

Bi-Metal Band Saw Blades

Made in Czech Republic since 1934

ABOUT US



Over 85 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. PILANA METAL built a completely new plant producing bi-metal band saw blades for metal cutting in the year of 2012. The production line is equipped with the best European technologies. For the manufacturing of our tools we only use bimetal strip produced in Western Europe.

High and stable quality with quick delivery. Our technology allows us to guarantee both high quality tools and very short delivery times to our customers as well. Our welding center, as a part of the production plant, produces more than 500 welded band saw blades every day.

We export to the whole world. 90% of the tools is exported. Our bimetal band saw blades supplied in coils and welded blades are delivered to more than 60 countries worldwide.

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



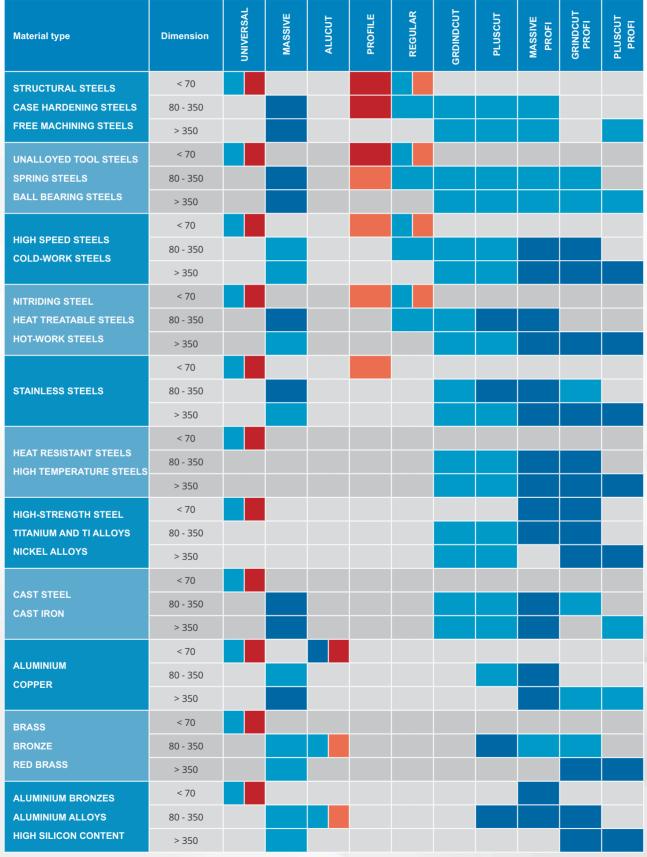
EXPORT REGIONS WORLDWIDE



Export regions



BAND CHOICE CHART













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

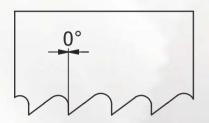
Cutting recommendation for steel tubes and profiles



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

M42 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

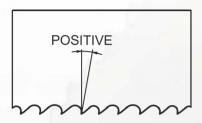
Dimensions	TPI - teeth per inch					
mm	5/8	6/10	8/12	10/14		
13 x 0,65	V-O*	V-O	V-O	V-O		
13 x 0,90	V-O*	V-O	V-O	V-O		
20 x 0,90	V-O	V-O	V-O	V-O		
27 x 0,90	V-O	V-O	V-O	V-O		
34 x 1,10	V-O	V-O	V-O			
41 x 1,30	V-O					

V-O = variable teeth with 0° rake angle



M42 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

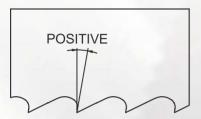
Dimensions	TPI - teeth per inch				
mm	0,75/1,25	1,4/2	2/3	3/4	4/6
20 x 0,90					V-POS
27 x 0,90			V-POS	V-POS	V-POS
34 x 1,10			V-POS	V-POS	V-POS
41 x 1,30		V-POS*	V-POS	V-POS	V-POS
54 x 1,60	V-POS*	V-POS	V-POS	V-POS	V-POS
67 x 1,60	V-POS*	V-POS	V-POS	V-POS	

V-POS = variable teeth with positive rake angle

^{*} On request

M42 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	2	3	4	6	2/3	3/4
13 x 0,65			POS	POS		
13 x 0,90		POS	POS			
20 x 0,90		POS	POS			
27 x 0,90	POS	POS	POS		V-POS*	V-POS*
34 x 1,10	POS*				V-POS*	V-POS*
41 x 1,30					V-POS*	V-POS*

POS = regular teeth with positive rake angle

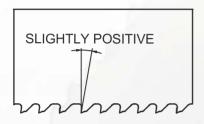
V-POS = variable teeth with positive rake angle

^{*} On request



M42 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

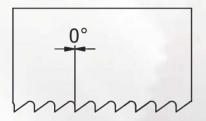
Dimensions	TPI - teeth per inch				
mm	2/3	3/4	4/6	5/7	8/11
27 x 0,90		V-POS*	V-POS	V-POS	V-POS
34 x 1,10		V-POS	V-POS	V-POS	V-POS*
41 x 1,30	V-POS*	V-POS	V-POS		
54 x 1,60	V-POS	V-POS			
67 x 1,60	V-POS*	V-POS*			

V-POS = variable teeth with positive rake angle

^{*} On request

M42 REGULAR







BAND SAW BLADE FOR SMALL CROSS-SECTION SOLIDS AND TUBES

Application:

- Tubes, beams and profiles
- Single and 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

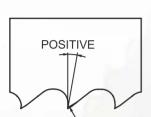
Dimensions	TPI - teeth per inch		
mm	14	18	
13 x 0,65	N	N	
13 x 0,90	N*	N*	
20 x 0,90	N	N	
27 x 0,90	N	N	

N = regular teeth with 0° rake angle

^{*} On request



M42 GRINDCUT







Application:

- · Stainless steels
- Non-ferrous metals
- Thick walled structurals

Characteristics:

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

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

V-POS = variable teeth with positive rake angle

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

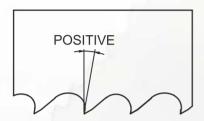
Dimensions	TPI - teeth per inch			
mm	1,4/2	2/3	3/4	
27 x 0,90		V-POS+	V-POS+	
34 x 1,10		V-POS+	V-POS+	
41 x 1,30	V-POS+	V-POS+	V-POS+	
54 x 1,60	V-POS+	V-POS+	V-POS+	

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



M51 MASSIVE PROFI







SPECIALLY DESIGNED FOR CUTTING SOLID 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

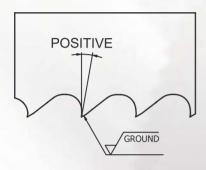
Dimensions	TPI - teeth per inch				
mm	1,4/2	2/3	3/4	4/6	
27 x 0,90		V-POS	V-POS	V-POS	
34 x 1,10		V-POS	V-POS	V-POS	
41 x 1,30	V-POS	V-POS	V-POS	V-POS	
54 x 1,60	V-POS	V-POS	V-POS		
67 x 1,60	V-POS*	V-POS*			

V-POS = variable teeth with positive rake angle

^{*} On request

M51 GRINDCUT PROFI







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	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 = variable tooth pitch with positive rake angle

^{*} On request



M51 PLUSCUT PROFI







Application:

- Excellent for solid rods cutting
- · Long chipping materials
- · Highly alloyed steels

Characteristics:

- Very positive rake angle
- Variable TPI
- M51 HSS teeth tips
- Hardness up to 69 HRC
- Excellent life time expectancy

Dimensions	TPI - teeth per inch				
mm	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+		

V-POS+ = variable teeth with very positive rake angle



WOODCUT





BIMETAL BAND SAW BLADE FOR WOOD CUTTING

Application:

· Cutting of hard, exotic or frozen wood

Dimensions	TPI - teeth per inch	
mm	1,14	2
34 x 0,90	W	W
34 x 1,10	W	
38 x 1,10	W	
41 x 1,10	W	
50 x 1,10	W	
54 x 1,10	W	

Characteristics:

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

W = 10° rake angle, 30° clearance angle



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