

PROFLEX[®] M42

The perfect band saw blade for profiles



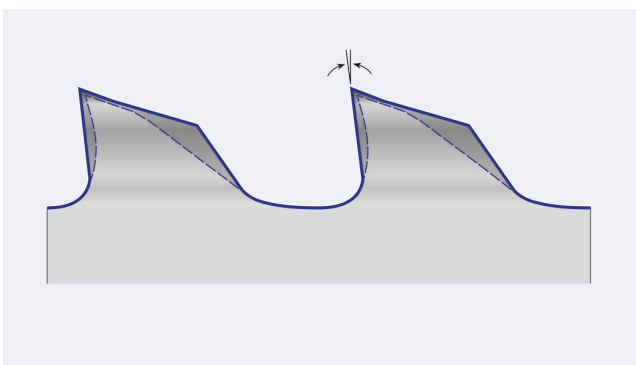
- ▲ Product level 2
- 🔍 Profile tooth
- Profiles
- ↕ Band width 13 x 0.65 - 67 x 1.6mm
Band width 1/2 x 0.025 - 2-5/8 x 0.063 Inch

Product Information



PROFLEX[®] M42 – The perfect band saw blade for profiles

With the PROFLEX[®] M42 bimetal band saw blade, WIKUS continues to sharpen its profile in the cutting of girders and profiles. PROFLEX[®] M42 is given extremely sturdy properties by both the special profile tooth and the extended connection between the cutting material and the carrier band.

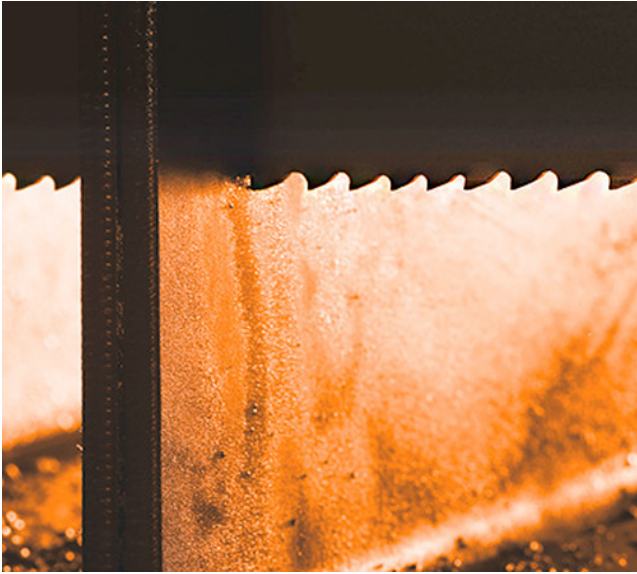


The special profile tooth features a positive cutting angle and reinforced tooth back edge. This reduces susceptibility to tooth breakage and vibration when sawing profiles.

Insensitive to mechanical stress

The high load capacity of the PROFLEX[®] M42 band saw blade results from the very stable tooth geome-

try. The innovative new production procedure with Superfinishing significantly extends the carrier band's lifetime, thus reducing the risk of bandbreakage. The optimized tooth cutting sharpness as well as a special limitation lead to an increased efficiency.



Application Range

Application

- Metal and steel profiles and carriers
- Optimal for cutting with interrupted cutting channel

Advantages

- Resistant to broken teeth due to extremely stable tooth geometry
- Low finishing due to low-burr cutting edges
- Less susceptible to vibration due to the special teeth form
- Less broken bands due to new production procedure
- Low noise emission due to variable tooth pitch and positive rake angle

Features

- Profile tooth with extremely stable tooth geometry
- variable tooth pitch
- Special limitation
- M42 tooth edge with positive rake angle

Technical Data (1/2)

Dimensions		Tooth pitch in ZpZ					
Width x thickness							
mm	Inch	14-18	12-16	10-14	8-11	7-9	5-7
13 x 0.65	1/2 x 0.025	P*		P*	P*	P*	
13 x 0.90	1/2 x 0.035			P*	P*	P*	
20 x 0.90	3/4 x 0.035		P	P	P	P	P
27 x 0.90	1-1/16 x 0.035		P	P	P	P	P
34 x 1.10	1-3/8 x 0.042				P	P	P
41 x 1.30	1-5/8 x 0.050				P	P	P
54 x 1.30	2-1/8 x 0.050					P	
54 x 1.60	2-1/8 x 0.063						
67 x 1.60	2-5/8 x 0.063						
Contact length	[mm]	< 5	< 10	< 15	15-30	20-50	40-70
	[Inch]	< 0.2	< 0.4	< 0.6	0.6-1.2	0.8-2	1.6-2.8

P = Profile tooth

P* = Optimised superfinish:

With immediate effect, this dimension is now also converted to the new inline production. As a result, the saw band gains a high quality in the form of a glossy, smooth surface. The fine band surface protects the band guides of the machine and increases the fatigue strength.

Technical Data (2/2)

Dimensions		Tooth pitch in ZpZ		
Width x thickness				
mm	Inch	4-6	3-4	2-3
13 x 0.65	1/2 x 0.025			
13 x 0.90	1/2 x 0.035			
20 x 0.90	3/4 x 0.035	P		
27 x 0.90	1-1/16 x 0.035	P	P	
34 x 1.10	1-3/8 x 0.042	P	P	P
41 x 1.30	1-5/8 x 0.050	P	P	P
54 x 1.30	2-1/8 x 0.050	P	P	P
54 x 1.60	2-1/8 x 0.063	P	P	P
67 x 1.60	2-5/8 x 0.063			P
Contact length	[mm]	50-90	80-160	150-310
	[Inch]	2-3.5	3.1-6.3	5.9-12.2

P = Profile tooth

P* = Optimised superfinish:

With immediate effect, this dimension is now also converted to the new inline production. As a result, the saw band gains a high quality in the form of a glossy, smooth surface. The fine band surface protects the band guides of the machine and increases the fatigue strength.

Materials Overview



- Case-hardening steels, spring steels and ball-bearing steels
- Rust-proof and acid-resistant steels (ferretic)
- Nitrided steel, high-speed steel and tool steel
- Construction, deep-drawn and machining steels
- Carbon steels, and quenched and tempered steels
- Cast iron
- Aluminium / aluminium alloys
- Non-ferrous metals