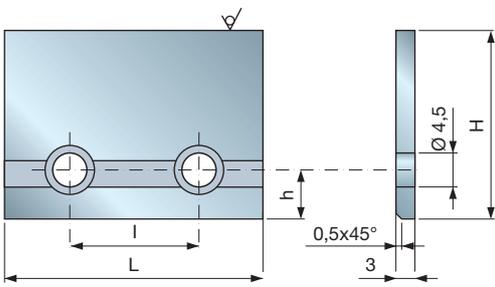
HW - Blanks for profiling 3 mm thickness



**HW
H00S**

Standard blanks made by H00S Freud's standard Carbide with 3 mm thickness.
 • Suitable for hardwood and wood composites.

L mm	H mm	S mm	NL	I mm	Freud Code	Art. No.
65	20	3	-	-	0317M HU3	F03FH00685
20	25	3	1	-	0317M LH3A	F03FH00686
25	25	3	1	-	0317M LL3A	F03FH00687
30	25	3	1	-	0317M LN3A	F03FH02515
35	25	3	1	-	0317M LP3A	F03FH00688
45	25	3	2	28	0317M LS3A	F03FH00689
55	25	3	3	20,5	0317M LT3A	F03FH00690
70	25	3	2	41	0317M LV3A	F03FH00691
21	30	3	1	-	0317M21030A	F03FH00708
25	30	3	1	-	0317M NL3A	F03FH00692
35	30	3	1	-	0317M NP3A	F03FH00693
45	30	3	2	28	0317M NS3A	F03FH00694
55	30	3	2	41	0317M NT3A	F03FH00695
80	30	3	3	33	0317M NZ3A	F03FH00696
21	35	3	1	-	0317M21035A	F03FH00709
25	35	3	1	-	0317M PL3A	F03FH00697
30	35	3	1	-	0317M PN3A	F03FH00698
35	35	3	1	-	0317M PP3A	F03FH00699
45	35	3	2	28	0317M PS3A	F03FH00700
55	35	3	3	20,5	0317M PT3A	F03FH00701
80	35	3	3	33	0317M PZ3A	F03FH00702
25	40	3	1	-	0317M RL3A	F03FH00703
30	40	3	1	-	0317M RN3A	F03FH00704
40	40	3	-	-	0317M RR3	F03FH00705
40	40	3	1	-	0317M RR3A	F03FH00706
55	40	3	3	20,5	0317M RT3A	F03FH00707



HW
X10TS

Standard blanks made by X10TS Freud's standard Carbide with 3 mm thickness.

- Suitable for natural softwood and hardwood.

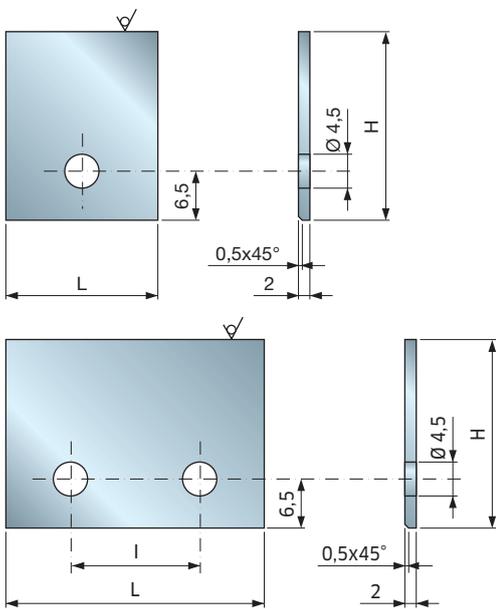
0318M

HW - Blanks for profiling 3 mm thickness



Softwood Hardwood

L mm	H mm	S mm	NL	I mm	Freud Code	Art. No.
65	20	3	2	28	0318M HU3	F03FH00710
20	25	3	1	-	0318M LH3A	F03FH00711
25	25	3	1	-	0318M LL3A	F03FH00712
30	25	3	1	-	0318M LN3A	F03FH02514
35	25	3	1	-	0318M LP3A	F03FH00713
45	25	3	2	28	0318M LS3A	F03FH00714
55	25	3	3	20,5	0318M LT3A	F03FH00715
70	25	3	2	41	0318M LV3A	F03FH00716
21	30	3	1	-	0318M21030A	F03FH00734
25	30	3	1	-	0318M NL3A	F03FH00717
35	30	3	1	-	0318M NP3A	F03FH00718
45	30	3	2	28	0318M NS3A	F03FH00719
55	30	3	3	20,5	0318M NT3A	F03FH00720
80	30	3	3	33	0318M NZ3A	F03FH00721
14,4	35	3	1	-	0318M PG3A	F03FH00722
21	35	3	1	-	0318M21035A	F03FH00735
25	35	3	1	-	0318M PL3A	F03FH00723
30	35	3	1	-	0318M PN3A	F03FH00724
35	35	3	1	-	0318M PP3A	F03FH00725
45	35	3	2	28	0318M PS3A	F03FH00726
55	35	3	3	20,5	0318M PT3A	F03FH00727
80	35	3	3	33	0318M PZ3A	F03FH00728
25	40	3	1	-	0318M RL3A	F03FH00729
30	40	3	1	-	0318M RN3A	F03FH00730
40	40	3	1	-	0318M RR3	F03FH00731
40	40	3	1	-	0318M RR3A	F03FH00732
55	40	3	3	20,5	0318M RT3A	F03FH00733



HW
X10TS

Standard blanks made by X10TS Freud's standard Carbide with 2 mm thickness.

- Suitable for natural softwood and hardwood.

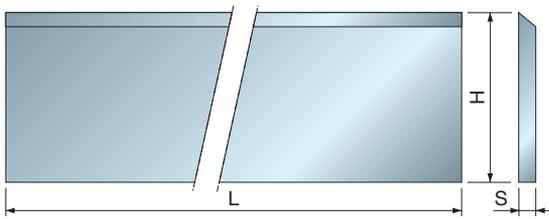
0339M

HW - Blanks for profiling
2 mm thickness - mirror finished



Softwood Hardwood

L mm	H mm	S mm	NL	I mm	Freud Code	Art. No.
15	15,3	2	1	-	0339M3WW2W	F03FH02551
16	15,3	2	1	-	0339M3XW2W	F03FH02537
15	20,3	2	1	-	0339M3WA2W	F03FH02548
16	20,3	2	1	-	0339M3XA2W	F03FH02552
20	20,3	2	1	-	0339M3AA2W	F03FH02560
25	20,3	2	1	-	0339M3BA2W	F03FH02557
30	20,3	2	1	-	0339M3DA2W	F03FH02538
30	20,3	2	2	14	0339M3DA2X	F03FH02587
35	20,3	2	1	-	0339M3FA2W	F03FH02559
35	20,3	2	2	14	0339M3FA2X	F03FH02585
40	20,3	2	2	26	0339M3GA2Y	F03FH02565
50	20,3	2	2	26	0339M3KA2Y	F03FH02563
60	20,3	2	2	26	0339M3LA2Y	F03FH02598
80	20,3	2	2	26	0339M3OA2Y	F03FH02602
15	25,3	2	1	-	0339M3WB2W	F03FH02549
16	25,3	2	1	-	0339M3XB2W	F03FH02536
20	25,3	2	1	-	0339M3AB2W	F03FH02571
25	25,3	2	1	-	0339M3BB2W	F03FH02572
30	25,3	2	1	-	0339M3DB2W	F03FH02573
30	25,3	2	2	14	0339M3DB2X	F03FH02574
35	25,3	2	1	-	0339M3FB2W	F03FH02541
35	25,3	2	2	14	0339M3FB2X	F03FH02590
40	25,3	2	2	26	0339M3GB2Y	F03FH02594
50	25,3	2	2	26	0339M3KB2Y	F03FH02597
60	25,3	2	2	26	0339M3LB2Y	F03FH02584
80	25,3	2	2	26	0339M3OB2Y	F03FH02544
15	30,3	2	1	-	0339M3WD2W	F03FH02550
16	30,3	2	1	-	0339M3XD2W	F03FH02553
20	30,3	2	1	-	0339M3AD2W	F03FH02579
25	30,3	2	1	-	0339M3BD2W	F03FH02580
30	30,3	2	1	-	0339M3DD2W	F03FH02539
30	30,3	2	2	14	0339M3DD2X	F03FH02581
35	30,3	2	1	-	0339M3FD2W	F03FH02591
35	30,3	2	2	14	0339M3FD2X	F03FH02575
40	30,3	2	2	26	0339M3GD2Y	F03FH02562
50	30,3	2	2	26	0339M3KD2Y	F03FH02564
60	30,3	2	2	26	0339M3LD2Y	F03FH02543
80	30,3	2	2	26	0339M3OD2Y	F03FH02569
20	35,3	2	1	-	0339M3AF2W	F03FH02554
25	35,3	2	1	-	0339M3BF2W	F03FH02561
30	35,3	2	1	-	0339M3DF2W	F03FH02540
30	35,3	2	2	14	0339M3DF2X	F03FH02582
35	35,3	2	1	-	0339M3FF2W	F03FH02583
35	35,3	2	2	14	0339M3FF2X	F03FH02576
40	35,3	2	2	26	0339M3GF2Y	F03FH02566
50	35,3	2	2	26	0339M3KF2Y	F03FH02577
60	35,3	2	2	26	0339M3LF2Y	F03FH02599
80	35,3	2	2	26	0339M3OF2Y	F03FH02601
20	40,3	2	1	-	0339M3AG2W	F03FH02555
25	40,3	2	1	-	0339M3BG2W	F03FH02586
30	40,3	2	1	-	0339M3DG2W	F03FH02588
30	40,3	2	2	14	0339M3DG2X	F03FH02558
35	40,3	2	1	-	0339M3FG2W	F03FH02592
35	40,3	2	2	14	0339M3FG2X	F03FH02593
40	40,3	2	2	26	0339M3GG2Y	F03FH02567
50	40,3	2	2	26	0339M3KG2Y	F03FH02542
60	40,3	2	2	26	0339M3LG2Y	F03FH02568
80	40,3	2	2	26	0339M3OG2Y	F03FH02545
30	45,3	2	1	-	0339M3DI2W	F03FH02589
40	45,3	2	2	26	0339M3GI2Y	F03FH02595
35	50,3	2	1	-	0339M3FK2W	F03FH02570
40	50,3	2	2	26	0339M3GK2Y	F03FH02596



CT01M

18%W HSS knives Standard dimensions

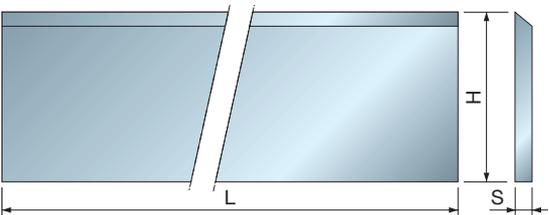


Softwood

Standard planerhead knives with 18% HSS.

- Box contains 2 pieces with same weight.
- Per balancing reasons fit same box knives in opposite tools seats.

L mm	H mm	S mm	Freud Code	Art. No.
60	30	3	CT01MAA202	
80	30	3	CT01MBA202	
100	30	3	CT01MDA202	
120	30	3	CT01MGA202	
130	30	3	CT01MHA202	
140	30	3	CT01MIA202	
150	30	3	CT01MLA202	
160	30	3	CT01MMA202	
180	30	3	CT01MOA202	
200	30	3	CT01MPA202	
230	30	3	CT01MRA202	
410	30	3	CT01MTB202	



CT010S

18%W HSS knives Special dimensions



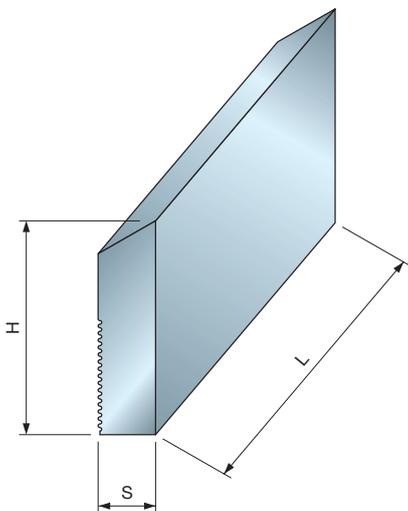
Softwood

Special planerhead knives with 18% HSS.

- Box contains 2 pieces with same weight.
- Per balancing reasons fit same box knives in opposite tools seats.

The codes are just a guideline and should be used for ordering purpose only.

L mm	H mm	S mm	Freud Code	Art. No.
<59	30	3	CT010S AA2	
61-79	30	3	CT010S BA2	
81-99	30	3	CT010S CA2	
101-119	30	3	CT010S DA2	
121-129	30	3	CT010S EA2	
131-149	30	3	CT010S FA2	
151-159	30	3	CT010S GA2	
161-179	30	3	CT010S HA2	
181-199	30	3	CT010S IA2	
201-209	30	3	CT010S LA2	
211-229	30	3	CT010S MA2	



CZ01M

HSS serrated back knives

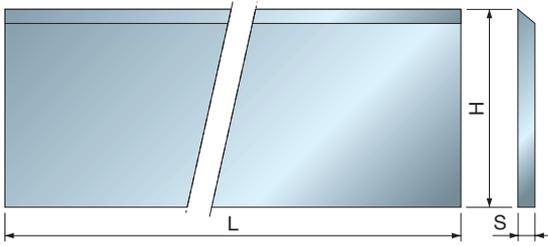
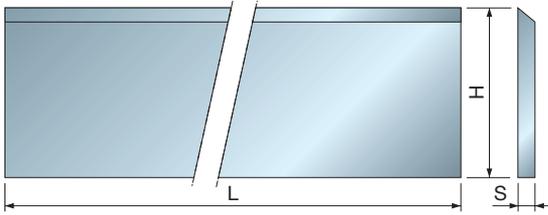


Softwood

Profiling HSS knives with serrated surface.

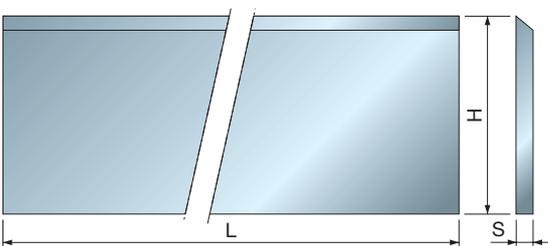
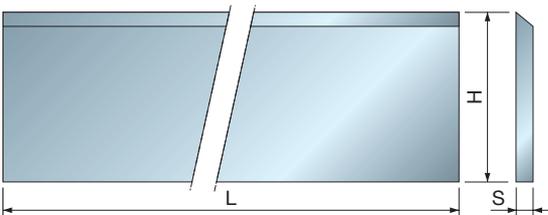
- Suitable for Freud **TPCZM** planners.
- Suitable for cutting all softwood and hardwood.

L mm	H mm	S mm	Freud Code	Art. No.
60	50	8	CZ01MDB202	F03FA21895
80	50	8	CZ01MDC202	F03FA21896
100	50	8	CZ01MDD202	F03FA21897
150	50	8	CZ01MDF202	F03FA21898
60	60	8	CZ01MHB202	F03FA21899
80	60	8	CZ01MHC202	F03FA21900
100	60	8	CZ01MHD202	F03FA21901
150	60	8	CZ01MHF202	F03FA21902
60	70	8	CZ01MNB202	F03FA21903
80	70	8	CZ01MNC202	F03FA21904
100	70	8	CZ01MND202	F03FA21905
150	70	8	CZ01MNF202	F03FA21906



Standard planerhead knives with 18% HSS.

- Box contains 2 pieces with same weight.
- Per balancing reasons fit same box knives in opposite tools seats.



Special planerhead knives with 18% HSS.

- Box contains 2 pieces with same weight.
- Per balancing reasons fit same box knives in opposite tools seats.

The codes are just a guideline and should be used for ordering purpose only.

CP01M

18%W HSS planing knives Standard dimensions



Softwood

L mm	H mm	S mm	Freud Code	Art. No.
250	30	3	CP01MAB202	F03FA18136
300	30	3	CP01MCB202	F03FA18139
350	30	3	CP01MDB202	F03FA18141
400	30	3	CP01MEB202	F03FA18143
500	30	3	CP01MGB202	F03FA18147
510	30	3	CP01MHB202	F03FA18149
530	30	3	CP01MIB402	F03FA18151
600	30	3	CP01MKB202	F03FA18154
610	30	3	CP01MLB202	F03FA18156
630	30	3	CP01MMB202	F03FA18158
640	30	3	CP01MNB402	F03FA18160
710	30	3	CP01MOB202	F03FA18162
1010	30	3	CP01MTB202	F03FA18164

L mm	H mm	S mm	Freud Code	Art. No.
280	35	3	CP01MBA202	F03FA18137
300	35	3	CP01MCA202	F03FA18138
350	35	3	CP01MDA202	F03FA18140
400	35	3	CP01MEA202	F03FA18142
410	35	3	CP01MFA202	F03FA18144
450	35	3	CP01MFB202	F03FA18145
500	35	3	CP01MGA202	F03FA18146
510	35	3	CP01MHA202	F03FA18148
520	35	3	CP01MJA202	F03FA18152
530	35	3	CP01MIA202	F03FA18150
600	35	3	CP01MKA202	F03FA18153
610	35	3	CP01MLA202	F03FA18155
630	35	3	CP01MMA202	F03FA18157
640	35	3	CP01MNA202	F03FA18159
710	35	3	CP01MOA202	F03FA18161
1010	35	3	CP01MTA202	F03FA18163

CP010S

18%W HSS planing knives Special dimensions

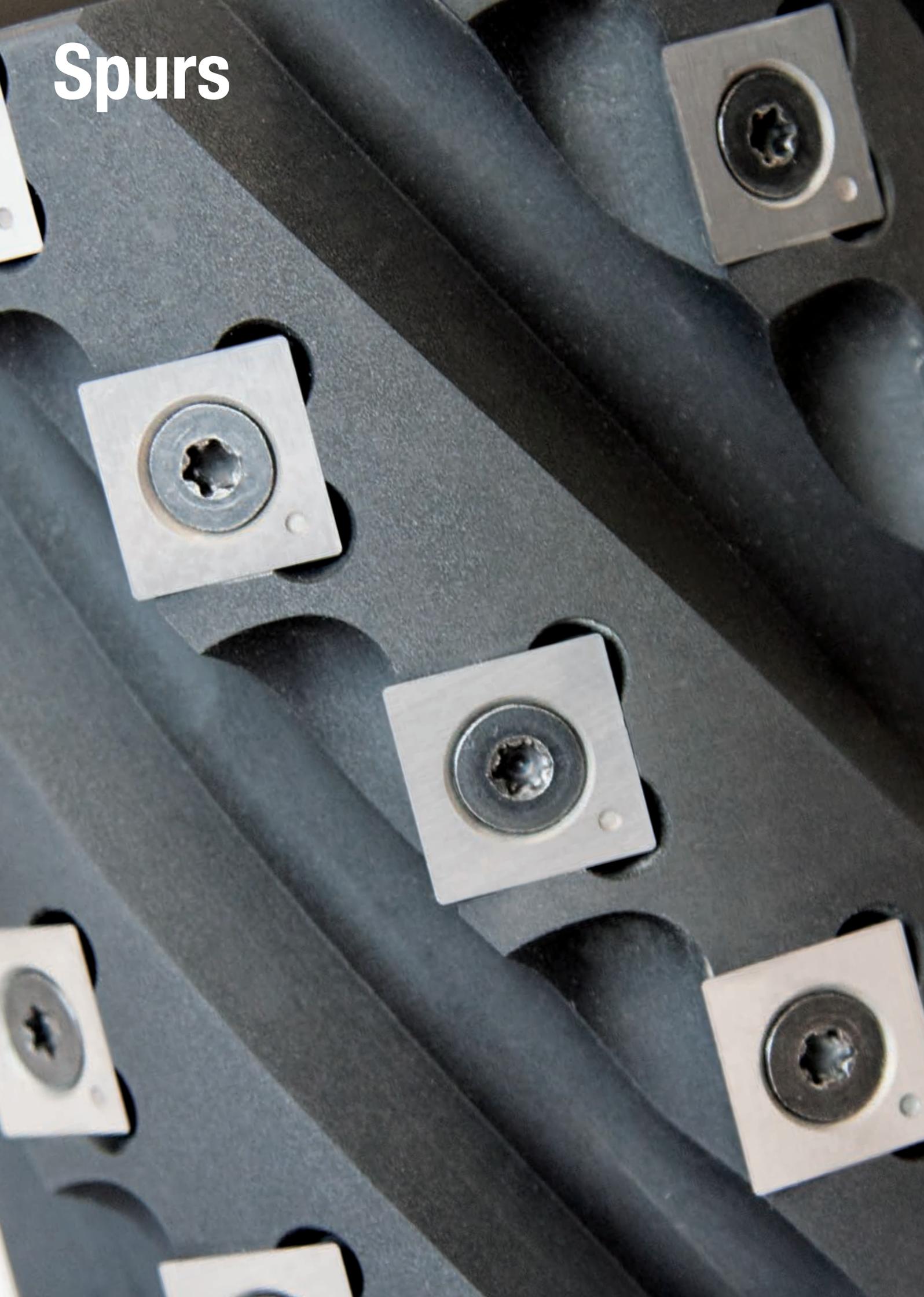


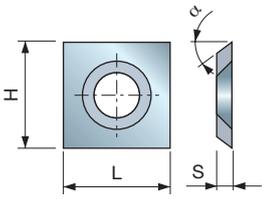
Softwood

L mm	H mm	S mm	Freud Code	Art. No.
231-249	30	3	CP010S AB2	
251-299	30	3	CP010S BB2	
301-349	30	3	CP010S CB2	
351-399	30	3	CP010S DB2	
401-499	30	3	CP010S EB2	
501-599	30	3	CP010S FB2	
601-699	30	3	CP010S GB2	
701-799	30	3	CP010S HB2	

L mm	H mm	S mm	Freud Code	Art. No.
< 299	35	3	CP010S AA2	
301-349	35	3	CP010S BA2	
351-399	35	3	CP010S CA2	
411-499	35	3	CP010S DA2	
511-529	35	3	CP010S EA2	
531-599	35	3	CP010S FA2	
611-629	35	3	CP010S GA2	
641-709	35	3	CP010S HA2	

Spurs





Wide range of squared spurs with 4 cutting sides with variable Carbide types and relief angle to cover all available materials.

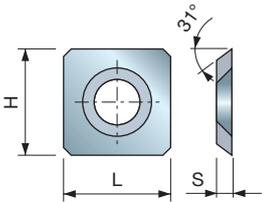
RG01M

HW - Square disposable spurs - Type A



Softwood Hardwood Chipboard MDF Plywood Plastics

L mm	H mm	S mm	Quality of HW	α	Freud Code	Art. No.
13,5	13,5	3	H00S	30°	RG01MDA310	F03FH03582
14	14	1,2	K20S	31°	RG01MAB310	F03FH03035
14	14	2	K20S	30°	RG01MAF310	F03FH03285
14	14	2	MG10	31°	RG01MAE310	F03FH04113
14	14	2	K01S	30°	RG01MAL310	F03FH03777
14	14	2	K20S	31°	RG01MAA310	F03FH03034
14	14	2	H00S	31°	RG01MAI310	F03FH03791
14	14	2	H00XA	31°	RG01MAH310	F03FH03037
14	14	2	MG10	37°	RG01MAD310	F03FH03036
15	15	2,5	K01S	30°	RG01MBE310	F03FH03723



Range of squared spurs with 4 cutting sides and 4 beveled corners.

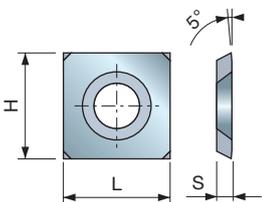
RG01M

HW - Square disposable spurs - Type B



Softwood Hardwood MDF

L mm	H mm	S mm	Quality of HW	α	Freud Code	Art. No.
15	15	2,5	K20S	31°	RG01MBA310	F03FH03038
14,6	14,6	2,5	MG10	31°	RG01MCA310	F03FH03040
15	15	2,5	MG10	37°	RG01MBD310	F03FH03039



Range of squared spurs with 4 cutting sides and 4 beveled corners.

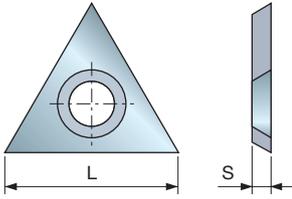
RG01M

HW - Square disposable spurs - Type C



Softwood Hardwood

L mm	H mm	S mm	Quality of HW	α	Freud Code	Art. No.
14	14	2	K20S	31°	RG01MAG310	F03FC24180



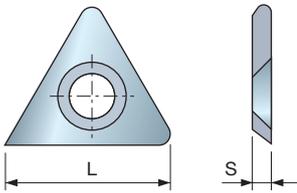
Triangular spurs with sharp edge.

RG02M HW - Triangular disposable spurs



Softwood Hardwood Laminated Chipboard

L mm	H mm	S mm	Quality of HW	α	Freud Code	Art. No.
22,86	-	2,5	K20S	31°	RG02MAA305	F03FH03041
22,86	-	2,5	K01S	31°	RG02MBE305	F03FH03725



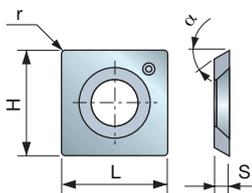
Triangular spurs with radius edge.

RG03M HW - Triangular disposable spurs with radius



Softwood Hardwood Laminated Chipboard

L mm	H mm	S mm	Quality of HW	α	Freud Code	Art. No.
21,9	-	2,5	K20S	31°	RG03MAA305	F03FH03042
21,9	-	2,5	K01S	31°	RG03MBE305	F03FH03727



**HW
K01S**

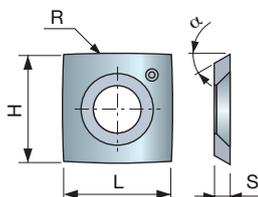
Razors made by K01S Freud's Carbide with rounded corners improve the quality of cut on spiral cutterheads, avoiding the lines left by the sharp edges of conventional square spurs.

RR01 HW - Razor with rounded corners



Softwood Hardwood Laminated Chipboard

L mm	H mm	S mm	r mm	Quality of HW	α	Freud Code	Art. No.
14	14	2	0,5	K01S	30°	RR01MAA310	F03FH04007
14	14	2	0,5	K01S	37°	RR01MAB310	F03FH04008
14,6	14,6	2,5	0,5	K01S	30°	RR01MBA310	F03FH04009
15	15	2,5	0,5	K01S	30°	RR01MCA310	F03FH04010
15	15	2,5	0,5	K01S	37°	RR01MCB310	F03FH04011



**HW
K01S**

Razors made by K01S Freud's Carbide with rounded edges greatly reduce tear-out on helical cutterheads and planers.

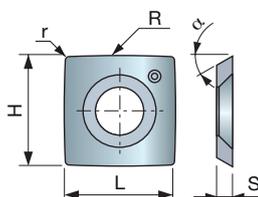
- Their design prevents from wave generation otherwise created by the shear angle positioning.

RR10 HW - 30° razor with rounded edges



Softwood Hardwood Laminated Chipboard

L mm	H mm	S mm	R mm	Quality of HW	α	Freud Code	Art. No.
14	14	2	150	K01S	30°	RR10MAA310	F03FH04012
14,6	14,6	2,5	150	K01S	30°	RR10MBA310	F03FH04043
15	15	2,5	150	K01S	30°	RR10MCA310	F03FH04014
15	15	2,5	50	K01S	30°	RR10MCB310	F03FH04015



**HW
K01S**

Razors made by K01S Freud's Carbide with rounded edges and corners greatly reduce tear-out on helical cutterheads and planers.

- Their design prevents from wave generation otherwise created by the shear angle positioning.

RR11 HW - 30° razor with both rounded corners and edges

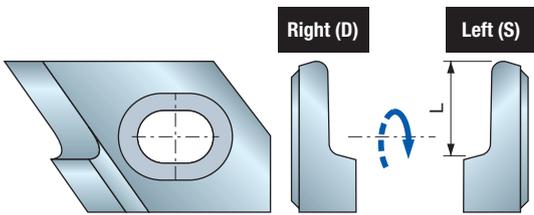


Softwood Hardwood Laminated Chipboard

L mm	H mm	S mm	R mm	r mm	Quality of HW	α	Freud Code	Art. No.
14	14	2	150	0,5	K01S	30°	RR11MAA310	F03FH04016
14,6	14,6	2,5	150	0,5	K01S	30°	RR11MBA310	F03FH04017
15	15	2,5	150	0,5	K01S	30°	RR11MCA310	F03FH04018
15	15	2,5	50	0,5	K01S	30°	RR11MCB310	F03FH04020
15	15	2,5	115	0,5	K01S	30°	RR11MCC310	F03FH04019

Inserts





IG25MD IG25MS

HW - Multipurpose inserts



Softwood Hardwood

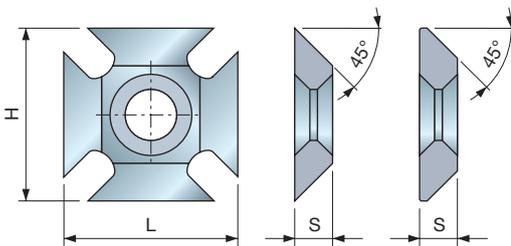
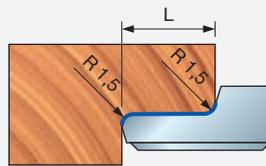
L mm	H mm	S mm	Freud Code Right (D)	Art. No.	Freud Code Left (S)	Art. No.
10	-	-	IG25MD10302	F03FC24164	IG25MS10302	F03FC24172
11	-	-	IG25MD11302	F03FC24165	IG25MS11302	F03FC24173
12	-	-	IG25MD12302	F03FC24166	IG25MS12302	F03FC24174
13	-	-	IG25MD13302	F03FC24167	IG25MS13302	F03FC24175
14	-	-	IG25MD14302	F03FC24168	IG25MS14302	F03FC24176
15	-	-	IG25MD15302	F03FC24169	IG25MS15302	F03FC24177
16	-	-	IG25MD16302	F03FC24170	IG25MS16302	F03FC24178
18	-	-	IG25MD18302	F03FC24171	IG25MS18302	F03FC24179

HW K20S

Resharpenable inserts made by K20S Freud's Carbide.

- Suitable for rounded rebates.
- Available in both left and right rotation.

Example of application of inserts IG25M



IG01MAA305
F03FH02983

IG01MBA305
F03FH02984

IG01M

HW - 45° Beveling inserts



Softwood Hardwood

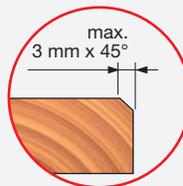
L mm	H mm	S mm	Freud Code	Art. No.
23	23	5	IG01MAA305	F03FH02983
23	23	5	IG01MBA305	F03FH02984

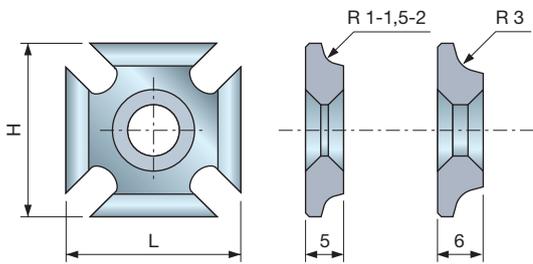
HW K20S

Beveling inserts made by K20S Freud's Carbide and 8 cutting edges.

- It can be used reversibly and with rotation in both senses.
- Particularly indicated for natural softwood and hardwood.
- Perfectly interchangeable with the rounding inserts **IG02M**.

Example of application of inserts IG01M





IG02M

HW - Rounding inserts



Softwood Hardwood

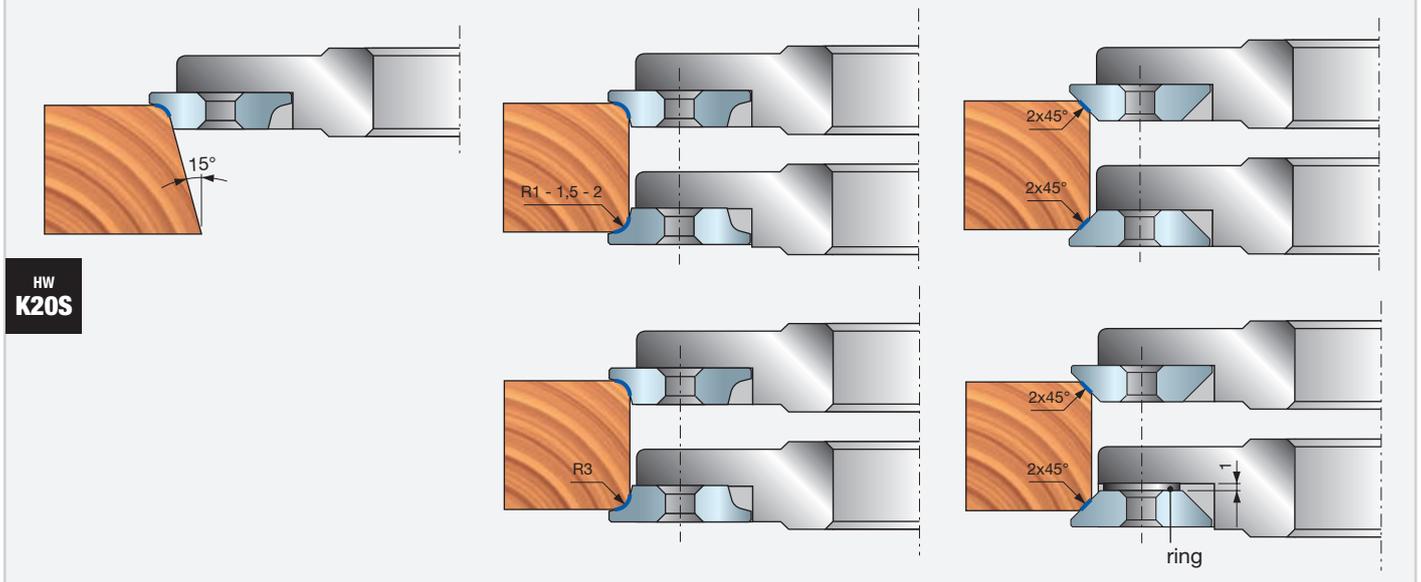
L mm	H mm	S mm	I mm	Freud Code	Art. No.
23	23	5	1	IG02MAA305	F03FH02985
23	23	5	1,5	IG02MAB305	F03FH02986
23	23	5	2	IG02MAC305	F03FH02987
23	23	6	3	IG02MAE305	F03FH02988

Rounding inserts made by K20S Freud's Carbide and 8 cutting edges.

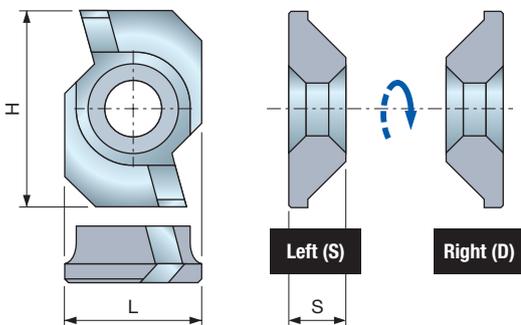
- It can be used reversibly and with rotation in both senses.
- Particularly indicated for natural softwood and hardwood.
- Perfectly interchangeable with the rounding inserts **IG01M**.

Note: Rounding insert **IG02MAE305** is interchangeable with insert **IG01MBA305**, for carrying out bevels with a 2 mm x 45°, only if a 1 mm ring is used (see example).

Example of application of inserts IG01M and IG02M



HW
K20S



IG21MD IG21MS

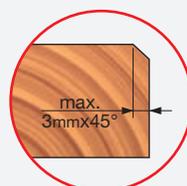
HW - 45° Beveling inserts with shear angle



Softwood Hardwood

L mm	H mm	S mm	Freud Code Right (D)	Art. No.	Freud Code Left (S)	Art. No.
18	26	7,5	IG21MDAA305	F03FH03005	IG21MSAA305	F03FH03006

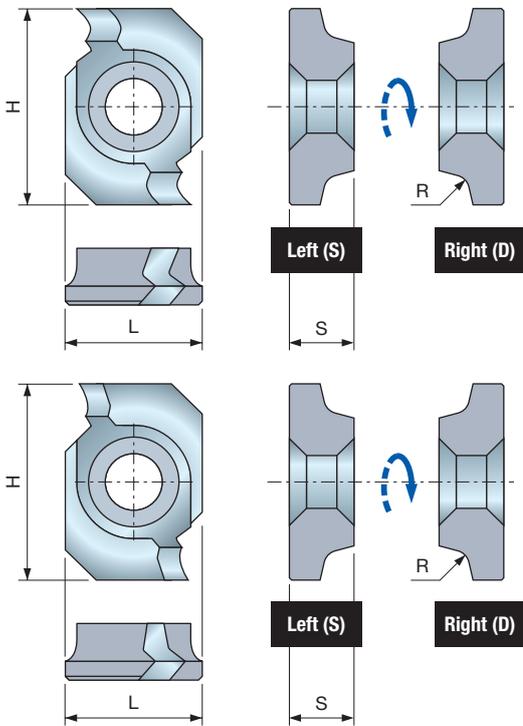
Example of application of inserts IG21MD/S



HW
K20S

Beveling inserts made by K20S Freud's Carbide and designed with a shear angle.

- Particularly indicated for natural softwood and hardwood.
- Perfectly interchangeable with rounding inserts **IG22M**.



IG22MD IG22MS

HW - Rounding inserts with shear angle



Softwood Hardwood

Inserts with positive shear angle

L mm	H mm	S mm	R mm	Freud Code Right (D)	Art. No.	Freud Code Left (S)	Art. No.
18	26	8,5	1,5	IG22MDAB305	F03FH03007	IG22MSAB305	F03FH03013
18	26	8,5	2	IG22MDAC305	F03FH03008	IG22MSAC305	F03FH03014
18	26	8,5	3	IG22MDAE305	F03FH03009	IG22MSAE305	F03FH03015

Inserts with negative shear angle

L mm	H mm	S mm	R mm	Freud Code Right (D)	Art. No.	Freud Code Left (S)	Art. No.
18	26	8,5	1,5	IG22MDZB305	F03FH03010	IG22MSZB305	F03FH03016
18	26	8,5	2	IG22MDZC305	F03FH03011	IG22MSZC305	F03FH03017
18	26	8,5	3	IG22MDZE305	F03FH03012	IG22MSZE305	F03FH03018

HW
K20S

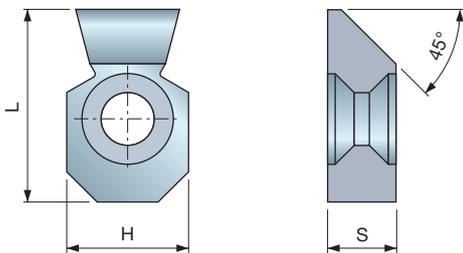
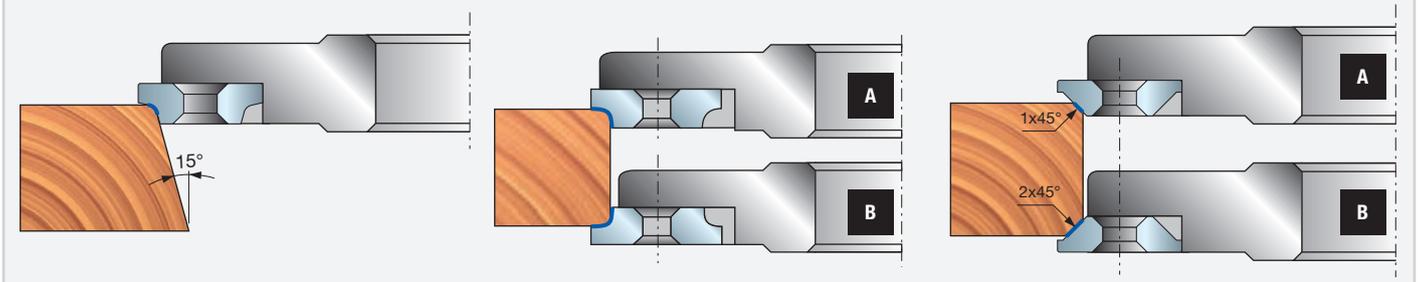
Rounding inserts made by K20S Freud's Carbide and designed with a shear angle.

- Particularly indicated for natural softwood and hardwood.
- Perfectly interchangeable with rounding inserts IG21M.

IG22MDA-MSA... Inserts with positive shear angle.

IG22MDZ-MSZ... Inserts with negative shear angle.

Example of application of inserts IG21MD/S and IG22MD/S



IG33M

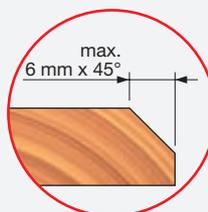
HW - 45° Beveling inserts with shear angle



Softwood Hardwood

L mm	H mm	S mm	Chamfer	Freud Code	Art. No.
25,5	16	9	45°	IG33MAD305	F03FH03021

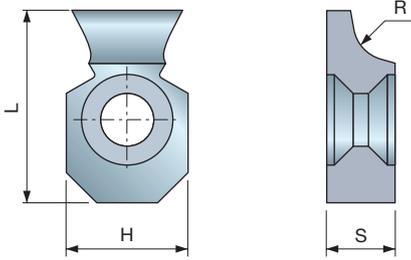
Example of application of inserts IG33M



HW
K20S

Beveling inserts made by K20S Freud's Carbide suitable for both rotation sense and 2 cutting edges (1 for right hand rotation and 1 for left hand rotation).

- Indicated for natural softwood and hardwood.
- Perfectly interchangeable with rounding inserts IG33MAA305 and IG33MAB305.



IG33M

HW - Rounding inserts with shear angle



Softwood Hardwood

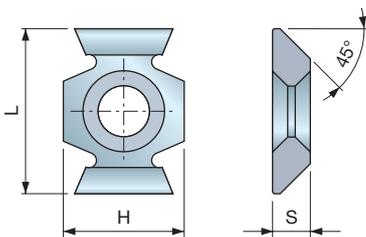
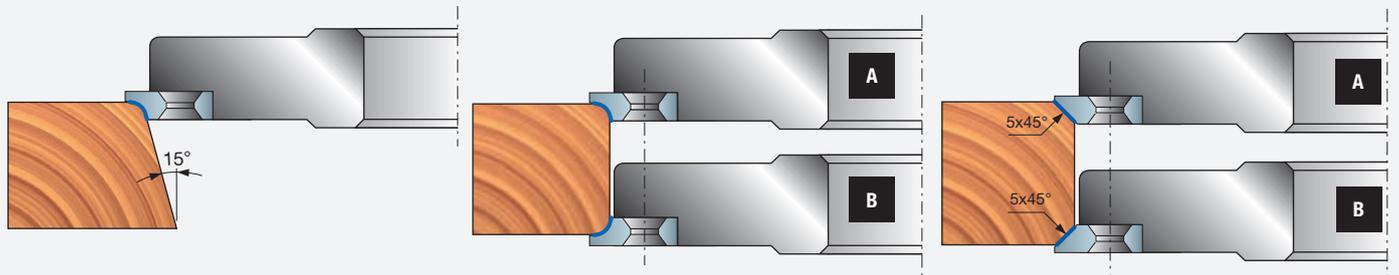
HW
K20S

Rounding inserts made by K20S Freud's Carbide suitable for both rotation sense and 2 cutting edges (1 for right hand rotation and 1 for left hand rotation).

- Indicated for natural softwood and hardwood.
- Perfectly interchangeable with beveling inserts **IG33MAD305**.

L	H	S	R	Freud Code	Art. No.
mm	mm	mm	mm		
25,5	16	9	3	IG33MAA305	F03FH03019
25,5	16	9	5	IG33MAB305	F03FH03020

Example of application of inserts IG33M



IG51M

HW - 45° Beveling inserts with shear angle



Softwood Hardwood

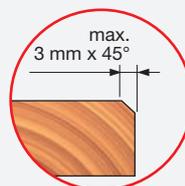
HW
K20S

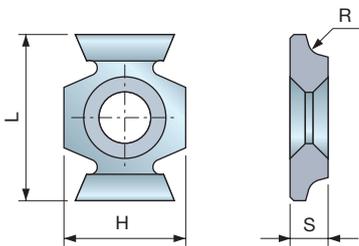
Beveling insert made by K20S Freud's Carbide suitable for both rotation sense and 4 cutting edges (2 for right hand rotation and 2 for left hand rotation).

- Indicated for natural softwood and hardwood.
- Perfectly interchangeable with rounding inserts **IG52M**.

L	H	S	Freud Code	Art. No.
mm	mm	mm		
22	16	5	IG51MBA305	F03FH03022

Example of application of inserts IG51M





**HW
K20S**

Rounding inserts made by K20S Freud's Carbide suitable for both rotation sense and 4 cutting edges (2 for right hand rotation and 2 for left hand rotation).

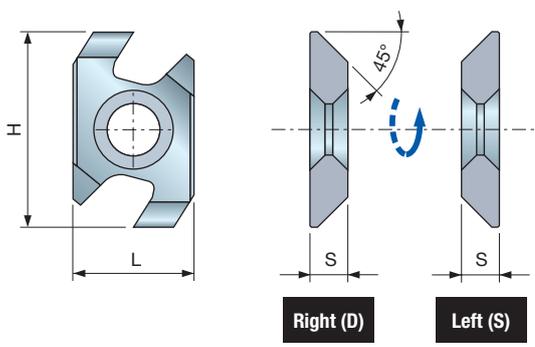
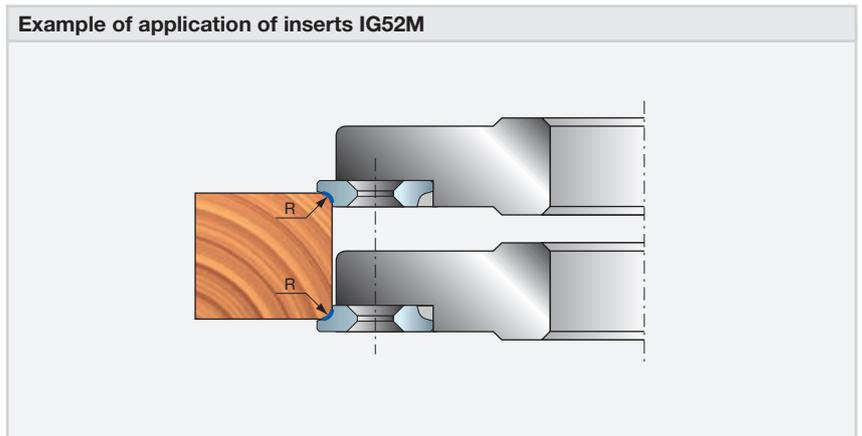
- Indicated for natural softwood and hardwood.
- Perfectly interchangeable with rounding inserts **IG52M**.

IG52M HW - Rounding inserts with shear angle



Softwood Hardwood

L mm	H mm	S mm	R mm	Freud Code	Art. No.
22	16	5	1,5	IG52MAB305	F03FH03023
22	16	5	2	IG52MAC305	F03FH03024
22	16	5	3	IG52MAE305	F03FH03025



IG61MD IG61MS HW - Beveling inserts with anti-kickback technology



Softwood Hardwood

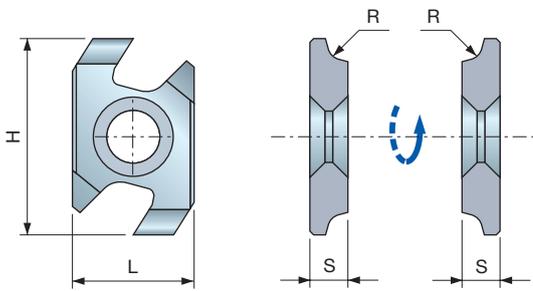
L mm	H mm	S mm	Freud Code Right (D)	Art. No.	Freud Code Left (S)	Art. No.
26	16	5	IG61MDBA305	F03FH03026	IG61MSBA305	F03FH03027

**HW
K20S**

Beveling inserts in K20S Freud's Carbide with anti-kickback technology for MAN feed tools.

- Indicated for natural softwood and hardwood.
- Perfectly interchangeable with rounding inserts **IG62M**.





IG62MD IG62MS

HW - Rounding inserts with anti-kickback technology



Softwood Hardwood

**HW
K20S**

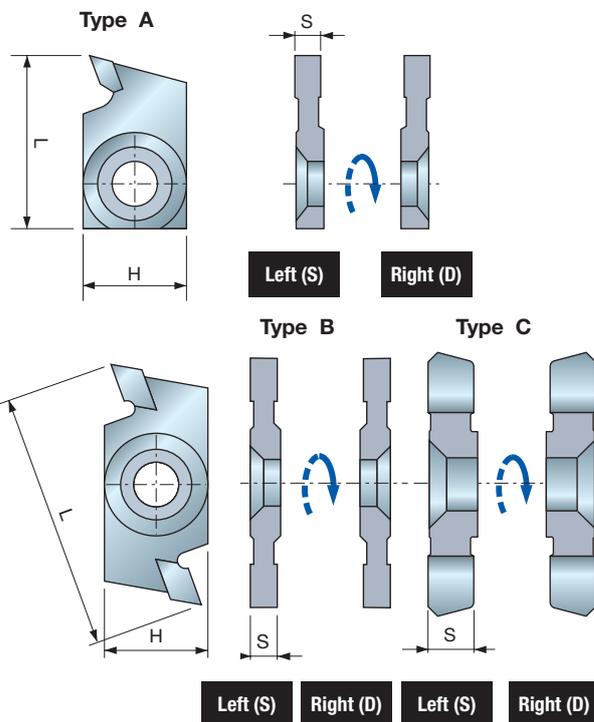
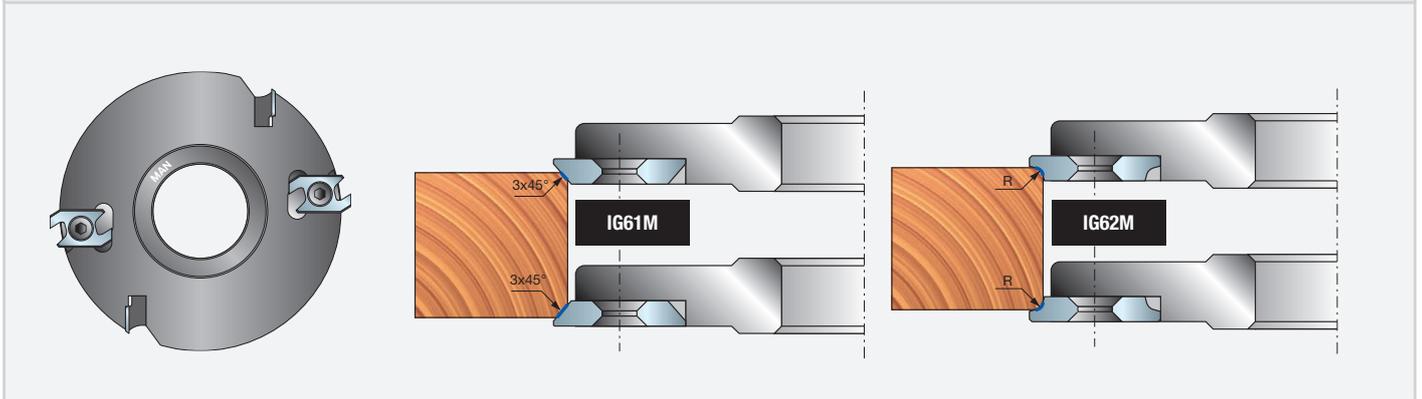
Right (D)

Left (S)

- Rounding inserts in K20S Freud's Carbide with anti-kickback technology for MAN feed tools.
- Indicated for natural softwood and hardwood.
 - Perfectly interchangeable with rounding inserts **IG61M**.

L mm	H mm	S mm	R mm	Freud Code Right (D)	Art. No.	Freud Code Left (S)	Art. No.
26	16	5	1,5	IG62MDAB305	F03FH03028	IG62MSAB305	F03FH03031
26	16	5	2	IG62MDAC305	F03FH03029	IG62MSAC305	F03FH03032
26	16	5	3	IG62MDAE305	F03FH03030	IG62MSAE305	F03FH03033

Example of application of inserts IG61MD/S and IG62MD/S



IG04MD IG04MS

HW - Grooving inserts



Softwood Hardwood

L mm	H mm	S mm	Type	Freud Code Right (D)	Art. No.	Freud Code Left (S)	Art. No.
27	16	3	A	IG04MDAC3T05	F03FC24153	IG04MSAC3T05	F03FC24153
27	16	4	A	IG04MDAA3T05	F03FC24151	IG04MSAA3T05	F03FC24151
27	16	5	A	IG04MDAB3T05	F03FC24152	IG04MSAB3T05	F03FC24152
27	16	6	A	IG04MDAD3T05	F03FC24154	IG04MSAD3T05	F03FC24154

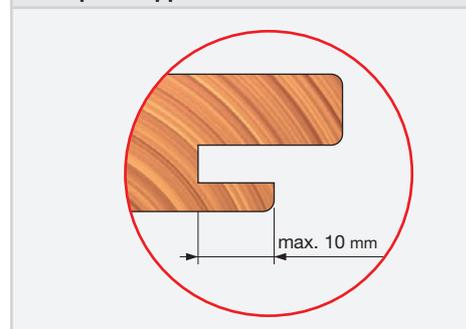
L mm	H mm	S mm	Type	Freud Code Right (D)	Art. No.	Freud Code Left (S)	Art. No.
40	16	3	B	IG04MDAC305	F03FH02992	IG04MSAC305	F03FH02996
40	16	4	B	IG04MDAA305	F03FH03409	IG04MSAA305	F03FH02994
40	16	5	B	IG04MDAB305	F03FH02991	IG04MSAB305	F03FH02995
40	16	6	B	IG04MDAD305	F03FH02993	IG04MSAD305	F03FH02997

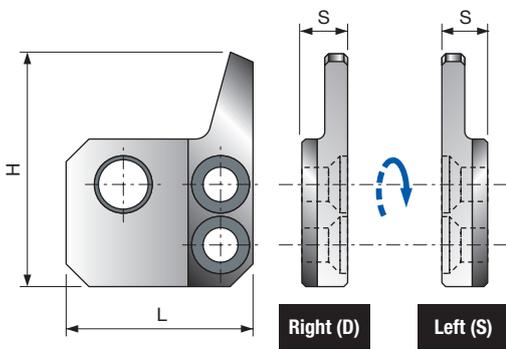
L mm	H mm	S mm	Type	Freud Code Right (D)	Art. No.	Freud Code Left (S)	Art. No.
12	12	1,5	C	IG04MDAL305	F03FH03358	IG04MSAL305	F03FH03359

**HW
K30S**

- Grooving inserts made with K30S Freud's Carbide tips.
- Available in left and right rotation version.
 - Max groove depth 10 mm.
 - Indicated for natural softwood and hardwood.

Example of application of inserts IG04MD/S





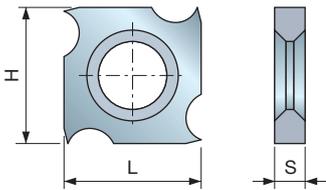
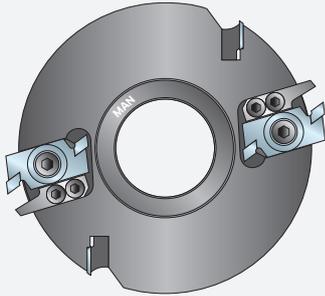
Deflectors suitable for standard **IG04M** grooving inserts as anti-kickback device.
 • Component for MAN feed tools.

ID04MD ID04MS

Deflectors for inserts IG04MD and IG04MS

L mm	H mm	S mm	Use for	Freud Code	Art. No.
24,5	30,8	6	IG04MDAA305	ID04MDAA901	F03FC24133
24,5	30,8	7	IG04MDAB305	ID04MDAB901	F03FC24134
24,5	30,8	6	IG04MDAC305	ID04MDAC901	F03FC24135
24,5	30,8	8	IG04MDAD305	ID04MDAD901	F03FC24136
24,5	30,8	6	IG04MSAA305	ID04MSAA901	F03FC24137
24,5	30,8	7	IG04MSAB305	ID04MSAB901	F03FC24138
24,5	30,8	6	IG04MSAC305	ID04MSAC901	F03FC24139
24,5	30,8	8	IG04MSAD305	ID04MSAD901	F03FC24140

Example of application of deflector ID04MD/S



CG03M

HW - Disposable four cutting edges knives

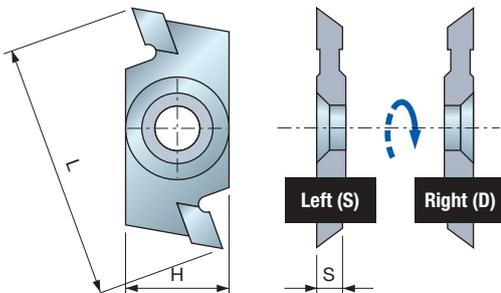


Softwood Hardwood

HW
K20S

Disposable knives in K20S Freud's Carbide with 4 cutting edges.
 • Indicated for softwood and hardwood.

L mm	H mm	S mm	Freud Code	Art. No.
18	18	1,9	CG03MAA310	F03FH02876
18	18	2,9	CG03MAB310	F03FH02877
18	18	4	CG03MAC310	F03FH02878
18	18	5,5	CG03MAD310	F03FH02879



HW
K30S

Spurs inserts made with K30S Freud's Carbide tips.
 • Available in left and right rotation version.
 • Indicated for natural softwood and hardwood.

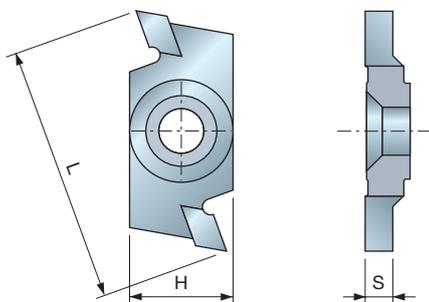
IG05MD IG05MS

HW - Spur inserts



Softwood Hardwood

L mm	H mm	S mm	Freud Code Right (D)	Art. No.	Freud Code Left (S)	Art. No.
40	16	4	IG05MDAA305	F03FH02998	IG05MSAA305	F03FH02999



HW
K30S

Grooving insert made with K30S Freud's Carbide tips and designed for beveled grooves.

- Available in left and right rotation version.
- Max groove depth 6,5 mm.
- Indicated for natural softwood and hardwood.

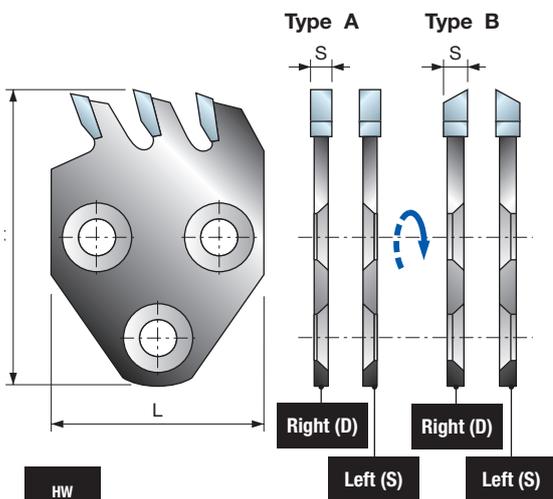
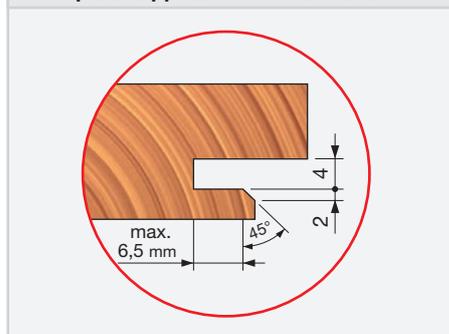
IG17MD HW - Insert for beveled grooves



Softwood Hardwood

L	H	S	Freud Code	Art. No.
mm	mm	mm		
40	16	3	IG17MDAA305	F03FC24162

Example of application of inserts IG17MD



HW
H00S

Grooving inserts made with H00S Freud's Carbide tips and 3 cutting edges.

- Max groove depth 25 mm.
- Available in left and right rotation version.
- Indicated for natural softwood and hardwood.

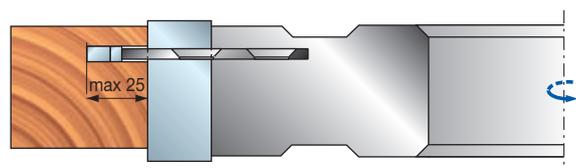
SR01MD SR01MS

HW - Grooving inserts

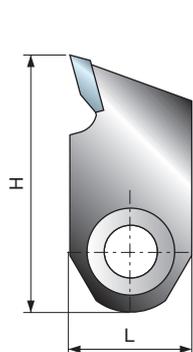


Softwood Hardwood

L	H	S	Type	Freud Code	Art. No.	Freud Code	Art. No.
mm	mm	mm					
				Right (D)		Left (S)	
40	58	2,6	A	SR01MDAE301	F03FC24185	SR01MSAE301	F03FC24189
40	58	3	A	SR01MDAB301	F03FC24182	SR01MSAB301	F03FC24187
40	58	4	A	SR01MDAC301	F03FC24183	SR01MSAC301	F03FC24188
40	58	5	A	SR01MDAA301	F03FC24181	SR01MSAA301	F03FC24186
40	58	6	B	SR01MDAD301	F03FC24184	SR01MSAF301	F03FC24190



Type A Type B



HW
H00S

Grooving and spurs inserts made with H00S Freud's Carbide tips.

- Max groove depth 17 mm.
- Available in left and right rotation version.
- Indicated for natural softwood and hardwood.

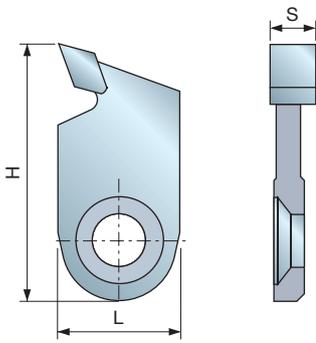
SR06MD

HW - Multipurpose inserts



Softwood Hardwood

L	H	S	Type	Freud Code	Art. No.
mm	mm	mm			
16	34	4	A	SR06MDAG302	F03FC24193
16	34	7	A	SR06MDAH302	F03FC24194
16	34	5	A	SR06MDAI302	F03FC24195
16	34	4	B	SR06MDAL302	F03FC24196



**HW
K30S**

Grooving inserts made with K30S Freud's Carbide tips.

- Max groove depth 17 mm.
- Indicated for natural softwood and hardwood.

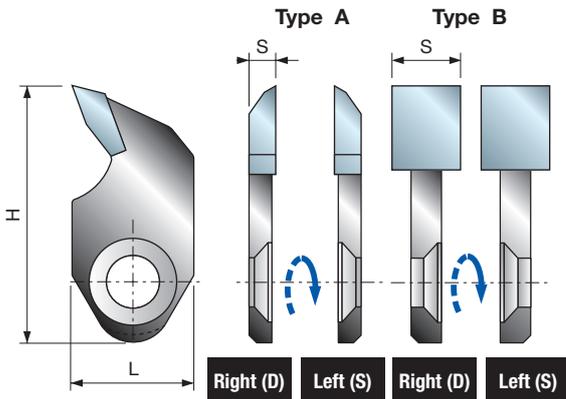
SR06M

HW - Grooving inserts



Softwood Hardwood

L mm	H mm	S mm	Freud Code	Art. No.
16	34	6	SR06MAB302	F03FC24191
16	34	6	SR06MAM301	F03FC24192



SR06MD SR06MS

HW - Multipurpose inserts



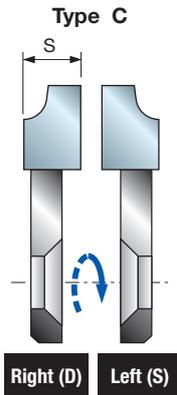
Softwood Hardwood

L mm	H mm	S mm	Type	Freud Code Right (D)	Art. No.	Freud Code Left (S)	Art. No.
16	34	3,5	A	SR06MDBA302	F03FC24197	SR06MSBA302	F03FC24200
16	34	9	B	SR06MDBB301	F03FC24198	SR06MSBB301	F03FC24201
16	34	9	C	SR06MDBG301	F03FC24391	SR06MSBG301	F03FC24392
16	34	11	B	SR06MDBC301	F03FC24199	SR06MSBC301	F03FC24202

**HW
H00S**

Grooving inserts made with H00S Freud's Carbide tips.

- Max groove depth 17 mm.
- Indicated for natural softwood and hardwood.



SR11MD SR11MS

HW - Grooving inserts



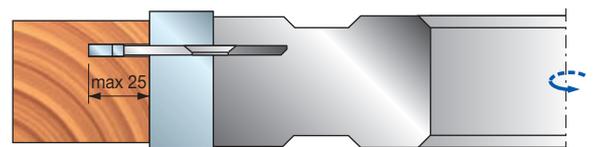
Softwood Hardwood

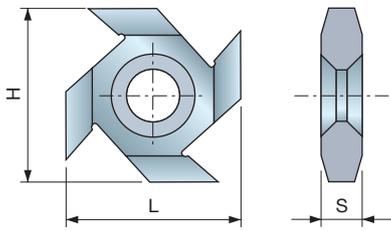
L mm	H mm	S mm	Freud Code Right (D)	Art. No.	Freud Code Left (S)	Art. No.
25	45	2	SR11MDBA301	F03FC24203	SR11MSBA301	F03FC24208
25	45	3	SR11MDBB301	F03FC24204	SR11MSBB301	F03FC24209
25	45	4	SR11MDBC301	F03FC24205	SR11MSBC301	F03FC24210
25	45	5	SR11MDBD301	F03FC24206	SR11MSBD301	F03FC24211
25	45	6	SR11MDBE301	F03FC24207	SR11MSBE301	F03FC24212

**HW
H00S**

Grooving inserts made with H00S Freud's Carbide tips and 3 cutting edges.

- Max groove depth 25 mm.
- With anti-kickback technology for MAN feed tools.
- Available in left and right rotation version.
- Indicated for natural softwood and hardwood.





HW
K20S

Anti-capillary inserts made by K20S Freud's Carbide with 4 cutting edges.
 • Suitable for natural softwood and hardwood.

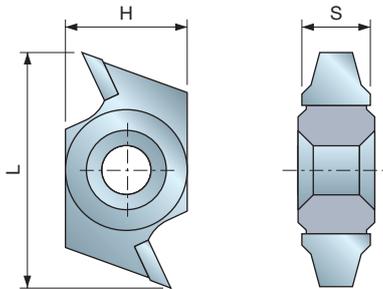
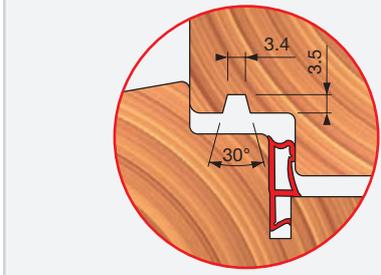
IG03M HW - Anti capillary groove inserts



Softwood Hardwood

L mm	H mm	S mm	Freud Code	Art. No.
23	23	5,4	IG03MAA305	F03FH02989

Example of application of inserts IG03M



HW
K20S

Anti-capillary inserts made by K20S Freud's Carbide with 2 cutting edges.
 • Suitable for natural softwood and hardwood.

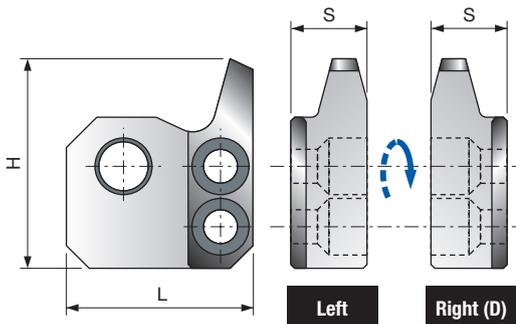
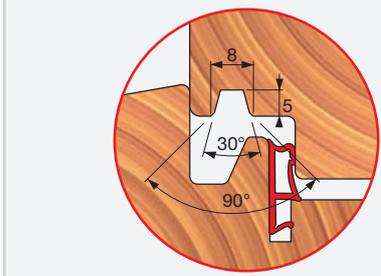
IG11M HW - Anti capillary groove inserts



Softwood Hardwood

L mm	H mm	S mm	Freud Code	Art. No.
33,2	16	10	IG11MAA301	F03FH03002

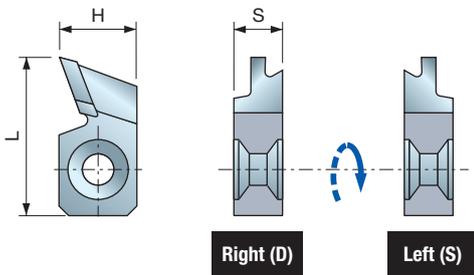
Example of application of inserts IG11M



ID11MD ID11MS Deflectors for inserts IG11M

L mm	H mm	S mm	Use for	Freud Code Right (D)	Art. No.	Freud Code Left (S)	Art. No.
25	45	6	IG11MAA301	ID11MDAA901	F03FC24145	ID11MSAA901	F03FC24146

Deflectors suitable for standard **IG11M** anti-capillary inserts as anti-kickback device.
 • Component for MAN feed tools.



IG10MD IG10MS

HW - Inserts for gasket seats



Softwood Hardwood

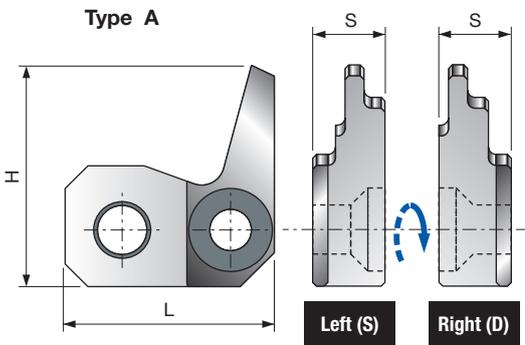
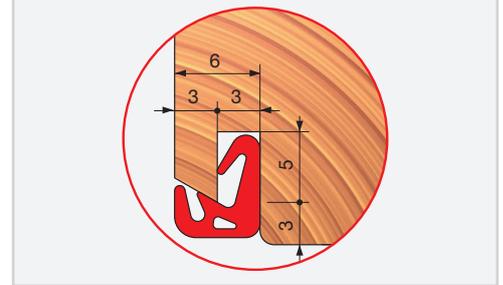
HW
K20S

Shaped inserts made by K20S Freud's Carbide for gasket seats, available in left and right rotation version.

- Suitable for natural softwood and hardwood.

L	H	S	Freud Code	Art. No.	Freud Code	Art. No.
mm	mm	mm	Right (D)		Left (S)	
32,7	16	10	IG10MDGA301	F03FH03000	IG10MSGGA301	F03FH03001

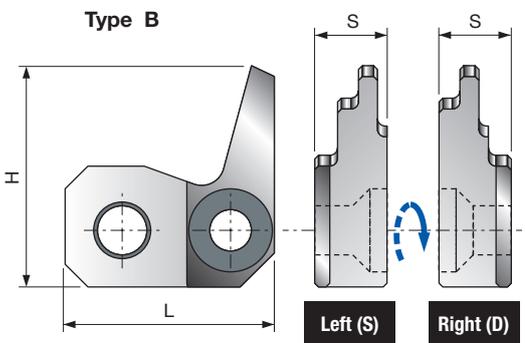
Example of application of inserts IG10MD/S



ID10MD ID10MS

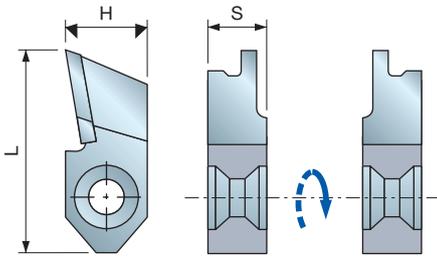
Deflectors for inserts IG10MD and IG10MS

L	H	S	Type	Use for	Freud Code	Art. No.	Freud Code	Art. No.
mm	mm	mm			Right (D)		Left (S)	
27,5	29,3	11	A	IG10MDGA301	ID10MDDGA901	F03FC24141	ID10MDSGA901	F03FC24142
27,5	29,3	11	B	IG10MSGGA301	ID10MSDGA901	F03FC24143	ID10MSSGA901	F03FC24144



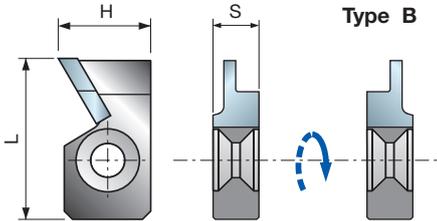
Deflectors suitable for standard **IG10M** sealing inserts as anti-kickback device.

- Component for MAN feed tools.



Right (D)

Left (S)



Type B

Right (D)

Left (S)

HW
K30S

Shaped inserts made by K30S Freud's Carbide for gasket seats.

- Available in left and right rotation version.
- Suitable for natural softwood and hardwood.

IG13MD IG13MS

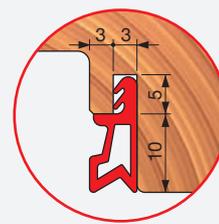
HW - Inserts for sealing strip seats



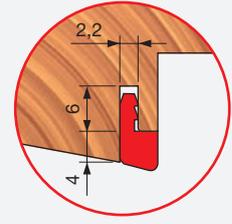
Softwood Hardwood

L mm	H mm	S mm	Type	Freud Code		Art. No.	
				Right (D)	Left (S)	Right (D)	Left (S)
41,5	16	11,5	A	IG13MDAA301	F03FH03003	IG13MSAA301	F03FH03004
30	16	8,5	B	IG13MDBA301	F03FC24159	IG13MSBA301	F03FC24160

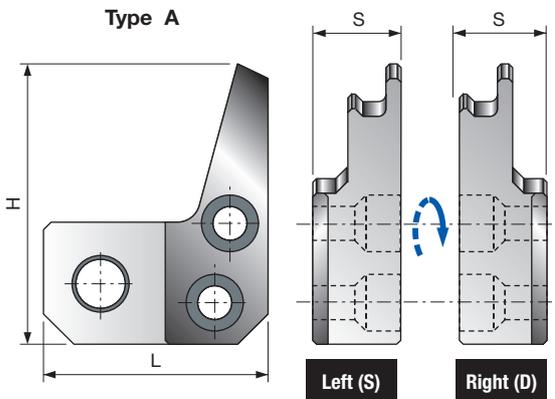
Examples of application of inserts IG13MD/S



AA3

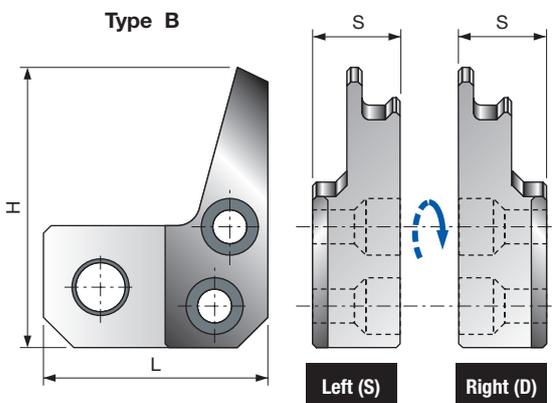


BA3



Left (S)

Right (D)



Left (S)

Right (D)

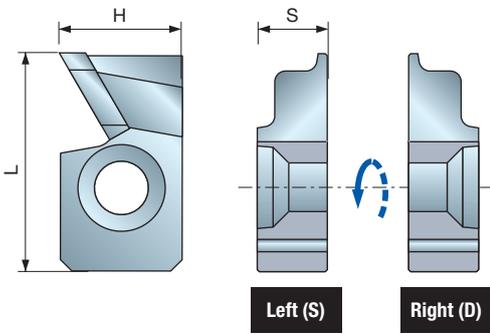
ID13MD ID13MS

Deflectors for inserts IG13MD and IG13MS

L mm	H mm	S mm	Type	Use for	Freud Code		Art. No.	
					Right (D)	Left (S)	Right (D)	Left (S)
29,9	37,1	12,5	A	IG13MDAA301	ID13MDDAA901	F03FC24147	ID13MDSAA901	F03FC24148
29,9	37,1	12,5	B	IG13MSAA301	ID13MSDAA901	F03FC24149	ID13MSSAA901	F03FC24150

Deflectors suitable for standard IG13M sealing inserts as anti-kickback device.

- Component for MAN feed tools.



**HW
K20S**

Shaped inserts made by K20S Freud's Carbide for frame rebates (Euronorm C13 Freud systems 78/80 mm).

- Available in left and right rotation version.
- Suitable for natural softwood and hardwood.

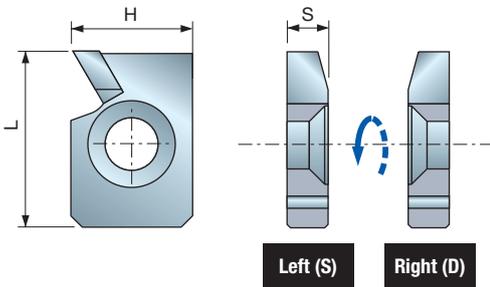
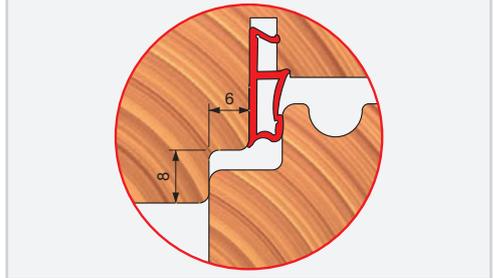
IG14MD IG14MS HW - Inserts for frame rebates



Softwood Hardwood

L mm	H mm	S mm	Freud Code Right (D)	Art. No.	Freud Code Left (S)	Art. No.
28,9	16	10	IG14MD AA3	F03FC15370	IG14MS AA3	F03FC15371

Example of application of inserts IG14MD/S



**HW
K20S**

Shaped inserts made by K20S Freud's Carbide for glass sealing, available in left and right rotation version.

- Suitable for natural softwood and hardwood.

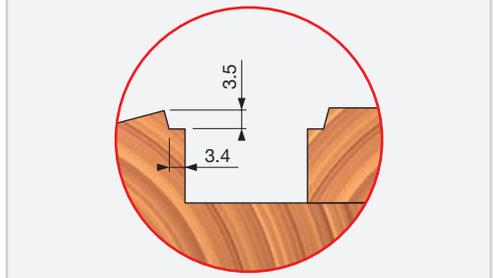
IG15MD IG15MS HW - Inserts for glass sealing

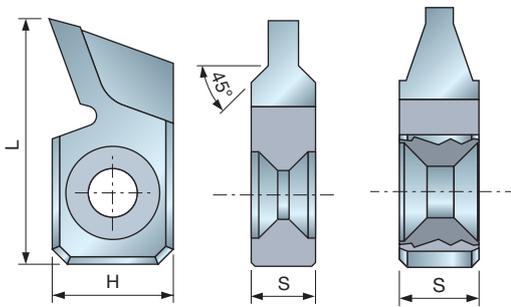


Softwood Hardwood

L mm	H mm	S mm	Freud Code Right (D)	Art. No.	Freud Code Left (S)	Art. No.
23,3	16	6	IG15MD AA3	F03FC15372	IG15MS AA3	F03FC15373

Example of application of inserts IG15MD/S





IG16MAA301
F03FC24161

IG16MAB301
F03FC24381

HW
K20S

Shaped inserts made by K20S Freud's Carbide for glass sealing.

- Suitable for natural softwood and hardwood.

IG16M

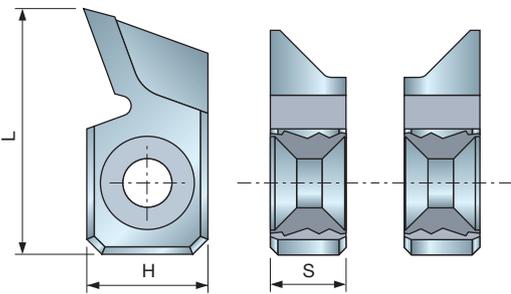
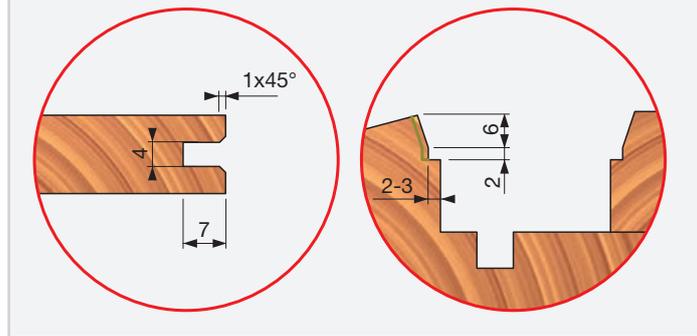
HW - Inserts for glass sealing



Softwood Hardwood

L	H	S	Freud Code	Art. No.
mm	mm	mm		
32,7	16	8,5	IG16MAA301	F03FC24161
32,7	16	10	IG16MAB301	F03FC24381

Examples of application of inserts IG16M



Right (D)

Left (S)

HW
K20S

Shaped inserts made by K20S Freud's Carbide for glass sealing.

- Suitable for natural softwood and hardwood.

IG16MD IG16MS

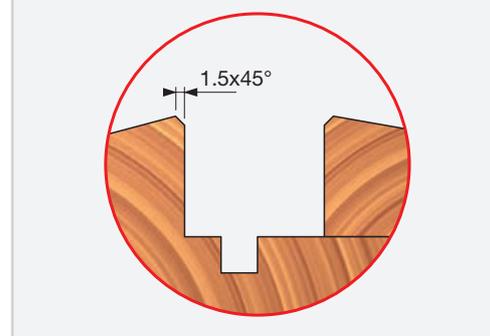
HW - Inserts for glass sealing



Softwood Hardwood

L	H	S	Freud Code	Art. No.	Freud Code	Art. No.
mm	mm	mm	Right (D)		Left (S)	
32,7	16	6	IG16MDAC301	F03FC24382	IG16MSAC301	F03FC24383

Examples of application of inserts IG16MD/S



TOOLS

Tools shall be used only by persons of training and experience who have knowledge of how to use and handle tools.

The maximum rotational speed marked on the tool shall not be exceeded.

One piece tools with visible cracks shall not be used.

Clamping surfaces shall be cleaned to remove dirt, grease, oil and water.

Resin shall only be removed from light alloys with solvents that do not affect the mechanical characteristics of these materials.

Tools and tool bodies shall be clamped in such a way, that they shall not loosen during operation.

Tools with cylindrical shank must be clamped in a way that the mark of the maximum free shank length shall be covered, at least partially, by the clamping device or by the locking collet.

Care shall be taken of mounting tools to ensure that the clamping is by the hub respectively by the clamping surface of the tool and that the cutting edges are not in contact with each other or with the clamping elements.

Fastening screws and nuts shall be tightened using the appropriate spanners etc. and to the torque value provided by the manufacturer.

Extension of the spanner or tightening using hammer blows shall not be permitted.

Clamping screws shall be tightened according to instructions provided by the manufacturer. Where instructions are not provided clamping screws shall be tightened in sequence from the centre outwards.

Use of fixed rings, e. g. pressed or held by adhesive fixing, in flanged sleeves, shall be permitted if made to the manufacturers specifications.

Repair and regrinding of tools shall only be allowed according to the tool manufacturer's instructions.

After repair and regrinding of tools it shall be ensured that the tools observe balancing requirements.

The design of composite (tipped) tools shall not be changed in the process of repair.

Composite tools shall be repaired by a competent person, i.e. a person of training and experience, who has knowledge of the design requirements and understands the level of safety to be achieved.

Repair shall therefore include, e.g. use of spare parts which are in accordance with the specification of the original parts provided by the manufacturer.

Tolerances which ensure correct clamping shall be maintained.

For one piece tools care shall be taken that regrinding of the cutting edge will not cause weakening of the hub and the connection of the cutting edge to the hub.

To avoid injuries, tools shall be handled in accordance with the guidance provided by the manufacturer. Typically, safe handling involves the use of devices such as carrying hooks, proprietary handles, frames (e. g. for circular saw blades), boxes, trolleys etc.

The wearing of protective gloves improves the grip on the tool and further reduces the risk of injury.

Maintenance and modification of milling tools and related components and circular saw blades should always be in accordance with the design requirements/the manufacturer's instructions.

Maintenance and modification of milling tools and circular saw blades should only be carried out by a competent person, i. e. a person of training and experience, who has knowledge of the design requirements and understand levels of safety to be achieved.

When regrinding milling tools and circular saw blades, the minimum requirements of cutting blade thickness and cutting blade projection should be observed.

Composite tools should be repaired by persons experienced in and with understanding of design and use of milling tools for processing wood and similar materials, e.g. an expert with a relevant education and knowledge of the brazing process, including in particular the influence of the brazing process on tension in tool body and cutting material. When brazing off worn tips and subsequently

brazing on new tips it should be made sure that the tip is correctly mounted in the tool body and that the process does not result in critical tension in the tool body.

After any type of maintenance, milling tools marked with MAN should continue to observe the requirements of the standards related to tools for hand feed.

When modifying milling tools, e. g. modification of bore diameter, modification of shank, retipping of composite tools and similar, it should be ensured that the requirements of the standard relating to balancing are still observed.

After being modified and/or retipped, milling tools and circular saw blades should be marked according to the rules applying to new tools. However, the name/logo of the company making the modification/retipping should be added.

To avoid injuries, tools shall be handled in accordance with the guidance provided by the manufacturer.

Tools which weigh more than 15 kg may require the use of special handling devices or attachments, these will depend on the features that the manufacturer has designed into the tool to allow easy handling. The manufacturer can advise on the availability of necessary devices.

CLAMPING DEVICES

The speeds indicated on the clamping device and the tool to be clamped should be compared. For adjusting the speed on the machine the lower speed should be applied.

Screws and nuts should be tightened using the appropriate spanners; Clamping surfaces should be cleaned to remove dirt, grease, oil and water.

Clamping devices and tools should be mounted or clamped according to given torques, pressures and wrenches to be used; extension of spanners or tightening or loosening by means of hammer blows should not be permitted.

Maximum tool diameters and tool lengths should not be exceeded; Shank diameters must be in accordance with the clamping range of the clamping devices.

The minimum required clamping length must be kept;

Care should be taken that the data relevant to the safety of the clamped tool are always stored in the data medium.

Repairs should only be carried out by a competent person, i.e. a person with professional training and experience, who has knowledge of the design, construction and safety requirements; Repair should therefore include the use of spare parts which are in compliance with the specifications of the original parts.

1



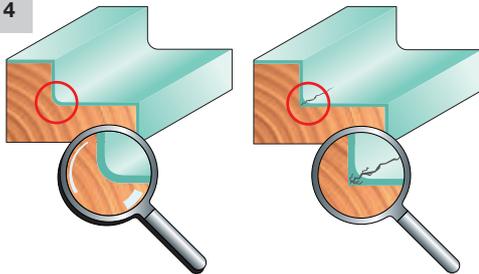
2



3



4



5



TECHNICAL FEATURES

Spurs are inserts laterally positioned on a cutterheads body. They give a better finish on the side rebates of a profile. For this aim, Freud uses a **triangular insert (RG02M - Fig. 1 and 2)**, constructed in Hard metal to obtain a longer duration of the cutting edge, mounted on cutterheads with disposable knives and Performance cutterheads. The 22 mm cutting edge allows the spur to work the rebate's whole depth, which generally and particularly in the case of windows, doesn't exceed 18 mm of depth. The triangular spur's particular conformation, allows a positioning on the tool so as to obtain a positive hook angle, which combined with the scale of work just described, guarantees an excellent finish on the work surface.

The front of the spur gives a uniform distribution of the shavings for a better finish. Competitors generally use a **square shaped spur** (dimensions: 14 x 14 x 2 mm), with naturally limited efficiency, caused by its geometry as well as by its reduced size. These characteristics and the negative hook angle conferred by the positioning of the spur on the tool, do not allow it to work the whole depth of the rebate.

The surface obtained, will therefore have a precarious finish with possible signs of marking. Freud occasionally uses this type of spur (**RG01M - Fig. 3**), for objective reasons such as insufficient space for the positioning of the spur.

Beveling and rounding inserts are used to eliminate hard edges from work pieces. Other than giving a better aesthetic finish, they also allow paint and varnish to be distributed in a more uniform way. Infact, paint and other coating substances, tend to accumulate and become clogged between the hard edges and once dry, tend to peel and lose their protective qualities, exposing the wood to all types of atmospheric conditions (Fig. 4).

TRIANGULAR ROUNDING SPUR (RG03M - Fig. 5): this spur carries out the same function as the triangular spur, but possesses a rounded side and carries out a rounding joint of the hard edge on the inside of the rebate. Suitable for carrying out casings or when the material has to be painted or varnished.

45° BEVELING INSERT (IG01M - Fig. 6): this insert in hard metal has, thanks to a particular geometry 8 cutting edges. Can be used reversibly and with a double rotation sense (right and left hand), it is particularly indicated for carrying out beveling with dimensions no greater than 3 mm at 45° and to be mounted on tools with a reduced body thickness, where it is not possible to carry out seats for the housing of inserts.

ROUNDING INSERT (IG02M - Fig. 7): is constructed with the same technology as the beveling insert (**IG01M**), therefore with 8 cutting edges with a double rotation sense (right and left hand), but also rounds hard edges.

6



7



8



IG21MD

IG22MD

TECHNICAL FEATURES

BEVELING INSERT WITH SHEAR ANGLE (IG21MD/S - Fig. 8): insert produced in hard metal with 2 cutting edges, constructed with a shear angle, obtained directly from the sintering process. This type of insert guarantees a better finish of the hard edge long grain but most of all cross grain, where working is more difficult.

ROUNDING INSERT WITH SHEAR ANGLE (IG22MD/S - Fig. 8): insert produced with the same technology, both in its construction as well as in its geometry, as beveling inserts (IG21MD/S). In more can carry out the rounding of hard edges. Beveling can be carried out by tilting the workpiece a maximum of 15° (corresponding to the grade of the exit angle of the insert); beyond this limit, the workpiece would become marked by the very same insert. The IG21MD/S beveling inserts and IG22MD/S rounding inserts have the advantage of being perfectly interchangeable between themselves.

45° BEVELING INSERT WITH SHEAR ANGLE (IG51M - Fig. 9 AND 10): insert produced in hard metal, in which characteristics have been improved from the previous inserts. Has 4 cutting edges whose geometrical configuration permits both right and left hand rotation. The shear angle consents a better finish in the various woodworking conditions, for both long grain and cross grain. The reduced dimensions with respect to the previous inserts allow the insert to be positioned more easily and efficiently.

ROUNDING INSERT WITH SHEAR ANGLE (IG52M - Fig. 9 and 10): produced with the same technology, both in its construction as well as in its geometry as the IG51M beveling

inserts, with the only variant of carrying out the rounding of the hard edges. Even these inserts are interchangeable with the IG52M beveling inserts, always keeping in consideration the operational combinations already valued for articles IG21MD/S and IG22MD/S (see example Fig. 6).

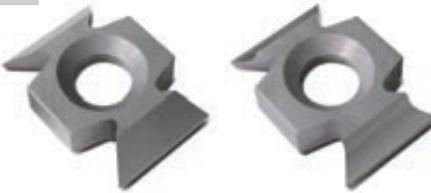
MULTIPURPOSE INSERT (IG25M - Fig. 11): produced in hard metal, carries out both the function of a rounding insert and rounding spur, obtaining both operational as well as economical advantages. With this spur and with a single pass, you obtain the finished rebate with the desired depth and the rounding of the hard edges internally as well as externally. These inserts are available with various rebate depths to satisfy all the working processess. Furthermore, being interchangeable between themselves it is possible to carry out rebates with various depths, using the same tool.

GROOVING INSERT (IG04MD/S - Fig. 12): produced in hard metal and particularly usefull for carrying out seats and canals for the application of rubber seals and aluminium profiles. The maximum groove depth obtainable is 11 mm. In certain situations it is possible to obtain a greater depth, but limited to only one side of the groove and only if the cutterhead has spurs that intervene on the part exceeding 11 mm, so as to insure a good finish on the work surface.

9



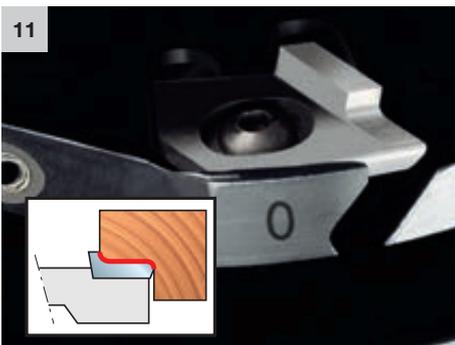
10



IG51MD

IG52MD

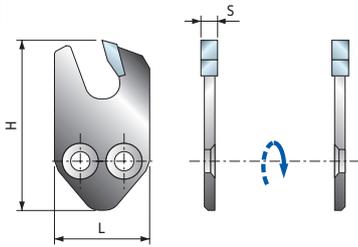
11



12



13



TECHNICAL FEATURES

GROOVING INSERTS (SR11MD/S - Fig. 13): are used for carrying out grooves with a depth of up to 25 mm. These grooving inserts are produced and cut with the same laser technology as that used for the circular saw blades.

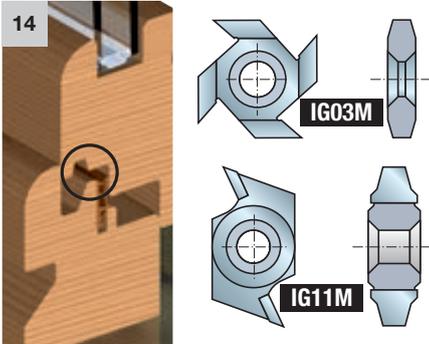
ANTI CAPILLARY GROOVE INSERTS (IG03M, IG11M - Fig. 14): produced integrally in hard metal for carrying out grooves for various applications. They possess technical characteristics and different dimensions to satisfy specific necessities for various sectors.

INSERTS FOR SEALING STRIP SEATS (IG10MD/S - IG13MD/S - Fig. 15): these articles are constructed in hard metal, used in the window production sector for carrying out grooves to house certain thermic and acoustic rubber seals (Fig. 16).

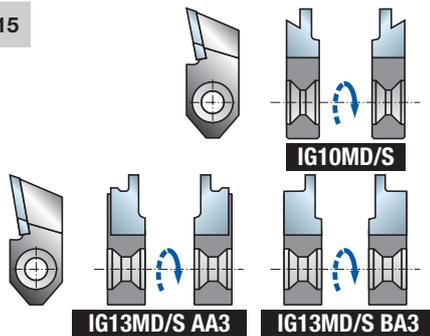
INSERTS ACCORDING TO THE NORM UNI EN 847-1 (IG61MD/S, IG62MD/S - Fig. 17 AN 18): the new European Norm UNI EN 847-1 states, that tools destined to be used with manual feed must adopt specific designs, to reduce to the minimum, dangers that may occur to the user. In particular, tools with a non circular form, deflectors must not exceed 1,1 mm in size with respect to the protrusion of the cutting edge. To conform to these new regulations we have produced new beveling inserts (**IG61MD/S**) and new rounding inserts (**IG62MD/S**) which act as deflectors to reduce anti-kickback as imposed by the current norms. Produced in hard metal with a constructive geometry that consents interchangeability between beveling and rounding inserts, using the very same tool's positioning seats. The maximum bevel obtainable is 3 mm x 45°.

SUPPORTS WITH DEFLECTORS (ID04MD/S - Fig. 19 AND 20): to adapt the other more common inserts to the new European Norm and render them ideal for working with manual feed, they have been adapted with deflectors which reduce the possibility of anti-kickback. The insert is housed on the very same deflector, made in various versions, so as to combine different inserts which trace the profile. The chosen solution is surely more advantageous for the client, who will be able to use the very same standard insert with both manual and mechanical feed, without having to acquire a double set of spares. The supports with deflector have been studied to be compatible with the following inserts: **IG04MD/S, IG10MD/S, IG11M, IG13MD/S.**

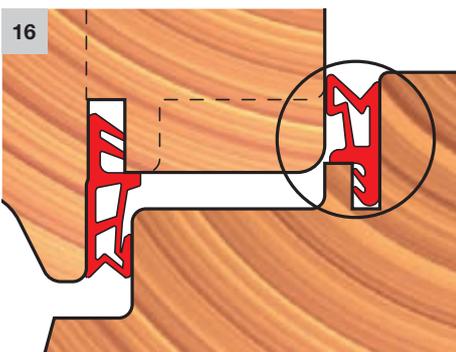
14



15



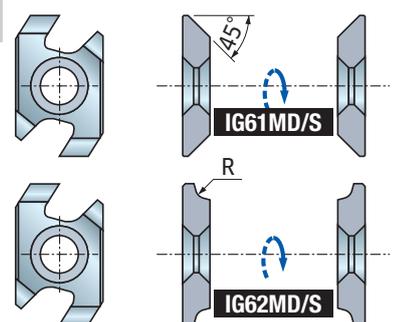
16



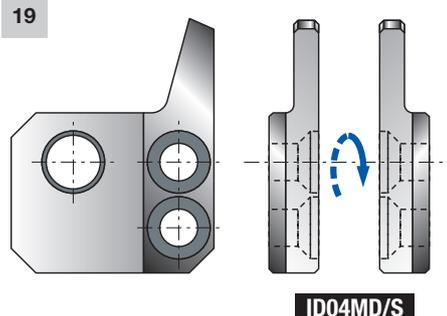
17



18



19



20

