PROFLEX® M42

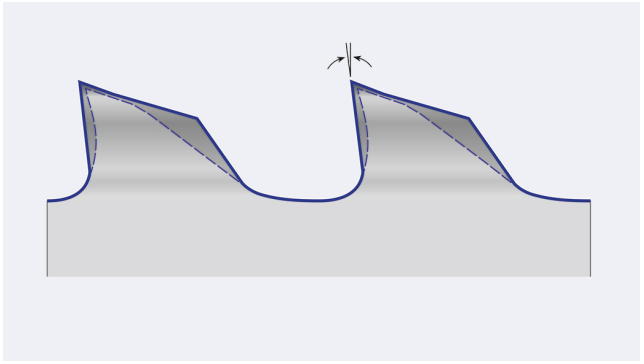
The perfect band saw blade for profiles

- 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

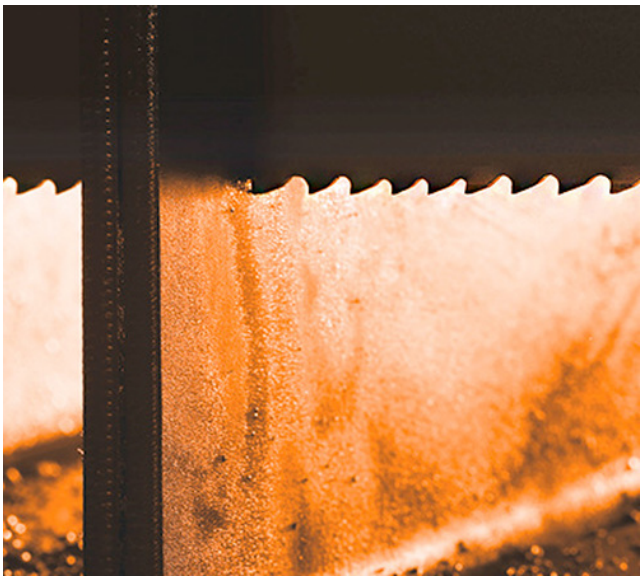
With the PROFLEX® M42 bimetal band saw blade, WIKUS continues to sharpen its profile in the cutting of girders and profiles. PROFLEX® M42 is given extremely sturdy properties by both the special profile tooth and the extended connection between the cutting material and the carrier band.



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 geometry. 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]** **[Inch]**	< 5 < 0.2	< 10 < 0.4	< 15 < 0.6	15-30 0.6-1.2	20-50 0.8-2	40-70 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]** **[Inch]**	50-90 2-3.5	80-160 3.1-6.3	150-310 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