





General information

Knives, spare parts

Cutting knives from high speed steel (HSS) designed for professional machining of solid soft wood, cutting knives from carbide (HM) designed for professional machining of solid soft and hard wood, glued wood and other wood-based materials. Knives 1100-4H have been improved with high performance coating HP or HX. Properly selected coating, significantly increases (even several times) life of the tool. Knives with HP and HX coating are designed for cutting dry hardwood at temperature up to 200°C (HP) and for cutting wet softwood at temperature up to 300°C (HX). They are used for machining flat surfaces, grooves, rebates and specialist surface and edge profiling

Knives are made from the highest quality high speed cutting steel and carbide in special heat treatment and profiling technology, properly selected for the type of work, parameters and conditions prevailing during the machining, in order to guarantee proper work in cooperation with other tools both in standard and extreme conditions. Knives are offered also in the version combining high speed cutting steel with carbide as in the case of knives 1100-4.

Knives are designed for cutter heads with or without shear angle and optimized chip flow. Very precise tool production and balancing allows for rotation speed up to 24 000 r.p.m. All types of cutting knives are manufactured on modern CNC machines of world-renowned producers, which guarantee high accuracy and precision of the produced tools. The construction and production remains in accordance with all points of safety standard EN/PN-847-1 concerning tools for mechanical woodworking.

Knives and spare parts chapter includes only examples of knives with basic dimensions. On request, we can suggest and manufacture proper knive for the required type of tool, profile, work, material as well as parameters and conditions during machining. The production time of knives or catalogue components indicated with "+" as well as special ones made on client's request in most cases does not take more than 10-15 working days.

Orders should include:

- tool outer diameter (D) or diameters range,
- HM tip depth (h),
- knife length (B),
- knife height (L),
- knife thickness (b),
- profile depth (G_p),
- type of machined material,
- number of teeth (z) or spindle rotation speed and feed speed.



8.2

General information

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Pictograms



8.1 Knives, spare parts

Knives for cutter heads

GP



Cutting knife, type **GP-01** or **GP-03** with one cutting edge, designed for professional machining of solid wood. The knife is used for cutting flat surfaces or profiling. Height is regulated by precise serration. The knife is offered also with HP or HX coating.

Type of work: cutting flat surfaces, profiling.

Material:

HTS solid wood HP solid, dry wood, plastics HX solid, wet wood, plastics



GP-01

D=mm b=mm H=mm Gp _{mm} =mm	122 8 40 8		122 8 50 15		122 8 60 25	
Bmm	Catalogue number HSS		Catalogue number HSS		Catalogue number 🔤	
40			N2050012		N2050022	•
50			N2050013	+	N2050023	+
60	N20500004	+	N2050014		N2050024	
80			N2050015		N2050025	
100			N2050016		N2050026	
120			N2050017		N2050027	+
150			N2050018		N2050028	
180			N2050019	•	N2050029	+
200			N2050020	+	N2050030	+
320			N2050519	•		

Profiles in knives GP-01 are made only on client's request according to individual pricing.

GP-03

D=mm b=mm H=mm	122 5 40		122 5 40		122 5 40		
B mm	Catalogue number 🔤		Catalogue number 💷		Catalogue number 🗪		
60	N2050186	+	N2050186HP	+	N2050186HX	+	
80	N2050187	+	N2050187HP	+	N2050187HX	+	
100	N2050188	+	N2050188HP	+	N2050188HX	+	
130	N2050189	+	N2050189HP	+	N2050189HX	+	
150	N2050190	+	N2050190HP	+	N2050190HX	+	
200	N2050191	+	N2050191HP	+	N2050191HX	+	

More informations about knives with HP or HX coating on page 8.8 of the catalogue.

Cutting knife with **HM tip** designed for professional machining of solid wood. The knife is used for precise cutting of flat surfaces. Special geometry allows for working together with GP cutter heads. Height regulated with precise serration. Knives thickness 10 mm. Depending on size and depth of the profile mould, the proper height of

Type of work: cutting flat surfaces, profilings.

the carbide tip should be chosen.

Material: solid soft and hard wood, glued wood, chipboard, MDF, PCV.





Knives, 8.1 spare parts

H=mm h=mm Gp _{mm} =mm Bmm	50 20 15	60 20 15	60 25 19
60	+	+	+
80	+	+	+
100	+	+	+
130	+	+	+

Cutting **knife HM with backing plate** designed for professional machining of solid wood. The knife is used for precise cutting of flat surfaces and profiling. Special geometry allows for working together with GP-01 and GPL-01 cutter heads. Height regulated with precise serration. Knives thickness 3,2 mm. The set includes backing plate which guarantees better support of the HM tip.

Type of work: cutting flat surfaces, profiling.

Material: solid soft and hard wood, glued wood, chipboard, MDF, PCV.

HM knives and backing plates





	Knife size H x b (Gp _{ma}) mm		Support knife size H x b mm	
Bmm				
60	50 x 3,2 (15)	+	47 x 7,1	+
60	60 x 3,2 (20)	+	57 x 7,1	+
100	50 x 3,2 (15)	+	47 x 7,1	+
100	60 x 3,2 (20)	+	57 x 7,1	+
150	50 x 3,2 (15)	+	47 x 7,1	+
150	60 x 3,2 (20)	+	57 x 7,1	+

8.5

8.1 Knives, spare parts





Precise cutting knife, type **1100-4** with one cutting edge, designed for professional machining of solid wood. The knife is used for cutting flat surfaces. Special geometry allows for working together with 1100-4 and 1100-5 cutter heads.

Type of work: cutting flat surfaces

Material:

solid softwood



b H	3 30		3 35		3 30	
Bmm	Catalogue number HSS		Catalogue number 🖽		Catalogue number 📟	
60	N2040101	+	N2040201	+	N2040101W	•
80	N2040102		N2040202	+	N2040102W	•
100	N2040103	•	N2040203		N2040103W	
130	N2040104	•	N2040204	•	N2040104W	
150	N2040105	•	N2040205		N2040105W	
160	N2040106	•	N2040206	+	N2040106W	•
180	N2040107		N2040207	+	N2040107W	
200	N2040141	•			N2040141W	+
230	N2040108		N2040208	•	N2040108W	
270	N2040109	•	N2040209	+	N2040109W	+
300	N2040110	+	N2040210	+	N2040110W	+
310	N2040137	•				
350	N2040111	+	N2040211	+	N2040111W	+
410	N2040112	۰.	N2040212		N2040112W	•
510	N2040114	•	N2040214	•	N2040114W	+
610	N2040116	•	N2040216	•	N2040116W	+
640	N2040118		N2040218			
710	N2040119	+				
810	N2040120	•	N2040220	•		

Knives 1100-4 with length not given in the chart we offer on client's request according to individual pricing. Precise cutting knife, type **1100-4H** and coated knife type TYGRYS with one cutting edge, designed for professional machining of solid wood. The knife is used for precise cutting of flat surfaces. Special geometry allows for working together with 1100-4H and 1100-5H cutter heads. The knife is offered as HSS steel or HSS 18% wolfram version, as well as with HP and HX coating increasing life of the knife several times.

Type of work: cutting flat surfaces.

Material:

- uss solid softwood
- 쯤 solid, dry softwood and hardwood
- HP solid, dry wood, plastics
- HX solid, wet wood, plastics

1100-4 H







b H	3 30		3 30		3 30		3 30	
Bmm	Catalogue number 📧		Catalogue number 🚟		Catalogue number 맫		Catalogue number	
60	N2041101	+	N2041101.18	+	N2081101HP		N2081101HX	+
80	N2041102	+	N2041102.18	+	N2081102HP	+	N2081102HX	+
100	N2041103		N2041103.18	+	N2081103HP		N2081103HX	+
130	N2041104		N2041104.18		N2081104HP		N2081104HX	+
150	N2041105		N2041105.18		N2081105HP		N2081105HX	+
160	N2041106		N2041106.18		N2081106HP	+	N2081106HX	+
180	N2041107		N2041107.18		N2081107HP		N2081107HX	+
200					N2081141HP	+	N2081141HX	+
230	N2041108		N2041108.18		N2081108HP	•	N2081108HX	+
270	N2041109	+	N2041109.18	+	N2081109HP	+	N2081109HX	+
300	N2041110	+			N2081110HP	+	N2081110HX	+
310					N2081137HP	+	N2081137HX	+

Knives 1100-4 HSS with length not given in the chart (max 310 mm) we offer on client's request according to individual pricing. More informations about knives with HP or HX coating on page 8.8 of the catalogue.

PC\

SUPER LONGLIFE knives 1100-4 H TYGRYS HP and HX

PERFECT SURFACE QUALITY

1100-4H knives have been improved by adding special HP or HX coating. The coating, properly chosen for the kind of machined material significantly (even several times) increases life of the knife.

Planer knives **1100-4H** in special version with increased manufacturing precision with coating:

- HP are designed for dry and hard wood cutting. Maximum temperature of work in wood up to 200°C.
- HX are designed for wet and soft wood cutting. Maximum temperature of work in wood up to 300°C.

We produce knives 35 mm high or with dimensions not given in the catalogue (max. 310 mm) as well as HX coated knives on client's request within 20 working days according to individual pricing.

150/30 3 0B01 N2081105 HX

MGRYS



1100

Cutting blades with two cutting edges designed for professional machining of solid wood and wood-based materials such as chipboard, MDF and others. The blades are used for cutting flat surfaces, grooving and profiling.

Type of work: cutting flat surfaces, grooving.

Material: solid wood, chipboard.

Two-edge inserts

Two-edge S

Inserts made form super hard carbide which guarantees increased durability and abrasion resistance.

Material: chipboard, laminated board, MDF, HDF.





Catalogue number	Туре	BxHxb mm	b1 mm	Number of holes	
N0000801		7,5 x 12 x 1,5		1	•
N0000802		9,6 x 12 x 1,5		1	•
N0000803		11,6 x 12 x 1,5		1	•
N0000804		15,0 x 12 x 1,5		1	•
N00008045	S	15,0 x 12 x 1,5		1	•
N0000829		15,7 x 12 x 1,5		1	+
N0000826		17,0 x 12 x 1,5		1	+
N0000509		19,6 x 12 x 1,5		1	•
N0000805		20,0 x 12 x 1,5		1	•
N0000736	S	20,0 x 12 x 1,5		1	•
N0000806		24,7 x 12 x 1,5-1		1	•
N0000807		24,7 x 12 x 1,5-2	14	2	

Catalogue number	Туре	BxHxb mm	b1 mm	Number of holes	
N0000808		30,0 x 12 x 1,5	14	2	•
N0000835	S	30,0 x 12 x 1,5	14	2	•
N0000809		40,0 x 12 x 1,5	26	2	•
N00008235	S	40,0 x 12 x 1,5	26	2	•
N0000810		50,0 x 12 x 1,5	26	2	•
N0000837	S	50,0 x 12 x 1,5	26	2	•
N0000516		59,5 x 12 x 1,5	26	2	•
N0000811		60,0 x 12 x 1,5	26	2	•
N0000838	S	60,0 x 12 x 1,5	26	2	•
N0000636		79,6x 13 x 2,2	60	2	+
N0000861		80,0 x 13 x 2,2	60	2	•
N0000843		100,0 x 13 x 2,2	60	2	+

Four-edge inserts



Cutting blades with four cutting edges designed for professional machining of solid wood and wood-based materials such as chipboard, MDF and others. The blades are used for cutting flat surfaces and grooving.

Type of work: cutting flat surfaces, grooving.

Material: solid wood, chipboard.



Catalogue number	Туре	BxHxb mm	b1 mm	Number o holes	of
N0000813		12 x 12 x 1,5		1	
N00008545		12 x 12 x 1,5		1	•
N0000828		17 x 17 x 2,0		1	•
N0000814		29,5 x 12 x 1,5	14	2	•

Catalogue number	Туре	BxHxb mm	b1 mm	Number of holes	of
N0000815		39,5 x 12 x 1,5	26	2	+
N0000816		49,5 x 12 x 1,5	26	2	•
N0000812		50 x 12 x 1,7	18,5	3	•



Four-edge inserts R used in cutter heads type G309 and G509. The inserts are perfect for finishing. Special geometry guarantees excellent surface quality.

Spur knives used for tenoning cutter heads as well as traditional and spiral ones. Designed for machining solid hard and soft wood and glued wood.

Type of work: cutting flat surfaces, grooving.

Material: solid wood, chipboard, MDF.



Catalogue numi	er BxHxb mm	R1/R2 mm	d mm	
N0000710	14 x 14 x 2,0	150	6,5	•
N0000722	15 x 15 x 2,5	50	6,2	+
N0000724	15 x 15 x 2,5	50/0,6	6,2	+
N0000733	15 x15 x 2,5	150/0,5	6,2	
N0000777	15 x 15 x 2,5	115	6,2	•

BxHxb mm		d mm	
14 x 14 x 1,2		8,3	
14 x 14 x 2,0		6,5	
14 x 14 x 2,0	\diamond	6,5	
14,3 x 14,3 x 2,5		6,5	•
22 x 19 x 2,0	\triangle	6,5	•
	mm 14x 14x 1,2 14x 14x 2,0 14x 14x 2,0 14,3 x 14,3 x 2,5	mm 14x 14x 1,2 14x 14x 2,0 14x 14x 2,0 14x 14x 2,0 14x 14x 2,0	mm mm 14x14x1,2

Exchangeable inserts

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FKB-45°

Knives, 8.2 spare parts

45

Knives type FKB-45 are used in specialist cutter heads for edge beveling of the machined elements. Edge beveling is possible within the range of 1–3 mm x 45. The knife is made entirely from HM.

Material: solid wood, soft and hard, glued wood.

Catalogue number	BxHxb mm		
N0000870	16 x 22 x 5	45°	•
MH 🤝			

Knives type FKB-R are used in specialist cutter heads for edge rounding of the machined elements. Edge rounding is possible within the range of 1-3 mm. The knife is made entirely from HM.

Material: solid wood, soft and hard, glued wood.

Catalogue number	B x H x b mm	R mm	
N0000871	16 x 22 x 5	1,0	+
N0000872	16 x 22 x 5	1,5	•
N0000873	16 x 22 x 5	2,0	
N0000874	16 x 22 x 5	2,5	
N0000875	16 x 22 x 5	3,0	



Grooving knives are used for making grooves e.g. for silicone. The range of available width 3-5 mm. Maximum groove depth 10 mm.

Material: solid wood, soft and hard, glued wood.

Catalogue number	H x B x b mm	b mm	
N0000880	24,5 x 13 x 3,0	3	+
N0000881	24,5 x 13 x 4,0	4	•
N0000882	24,5 x 13 x 5,0	5	+



Grooving knife









8.3 Knives, spare parts

Knives for treenails

NOB-01A



Cutting knife, type **NOB-01A** designed for solid wood roughing. The knife is used for pre-cutting. Additional profile edge improves surface quality and lowers energy consumption.

Type of work: cutting flat surfaces.

Material: solid hardwood.



Catalogue number	L mm	H mm	B mm		¢	
N2100593P	140	20	10	HSS	Р	+
N2100593L	140	20	10	HSS	L	+
N2100416P	140	33	10	HSS	Р	+
N2100416L	140	33	10	HSS	L	
N2100536P	200	20	10	HSS	Р	+
N2100536L	200	20	10	HSS	L	+



NOB-01B

Cutting knife, type **NOB-01B** designed for solid wood roughing. The knife is used for pre-cutting. Special geometry increases performance and machining efficiency.

Type of work: cutting flat surfaces.

Material: solid hardwood.



п H В Catalogue number mm mm mm 40° N2100319P 200 20 10 HSS Р N2100319L 200 20 10 40° HSS L N2100088P 200 20 10 35° HSS p 200 20 10 35° N2100088L HSS L +

A-A

9

NOB-02A

Knives, 8.3 spare parts

Cutting knife, type NOB-02A designed for solid wood roughing. The knife is used for pre-cutting. Special geometry increases performance and machining efficiency. The knife is equipped with a special slot enabling height regulation.

Type of work: cutting flat surfaces.

Material: solid hardwood.

HS







Drawing shows left knife.

Catalogue number	L	H	В		Λ.	
Catalogue number	mm	mm	mm		*	
N2100006P	125	75	5	HSS	Р	+
N2100006L	125	75	5	HSS	L	
N2100412P	125	75	8	HSS	Р	+
N2100412L	125	75	8	HSS	L	+

Cutting knife, type NOB-02B designed for pre-cutting. Special geometry increases performance and machining efficiency. The knife is equipped with a special slot enabling height regulation and easy installation.

NOB-02B

Type of work: cutting flat surfaces.

Material: solid hardwood.

HSS





Knives NOB-02 with length not given in the chart we offer on client's request according to individual pricing.



8.4 Knives, spare parts

> Cutting knife, type **NNK-01** designed for pre-cutting during debarking. Additional profile edge improves surface quality and lowers energy consumption. The knife is equipped with a special slot enabling height regulation and easy installation.

Type of work: debarking.

Material: solid wet wood



Catalogue number	L	н	В		Λ	
Catalogue Indilibei	mm	mm	mm		*	
N2100834P	97	38	18	HSS	Р	+
N2100834L	97	38	18	HSS	L	+
N2100190P	98	38	17	HSS	Р	+
N2100190L	98	38	17	HSS	L	+



Cutting knife, type **NNK-02** designed for pre-cutting during debarking. Additional profile edge improves surface quality and lowers energy consumption. The knife is equipped with a special slot enabling height regulation.

Type of work: debarking.

Material: solid wet wood



R	Catalogue number	L mm	H	B mm		\checkmark	
	N2100750P	75	35	12,5	HSS	Р	+
	N2100750L	75	35	12,5	HSS	L	+



Cutting knife, type **NNK-02** designed for pre-cutting during debarking. Additional profile edge improves surface quality and lowers energy consumption. The knife is equipped with a special slot enabling height regulation and additional positioning system.

Type of work: debarking

Material: solid wet wood



Knives, 8.5 spare parts

Cutting HM and HSS knives with properly chosen number of cutting edges, designed for professional machining of solid wood and wood-based materials. The knives are used for precise cutting of flat surfaces and profiling. Special geometry allows for working with chosen cutter heads. Properly chosen for the type of material as well as parameters and conditions during work.

Knives and inserts made on client's individual request.

With the order the following information should be given:

- tool outer diameter (D) or diameter range,
- HM tip depth (h),
- knife length (H),
- knife thickness (b),
- profile depth (Gp),
- type of machined material,
- number of teeth (z) or spindle rotation speed and feed speed.

Type of work: cutting flat surfaces, grooving, rebating, edge and surface profiling.

Material:

- 🔤 solid softwood
- 😐 solid hardwood

Knives and inserts













Clamping wedges, screws

Β1



9



pin Ø3x6

KST-02

5

5

11



Clamping wedge, type KST-01 designed for mounting cutting knives in the cutter head body slot. Includes safety pin.

Type of work: straight and profile cutter heads.

Catalogue number	D mm	B1 mm	B (knife) mm	
WHAKA0024	7	7	9,6	+
WHAKA0025	7	8,0	9,6	+
WHAKA0026	10	10	11,6	+
WHAKA0082	10	12	15,7	+
WHAKA0030	10	14	17	+
WHAKA0034	10	17	20	•
WHAKA0037	10	22	25	+
WHAKA0040	10	27	30	•
WHAKA0043	10	47	50	
WHAKA0044	10	57	60	•
WHAKA0046	10	77	80	•

Clamping wedge, type KST-02 designed for mounting cutting knives in the cutter head body slot. Works with cutter heads type 1100-4 and 1100-4H.

Type of work: cutter heads 1100-4 and 1100-4H.

Catalogue number	B1 mm	B (knife) mm
WHAK00002	57	60 +
WHAK00003	77	80 +
WHAK00004	97	100 +
WHAK00095	117	120 +
WHAK00096	127	130 +
WHAK00085	147	150 +
WHAK00016	177	180 +
WHAK00098	227	230 +

B1

Knives, 8.6 spare parts

Clamping wedge, type **KST-03** designed for mounting cutting knives in the cutter head body slot. Works with cutter heads type GP-01 and GP-01 H. The wedge is used for precise mounting of knives with thicknesses of 8 and 10 mm.

Type of work: cutter	heads GP-01	and GP	-01 H.
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Catalogue number	B1 mm	B (knife) mm	
WHAK00101	40	8	+
WHAK00122	40	10	+
WHAK00102	50	8	+
WHAK00123	50	10	+
WHAK00103	60	8	+
WHAK00124	60	10	+
WHAK00105	80	8	+
WHAK00125	80	10	+
WHAK00107	100	8	+
WHAK00126	100	10	+
WHAK00109	120	8	+
WHAK00112	150	8	+
WHAK00128	150	10	+
WHAK00115	180	8	+
WHAK00117	200	8	+
WHAK00130	200	10	+

unting sets of cutter heads and cutters.

Clamping screws, cylindrical type SC-01 designed for mo-

Catalogue number	Standard	M6xL mm	
WHAS00116	PN 82302	M6x17	+
WHAS00102	PN 82302	M6x36	+
WHAS00068	PN 82302	M6x46	+
WHAS00069	PN 82302	M6x50	+
WHAS00037	PN 82302	M6x58	+
WHAS00100	PN 82302	M6x60	+
WHAS00085	PN 82302	M6x25	+
WHAS00053	PN 82302	M6x68	+
WHAS00061	PN 82302	M6x73	+
WHAS00093	PN 82302	M6x85	+
WHAS00091	PN 82302	M6x88	+
WHAS00092	PN 82302	M6x61	+
WHAS00040	PN 82302	M6x98	+
WHAS00030	PN 82302	M6x100	+
WHAS00099	PN 82302	M6x108	+









for knive B = 10 mm



SC-01

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TOR 1262

SM-01





DIN 561





TOR 2821

12

TOR 1128

10

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M6

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Clamping screws, type SM-01	designed	for	precise	moun
ting of cutting tools elements.				

Catalogue number Standard Dimensions WHAS00004 STAMPF 94 M4 x 6 • WHAS00024 TOR 7020 M4 x 6 + WHAS00008 TOR 1064 M5 x 6,5 • WHAS00009 TOR 1064 M5 x 7 • WHAS00015 TOR 1065 M5 x 10 + WHAS00026 DIN 551 M5 x 10 + WHAS00023 PN82302 M5 x 12 + WHAS00007 TOR 1262 M5 x 23 • WHAS00012 TOR 2821 M6 x 11,8 • WHAS00010 TOR 1244 M6 x 16 • WHAS00011 TOR 1011 M7 x 20 • WHAS00013 TOR 7046 M8 x 12 •				
WHAS00024 TOR 7020 M4 x 6 + WHAS00008 TOR 1064 M5 x 6,5 • WHAS0009 TOR1924 M5 x 7 • WHAS00015 TOR 1065 M5 x 10 • WHAS00026 DIN 551 M5 x 10 + WHAS00023 PN82302 M5 x 12 + WHAS00006 TOR 1262 M5 x 23 • WHAS00007 TOR 2821 M6 x 10 • WHAS00012 TOR 2821 M6 x 11,8 • WHAS00010 TOR 1244 M6 x 16 • WHAS00011 TOR 1011 M7 x 20 •	Catalogue number	Standard	Dimensions	
WHAS00008 TOR 1064 M5 x 6,5 • WHAS00009 TOR1924 M5 x 7 • WHAS00015 TOR 1065 M5 x 10 • WHAS00026 DIN 551 M5 x 10 + WHAS00023 PN82302 M5 x 12 + WHAS0006 TOR 1262 M5 x 23 • WHAS0006 TOR 1282 M6 x 10 • WHAS00012 TOR 2821 M6 x 16 • WHAS00010 TOR 1244 M6 x 16 • WHAS00011 TOR 1011 M7 x 20 • WHAS0003 TOR 5046 M8 x 12 •	WHAS00004	STAMPF 94	M4 x 6	•
WHAS0009 TOR1924 M5 x 7 • WHAS00015 TOR 1065 M5 x 10 • WHAS00026 DIN 551 M5 x 10 + WHAS00023 PN82302 M5 x 12 + WHAS00007 TOR 1262 M5 x 23 • WHAS00006 TOR 1128 M6 x 10 • WHAS00012 TOR 2821 M6 x 11,8 • WHAS00010 TOR 1244 M6 x 16 • WHAS00011 TOR 1011 M7 x 20 • WHAS0003 TOR 5046 M8 x 12 •	WHAS00024	TOR 7020	M4 x 6	+
WHAS00015 TOR 1065 M5 x 10 • WHAS00026 DIN 551 M5 x 10 + WHAS00023 PN82302 M5 x 12 + WHAS00007 TOR 1262 M5 x 23 • WHAS0006 TOR 1128 M6 x 10 • WHAS00012 TOR 2821 M6 x 11,8 • WHAS00010 TOR 1244 M6 x 16 • WHAS00011 TOR 1011 M7 x 20 •	WHAS00008	TOR 1064	M5 x 6,5	•
WHAS00026 DIN 551 M5 x 10 + WHAS00023 PN82302 M5 x 12 + WHAS00007 TOR 1262 M5 x 23 • WHAS00006 TOR 1128 M6 x 10 • WHAS00012 TOR 2821 M6 x 11,8 • WHAS00010 TOR 1244 M6 x 16 • WHAS00011 TOR 1011 M7 x 20 • WHAS0003 TOR 5046 M8 x 12 •	WHAS00009	TOR1924	M5 x 7	•
WHAS00023 PN82302 M5 x 12 + WHAS00007 TOR 1262 M5 x 23 • WHAS00006 TOR 1128 M6 x 10 • WHAS00012 TOR 2821 M6 x 11,8 • WHAS00010 TOR 1244 M6 x 16 • WHAS00011 TOR 1011 M7 x 20 • WHAS0003 TOR 5046 M8 x 12 •	WHAS00015	TOR 1065	M5 x 10	
WHAS00007 TOR 1262 M5 x 23 • WHAS00006 TOR 1128 M6 x 10 • WHAS00012 TOR 2821 M6 x 11,8 • WHAS00010 TOR 1244 M6 x 16 • WHAS00011 TOR 1011 M7 x 20 • WHAS00013 TOR 5046 M8 x 12 •	WHAS00026	DIN 551	M5 x 10	+
WHAS00006 TOR 1128 M6 x 10 • WHAS00012 TOR 2821 M6 x 11,8 • WHAS00010 TOR 1244 M6 x 16 • WHAS0002 PN 82302 M6 x 22 • WHAS00011 TOR 1011 M7 x 20 • WHAS0003 TOR 5046 M8 x 12 •	WHAS00023	PN82302	M5 x 12	+
WHAS00012 TOR 2821 M6 x 11,8 • WHAS00010 TOR 1244 M6 x 16 • WHAS00002 PN 82302 M6 x 22 • WHAS00011 TOR 1011 M7 x 20 • WHAS00003 TOR 5046 M8 x 12 •	WHAS00007	TOR 1262	M5 x 23	•
WHAS00010 TOR 1244 M6 x 16 • WHAS00002 PN 82302 M6 x 22 • WHAS00011 TOR 1011 M7 x 20 • WHAS00003 TOR 5046 M8 x 12 •	WHAS00006	TOR 1128	M6 x 10	•
WHAS00002 PN 82302 M6 x 22 • WHAS00011 TOR 1011 M7 x 20 • WHAS00003 TOR 5046 M8 x 12 •	WHAS00012	TOR 2821	M6 x 11,8	•
WHAS00011 TOR 1011 M7 x 20 • WHAS00003 TOR 5046 M8 x 12 •	WHAS00010	TOR 1244	M6 x 16	•
WHAS00003 TOR 5046 M8 x 12 •	WHAS00002	PN 82302	M6 x 22	•
	WHAS00011	TOR 1011	M7 x 20	
WHAS00001 DIN 561 M8 x 16 •	WHAS00003	TOR 5046	M8 x 12	•
	WHAS00001	DIN 561	M8 x 16	•

TOR 1064



8

WM-01

Clamping screws, type **WM-01** designed for precise mounting of cutting tools elements.





Knives, 8.7 spare parts

Reduction sleeve with flange, type **TRK**, designed for reducing bore diameter.

Type of work: cutter heads and cutters with bore.

Catalogue number		
WHAT00045	40/35x10	•
WHAT05247	40/32x10	
WHAT00003	40/30x10	
WHAT05248	40 / 25 x 10	
WHAT00002	35/30x10	
WHAT00001	30 / 25 x 10	
WHAT05253	30/22x10	
WHAT00375	30 / 20 x 10	



TR

Reduction sleeve, type **TR**, designed for reducing bore diameter of single tools and sets

Type of work: cutter heads and cutters with bore, sets of cutters and cutter heads.

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WHAT00295

WHAT00144

WHAT00148

WHAT00389

WHAT00100

b mm

D/d mm 40/35

40/32

40/30

40/25

30/25

7

WHAT05233 •

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WHAT05234

WHAT01022

WHAT01787

WHAT05235

15

WHAT00896 •

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WHAT05236

WHAT00593

WHAT00611 •

WHAT00101 •

bmm	20		25		30		35		40		50		65		75	
D/d mm																
40/35	WHAT00714	•	WHAT00205	•	WHAT00196	•	WHAT03025	•	WHAT00197	•	WHAT00198	•	WHAT00698	•	WHAT00705	•
40/32	WHAT00327	•	WHAT03346	•	WHAT05237	•	WHAT00989	•	WHAT05240	•	WHAT05241	•	WHAT05242	•	WHAT05245	•
40/30	WHAT00572	•	WHAT00150	•	WHAT00212	•	WHAT00323	•	WHAT00357	•	WHAT00832	•	WHAT01192	•	WHAT00518	•
40/25	WHAT00242	•	WHAT00298	•	WHAT00243	•	WHAT05238	•	WHAT04535	•	WHAT00422	•	WHAT05243	•	WHAT05244	
30/25	WHAT00102	•	WHAT00334	•	WHAT00005	•	WHAT00681	•	WHAT00042	•	WHAT00545	•	WHAT03020	•	WHAT05246	•

FABA

8.19

Spacer rings

TB-01



Positioning sleeves, type TB-01 designed for profile cutter heads. Used for precise mounting of cutting blades.

Type of work: profile cutter heads.

Dimensions	
12 x 6,5 x 3,6	+
12 x 6,5 x 2,8	+
12 x 6,5 x 2,3	+
12 x 6,5 x 1,7	+
12 x 6,5 x 2,5	+
	12 x 6,5 x 3,6 12 x 6,5 x 2,8 12 x 6,5 x 2,3 12 x 6,5 x 1,7

PD-01





PD-01 with pinholes

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PD-01 Spacer ring made from hard steel, designed for tool positioning and regulating width of sets of tools. Width regulation involves adding or removing spacers of given thickness. Used for sets of cutters and cutter heads assembled without screws.

Designed for: sets of cutters or cutter heads - not screwed together.

D mm d mm	50 30		60 40		70 50		80 60		D
Bmm									B
0,1	WHAP00214	•	WHAP00060	•	WHAP00027	•	WHAP00035	•	
0,2	WHAP00215	•	WHAP00077	•	WHAP00028	•	WHAP00036		
0,5	WHAP00142		WHAP00076	•	WHAP00029		WHAP00037		
1	WHAP00006	•	WHAP00017		WHAP00030	•	WHAP00038	•	
2	WHAP00007		WHAP00018		WHAP00031		WHAP00039		

mm	50 30		60 40		70 50		80 60	
mm								
2,5	WHAP01210	•	WHAP01649	•	WHAP00437	•	WHAP01612	•
3	WHAP00141	•	WHAP08150	•	WHAP00032	•	WHAP00040	•
4	WHAP08149		WHAP02731	•	WHAP06546	•	WHAP03164	•
5	WHAP00008	•	WHAP00019	•	WHAP00033	•	WHAP00041	•
10	WHAP00009	•	WHAP00020	•	WHAP00034	•	WHAP00042	•

PD-01 Spacer ring made from hard steel, with pinholes, designed for tool positioning and regulating width of sets of tools. Used for sets of cutters and cutter heads assembled with screws. Width regulation involves adding or removing spacers of given thickness.

Designed for: sets of cutters or cutter heads - screwed together.

D mm d mm D1 mm	60 30 45		70 40 55		80 50 65		Dmm dmm D1 mm	60 30 45		70 40 55		80 50 65	
Bmm							Bmm						
0,1	WHAP07722	•	WHAP06708	•	WHAP08134	•	2,5	WHAP08156	•	WHAP08151	•	WHAP08153	•
0,2	WHAP05012	•	WHAP01900		WHAP08133		3	WHAP08157		WHAP06921		WHAP08154	
0,5	WHAP05013	•	WHAP05005	•	WHAP05000	•	4	WHAP08158	•	WHAP08152	•	WHAP08155	•
1	WHAP05014	•	WHAP05006	•	WHAP05001		5	WHAP05016	•	WHAP05008	•	WHAP05003	•
2	WHAP05015		WHAP05007	•	WHAP05002		10	WHAP05017		WHAP05009		WHAP05004	

Spacer rings with pinholes for hydro sleeves on page 9.24.

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