

SAW BLADES ▪ KNIVES ▪ CUTTERS



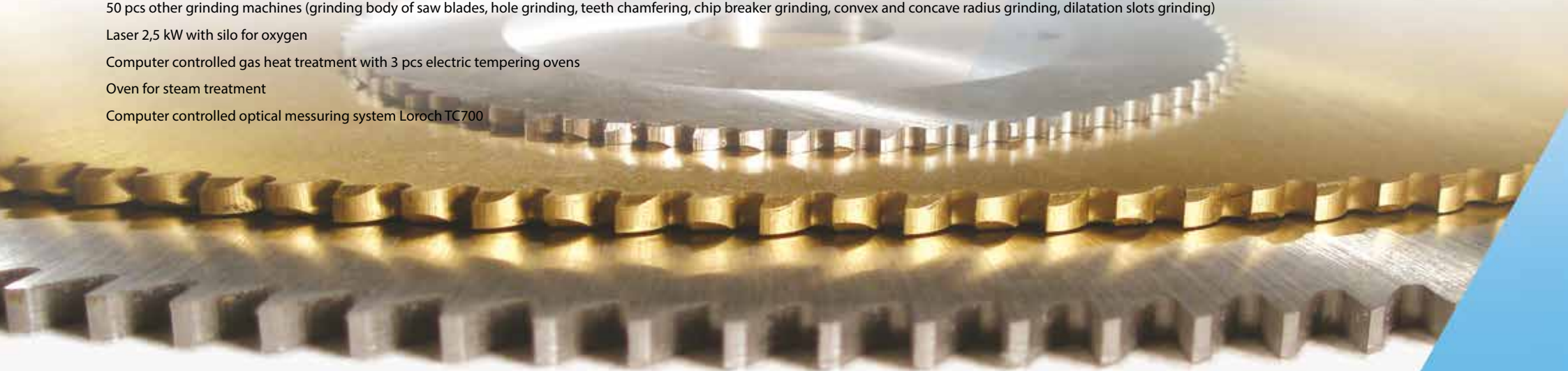
GSP - High Tech Saws, s.r.o., resident in Zborovce, is a traditional cutting tools producer. The beginnings of the manufacture date back to the year 1948 when the Pilana company established its branch there and started producing metal cutting circular saw blades from the very beginning.

All produced tools were delivered under the name PILANA until 1992 and are now known as GSP- High Tech Saws. The logo change reflects our change of customer service strategy. We have evolved from a mass supplier of standard tools to the supply of specialized tools (in small quantities) in accordance with market needs.

We believe that you as our client will benefit from our company mission of non-standard tools production.

Some figures

- 85 % of the production is destined for export
- 85 employees
- Turnover 5 mil USD
- Annual production:
 - 300 000 pcs saw blades
 - 20 000 pcs circular knives
 - 600 000 other small cutting tools
- 14 pcs CNC machines for grinding teeth of saw:
 - 2 pcs Junker NAJ
 - 2 pcs Anca TX7
 - 6 pcs Loroach Solution
 - 2 pcs Loroach KBN
 - 2 pcs EYAN
- 10 pcs grinding machines for bevel of circular knives (Göckel RB5, Heald 361, Heald 261, Göckel RH60 with CNC loader and automatic measurement system)
- 50 pcs other grinding machines (grinding body of saw blades, hole grinding, teeth chamfering, chip breaker grinding, convex and concave radius grinding, dilatation slots grinding)
- Laser 2,5 kW with silo for oxygen
- Computer controlled gas heat treatment with 3 pcs electric tempering ovens
- Oven for steam treatment
- Computer controlled optical measuring system Loroach TC700



Kinds of used steel

Our main suppliers are companies: Böhler-Uddeholm, Lohmann, Bestar.

HSS/Dmo5 - DIN: 1.3343 - AISI: M2 - JIS: SKH 51

Typical chemical composition in %						
C	Si	Mn	Cr	Mo	V	W
0,90	0,25	0,3	4,1	5,0	1,8	5,4

HSS/Emo5 - DIN: 1.3243 - AISI: M35 - JIS: SKH 55

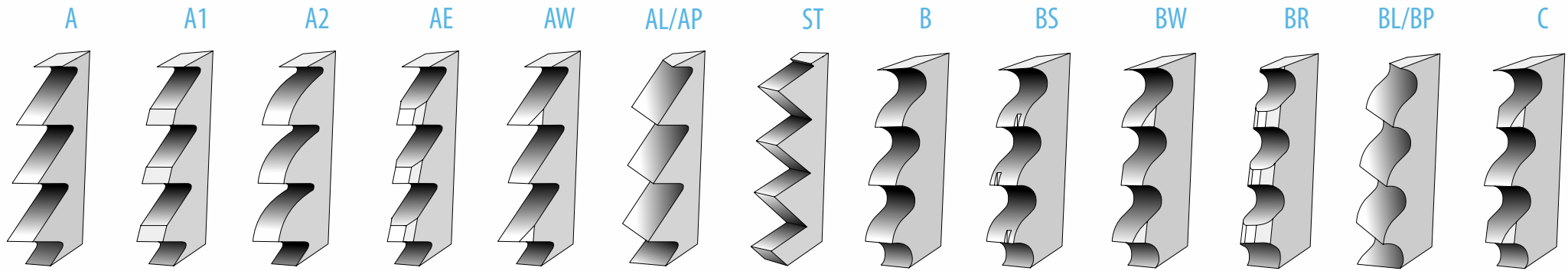
Typical chemical composition in %							
C	Si	Mn	Cr	Mo	V	W	Co
0,90	0,4	0,3	4,1	5,0	1,9	6,4	4,8


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Tooth forms and cutting geometry

Circular saws are supplied with the following kinds of tooth form.



The tooth forms A, B, BW, BS and C can be also designed as a VARIO tooth form. VARIO tooth form is noted for a irregular tooth pitches in the groups of 4, 6 or 8 teeth. Other tooth forms can be also designed up to instructions of the end user (facets, chamfers, side clearance).

Standard geometry of circular saws					
Type of material	Strength N/mm ²	Cutting (rake) angle	Clearance angle	Feed per teeth mm/T	Circumferential Speed
Steel 50 kg/mm ²	350 - 500	18°	10°	0,04 - 0,08	30 - 40
Steel 75 kg/mm ²	500 - 750	18°	10°	0,03 - 0,07	25 - 35
Steel 100 kg/mm ²	750 - 1000	15°	8°	0,02 - 0,06	15 - 25
Cast irons	100 - 400	10°	6°	0,03 - 0,05	20 - 30
Stainless Steel	500 - 800	14°	10°	0,02 - 0,06	15 - 25
Cooper	200 - 400	20°	10°	0,04 - 0,06	200 - 300
Brass	200 - 400	16°	16°	0,05 - 0,07	400 - 600
Aluminium Alloys	200 - 400	22°	10°	0,03 - 0,07	100 - 300





Recommended number and form of teeth for cutting of profiles and solid material.

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Whatever form of cutting edge and pin hole

Standard driving pin holes of HSS circular saw blades

Central hole	Driving pin holes
ø mm	Number/Diameter/Position
32	2/8/45 - 2/9/50 - 2/11/63
40	2/8/55 - 4/12/64
50	4/15/80 - 4/14/85



Technical features of coating						
Coating type	Surface microhardness HV	Friction coefficient Cx	Max. working temperature °C	Color	Operation	Technical recommendation
VAPO	900	0,65	550°C	blue / black	General purposes	Non PVD coating Prevention of rust Side friction reduction
TIN	2800	0,40	550°C	gold	Structural steel Alloyed steels Steel pipes and profiles Pipes and profiles from non ferrous metals	Raising of the coating hardness by reducing the friction Universal coating for better saw blade lifetime 50 -100% higher speed and feed rates Prevention of side pick-ups
TIALN	3500	0,50	800°C	purple / black	Very hard steels Non ferrous steels Titanium alloys Aluminum silicum cast alloys Copper and brass	Low-friction coefficient and high surface hardness Good saw blade lifetime at high cutting temperature Especially for drycutting or by insufficient cooling
TICN	3700	0,20	400°C	blue / gray	Stainless steels Hard steels Titanium alloys	Multi-layer coating with extreme low friction coefficient and also with high surface hardness Over 100% higher cutting and feed rates when sawing stell tubes and profiles
CRN	1800	0,30	700°C	metalic-gray	Non ferrous metals Aluminum Copper and brass and similar alloys	Good saw blade life because of high surface hardness Good surface finish without side pick-ups due to smooth coating surface

Circular saw blades from HSS/Dmo5 and HSS/Emo5 for cutting-off machines

D	dH7	Flange	T3	T4	T5	T6	T7	T8	T9	T10	T12	T13	T14	T16
mm	mm	mm	BW	BW	C	C	C	C	C	C	C	C	C	C
200 x 1,0	32	100	200	160	130	100		80						
200 x 1,2	32	100	200	160	130	100		80		64				
200 x 1,5	32	90	200	160	130	100		80		64				
200 x 1,6	32	90	200	160	130	100		80		64				
200 x 1,8	32	90	200	160	130	100		80		64				
200 x 2,0	32	90	200	160	130	100		80		64				
200 x 2,5	32	90	200	160	130	100		80		64				
210 x 2,0	32	100	210	160	130	110		80						
225 x 1,2	32	90	220	180	140	120		90	80					
225 x 1,5	32	90	220	180	140	120		90	80					
225 x 1,6	32	90	220	180	140	120		90	80					
225 x 1,8	32/40	90	220	180	140	120		90	80					
225 x 2,0	32/40	90	220	180	140	120		90	80					
225 x 2,5	32	90	220	180	140	120		90	80					
250 x 1,0	32	100	250	200	160	128	110	100		80	64			
250 x 1,2	32	100	250	200	160	128	110	100		80	64			
250 x 1,5	32	100	250	200	160	128	110	100		80	64			
250 x 1,6	32	100	250	200	160	128	110	100		80	64			
250 x 2,0	32/40	90	250	200	160	128	110	100		80	64			
250 x 2,5	32/40	90	250	200	160	128	110	100		80	64			
250 x 3,0	32	90	250	200	160	128	110	100		80	64			
275 x 1,6	32	100	280	220	180	140	120	110		90				
275 x 2,0	32/40	100	280	220	180	140	120	110		90				
275 x 2,5	32/40	90	280	220	180	140	120	110		90				
275 x 3,0	32/40	90	280	220	180	140	120	110		90				
300 x 1,6	32/40	100	300	220	180	160	140	120		94	80			
300 x 2,0	32/40	100	300	220	180	160	140	120		94	80			
300 x 2,5	32/40	90	300	220	180	160	140	120		94	80			
300 x 3,0	32/40	90	300	220	180	160	140	120		94	80			
315 x 1,6	32/40	100	300	240	200	160	140	120		100	80	70		

D	dH7	Flange	T3	T4	T5	T6	T7	T8	T9	T10	T12	T13	T14	T16
mm	mm	mm	BW	BW	C	C	C	C	C	C	C	C	C	C
315 x 2,0	32/40	100	300	240	200	160	140	120		100	80	70		
315 x 2,5	32/40	100	300	240	200	160	140	120		100	80	70		
315 x 3,0	32/40	100	300	240	200	160	140	120		100	80	70		
315 x 3,5	32/40	100	300	240	200	160	140	120		100	80	70		
325 x 2,0	32/40	100	320	250	200	170		128		100	80			
325 x 2,5	32/40	100	320	250	200	170		128		100	80			
325 x 3,0	40	100	320	250	200	170		128		100				
400 x 2,5	40/50	120		310	250	200		160		120	110	90		70
400 x 3,0	40/50	120		310	250	200		160		120	110	90		70
400 x 3,5	40/50	120		310	250	200		160		120	110	90		70
400 x 4,0	50	120		310	250	200		160		120	110	90		70
425 x 2,5	40/50	120		320	260	220		160		130	110		80	70
425 x 3,0	40/50	120		320	260	220		160		130	110		80	70
425 x 3,5	50	120		320	260	220		160		130	110		80	70
425 x 4,0	50	120		320	260	220		160		130	110		80	70
450 x 2,5	40/50	130		350	280	230		180		140	120		90	80
450 x 3,0	40/50	130		350	280	230		180		140	120		90	80
450 x 3,5	40/50	130		350	280	230		180		140	120		90	80
450 x 4,0	40/50	130		350	280	230		180		140	120		90	80
500 x 3,0	40/50	130			310	260		200		160	130	110	100	90
500 x 3,5	40/50	130			310	260		200		160	130	110	100	90
500 x 4,0	40/50	130			310	260		200		160	130	110	100	90
500 x 5,0	40/50	130			310	260		200		160	130	110	100	90
525 x 3,5	50	130		410	330	270		210		164	140	110	104	90
525 x 4,0	50	130		410	330	270		210		164	140	110	104	90
550 x 4,0	90	140		440	340	280		220		170	140	120	110	90
550 x 5,0	50	140		440	340	280		220		170	140	120	110	90
600 x 4,0	50	150		460	380	320		240		190	160	130	120	100
600 x 5,0	50	150		460	380	320		240		190	160	130	120	100

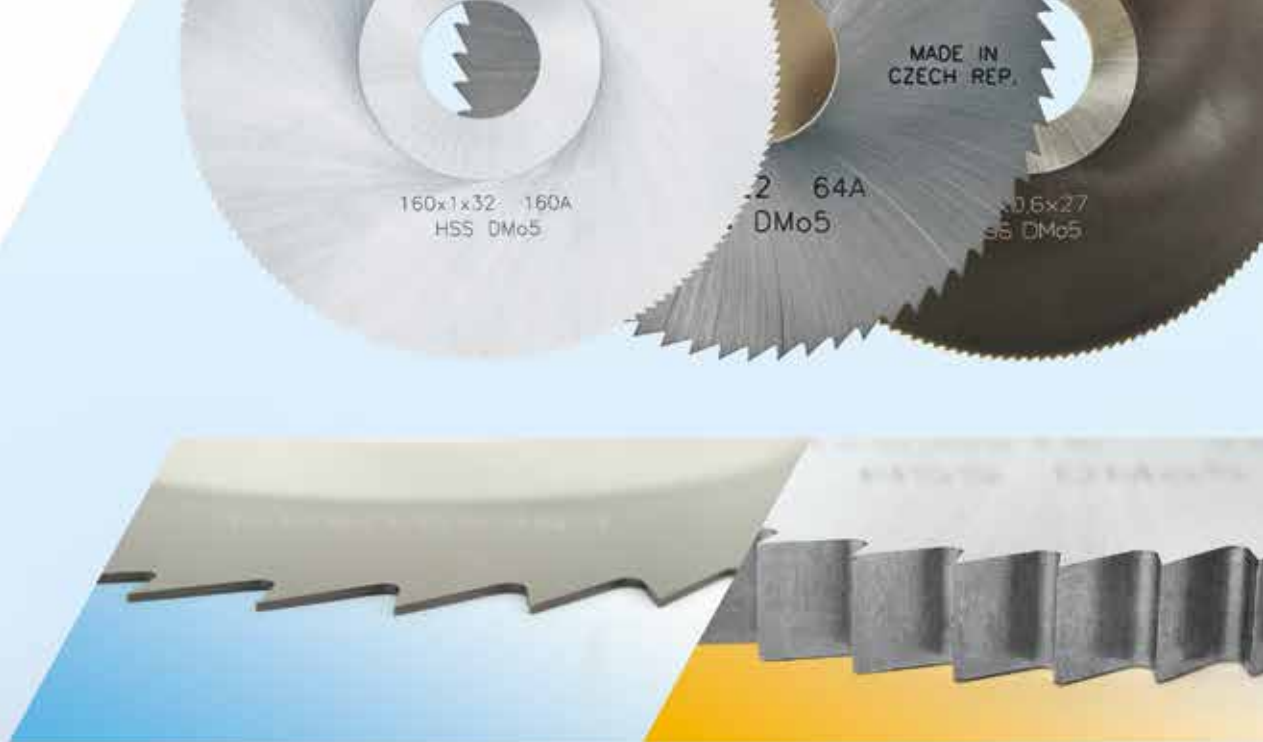


Slitting saw blades DIN 1837 - fine teeth

Circular saw blades DIN 1837 A with fine teeth and teeth form A are recommended for slotting the fragile and hard materials. The teeth form A is suitable especially on the thin saw blades with tooth pitch from 0,8 mm to 3,0 mm. The cutting edge is very sharp. The chip clearance is reduced and it cannot remove longer chips away from the cutting area efficiently. In standard modification the slitting saw blades are made with hollow ground. They can be ordered with driving pin holes or with groove and teeth form AW (the teeth form A with alternate chamfering).

Circular saw blades DIN 1837 - fine teeth

D (mm)	20	25	32	40	50	63	80	100	125	160	200	250	315
dH7 (mm)	5	8	8	10	13	16	22	22	22	32	32	32	40
B (mm)	Number of teeth												
0,20 mm	80	80	100	128	128								
0,25 mm	64	80	100	100	128	160							
0,30 mm	64	80	80	100	128	128	160						
0,40 mm	64	64	80	100	100	128	160						
0,50 mm	48	64	80	80	100	128	128	160					
0,60 mm	48	64	64	80	100	100	128	160	160				
0,80 mm	48	48	64	80	80	100	128	128	160				
1,00 mm	40	48	64	64	80	100	100	128	160	160	200		
1,20 mm	40	48	48	64	80	80	100	128	128	160	200		
1,60 mm	40	40	48	64	64	80	100	100	128	160	160	200	
2,00 mm	32	40	48	48	64	80	80	100	128	128	160	200	
2,50 mm	32	40	40	48	64	64	80	100	100	128	160	160	200
3,00 mm	32	32	40	48	48	64	80	80	100	128	128	160	200
4,00 mm	24	32	40	40	48	64	64	80	100	128	128	160	160
5,00 mm	24	32	32	40	48	48	64	80	80	100	128	128	160
6,00 mm	24	24	32	40	40	48	64	64	80	100	100	128	160



Circular saw blades DIN 1838 - coarse teeth

Circular saw blades for metal DIN 1838 B with rough teeth and teeth form B are recommended especially for cutting-off steels. In comparison with teeth form A they have much bigger chip clearance and they enable bigger cut. In standard modification the saw blades are made with hollow ground. They can be ordered with teeth form BW (the teeth form B with alternate chamfering).

Circular saw blades DIN 1838 - rough teeth

D (mm)	20	25	32	40	50	63	80	100	125	160	200	250	315
dH7 (mm)	5	8	8	10	13	16	22	22	22	32	32	32	40
B (mm)	Number of teeth												
0,50 mm					48	64	64	80					
0,60 mm					48	48	64	80	80				
0,80 mm					40	48	64	64	80				
1,00 mm					40	48	48	64	80	80			
1,20 mm					40	40	48	64	80	100			
1,60 mm					32	40	48	48	64	80	80	100	
2,00 mm					32	40	40	48	64	64	80	100	
2,50 mm					32	32	40	48	64	64	80	80	100
3,00 mm					24	32	40	40	48	64	64	80	100
4,00 mm					24	32	32	40	48	48	64	80	80
5,00 mm					24	24	32	40	40	48	64	64	80
6,00 mm					20	24	32	32	40	48	48	64	80



Imperial Sizes and Pipe Slotting Blades

Slitting saws - fine pitch

Pipe slotting saw blades are used in multi-spindle milling machines to produce slotted pipe for drilling heavy oil. Blades are designed to produce either straight or keystone slots. Most popular O.D. of blades are 3"; 3 1/4"; 3 1/2"; 4". The central hole is usually 1" without keyway.

Slitting saws - fine pitch															
D (")	2 1/2"	3"	3 1/2"	4"	4"	4 1/2"	4 1/2"	5"	6"	6"	7"	7"	8"	8"	10"
dH7 (")	1"	1"	1"	1"	1"	1 1/4"	1"	1"	1 1/4"	1 1/4"	1"	1 1/4"	1"	1 1/4"	1"
B (")	number of teeth														
1/64"	62	74	100	100	100										
1/32"	62	74	88	100	100			124	150						
3/64"	62	74	88	100	100			124	150						
1/16"	62	74	88	100	100			124	150		176	176	200	200	250
5/64"	62	74		100	100			124	150		176	176	200	200	250
3/32"	62	74		100	100	112	112	124	150		176	176	200	200	250
7/64"	62			100	100	112	112	124	150		176	176	200	200	250
1/8"	62	74		100	100	112	112	124	150	150	176	176	200	200	250
5/32"	62	74		100				124	150	150	176	176			
3/16"	62	74		100				124	150	150	176	176			
7/32"	62	74		100				124	150	150		176			
1/4"	62	74		100				124	150	150					

Slitting saws - coarse pitch

Used for medium deep cutting and cut-off operations.

Slitting saws - coarse pitch, tooth from A or B																	
D (")	2 1/2"	3"	3 1/2"	4"	4"	4 1/2"	5"	5"	6"	6"	7"	7"	8"	8"	10"	10"	12"
dH7 (")	1"	1"	1"	1"	1 1/4"	1"	1"	1"	1 1/4"	1 1/4"	1"	1 1/4"	1"	1 1/4"	1"	1 1/4"	1"
B (")	number of teeth																
1/64"	26	30															
1/32"	26	30	32	36		38	40		44	44							
3/64"	26	30	32	36		38	40		44	44							
1/16"	26	30	32	36	36	38	40	40	44	44	48		52	52	62	62	
5/64"	26	30	32	36	36	38	40	40	44	44	48	48	52	52	62	62	
3/32"	26	30	32	36	36	38	40	40	44	44	48	48	52	52	62	62	
7/64"	26	30	32	36	36		40	40	44	44	48	48	52	52	62	62	
1/8"	26	30	32	36	36		40	40	44	44	48	48	52	52	62	62	70
5/32"	26	30	32	36	36		40		44	44	48	48	52	52	62		70
3/16"	26	30	32	36	36		40		44	44	48	48	52	52	62		70
7/32"	26	30	32	36	36		40		44	44	48	48	52	52	62		
1/4"	26	30	32	36			40		44	44		48	52	52	62		

Circular saw blades for screw-slotting

Circular saw blades from material HSS/Dmo5 used for slotting screw heads. These saw blades are made without hollow ground. Standard modification is without surface coating but ordering with VAPO or other PVD coatings is possible.

Circular saw blades for screw-slotting saws														
Diameter (mm)	Central hole (mm)	Thickness/ Teeth Nr., Tooth form A												
		0,7	0,8	0,9	1,0	1,1	1,2	1,3	1,4	1,5	1,6	1,7	1,8	2,0
80	22	48	48	48	48	48	48	48	48	48	48	48	48	48
100	22	64	64	64	64	64	64	64	64	64	64	64	64	64
125	22	64	64	64	64	64	64	64	64	64	64	64	64	64

Circular saw blades for jewellery

Circular saw blades from material HSS/Dmo5 for jewellery production. These saw blades are made with tooth form A. The teeth pitch is finer than 1 mm which enables very precise work.

Circular saw blades for jewellery																
Diameter (mm)	Central hole (mm)		Flange (mm)	Thickness/ Teeth Nr., Tooth form A												
				0,15	0,2	0,25	0,3	0,35	0,4	0,45	0,5	0,6	0,7	0,8	0,9	1,0
40	8	10	18	140	140	140	140	140	140	140	140	140	140	140	140	140
50	8	10	25		180	180	180	180	180	180	180	180	180	180	180	180
63	8	10	32		200	200	200	200	200	200	200	200	200	200	200	200



Circular saw blades for tube cutting

Circular saw blades made from HSS/Dmo5 and mainly HSS/Emo5 (alloyed with cobalt) are suitable for tube-cutting machines GF and AXXAIR. They are used for cutting tubes from all types of material. In standard modification the teeth geometry is made for stainless tube-cutting. It is possible to make them with teeth geometry for aluminium, copper, brass and unalloyed steels. The saw blades are made with hollow ground and flange and teethform BW. Standard modification is without surface coating, but ordering with coating is possible.

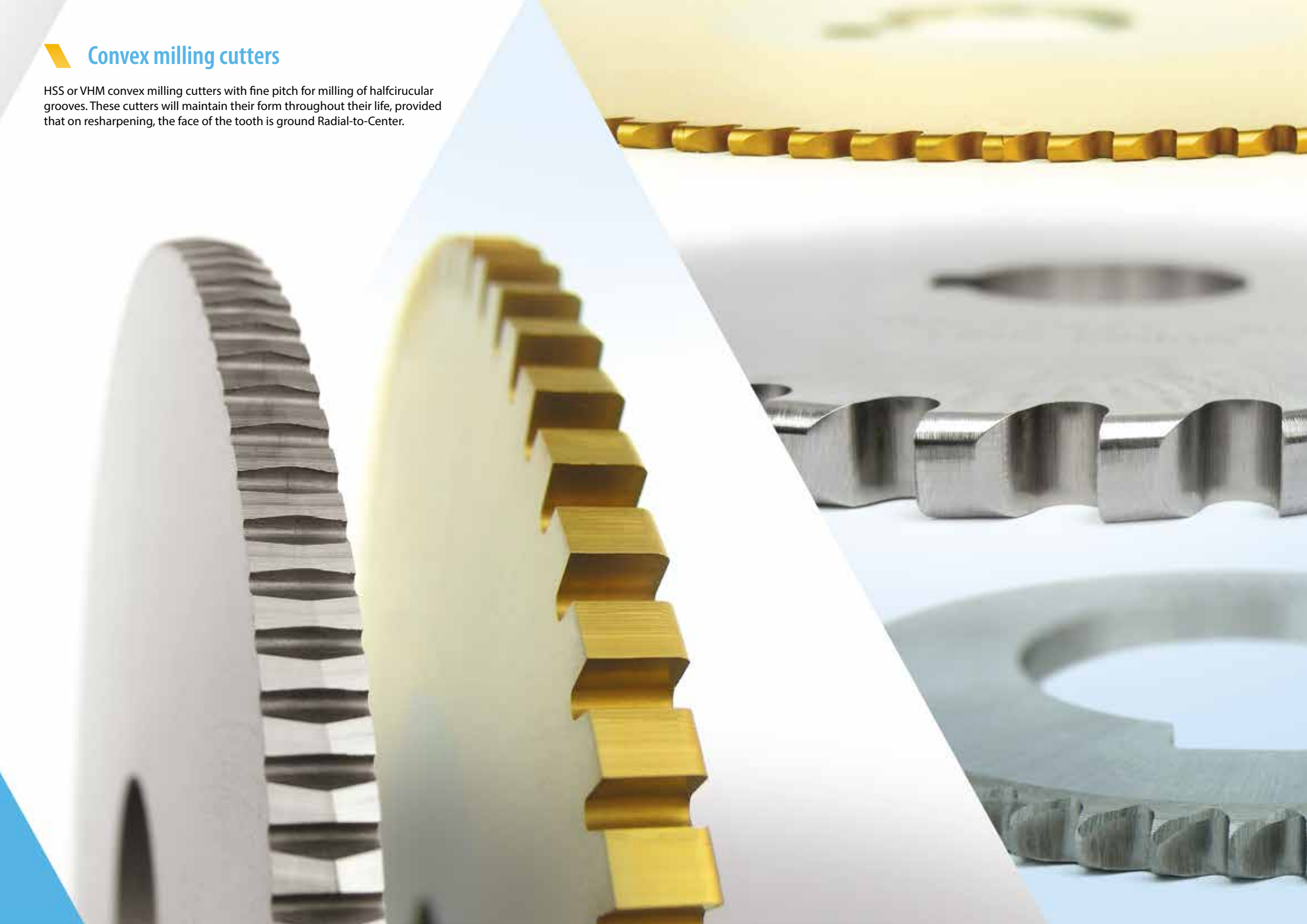
Circular saw blades for tube cutting - most popular dimensions

Diameter	Central hole	Flange	Thickness/Teeth Nr., Tooth form BW							
(mm)	(mm)	(mm)	1,6	1,6	1,6	1,6	1,6	1,8	2,0	2,0
63	16	36		44	64	80	84		72	
68	16	42	32	44	64	72	84		44	
75	16	42							20	32
80	16	42						64		



Convex milling cutters

HSS or VHM convex milling cutters with fine pitch for milling of halfcircular grooves. These cutters will maintain their form throughout their life, provided that on resharpening, the face of the tooth is ground Radial-to-Center.



Single angle milling cutters - left, right and Equal angle milling cutters

The milling cutters with a diameter 50 mm - 160 mm are made on demand. Clients may determine the following parameters:

- \\ diameter
- \\ central hole
- \\ keyway
- \\ thickness of cut
- \\ teeth number
- \\ tooth shape
- \\ cutting angles on tooth edges
- \\ radius on the top

HSS or VHM angle milling cutters - left or right execution. These cutters are usually used together with a saw blade for the main cut. The cutters set on the main saw blade clean burrs and cut the required bevel into the material. Typical application of this tool is cutting and beveling of PVC profiles for window and door production. Machines Wegoma, Haffner, Rotox, Striffler, Pertichi etc.



Friction saw blades for metal cutting

Friction saw blades are used for cutting of steel tubes and profiles by low working temperature, it means by material temperature up to 250°C. They are made from chrom-vanadium steel (DIN 1.2235) and they are heat-treated to reach the optimum ratio of tenacity and hardness, which is suitable for cutting of material with high circumferential cutting speed. The cutting principal consists in melting of material in cut place caused by special kind of teeth. GSP - High Tech Saws, s.r.o. can manufacture these tools with hollow ground. Choice of flange diameter, number of teeth, central bore diameter, thickness, driving holes number and diameter is possible. Friction saw blades for metal cutting from material DIN 1.2604 can be manufactured on request.

Technical characteristics of Friction saw blades

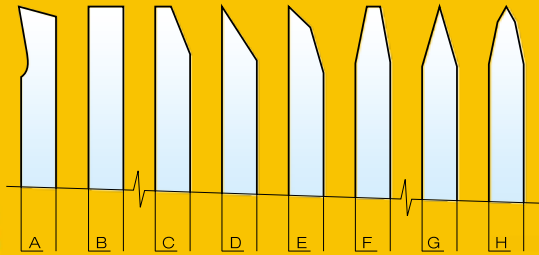
Cutting angle	Hardness	Cutting speed	Feed rate of tooth
" ° "	HRC	m/s	mm / toth
0°	46 - 48	70 - 150	0,003 - 0,005

Alpha Cutters

The cut-off knives for cutting profiles and tubes from carbon, low-alloyed and stainless steels. The cutting effect is achieved by combination of high pressure and high speed. Burrfree cut of highest precision is achieved and the cut profile is free of deformation. Very short cutting times enable using these tools not only in stationary machines, but also in production lines during continuous cutting. In standard modification Alpha Cutters are made with PVD coating to prolong their lifetime, decrease friction coefficient and to avoid cool surfacing. These tools aren't standardized at all, that's why they are always tailored. For making the offer sending the drawing or sample is enough.

HSS circular knives

In the product range of GSP - High Tech Saws, s.r.o. are also high-efficient cutting industrial knives manufactured on request which are generally known as circular knives. These rotary knives are used not only for cutting rubber, leather, paper, isolation materials and plastics, but also non-ferrous metals and steel. Cutting edges of these industrial knives are various according to the kind of cut material. Following survey shows particular variants.

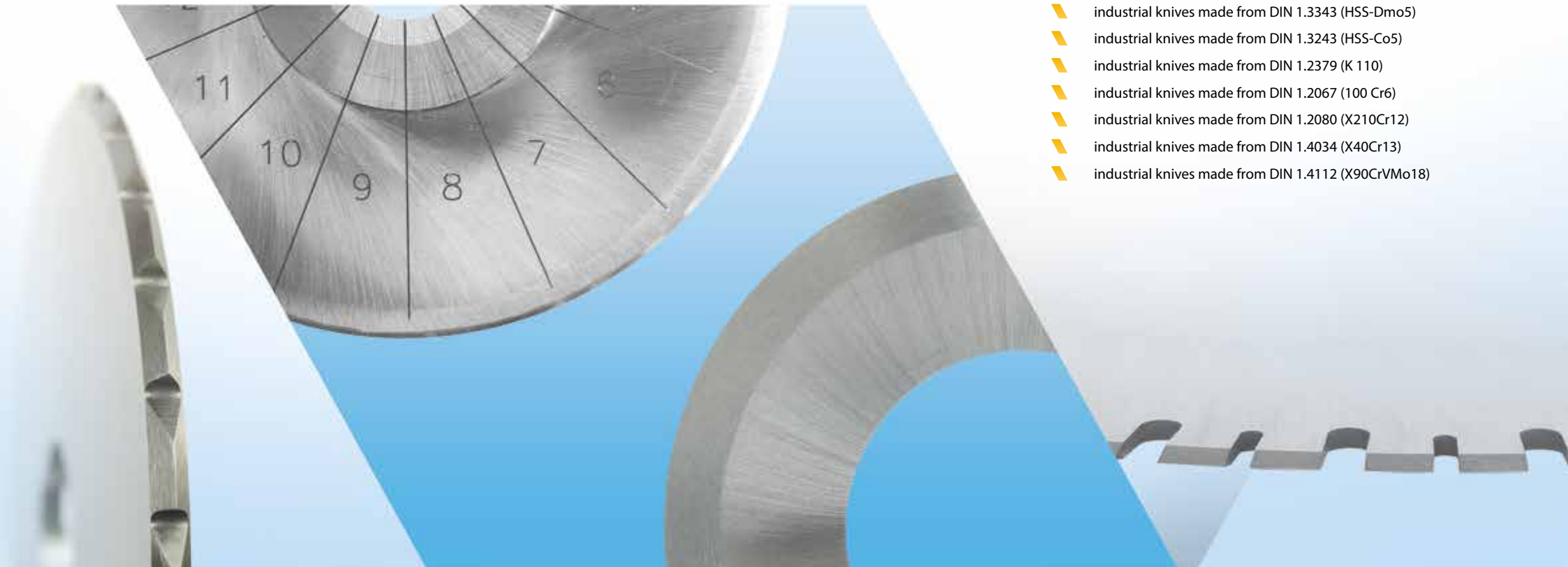


A	single bevel sharp with undercut		
B	square edge	DIN 1.3343	(HSS-Dmo5)
C	single bevel blunt	DIN 1.3243	(HSS-Co5)
D	single bevel sharp	DIN 1.2379	(K 110)
E	double single bevel	DIN 1.2067	(100 Cr6)
F	double bevel blunt	DIN 1.2080	(X210Cr12)
G	double bevel sharp	DIN 1.4034	(X40Cr13)
H	double double bevel	DIN 1.4112	(X90CrVMo18)



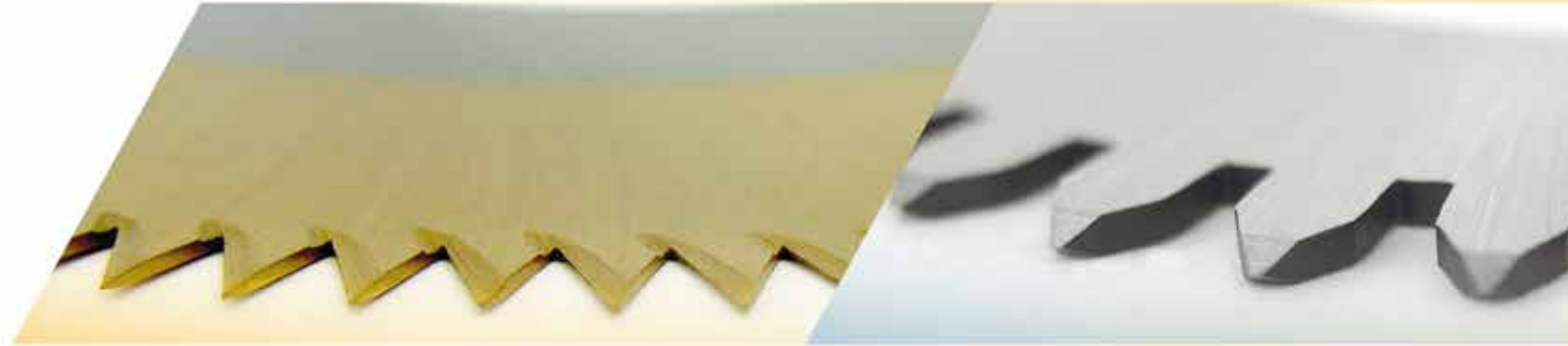
The cutting edge industrial knife is not interrupted in the standard modification. It can be equipped with teeth similar to the teeth used on HSS circular saw blades for metal cutting or with quite specific tooth forms. Circular knives without teeth but circular knives with grooves, or circular knives with ripples on the cutting edge can be manufactured too. Usually manufactured from the following kinds of steel:

- industrial knives made from DIN 1.3343 (HSS-Dmo5)
- industrial knives made from DIN 1.3243 (HSS-Co5)
- industrial knives made from DIN 1.2379 (K 110)
- industrial knives made from DIN 1.2067 (100 Cr6)
- industrial knives made from DIN 1.2080 (X210Cr12)
- industrial knives made from DIN 1.4034 (X40Cr13)
- industrial knives made from DIN 1.4112 (X90CrVMo18)



According to their various purpose of using our circular knives are heat-treated to hardness 56 - 64 HRC. In standard modification our circular knives are manufactured without surface treatment; some of our rotary knives can be treated with PVD coatings (e.g. TIN, TiCN or TiAlN) or with teflon. This teflon stratum can prolong knife's life and can improve the cut quality. The circular knives are manufactured from diameter 20 mm to 600 mm. These tools are manufactured only on request. Please, specify the following data in your inquiries or orders:

- ▶ diameter
- ▶ thickness
- ▶ central bore diameter
- ▶ driving pin holes diameter, number and pitch
- ▶ kind of material which should be used
- ▶ cutting edge variant
- ▶ cutting geometry
- ▶ cutting edge length
- ▶ kind of cut material



If these rotary knives are used in grocery (e.g. production of tinned vegetables or circular knives for cutting of deep-frozen products like fish, circular knives for meat etc.) such circular knives are manufactured from stainless steel. We offer you our experience and know-how to help you select the suitable circular knife. We believe you'll be satisfied with the final product manufactured according to your ideas and needs.

▶ Hydraulic hose knives and rubber cutting knives

Hydraulic hose knives are specially designed for cutting wire reinforced hydraulic, metal, teflon, plastic and industrial rubber hose, good for vehicle sealing systems and belts. The knives are made of HSS steel M2 (DIN 1.3343) or of CrV steel (Din 1.2235) and come in three styles - smooth beveled edge, toothed edge and edge with antifriction slots. A smooth beveled edge blade can cut clean and fast all types of hose because it creates the least amount of dust, but by hose that has a significant amount of steel wiring, the knife edge will dull quickly. The ideal applications for a smooth edge knife are cutting industrial rubber hose with no steel in it. Slotted or toothed knives are especially designed for hoses with strong steel wiring which causes high temperature during cut.






Oscillating tools

Multifunction vibrating cutting blades are applicable for cutting of various plastic and wood plates, chipboards, fibre boards, fibreglass, non-ferrous metals. The fine tooth design is excellent for undercutting wood door jambs, drywall and plastic up to 50 mm deep. It is possible to easily plunge at any point in the cut material. The hardness 60-64 HRC allows cutting steel sheets up to thickness 1 mm. The various fixing pin holes and tooth forms are made up to instruction of client. The blades are made in high alloyed HSS steel. GSP vibrating tools are made in thickness 0,65 mm unlike the competitors' blades that are only 0,5 mm thick. The rigidity of the GSP blades has no competitor.



Knurling wheels

Cutting or forming knurling wheels made according to customer requirements are produced from HSS steel, hardened to 64 HRC:

-  Corner forming wheel
-  Cutting knurling wheels
-  Forming knurling Wheel

The use of cutting knurling wheels is recommended for shortcutting materials such as brass, bronze, casting, aluminum alloys, plastics as well as materials with high firmness. The cutting wheel has sharp-edged teeth. In order to machine the part by cutting, the wheel has to be at an angle to the axis of rotation.



The company GSP - High Tech Saws, s.r.o. is certified for the quality management system ISO 9001 : 2008 for design, development and manufacturing of saw blades for metal cutting and circular knives including their sharpening.





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