

Bi-Metal Band Saw Blades

Made in Czech Republic

ABOUT US



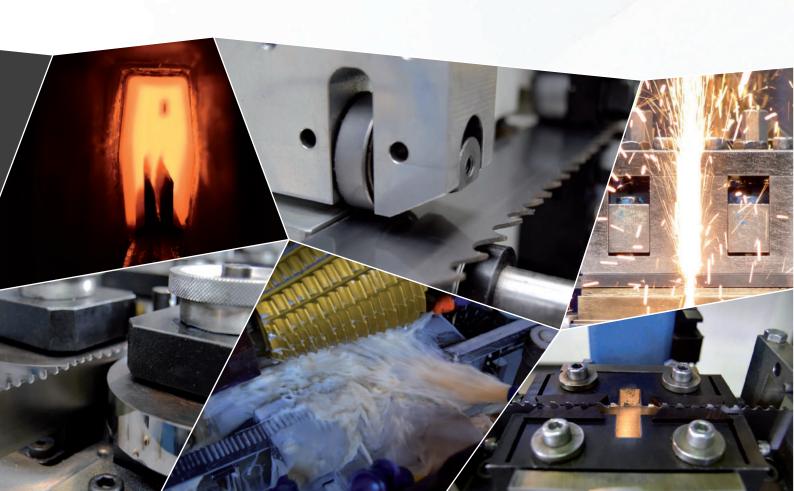
Over 80 years of experience in cutting tools production. The manufacturing of cutting tools began in Hulin in the year of 1934. Its founder, Josef Studenik, named his company "The First Moravian Factory For Saws and Tools". Since then, our company is participating in the development of the cutting tools for worldwide applications.

The most up-to date production of bimetal bandsaw blades. In line with global trends, in the year of 2012 PILANA METAL built a completely new plant producing bi-metal band saw blades for metal cutting. The production line is equipped with the best European technologies. Only the bimetal coils produced in Western Europe are used for the manufacturing of our tools.

High and stable quality with quick delivery. Our technology allows us to guarantee both high quality tools as well as very short delivery times to our customers. Our own welding service, which is a part of the production plant, produces more than 300 welded loops of band saw blades every day.

We export to the whole world. Our tools are used in many European countries. Our band saw blades supplied in coils are exported to more than 50 countries worldwide.

Technical advice! Try our new tools. Our team is ready to provide all ourcustomers and dealers with full technical support and service. We firmly believe you will be fully satisfied.



EXPORT REGIONS WORLDWIDE







BAND CHOICE CHART

Material type	Dimension	UNIVERSAL	MASSIVE	ALUCUT	PROFILE	REGULAR	PLUS REGULAR	PLUSCUT	PROFI MASSIVE	GRINDCUT	TEMPEST
STRUCTURAL STEELS	< 70										
CASE HARDENING STEELS	80 - 350										
FREE MACHINING STEELS	> 350										
UNALLOYED TOOL STEELS	< 70										
SPRING STEELS	80 - 350										
BALL BEARING STEELS	> 350										
	< 70										
HIGH SPEED STEELS COLD-WORK STEELS	80 - 350										
COLD-WORK STEELS	> 350										
NITRIDING STEEL	< 70										
HEAT TREATABLE STEELS	80 - 350										
HOT-WORK STEELS	> 350										
	< 70										
STAINLESS STEELS	80 - 350										
	> 350										
	< 70										
HEAT RESISTANT STEELS	80 - 350										
HIGH TEMPERATURE STEELS	> 350										
HIGH-STRENGTH STEEL	< 70										
TITANIUM AND TI ALLOYS	80 - 350										
NICKEL ALLOYS	> 350										
	< 70										
CAST STEEL	80 - 350										
CAST IRON	> 350										
	< 70										
ALUMINIUM	80 - 350										
COPPER	> 350										
BRASS	< 70										
BRONZE	80 - 350										
RED BRASS	> 350										
ALUMINIUM BRONZES	< 70										
ALUMINIUM ALLOYS	80 - 350										
HIGH SILICON CONTENT	> 350										







Solid material



Constant tooth pitch		Variable tooth Pitch			
Material cross section [mm]	TPI	Material cross section [mm]	TPI		
380 - 700	1,25	> 550	0,75/1,25		
200 - 400	2	300 - 600	1,4/2		
120 - 200	3	120 - 350	2/3		
80 - 120	4	80 - 160	3/4		
50 - 80	6	60 - 110	4/6		
30 - 50	8	40 - 70	5/8		
20 - 30	10	30 - 60	6/10		
10 - 20	14	20 - 40	8/12		
< 10	18	< 20	10/14		

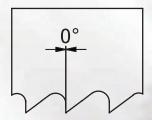
Cutting recommendation for steel tubes and profiles



Wall		Outer diameter [mm]								
thickness (mm)	20	40	60	80	100	120	150	200	300	500
2	14	14	10/14	10/14	10/14	8/12	8/12	8/12	6/10	6/10
3	14	10/14	10/14	10/14	8/12	8/12	8/12	6/10	6/10	5/8
4	10/14	10/14	10/14	8/12	8/12	8/12	6/10	6/10	5/8	5/8
5	10/14	10/14	8/12	8/12	8/12	6/10	6/10	5/8	5/8	4/6
6	10/14	8/12	8/12	8/12	6/10	6/10	5/8	5/8	4/6	4/6
8	10/14	8/12	6/10	6/10	5/8	5/8	5/8	4/6	4/6	4/6
10		6/10	6/10	5/8	5/8	5/8	4/6	4/6	4/6	4/6
15		6/10	5/8	5/8	5/8	4/6	4/6	4/6	4/6	4/6
20			4/6	4/6	4/6	4/6	4/6	4/6	4/6	4/6
30				4/6	4/6	4/6	4/6	3/4	3/4	3/4
50						3/4	3/4	3/4	2/3	2/3
80							3/4	2/3	2/3	2/3
100								2/3	2/3	1,4/2

M 42 UNIVERSAL







IDEAL BAND SAW BLADE FOR SMALL SOLID MATERIAL AND MEDIUM WALL- THICKNESS TUBES

Application:

- Profiles with thin or medium wall thickness
- Short-chipping material
- · Single as well as bundle cutting
- Carbon and alloyed steels
- · Non-ferrous metals

Characteristics:

- 0° rake angle
- Variable TPI
- M42 HSS teeth tips
- Hardness up to 68 HRC
- Excellent life time expectancy

Dimensions	TPI - teeth per inch							
mm	5/8	5/8 6/10 8/12 10/1						
6 x 0,90				V-O				
10 x 0,90				V-O				
13 x 0,65	V-O	V-O	V-O	V-O				
13 x 0,90	V-O*	V-O	V-O	V-O				
20 x 0,90	V-O	V-O	V-O	V-O				
27 x 0,90	V-O	V-O	V-O	V-O				
34 x 1,10	V-O	V-O	V-O	V-O*				
41 x 1,30	V-O	V-O						

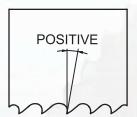
V-O = variable teeth with 0° rake angle

^{*} On request



M 42 MASSIVE







SPECIALLY DESIGNED FOR MEDIUM AND LARGE CROSS – SECTION CUTTING OF SOLID MATERIAL

Application:

- Excellent for solid rods and blocks cutting
- Single as well as bundle cutting
- Carbon steels
- Alloyed steels
- · Non-ferrous metals

Characteristics:

- Positive rake angle
- Variable TPI
- M42 HSS teeth tips
- Hardness up to 68 HRC
- Excellent life time expectancy

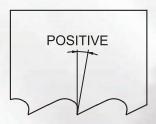
Dimensions	TPI - teeth per inch						
mm	0,75/1,25	1,1/1,6	1,4/2	2/3	3/4	4/6	
20 x 0,90						V-POS	
27 x 0,90				V-POS	V-POS	V-POS	
34 x 1,10			V-POS	V-POS	V-POS	V-POS	
41 x 1,30			V-POS	V-POS	V-POS	V-POS	
54 x 1,30		V-POS*	V-POS	V-POS	V-POS	V-POS	
54 x 1,60	V-POS	V-POS*	V-POS	V-POS	V-POS	V-POS	
67 x 1,60	V-POS	V-POS*	V-POS	V-POS	V-POS		

V-POS = variable teeth with positive rake angle

^{*} On request

M 42 ALUCUT







SPECIALLY DESIGNED FOR EASY ALUMINIUM CUTTING

Application:

- Aluminium and aluminium alloys
- Non-ferrous metals
- Solid material and profiles
- Material with residual stress and tendency to jamming

Characteristics:

- Positive rake angle
- Variable/constant TPI
- M42 HSS teeth tips
- · Hardness up to 68 HRC
- Prevents jamming

Dimensions	TPI - teeth per inch							
mm	2H	3H	4H	6Н	2/3	3/4		
10 x 0,90			POS	POS				
13 x 0,90		POS	POS	POS				
20 x 0,90		POS	POS*					
27 x 0,90	POS	POS	POS		V-POS	V-POS		
34 x 1,10	POS	POS			V-POS	V-POS		
41 x 1,30	POS*	POS*			V-POS	V-POS		

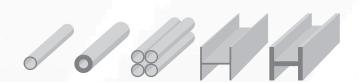
POS = regular teeth with positive rake angle

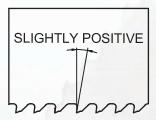
V-POS = variable teeth with positive rake angle

^{*} On request



M 42 PROFILE







BAND SAW BLADE FOR SMOOTH TUBES CUTTING

Application:

- Tubes, beams, profiles
- · Single as well as bundle cutting
- Carbon steels
- Alloyed steels

Characteristics:

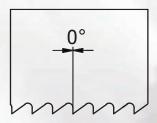
- Slightly positive rake angle
- Variable TPI
- M42 HSS teeth tips
- Hardness up to 68 HRC
- Excellent life time expectancy

Dimensions	TPI - teeth per inch						
mm	2/3	3/4	4/6	5/7	8/11		
20 x 0,90				V-POS	V-POS		
27 x 0,90		V-POS	V-POS	V-POS	V-POS		
34 x 1,10	V-POS	V-POS	V-POS	V-POS	V-POS		
41 x 1,30	V-POS	V-POS	V-POS	V-POS	V-POS		
54 x 1,30		V-POS					
54 x 1,60	V-POS	V-POS	V-POS				
67 x 1,60	V-POS	V-POS					

V-POS = variable teeth with positive rake angle

M 42 REGULAR







BAND SAW BLADE FOR SMALL CROSS-SECTION SOLIDS AND TUBES

Application:

- Tubes, beams and profiles
- · Single as well as bundle cutting
- Structural steels, unalloyed steels, carbon steels
- Non-ferous metals, HSS steels, spring steels

Characteristics:

- M42 HSS tooth tips
- 0° rake angle
- Regular teeth with constant TPI
- · Hardness up to 68 HRC
- Suitable for manual feed

Dimensions	TPl - teeth per inch							
mm	4	4 6 10 14 18						
6 x 0,90			N	N				
10 x 0,90			N	N				
13 x 0,65			N	N	N			
13 x 0,90			N*	N*	N*			
20 x 0,90	N		N	N	N			
27 x 0,90	N	N	N	N	N			

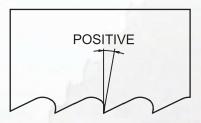
N = regular teeth with 0° rake angle

^{*} On request



M42 REGULAR PLUS





BAND SAW BLADE FOR LARGE CROSS-SECTIONS

Application:

- Large cross sections above 100mm
- Carbon steels, non-ferous metals
- Manual feed machines

Characteristics:

- M42 HSS tooth tips
- Positive rake angle
- Regular teeth with constant TPI
- Hardness up to 68 HRC

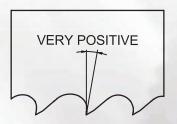
Dimensions	TPI - teeth per inch						
mm	2	3	4	6			
6 x 0,90				POS			
10 x 0,90			POS	POS			
13 x 0,65				POS			
13 x 0,90		POS	POS	POS			
20 x 0,90		POS	POS				
27 x 0,90	POS	POS	POS	POS			
34 x 1,10	POS*	POS*	POS*				

POS = regular teeth with positive rake angle

^{*} On request

M42 PLUSCUT







BAND SAW BLADE WITH EXTRA POSITIVE RAKE ANGLE

Application:

- Large cross-sections solids
- Long-chipping materials
- Stainless and acid resistant steels
- Titanium alloys
- Special bronzes
- Nickel base alloys

Characteristics:

- Extra positive rake angle
- Variable TPI
- M42 HSS teeth tips
- Hardness up to 68 HRC

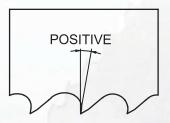
Dimensions	TPI - teeth per inch					
mm	1,4/2	2/3	3/4			
27 x 0,90			V-POS+			
34 x 1,10		V-POS+	V-POS+			
41 x 1,30		V-POS+	V-POS+			
54 x 1,60	V-POS+	V-POS+	V-POS+			

V-POS+ = variable teeth with a strongly positive rake angle



M51 MASSIVE PROFI







SPECIALLY DESIGNED FOR CUTTING SOLD MATERIALS OF LARGE CROSS-SECTIONS

Application:

- Excellent for solid rods cutting
- · Single as well as bundle cutting
- Stainless steels
- Highly Alloyed steels
- Titanium and nickel-based alloys

Characteristics:

- Positive rake angle
- Variable TPI
- M51 HSS teeth tips
- Hardness up to 69 HRC
- Extra-long lifetime expectancy

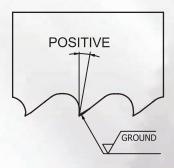
Dimensions				
mm	1,4/2	2/3	3/4	4/6
27 x 0,90		V-POS	V-POS	V-POS
34 x 1,10		V-POS	V-POS	V-POS
41 x 1,30	V-POS	V-POS	V-POS	V-POS
54 x 1,60	V-POS	V-POS	V-POS	V-POS
67 x 1,60		V-POS*		

V-POS = variable teeth with positive rake angle

^{*} On request

M51 GRINDCUT (+ TiN**)







GROUND-TEETH PROFILE FOR THE BEST CUTTING RESULTS

Application:

- Excellent for solid rods cutting
- · Single as well as bundle cutting
- Stainless steels
- Highly Alloyed steels
- Titanium and nickel-based alloys

Characteristics:

- Positive rake angle
- Variable TPI
- M51 HSS teeth tips
- Hardness up to 69 HRC
- Extra-long lifetime expectancy
- Ground teeth

Dimensions	TPI - teeth per inch					
mm	0,75/1,25	1/1,5	1,4/2	2/3	3/4	
27 x 0,90				V-POS	V-POS	
34 x 1,10				V-POS	V-POS	
41 x 1,30			V-POS	V-POS	V-POS*	
54 x 1,60		V-POS	V-POS	V-POS		
67 x 1,60	V-POS	V-POS*	V-POS*			

V-POS = variable tooth pitch with positive rake angle

^{*} On request

^{**} Optional TiN coating on request



M51 TEMPEST







PREMIUM BAND SAW BLADE FOR SUPER-ALLOYS CUTTING

Application:

- · Excellent for solid rods cutting
- Stainless steels
- Highly Alloyed steels
- Titanium and nickel-based alloys
- Special bronzes

Characteristics:

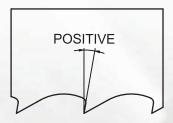
- Extra positive rake angle
- Variable TPI
- M51 HSS teeth tips
- Hardness up to 69 HRC
- Extra-long lifetime expectancy

Dimensions	TPI - teeth per inch			
mm	0,75/1,25	1/1,3	1/1,5	1,4/2
41 x 1,30				V-POS+
54 x 1,60			V-POS+	V-POS+
67 x 1,60	V-POS+	V-POS+		V-POS+

V-POS+ = variable teeth with a strongly positive rake angle



WOODCUT







BIMETAL BAND SAW BLADE FOR WOOD CUTTING

Application:

Cutting of hard, exotic or frozen wood

Dimensions	ТРІ	
mm	22,2	
34 x 0,90	10/30	
34 x 1,10	10/30	
41 x 1,10	10/30	
54 x 1,10	10/30	

10/30 = 10° rake angle, 30° clearance angle

Characteristics:

- Tooth tips made from High Speed Steel (HSS)
- · Band body is made from flexible steel
- Unique cutting performance and long life time expectancy



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