

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



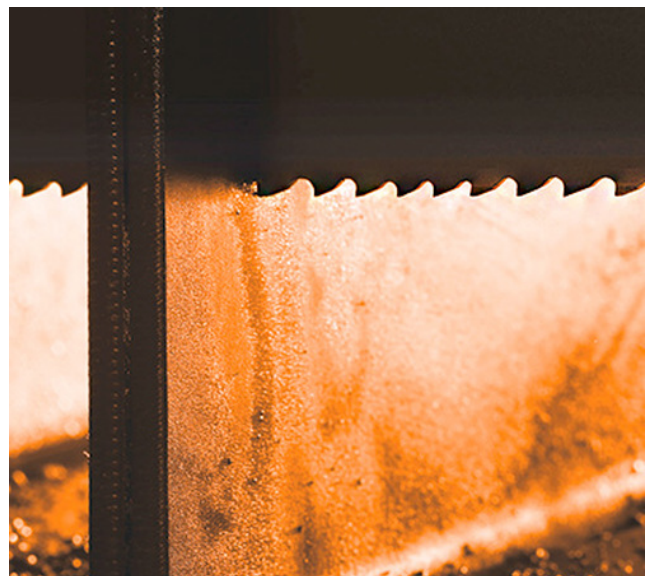
PROFLEX[®] M42 – The perfect band saw blade for profiles

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, 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 tpi					
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

Technical Data (2/2)

Dimensions		Tooth pitch in tpi		
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	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

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