

REVERSIBLE KNIVES
Grades and application chart

Grades	Code USA	Code ISO	Cobalt	Density	Hardness	Softwood	Hardwood	Chipboard	MDF
Fine grain			%	gr/cm ³	HV10				
HC05 (HL05)	C3	K10	4	15.15	1760	X	X	XX	X
HC20 (HL15)	C2	K20	6	14.95	1640	XX	XX	X	-
HC27 (HL30)	C1	K30	7,5	14.70	1470	XX	XX	X	-
HC35 (HL40)	C1	K30	9	14.60	1400	XX	X	-	-

Micro grain

MG06 (DO50)	C4	K01	3.3	15.20	2020	-	-	X	XX
MG18 (HL20F)	C2	K20	10	14.50	1680	X	XX	-	-

Ultra fine grain

SMG02	-	-	2,5	15.25	2350	-	-	X	XX
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Nano grain

UMG04	-	-	2	15.30	2550	-	-	-	XX
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Micro grain

KCR08	-	-	3,2	15.20	1920	XX	XX	XX	XX
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HC05 - HC20 - HC27 - HC35

This is the most widely used grade for indexable knives and profile blanks. Good performance on the whole range of materials used today in the woodworking industry. This grade sets the standard for performance and price

MG06

This micrograin carbide is harder than HC05 and can increase tool life by 50% when used on MDF.

MG18

By virtue of its micrograin structure MG18 is the optimum grade for 45° cutting edges. It creates a sharp, tough and wear resistant edge. This makes it ideal for machining hardwoods and brings the benefit of increased tool life.

SMG02

This is an even harder micrograin grade giving an increase of 100% in tool life compared with MG06. It allows longer production running on MDF.

UMG04

Tests have shown tool life increased by 3 times compared to SMG02 or 9 times the life of standard grades. For cutting very hard materials this is an economical alternative to DP tools with far less financial risk should breakage occur.

KCR08

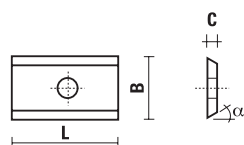
Covers 99% of all applications (soft and hard wood, melamine, HDF, MDF). More precise cutting edge execution due to submicrograin grade. High corrosion resistance due to special power mix.

Grain size definition	Average grain size range
Nano grain	< 0,2 µm
Ultrafine grain	0,2 < 0,5 µm
Micrograin	0,5 < 0,8 µm
Fine grain	0,8 < 1,3 µm
Medium grain	1,3 < 2,5 µm
Coarse grain	2,5 < 6,0 µm



HW STANDARD REVERSIBLE KNIVES

ART. Z055 - Z155 - Z255 - Z355 - Z455 - Z555



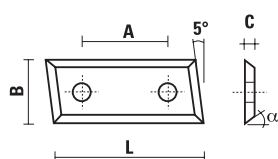
10 pcs. set

- 2 cutting edges
- 1 fixing hole

Item	Grade	L	B	C	α
Z055.000.N	HC05	7,5	12	1,5	35°
Z055.012.N	HC05	9,6	12	1,5	35°
Z055.013.N	HC05	10,5	12	1,5	35°
Z055.002.N	HC05	15	12	1,5	35°
Z055.003.N	HC05	20	12	1,5	35°
Z055.014.N	HC05	25	12	1,5	35°
Z055.900.N	HC05	7,5	9	1,5	35°
Z055.901.N	HC05	12	9	1,5	35°
Z055.903.N	HC05	20	9	1,5	35°
Z155.000.N	MG06	7,5	12	1,5	35°
Z155.003.N	MG06	20	12	1,5	35°
Z255.003.N	SMG02	20	12	1,5	35°
Z355.003.N	UMG04	20	12	1,5	35°
Z455.000.N	MG18	7,5	12	1,5	45°
Z455.012.N	MG18	9,6	12	1,5	45°
Z455.002.N	MG18	15	12	1,5	45°
Z455.003.N	MG18	20	12	1,5	45°
Z555.000.N	KCR08	7,5	12	1,5	35°
Z555.012.N	KCR08	9,6	12	1,5	35°
Z555.002.N	KCR08	15	12	1,5	35°
Z555.003.N	KCR08	20	12	1,5	35°
Z555.014.N	KCR08	25	12	1,5	35°

HW STANDARD REVERSIBLE KNIVES

ART. Z055 - Z355



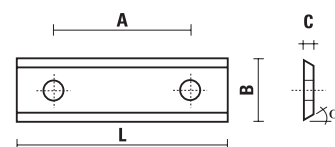
10 pcs. set

- 4 cutting edges
- 2 fixing holes
- 5° right

Item	Grade	L	B	C	α	A
Z055.423.N	HC05	30	9	1,5	35°	14
Z055.424.N	HC05	40	9	1,5	35°	26
Z055.425.N	HC05	50	9	1,5	35°	26
Z055.430.N	HC05	30	12	1,5	35°	14
Z055.440.N	HC05	40	12	1,5	35°	26
Z055.450.N	HC05	50	12	1,5	35°	26
Z355.450.N	UMG04	50	12	1,5	35°	26

HW STANDARD REVERSIBLE KNIVES

ART. Z055 - Z155 - Z255 - Z355 - Z455 - Z555



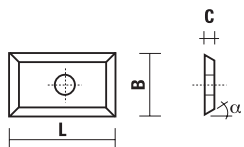
10 pcs. set

- 2 cutting edges
- 2 fixing holes

Item	Grade	L	B	C	α	A
Z055.015.N	HC05	25	12	1,5	35°	14
Z055.008.N	HC05	30	12	1,5	35°	14
Z055.009.N	HC05	40	12	1,5	35°	26
Z055.010.N	HC05	50	12	1,5	35°	26
Z055.011.N	HC05	60	12	1,5	35°	26
Z055.070.N	HC27	80	13	2,2	35°	60
Z055.071.N	HC27	100	13	2,2	35°	60
Z055.072.N	HC27	120	13	2,2	35°	60
Z055.073.N	HC27	130	13	2,2	35°	60
Z055.908.N	HC05	30	9	1,5	35°	14
Z055.909.N	HC05	40	9	1,5	35°	26
Z055.910.N	HC05	50	9	1,5	35°	26
Z155.008.N	MG06	30	12	1,5	35°	14
Z155.009.N	MG06	40	12	1,5	35°	26
Z155.010.N	MG06	50	12	1,5	35°	26
Z155.011.N	MG06	60	12	1,5	35°	26
Z255.008.N	SMG02	30	12	1,5	35°	14
Z255.009.N	SMG02	40	12	1,5	35°	26
Z255.010.N	SMG02	50	12	1,5	35°	26
Z255.011.N	SMG02	60	12	1,5	35°	26
Z355.008.N	UMG04	30	12	1,5	35°	14
Z355.010.N	UMG04	50	12	1,5	35°	26
Z455.008.N	MG18	30	12	1,5	45°	14
Z455.009.N	MG18	40	12	1,5	45°	26
Z455.010.N	MG18	50	12	1,5	45°	26
Z455.011.N	MG18	60	12	1,5	45°	26
Z455.980.N	MG18	80	13	2,2	45°	60
Z555.015.N	KCR08	25	12	1,5	35°	14
Z555.008.N	KCR08	30	12	1,5	35°	14
Z555.009.N	KCR08	40	12	1,5	35°	26
Z555.010.N	KCR08	50	12	1,5	35°	26
Z555.011.N	KCR08	60	12	1,5	35°	26
Z555.070.N	KCR08	80	13	2,2	35°	60
Z555.071.N	KCR08	100	13	2,2	35°	60
Z555.072.N	KCR08	120	13	2,2	35°	60

HW STANDARD REVERSIBLE KNIVES

ART. Z055



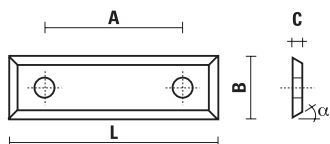
10 pcs. set

- 4 cutting edges
- 1 fixing hole

Item	Grade	L	B	C	α
Z055.319.N	HC05	19,5	12	1,5	35°
Z055.320.N	HC05	19,5	9	1,5	35°

HW STANDARD REVERSIBLE KNIVES

ART. Z055 - Z255 - Z355 - Z555



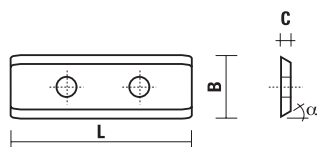
10 pcs. set

- 4 cutting edges
- 2 fixing holes

Item	Grade	L	B	C	α	A
Z055.110.N NEW	HC05	30	12	1,5	35°	14
Z055.329.N	HC05	29,5	12	1,5	35°	14
Z055.340.N	HC05	39,5	12	1,5	35°	26
Z055.349.N	HC05	49,5	12	1,5	35°	26
Z055.330.N	HC05	29,5	9	1,5	35°	14
Z055.341.N	HC05	39,5	9	1,5	35°	26
Z055.350.N	HC05	49,5	9	1,5	35°	26
Z255.329.N	SMG02	29,5	12	1,5	35°	14
Z255.340.N	SMG02	39,5	12	1,5	35°	26
Z255.349.N	SMG02	49,5	12	1,5	35°	26
Z355.349.N	UMG04	49,5	12	1,5	35°	26
Z555.329.N	KCR08	29,5	12	1,5	35°	14
Z555.340.N	KCR08	39,5	12	1,5	35°	26
Z555.350.N	KCR08	49,5	12	1,5	35°	26

HW SPECIAL KNIVES

ART. Z055



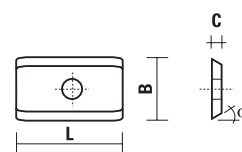
10 pcs. set

- 2 cutting edges
- 2 fixing holes

Item	Grade	L	B	C	α
Z055.033.N	HC05	30	12	1,5	35°
Z055.035.N	HC05	50	12	1,5	35°

HW SPECIAL KNIVES

ART. Z055



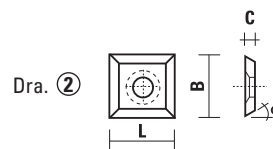
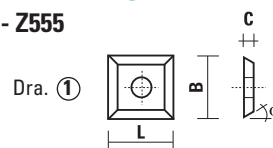
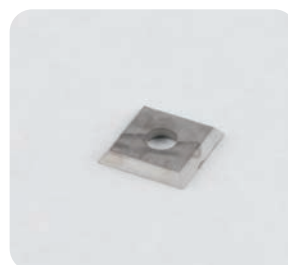
10 pcs. set

- 2 cutting edges
- 1 fixing hole

Item	Grade	L	B	C	α
Z055.032.N	HC05	20	12	1,5	35°

HW STANDARD REVERSIBLE KNIVES

ART. Z055 - Z155 - Z255 - Z455 - Z555



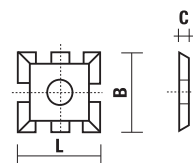
- 4 cutting edges
- 1 fixing hole

10 pcs. set

Item	Grade	Drawing	L	B	C	α
Z055.016.N	HC05	1	10,5	10,5	1,5	35°
Z055.001.N	HC05	1	12	12	1,5	35°
Z055.006.N	HC35	2	14	14	1,2	30°
Z055.007.N	HC35	2	14	14	2	30°
Z055.107.N NEW	HC35	2 R=2	14	14	2	30°
Z155.001.N	MG06	1	12	12	1,5	35°
Z155.007.N	MG06	2	14	14	2	30°
Z255.001.N	SMG02	1	12	12	1,5	35°
Z255.007.N	SMG02	2	14	14	2	30°
Z455.001.N	MG18	1	12	12	1,5	45°
Z455.007.N	MG18	2	14	14	2	45°
Z555.001.N	KCR08	1	12	12	1,5	35°
Z555.007.N	KCR08	2	14	14	2	30°

HW STANDARD REVERSIBLE KNIVES

ART. Z055



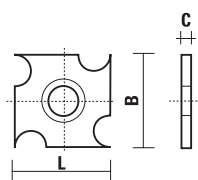
10 pcs. set

- 4 cutting edges
- 1 fixing hole

Item	Grade	L	B	C
Z055.019.N	HC27	15	15	2

HW STANDARD REVERSIBLE KNIVES

ART. Z055



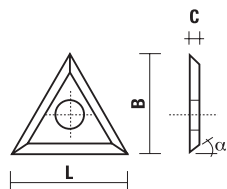
10 pcs. set

4 cutting edges

Item	Grade	L	B	C
Z055.020.N	HC20	18	18	1,95
Z055.021.N	HC20	18	18	2,45
Z055.022.N	HC20	18	18	2,95

HW STANDARD REVERSIBLE KNIVES

ART. Z455



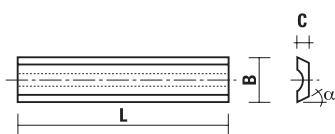
10 pcs. set

3 cutting edges

Item	Grade	L	B	C	α
Z455.030.N	MG18	22	19	2	30°

HW REVERSIBLE KNIVES "MINI"

ART. Z055



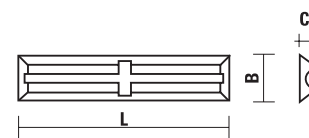
10 pcs. set

- 2 cutting edges
- Front groove

Item	Grade	L	B	C	α
Z055.080.N	HC05	12	5,5	1,1	35°
Z055.081.N	HC05	20	5,5	1,1	35°
Z055.082.N	HC05	30	5,5	1,1	35°
Z055.083.N	HC05	40	5,5	1,1	35°
Z055.084.N	HC05	50	5,5	1,1	35°

HW REVERSIBLE KNIVES "MINI"

ART. Z055



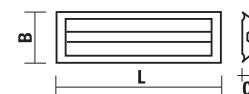
10 pcs. set

- 4 cutting edges
- Back groove with safety notch

Item	Grade	L	B	C	α
Z055.085.N	HC05	20	4,1	1,1	35°
Z055.086.N	HC05	20	5,5	1,1	35°
Z055.087.N	HC05	25	5,5	1,1	35°
Z055.088.N	HC05	30	5,5	1,1	35°
Z055.089.N	HC05	50	5,5	1,1	35°

HW "VERSOFIX" KNIVES

ART. Z055



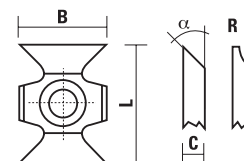
10 pcs. set

- With "Kawedur" coating
- 4 cutting edges
- Spare parts for W120÷W127 and W138

Item	L	B	C
Z055.220.N	20	5,5	1,1
Z055.221.N	20	10	1,5
Z055.230.N	30	6,5	1,1
Z055.231.N	30	10	1,5
Z055.250.N	50	10	1,5

HW EDGE ROUNDING KNIVES

ART. Z060



10 pcs. set

Item	Grade	L	B	C	α/R
Z060.000.N	HC20	22	16	5	45°
Z060.015.N	HC20	22	16	5	R=1,5
Z060.020.N	HC20	22	16	5	R=2
Z060.030.N	HC20	22	16	5	R=3
Z060.050.N	HC20	22	16	5	R=5

KleinDIA

A surface treatment developed for large-scale production

KleinDIA is a DLC (**Diamond-like Carbon**) anti-friction coating which allows to solve problems of tool abrasion, chip evacuation and chemical attack.

A layer of approx. 1 micron is laid on the tool surface at low temperature, thus not altering the properties of the router bit or knife.

Its high hardness is granted by both Sp2 (**Graphite**) and Sp3 (**Diamond**) carbon hybridisation.

Our several tests confirmed remarkable results on both panel working and solid wood processing.

Working plastic and aluminium without coolant is also possible thanks to a very low friction coefficient.

TECHNICAL FEATURES:

- **High hardness** Hv0,025: 2500-3100
- **Higher wear resistance** (longer working time)
- **Low frictional coefficient** (lowered working temperature)
- **Very low sticking coefficient** (Better chips evacuation)
- **Thickness:** approx. 1 micron
- **Colour:** bright black



KleinDIA is the most advantageous coating, ensuring:

- **Production increase**
- **Better finishing**
- **Less maintenance**

The surface coating **KleinDIA** can be applied on many other products giving extraordinary results depending on the type of material processed. Excellent results can be achieved processing solid wood, plywood, Plexiglas, plastic and graphitic materials.

HERE ARE SOME OF THE ITEMS WHICH ARE SUITABLE TO BE COATED WITH **KleinDIA**:

Solid carbide straight router bits
ART. A101/2/3 - C101/2/3 - C190 - D101/2



Page 1.07, 1.23, 2.05

Solid carbide spiral router bits
ART. T141/2/3 - T151/2/3 - T157/8/9



Page from 7.46 to 7.52, 7.54

Solid carbide dowel drills
ART. L116 - L117



Page 5.11

Solid carbide through-hole boring bits
ART. L134 - L135



Pag. 5.17

HW reversible knives
ART. ZB



Pag. 11.10

HS planer knives
ART. ZC 30 - ZC 35

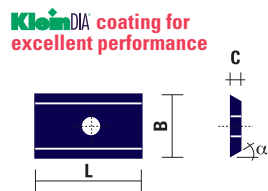
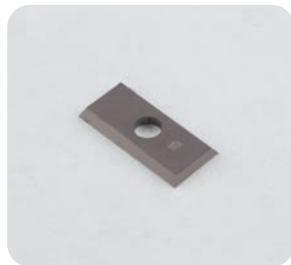


Pag. 11.11, 11.12, 11.13



HW STANDARD REVERSIBLE KNIVES

ART. Z055.KD



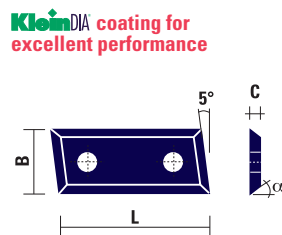
10 pcs. set

- 2 cutting edges
- 1 fixing hole

Item	Grade	L	B	C	α
Z055.000.NKD	HC05	7,5	12	1,5	35°
Z055.012.NKD	HC05	9,6	12	1,5	35°
Z055.013.NKD	HC05	10,5	12	1,5	35°
Z055.002.NKD	HC05	15	12	1,5	35°
Z055.003.NKD	HC05	20	12	1,5	35°
Z055.014.NKD	HC05	25	12	1,5	35°
Z055.900.NKD	HC05	7,5	9	1,5	35°
Z055.901.NKD	HC05	12	9	1,5	35°
Z055.903.NKD	HC05	20	9	1,5	35°

HW STANDARD REVERSIBLE KNIVES

ART. Z055.KD



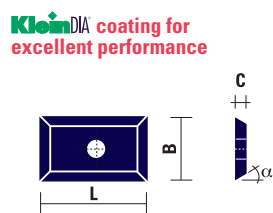
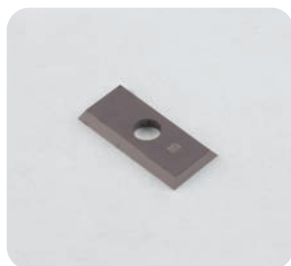
10 pcs. set

- 4 cutting edges
- 2 fixing holes
- 5° right

Item	Grade	L	B	C	α
Z055.423.NKD	HC05	30	9	1,5	35°
Z055.424.NKD	HC05	40	9	1,5	35°
Z055.425.NKD	HC05	50	9	1,5	35°
Z055.430.NKD	HC05	30	12	1,5	35°
Z055.440.NKD	HC05	40	12	1,5	35°
Z055.450.NKD	HC05	50	12	1,5	35°

HW STANDARD REVERSIBLE KNIVES

ART. Z055.KD



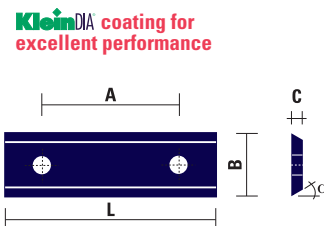
10 pcs. set

- 4 cutting edges
- 1 fixing hole

Item	Grade	L	B	C	α
Z055.319.NKD	HC05	19,5	12	1,5	35°
Z055.320.NKD	HC05	19,5	9	1,5	35°

HW STANDARD REVERSIBLE KNIVES

ART. Z055.KD



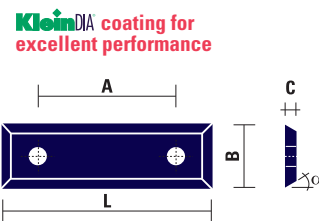
10 pcs. set

- 2 cutting edges
- 2 fixing holes

Item	Grade	L	B	C	α	A
Z055.015.NKD	HC05	25	12	1,5	35°	14
Z055.008.NKD	HC05	30	12	1,5	35°	14
Z055.009.NKD	HC05	40	12	1,5	35°	26
Z055.010.NKD	HC05	50	12	1,5	35°	26
Z055.011.NKD	HC05	60	12	1,5	35°	26
Z055.908.NKD	HC05	30	9	1,5	35°	14
Z055.909.NKD	HC05	40	9	1,5	35°	26
Z055.910.NKD	HC05	50	9	1,5	35°	26

HW STANDARD REVERSIBLE KNIVES

ART. Z055.KD



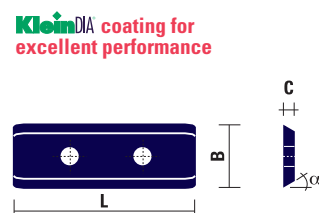
10 pcs. set

- 4 cutting edges
- 2 fixing holes

Item	Grade	L	B	C	α	A
Z055.329.NKD	HC05	29,5	12	1,5	35°	14
Z055.340.NKD	HC05	39,5	12	1,5	35°	26
Z055.349.NKD	HC05	49,5	12	1,5	35°	26
Z055.330.NKD	HC05	29,5	9	1,5	35°	14
Z055.341.NKD	HC05	39,5	9	1,5	35°	26
Z055.350.NKD	HC05	49,5	9	1,5	35°	26

HW SPECIAL KNIVES

ART. Z055.KD



10 pcs. set

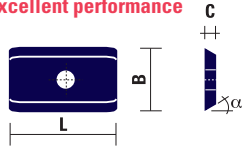
- 2 cutting edges
- 2 fixing holes

Item	Grade	L	B	C	α
Z055.033.NKD	HC05	30	12	1,5	35°
Z055.035.NKD	HC05	50	12	1,5	35°

HW SPECIAL KNIVES

ART. Z055.KD

Klein^{DIA} coating for excellent performance



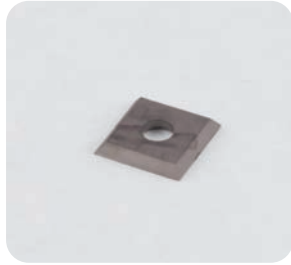
- 2 cutting edges
- 1 fixing hole

10 pcs. set

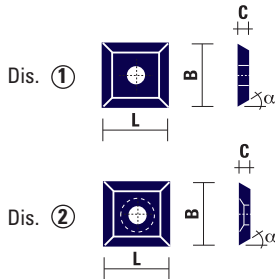
Item	Grade	L	B	C	α
Z055.032.NKD	HC05	20	12	1,5	35°

HW STANDARD REVERSIBLE KNIVES

ART. Z055.KD



Klein^{DIA} coating for excellent performance



- 4 cutting edges
- 1 fixing hole

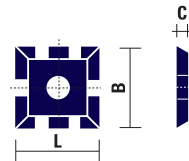
10 pcs. set

Item	Grade	Drawing	L	B	C	α
Z055.016.NKD	HC05	1	10,5	10,5	1,5	35°
Z055.001.NKD	HC05	1	12	12	1,5	35°
Z055.006.NKD	HC35	2	14	14	1,2	30°
Z055.007.NKD	HC35	2	14	14	2	30°

HW STANDARD REVERSIBLE KNIVES

ART. Z055.KD

Klein^{DIA} coating for excellent performance



- 4 cutting edges
- 1 fixing hole

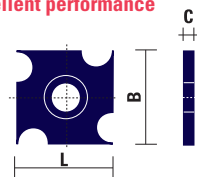
10 pcs. set

Item	Grade	L	B	C
Z055.019.NKD	HC27	15	15	2

HW STANDARD REVERSIBLE KNIVES

ART. Z055.KD

Klein^{DIA} coating for excellent performance



4 cutting edges

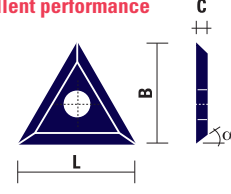
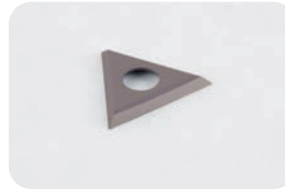
10 pcs. set

Item	Grade	L	B	C
Z055.020.NKD	HC20	18	18	1,95
Z055.021.NKD	HC20	18	18	2,45
Z055.022.NKD	HC20	18	18	2,95

HW STANDARD REVERSIBLE KNIVES

ART. Z455.KD

Klein^{DIA} coating for excellent performance



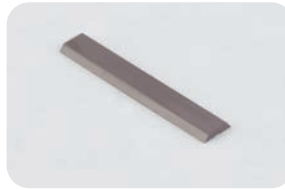
3 cutting edges

10 pcs. set

Item	Grade	L	B	C	α
Z455.030.NKD	MG18	22	19	2	30°

HW REVERSIBLE KNIVES "MINI"

ART. Z055.KD



Klein^{DIA} coating for excellent performance



- 2 cutting edges
- Front groove

10 pcs. set

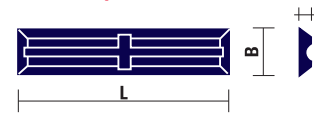
Item	Grade	L	B	C	α
Z055.080.NKD	HC05	12	5,5	1,1	35°
Z055.081.NKD	HC05	20	5,5	1,1	35°
Z055.082.NKD	HC05	30	5,5	1,1	35°
Z055.083.NKD	HC05	40	5,5	1,1	35°
Z055.084.NKD	HC05	50	5,5	1,1	35°

HW REVERSIBLE KNIVES "MINI"

ART. Z055.KD



Klein^{DIA} coating for excellent performance



- 4 cutting edges
- Back groove with safety notch

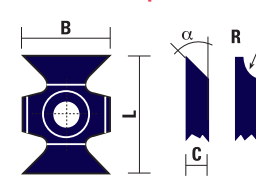
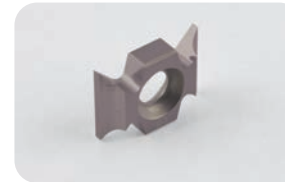
10 pcs. set

Item	Grade	L	B	C	α
Z055.085.NKD	HC05	20	4,1	1,1	35°
Z055.086.NKD	HC05	20	5,5	1,1	35°
Z055.087.NKD	HC05	25	5,5	1,1	35°
Z055.088.NKD	HC05	30	5,5	1,1	35°
Z055.089.NKD	HC05	50	5,5	1,1	35°

HW EDGE ROUNDING KNIVES

ART. Z060.KD

Klein^{DIA} coating for excellent performance

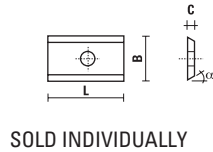


10 pcs. set

Item	Grade	L	B	C	α/R
Z060.000.NKD	HC20	22	16	5	45°
Z060.015.NKD	HC20	22	16	5	R=1,5
Z060.020.NKD	HC20	22	16	5	R=2
Z060.030.NKD	HC20	22	16	5	R=3
Z060.050.NKD	HC20	22	16	5	R=5

DP STANDARD REVERSIBLE KNIVES

ART. XZ055

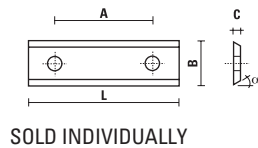


- These knives replace perfectly the HW standard knives
- **2 cutting edges**
- Lifetime up to 35/50 times longer compared to the HC05 (HW) knives
- 1 fixing hole
- Regrindable knives
- **CAUTION:** when sharpening a multicutter bit make sure that all the knives are mounted at the same height

Item	L	B	C	α
XZ055.000.N NEW	7,5	12	1,5	35°
XZ055.012.N NEW	9,6	12	1,5	35°
XZ055.002.N NEW	15	12	1,5	35°
XZ055.003.N NEW	20	12	1,5	35°
XZ055.014.N NEW	25	12	1,5	35°

DP STANDARD REVERSIBLE KNIVES

ART. XZ055

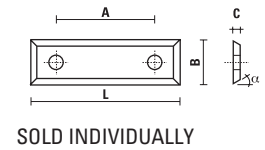


- These knives replace perfectly the HW standard knives
- **2 cutting edges**
- Lifetime up to 35/50 times longer compared to the HC05 (HW) knives
- 2 fixing hole
- Regrindable knives
- **CAUTION:** when sharpening a multicutter bit make sure that all the knives are mounted at the same height

Item	L	B	C	α	A
XZ055.008.N NEW	30	12	1,5	35°	14
XZ055.009.N NEW	40	12	1,5	35°	26
XZ055.010.N NEW	50	12	1,5	35°	26
XZ055.011.N NEW	60	12	1,5	35°	26

DP STANDARD REVERSIBLE KNIVES WITH 4 CUTTING EDGES

ART. XZ055

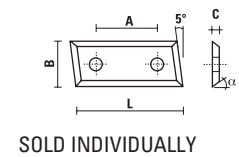


- These knives replace perfectly the HW standard knives
- **4 cutting edges**
- Lifetime up to 35/50 times longer compared to the HC05 (HW) knives
- 2 fixing hole
- Regrindable knives
- **CAUTION:** when sharpening a multicutter bit make sure that all the knives are mounted at the same height

Item	L	B	C	α	A
XZ055.329.N NEW	29,5	12	1,5	35°	14
XZ055.340.N NEW	39,5	12	1,5	35°	26
XZ055.349.N NEW	49,5	12	1,5	35°	26

DP 5° INCLINED REVERSIBLE KNIVES WITH 4 CUTTING EDGES

ART. XZ055

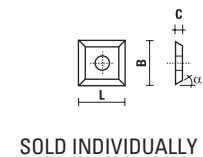
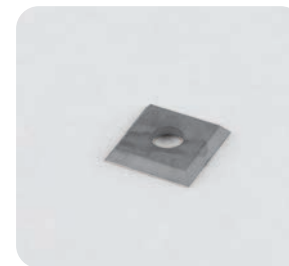


- These knives replace perfectly the HW standard knives
- **4 cutting edges**
- Lifetime up to 35/50 times longer compared to the HC05 (HW) knives
- **5° right-hand inclination**
- 2 fixing hole
- Regrindable knives
- **CAUTION:** when sharpening a multicutter bit make sure that all the knives are mounted at the same height

Item	L	B	C	α	A
XZ055.430.N NEW	29,5	12	1,5	35°	14
XZ055.440.N NEW	39,5	12	1,5	35°	26
XZ055.450.N NEW	49,5	12	1,5	35°	26

DP STANDARD REVERSIBLE KNIVES

ART. XZ055



- **4 cutting edges**
- Lifetime up to 35/50 times longer compared to the HC05 (HW) knives
- 1 fixing hole
- Regrindable knives
- **CAUTION:** when sharpening a multicutter bit make sure that all the knives are mounted at the same height

Item	L	B	C	α
XZ055.001.N NEW	12	12	1,5	35°

KNIVES FOR PORTABLE PLANERS

Item	L	H	S	Machine model
*Z081.010.N	82	28	3	HS Hitachi
*Z081.021.N	80	27	3	HS Elu
*Z080.040.N	80	29	3	HW Star
*Z081.040.N	80	29	3	HS Star
Z080.050.N	82	29	3	HW Makita
Z081.050.N	82	29	3	HS Makita
Z080.052.N	110	29	3	HW Makita
Z081.052.N	110	29	3	HS Makita
Z080.051.N	155	33	3	HW Makita
Z081.051.N	155	33	3	HS Makita
Z080.053.N	170	35	3	HW Makita
Z081.053.N	170	35	3	HS Makita
Z080.080.N	260	21	3	HW Dewalt
Z081.080.N	260	21	3	HS Dewalt

* Selling out



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 info@sistemiklein.com

HW TURNBLADE KNIVES FOR PORTABLE PLANERS

ART. ZB



10 pcs. set

Item	Dimension	Producer	Machine model
ZB0755	75,5X5,5X1,1	AEG	HTH75
		BLACK & DECKER	DN75, 750SR, 600K
		BOSCH	0590, 1590, 1591, P400
		FESTO	REP75
		HAFFNER	FH222
		HOLZ-HER	2223, 2286, 2320
		KRESS	JET-STAR 6701, 6702
		MAFELL	HU75
		METABO	6375
		SCHEER	MH75/3, MH80
		SKIL	98H
ZB0805	80,5X5,9X1,2	ELU	MFF40, MFF80, PF161, MFF81, MFF81EK
ZB0820	82X5,5X1,1	AEG	EH450, EH825, EH700, EH700R
			EH822, H500, H750
		BLACK & DECKER	DN710, DN712, DN730
		BOSCH	PH0282, PH0382
		CASALS	CE82
		FEIN	HS2151
		FELISATTI	TP282
		HAFFNER	FH224
		HITACHI	F20, F20A, P20V, P20SA, FP20A
		HOLZ-HER	2223, 2321
		LEGNA	R82, G82
		MAFELL	MHU82
		MAKITA	1001, 1100, 1900, 1901, 1125B, 1923B, 1923H, 1923HO
		METABO	0882, 0883, E0983, 3360, 4382, 8382
		PERLES	HHB82B
		PEUGEOT	BRA3-82, BR82, RA400, 82RAC, RA1082CA
		SKIL	92H, 94H, 96H, 1506, 1510
		STAYER	980B
ZB0920	92X5,5X1,1	HITACHI	F30A
		RYOBI	L120N, 1323
		TOWA	
ZB1030	103X5,5X1,1	AEG	EH102, HB750, HBE800

2 PIECES HANGING PACKAGING



ZB0755X2	75x5,5x1,1
ZB0805X2	80,5x5,9x1,2
ZB0820X2	82x5,5x1,1
ZB0920X2	92x5,5x1,1
ZB1030X2	103x5,5x1,1

LAMINATE CUTTERS

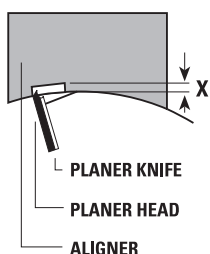
ART. Y100



Item	Description
Y100.001.R	Two identical knives for cutting: Plastic material, Laminates etc.
Y100.002.R	Two identical knives for cutting: Side A: Laminates etc. Side B: Glass, Tiles etc.

MAGNETIC ALIGNERS FOR PLANER KNIVES

ART. Y200



Klein magnetic aligners for planer knives have been specially designed for rapid knife positioning after sharpening. They are made of galvanized steel and feature permanent magnets.

In just a few minutes, in a simple and precise way, problems of knife alignment after sharpening are solved.

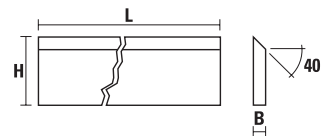
No adjustments are required. Simply position on cutterhead along the step where the knife is to be rested. All your knives will be parallel and positioned with the same working thickness.

Item	∅Planer head	X	Item	∅Planer head	X
Y200.056.N	56	1	Y200.100.N	100	1
Y200.060.N	60	1	Y200.110.N	110	1
Y200.070.N	70	1	Y200.118.N	118	1
Y200.080.N	80	1	Y200.120.N	120	1
Y200.090.N	90	1	Y200.125.N	125	1
Y200.095.N	95	1	Y200.140.N	140	1



PLANER KNIVES H=30/35

ART. ZC 30 - ZC 35

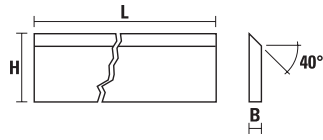
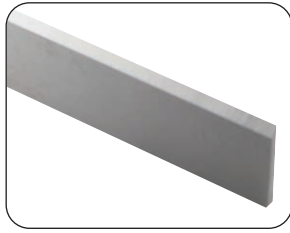


- HS= 18% W, suitable for softwood dry and hardwood wet
- 4 pcs. set

Item	Quality	H	B	L
ZC30.060HS	HS	30	3	60
ZC30.080HS	HS	30	3	80
ZC30.100HS	HS	30	3	100
ZC30.120HS	HS	30	3	120
ZC30.180HS	HS	30	3	180
ZC30.200HS	HS	30	3	200
ZC30.210HS	HS	30	3	210
ZC30.230HS	HS	30	3	230
ZC30.250HS	HS	30	3	250
ZC30.260HS	HS	30	3	260
ZC30.300HS	HS	30	3	300
ZC30.310HS	HS	30	3	310
ZC30.350HS	HS	30	3	350
ZC30.400HS	HS	30	3	400
ZC30.410HS	HS	30	3	410
ZC30.430HS	HS	30	3	430
ZC30.500HS	HS	30	3	500
ZC30.510HS	HS	30	3	510
ZC30.520HS	HS	30	3	520
ZC30.530HS	HS	30	3	530
ZC30.600HS	HS	30	3	600
ZC30.610HS	HS	30	3	610
ZC30.630HS	HS	30	3	630
ZC30.810HS	HS	30	3	810
ZC30.999HS	HS	30	3	1000
ZC35.300HS	HS	35	3	300
ZC35.310HS	HS	35	3	310
ZC35.350HS	HS	35	3	350
ZC35.400HS	HS	35	3	400
ZC35.410HS	HS	35	3	410
ZC35.430HS	HS	35	3	430
ZC35.500HS	HS	35	3	500
ZC35.510HS	HS	35	3	510
ZC35.520HS	HS	35	3	520
ZC35.530HS	HS	35	3	530
ZC35.600HS	HS	35	3	600
ZC35.630HS	HS	35	3	630
ZC35.640HS	HS	35	3	640
ZC35.700HS	HS	35	3	700
ZC35.810HS	HS	35	3	810
ZC35.999HS	HS	35	3	1000

PLANER KNIVES H=30/35

ART. ZC 30 - ZC 35

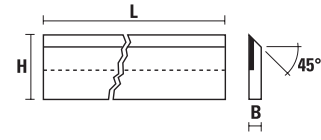
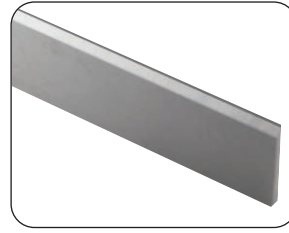


- HL= 13% Cr, suitable for softwood wet
- 4 pcs. set

Item	Quality	H	B	L
ZC30.250HL	HL	30	3	250
ZC30.260HL	HL	30	3	260
ZC30.300HL	HL	30	3	300
ZC30.400HL	HL	30	3	400
ZC30.430HL	HL	30	3	430
ZC30.500HL	HL	30	3	500
ZC30.510HL	HL	30	3	510
ZC30.515HL	HL	30	3	515
ZC30.520HL	HL	30	3	520
ZC30.530HL	HL	30	3	530
ZC30.600HL	HL	30	3	600
ZC30.630HL	HL	30	3	630
ZC30.810HL	HL	30	3	810
ZC30.999HL	HL	30	3	1000
ZC35.300HL	HL	35	3	300
ZC35.350HL	HL	35	3	350
ZC35.400HL	HL	35	3	400
ZC35.410HL	HL	35	3	410
ZC35.430HL	HL	35	3	430
ZC35.500HL	HL	35	3	500
ZC35.510HL	HL	35	3	510
ZC35.520HL	HL	35	3	520
ZC35.530HL	HL	35	3	530
ZC35.600HL	HL	35	3	600
ZC35.610HL	HL	35	3	610
ZC35.630HL	HL	35	3	630
ZC35.640HL	HL	35	3	640
ZC35.740HL	HL	35	3	740
ZC35.810HL	HL	35	3	810
ZC35.999HL	HL	35	3	1000

PLANER KNIVES H=30/35

ART. ZC 30 - ZC 35

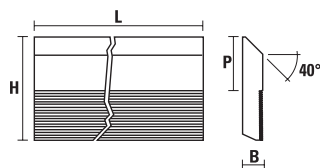


- HW= TCT
- 4 pcs. set
- Suitable for hardwood dry and pressed wood

Item	Quality	H	B	L
ZC30.080HW	HW	30	3	80
ZC30.100HW	HW	30	3	100
ZC30.120HW	HW	30	3	120
ZC30.130HW	HW	30	3	130
ZC30.150HW	HW	30	3	150
ZC30.180HW	HW	30	3	180
ZC30.200HW	HW	30	3	200
ZC30.230HW	HW	30	3	230
ZC30.250HW	HW	30	3	250
ZC30.260HW	HW	30	3	260
ZC30.310HW	HW	30	3	310
ZC30.350HW	HW	30	3	350
ZC30.400HW	HW	30	3	400
ZC30.410HW	HW	30	3	410
ZC30.450HW	HW	30	3	450
ZC30.500HW	HW	30	3	500
ZC30.520HW	HW	30	3	520
ZC30.530HW	HW	30	3	530
ZC30.600HW	HW	30	3	600
ZC30.630HW	HW	30	3	630
ZC30.710HW	HW	30	3	710
ZC30.810HW	HW	30	3	810
ZC30.999HW	HW	30	3	1040
ZC35.300HW	HW	35	3	300
ZC35.320HW	HW	35	3	320
ZC35.400HW	HW	35	3	400
ZC35.500HW	HW	35	3	500
ZC35.520HW	HW	35	3	520
ZC35.600HW	HW	35	3	600
ZC35.630HW	HW	35	3	630
ZC35.640HW	HW	35	3	640
ZC35.710HW	HW	35	3	710
ZC35.810HW	HW	35	3	810
ZC35.999HW	HW	35	3	1040

CORRUGATED BLANK KNIVES

ART. ZC 50 - ZC 60 - ZC 70

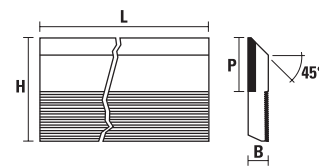


- **HS: 18% W**, suitable for softwood dry or wet and hardwood wet
- Precision serration, angle 60°, pitch 1,6 mm

Item	H	B	L	Pmax
ZC50.060HS	50	8	60	12
ZC50.080HS	50	8	80	12
ZC50.100HS	50	8	100	12
ZC50.120HS	50	8	120	12
ZC50.130HS	50	8	130	12
ZC50.150HS	50	8	150	12
ZC50.180HS	50	8	180	12
ZC50.230HS	50	8	230	12
ZC50.260HS	50	8	260	12
ZC50.650HS	50	8	650	12
ZC60.060HS	60	8	60	20
ZC60.080HS	60	8	80	20
ZC60.100HS	60	8	100	20
ZC60.120HS	60	8	120	20
ZC60.130HS	60	8	130	20
ZC60.150HS	60	8	150	20
ZC60.180HS	60	8	180	20
ZC60.230HS	60	8	230	20
ZC60.260HS	60	8	260	20
ZC60.650HS	60	8	650	20
ZC70.060HS	70	8	60	30
ZC70.080HS	70	8	80	30
ZC70.100HS	70	8	100	30
ZC70.120HS	70	8	120	30
ZC70.130HS	70	8	130	30
ZC70.150HS	70	8	150	30
ZC70.180HS	70	8	180	30
ZC70.230HS	70	8	230	30
ZC70.260HS	70	8	260	30
ZC70.650HS	70	8	650	30

CORRUGATED BLANK KNIVES

ART. ZC 50 - ZC 60 - ZC 70

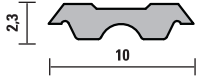


- **HW:** carbide tipped, suitable for hardwood dry, pressed wood
- Precision serration, angle 60°, pitch 1,6 mm

Item	H	B	L	Pmax
ZC50.040HW	50	8	40	20
ZC50.050HW	50	8	50	20
ZC50.060HW	50	8	60	20
ZC50.080HW	50	8	80	20
ZC50.100HW	50	8	100	20
ZC50.120HW	50	8	120	20
ZC50.130HW	50	8	130	20
ZC50.150HW	50	8	150	20
ZC50.180HW	50	8	180	20
ZC50.230HW	50	8	230	20
ZC50.640HW	50	8	640	20
ZC60.040HW	60	8	40	25
ZC60.050HW	60	8	50	25
ZC60.060HW	60	8	60	25
ZC60.080HW	60	8	80	25
ZC60.100HW	60	8	100	25
ZC60.120HW	60	8	120	25
ZC60.130HW	60	8	130	25
ZC60.150HW	60	8	150	25
ZC60.180HW	60	8	180	25
ZC60.230HW	60	8	230	25
ZC60.640HW	60	8	640	25
ZC70.040HW	70	8	40	30
ZC70.050HW	70	8	50	30
ZC70.060HW	70	8	60	30
ZC70.080HW	70	8	80	30
ZC70.100HW	70	8	100	30
ZC70.120HW	70	8	120	30
ZC70.130HW	70	8	130	30
ZC70.150HW	70	8	150	30
ZC70.180HW	70	8	180	30
ZC70.230HW	70	8	230	30
ZC70.640HW	70	8	640	30

TURNBLADES "TERSA"

ART. ZE 01



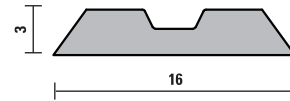
- Antioxidant treatment on knife body
- Polished cutting face for an excellent finish quality
- HS 18% for medium hard wood
- HW for very hard wood and abrasive materials
- M42 for hard wood, long-life performance

Item	Quality	L
ZE01.060HS	HS	60
ZE01.100HS	HS	100
ZE01.130HS	HS	130
ZE01.180HS	HS	180
ZE01.230HS	HS	230
ZE01.310HS	HS	310
ZE01.330HS	HS	330
ZE01.410HS	HS	410
ZE01.430HS	HS	430
ZE01.510HS	HS	510
ZE01.520HS	HS	520
ZE01.530HS	HS	530
ZE01.630HS	HS	630
ZE01.640HS	HS	640
ZE01.060HW	HW	60
ZE01.100HW	HW	100
ZE01.130HW	HW	130
ZE01.180HW	HW	180
ZE01.230HW	HW	230
ZE01.310HW	HW	310
ZE01.330HW	HW	330
ZE01.410HW	HW	410
ZE01.430HW	HW	430
ZE01.510HW	HW	510
ZE01.520HW	HW	520
ZE01.530HW	HW	530
ZE01.630HW	HW	630
ZE01.640HW	HW	640
ZE01.650HW	HW	650
ZE01.060M42	M42	60
ZE01.100M42	M42	100
ZE01.130M42	M42	130
ZE01.180M42	M42	180
ZE01.230M42	M42	230
ZE01.310M42	M42	310
ZE01.330M42	M42	330
ZE01.410M42	M42	410
ZE01.430M42	M42	430
ZE01.510M42	M42	510
ZE01.520M42	M42	520
ZE01.530M42	M42	530
ZE01.630M42	M42	630
ZE01.640M42	M42	640

Other dimensions available on request

TURNBLADES "CENTROLOCK"

ART. ZE 02

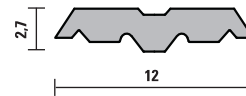


- Antioxidant treatment on knife body
- Polished cutting face for an excellent finish quality
- HS 18% for medium hard wood
- HW for very hard wood and abrasive materials

Item	Quality	L
ZE02.020HS	HS	20
ZE02.080HS	HS	80
ZE02.150HS	HS	150
ZE02.210HS	HS	210
ZE02.240HS	HS	240
ZE02.300HS	HS	300
ZE02.360HS	HS	360
ZE02.460HS	HS	460
ZE02.020HW	HW	20
ZE02.110HW	HW	110
ZE02.160HW	HW	160
ZE02.200HW	HW	200
ZE02.220HW	HW	220
ZE02.250HW	HW	250
ZE02.275HW	HW	275
ZE02.280HW	HW	280
ZE02.350HW	HW	350
ZE02.450HW	HW	450

TURNBLADES "CENTROFIX - QUICKFIX" - "CENTROSTAR"

ART. ZE 03



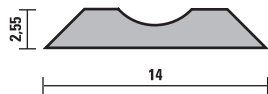
- Antioxidant treatment on knife body
- Polished cutting face for an excellent finish quality
- HS 18% for medium hard wood
- HW for very hard wood and abrasive materials

Item	Quality	L
ZE03.130HS	HS	130
ZE03.150HS	HS	150
ZE03.180HS	HS	180
ZE03.210HS	HS	210
ZE03.230HS	HS	230
ZE03.310HS	HS	310
ZE03.410HS	HS	410
ZE03.430HS	HS	430
ZE03.510HS	HS	510
ZE03.520HS	HS	520
ZE03.530HS	HS	530
ZE03.630HS	HS	630
ZE03.640HS	HS	640
ZE03.930HS	HS	930
ZE03.130HW	HW	130
ZE03.180HW	HW	180
ZE03.230HW	HW	230
ZE03.310HW	HW	310
ZE03.410HW	HW	410
ZE03.430HW	HW	430
ZE03.510HW	HW	510
ZE03.520HW	HW	520
ZE03.630HW	HW	630
ZE03.640HW	HW	640
ZE03.650HW	HW	650

Other dimensions available on request

TURNBLADES "TERMINUS"

ART. ZE 04



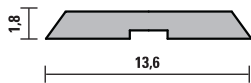
- Antioxidant treatment on knife body
- Polished cutting face for an excellent finish quality
- HS 18% for medium hard wood
- HW for very hard wood and abrasive materials

Item	Quality	L
ZE04.130HS	HS	130
ZE04.180HS	HS	180
ZE04.210HS	HS	210
ZE04.230HS	HS	230
ZE04.310HS	HS	310
ZE04.520HS	HS	520
ZE04.650HS	HS	650
ZE04.130HW	HW	130
ZE04.180HW	HW	180
ZE04.210HW	HW	210
ZE04.230HW	HW	230
ZE04.310HW	HW	310
ZE04.520HW	HW	520
ZE04.650HW	HW	650

Other dimensions available on request

TURNBLADES "BULLDOZER"

ART. ZE 05



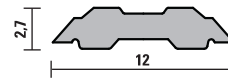
- Antioxidant treatment on knife body
- Polished cutting face for an excellent finish quality
- HW for very hard wood and abrasive materials

Item	Quality	L
ZE05.100HW	HW	100
ZE05.130HW	HW	130
ZE05.150HW	HW	150
ZE05.210HW	HW	210
ZE05.230HW	HW	230
ZE05.265HW	HW	265

Other dimensions available on request

TURNBLADES "ENSHIN"

ART. ZE 06



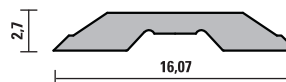
- Antioxidant treatment on knife body
- Polished cutting face for an excellent finish quality
- HS 18% for medium hard wood
- HW for very hard wood and abrasive materials

Item	Quality	L
ZE06.080HS	HS	80
ZE06.130HS	HS	130
ZE06.150HS	HS	150
ZE06.210HS	HS	210
ZE06.240HS	HS	240
ZE06.080HW	HW	80
ZE06.130HW	HW	130
ZE06.150HW	HW	150
ZE06.210HW	HW	210
ZE06.240HW	HW	240
ZE06.640HW	HW	640

Other dimensions available on request

TURNBLADES "SINUS"

ART. ZE 07



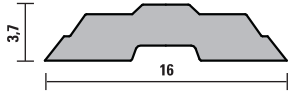
- Antioxidant treatment on knife body
- Polished cutting face for an excellent finish quality
- HS 18% for medium hard wood
- HW for very hard wood and abrasive materials

Item	Quality	L
ZE07.080HS	HS	80
ZE07.130HS	HS	130
ZE07.180HS	HS	180
ZE07.210HS	HS	210
ZE07.250HS	HS	250
ZE07.310HS	HS	310
ZE07.430HS	HS	430
ZE07.510HS	HS	510
ZE07.630HS	HS	630
ZE07.1050HS	HS	1050
ZE07.080HW	HW	80
ZE07.130HW	HW	130
ZE07.180HW	HW	180
ZE07.210.HW	HW	210
ZE07.250HW	HW	250
ZE07.310HW	HW	310
ZE07.430HW	HW	430
ZE07.510HW	HW	510
ZE07.630HW	HW	630

Other dimensions available on request

TURNBLADES "VARIPLAN"

ART. ZE 08



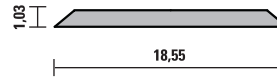
- Antioxidant treatment on knife body
- Polished cutting face for an excellent finish quality
- HS 18% for medium hard wood
- HW for very hard wood and abrasive materials

Item	Quality	L
ZE08.050HS	HS	50
ZE08.100HS	HS	100
ZE08.130HS	HS	130
ZE08.180HS	HS	180
ZE08.210HS	HS	210
ZE08.410HS	HS	410
ZE08.430HS	HS	430
ZE08.510HS	HS	510
ZE08.600HS	HS	600
ZE08.630HS	HS	630
ZE08.050HW	HW	50
ZE08.100HW	HW	100
ZE08.130HW	HW	130
ZE08.180HW	HW	180
ZE08.210HW	HW	210
ZE08.410HW	HW	410
ZE08.430HW	HW	430
ZE08.510HW	HW	510
ZE08.600HW	HW	600
ZE08.630HW	HW	630

Other dimensions available on request

TURNBLADES "BRÜCK"

ART. ZE 09



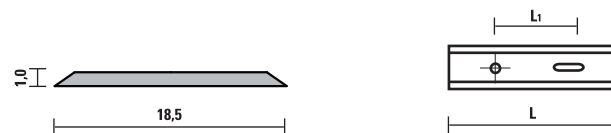
- Antioxidant treatment on knife body
- Polished cutting face for an excellent finish quality
- HS 18% for medium hard wood
- HSCo (cobalt) for very hard wood and abrasive materials

Item	Quality	L
ZE09.060HS	HS	60
ZE09.100HS	HS	100
ZE09.130HS	HS	130
ZE09.180HS	HS	180
ZE09.210HS	HS	210
ZE09.250HS	HS	250
ZE09.310HS	HS	310
ZE09.400HS	HS	400
ZE09.450HS	HS	450
ZE09.510HS	HS	510
ZE09.630HS	HS	630
ZE09.810HS	HS	810
ZE09.060HSCo	HSCo	60
ZE09.100HSCo	HSCo	100
ZE09.130HSCo	HSCo	130
ZE09.180HSCo	HSCo	180
ZE09.210HSCo	HSCo	210
ZE09.250HSCo	HSCo	250
ZE09.310HSCo	HSCo	310
ZE09.400HSCo	HSCo	400
ZE09.450HSCo	HSCo	450
ZE09.510HSCo	HSCo	510
ZE09.630HSCo	HSCo	630
ZE09.810HSCo	HSCo	810

Other dimensions available on request

TURNBLADES "ESTA"

ART. ZE 10



- Antioxidant treatment on knife body
- Polished cutting face for an excellent finish quality
- HS 18% for medium hard wood
- Up to L= 280 (20 pcs packaging)
- From L= 280 (12 pcs packaging)

Item	Quality	L	L1	n. holes	n. slots
ZE10.060HS	HS	60	45	1	1
ZE10.100HS	HS	100	45	1	1
ZE10.130HS	HS	130	45	1	2
ZE10.200HS	HS	200	45	1	2
ZE10.300HS	HS	300	100	1	2
ZE10.400HS	HS	400	100	2	3
ZE10.500HS	HS	500	100	1	4
ZE10.650HS	HS	650	200	1	3
ZE10.810HS	HS	810	200	1	3

Other dimensions available on request

