

Bi-Metal Band Saw Blades

Made in Czech Republic since 1934

EXPORT REGIONS WORLDWIDE

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.

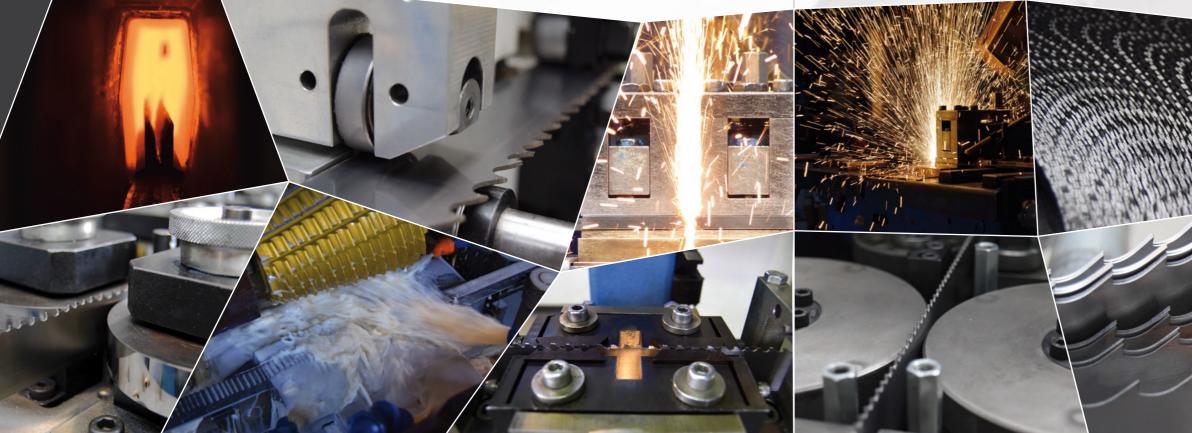
The most up-to date production of bimetal bandsaw blades. In line with global trends, in the year of 2012 PILANA METAL built a completely new plant producing bi-metal band saw blades for metal cutting. The production line is equipped with the best European technologies. Only the bimetal coils produced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









BAND CHOICE CHART

TPI CHOICE

Material type	Dimension	UNIVERSAL	MASSVIE	ΑΓΛΟΛ	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											
	< 70											
ALUMINIUM BRONZES ALUMINIUM ALLOYS	80 - 350											
HIGH SILICON CONTENT	> 350											
Exceller	nt		Excel	lent								

Good

Solid material

	Constant tooth pitch		Variable tooth Pitch				
	Material cross section [mm]	ТРІ	Material cross section [mm]	ТРІ			
	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				O	uter diam	neter [mi	n]			
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

Good

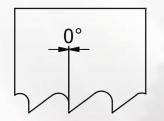






M 42 **UNIVERSAL**







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:

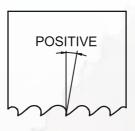
- 0° rake angle
- Variable TPI
- M42 HSS teeth tips
- Hardness up to 68 HRC
- Excellent life time expectancy

Dimensions		TPI - teeth per inch						
mm	5/8	6/10	8/12	10/14				
6 x 0,90				V-O				
10 x 0,90				V-O	ľ			
13 x 0,65	V-O	V-O	V-O	V-O				
13 x 0,90	V-0*	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

The lifetime expectancy of band saw blade can be significantly increased by controlled break-in/running-in procedure. Please set the cutting speed to 80% and feed to 50% for first 20 minutes.

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

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

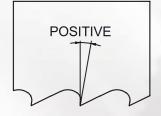
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- Positive rake angle
- Variable TPI
- M42 HSS teeth tips
- Hardness up to 68 HRC
- Excellent life time expectancy

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	ЗН	4H	6H	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

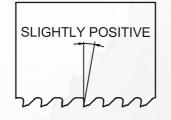
V-POS = variable teeth with positive rake angle

* On request

The lifetime expectancy of band saw blade can be significantly increased by controlled break-in/running-in procedure. Please set the cutting speed to 80% and feed to 50% for first 20 minutes.

M 42 **PROFILE**







BAND SAW BLADE FOR SMOOTH TUBES CUTTING

Application:

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

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

The lifetime expectancy of band saw blade can be significantly increased by controlled break-in/running-in procedure. Please set the cutting speed to 80% and feed to 50% for first 20 minutes.

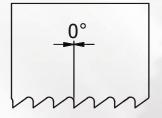




- Slightly positive rake angle
- Variable TPI
- M42 HSS teeth tips
- Hardness up to 68 HRC
- Excellent life time expectancy

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

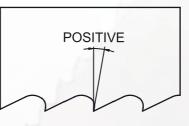
Dimensions		TF	ch			
mm	4	6	10	14	18	
6 x 0,90			N	N		
10 x 0,90			Ν	Ν		
13 x 0,65			Ν	Ν	Ν	
13 x 0,90			N*	N*	N*	
20 x 0,90	N		N	Ν	Ν	
27 x 0,90	N	Ν	Ν	Ν	Ν	

N = regular teeth with 0° rake angle

* On request

The lifetime expectancy of band saw blade can be significantly increased by controlled break-in/running-in procedure. Please set the cutting speed to 80% and feed to 50% for first 20 minutes.

M42 **REGULAR PLUS**



BAND SAW BLADE FOR LARGE CROSS-SECTIONS

Application:

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

Dimensions		TPI - teeth per inch						
mm	2	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

The lifetime expectancy of band saw blade can be significantly increased by controlled break-in/running-in procedure. Please set the cutting speed to 80% and feed to 50% for first 20 minutes.



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

M42 **PLUSCUT**

VERY POSITIVE



BAND SAW BLADE WITH EXTRA POSITIVE RAKE ANGLE

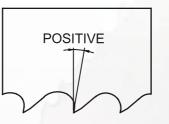
Application:

- 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

M51 **MASSIVE PROFI**



Application:

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

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

The lifetime expectancy of band saw blade can be significantly increased by controlled break-in/running-in procedure. Please set the cutting speed to 80% and feed to 50% for first 20 minutes.

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

The lifetime expectancy of band saw blade can be significantly increased by controlled break-in/running-in procedure. Please set the cutting speed to 80% and feed to 50% for first 20 minutes.

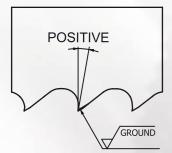




- Positive rake angle
- Variable TPI
- M51 HSS teeth tips
- Hardness up to 69 HRC
- Extra-long lifetime expectancy

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

The lifetime expectancy of band saw blade can be significantly increased by controlled break-in/running-in procedure. Please set the cutting speed to 80% and feed to 50% for first 20 minutes.

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

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

The lifetime expectancy of band saw blade can be significantly increased by controlled break-in/running-in procedure. Please set the cutting speed to 80% and feed to 50% for first 20 minutes.





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



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



www.pilanametal.com

Technical advice and sales support:

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EUROPEAN UNION European Regional Development Fund Operational Programme Enterprise and Innovations for Competitiveness

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