

SKALAR[®] M42

The high-performer for large cross-sections



⊕ Product level 3

🔪 Hook tooth

● Solid materials

Band width 27 x 0.9 - 80 x 1.6mm

↕ Band width 1-1/16 x 0.035 - 3-1/8 x 0.063
Inch

Product Information

SKALAR[®] M42 – The high-performer for large cross-sections

Sawing tools often reach their limits, especially when cutting large cross-sections. This results in very long cutting times, early deflection and an early end of blade-life. Frequent blade changes result in high tool costs and production delays.

The SKALAR[®] M42 bimetal band saw blade cuts with considerably reduced cutting forces due to its intelligent cutting division, thus enabling a significant increase in productivity.

Application

- Large blocks in industrial production
- Especially for mixing programs with a large material mix
- Also for difficult-to-machine non-ferrous special alloys
- All metals up to a tensile strength of 1000 N/mm² can be used

Advantages

- Extremely high cutting rates even with large cross-sections and in continuous operation
- Short cutting time, lower cutting forces
- Smooth running and straight cutting surfaces
- Wide variety of materials to be machined
- Less frequent blade changes, higher machine availability and output

Features

- High productivity and efficiency due to specially designed cutting geometry
- Ground contour with specially matched tooth pitch
- M42 cutting edge with extra positive rake angle
- Special set for optimal chip division
- Stability increase in the backing material
- Excellent chip removal at contact lengths of 2000 mm

HNote: This band saw blade is also available as **SKALAR[®] PREMIUM M42** with coating to further increase performance.

Technical Data

Dimensions		Tooth pitch in tpi					
Width x thickness							
mm	Inch	2.5 - 3.4	1.8 - 2.5	1.4 - 1.8	1.2 - 1.6	1 - 1.4	0.7 - 1
27 x 0.90	1-1/16 x 0.035	K					
34 x 1.10	1-3/8 x 0.042	K	K				
41 x 1.30	1-5/8 x 0.050	K	K	K			
54 x 1.30	2-1/8 x 0.050	K	K	K			
54 x 1.60	2-1/8 x 0.063	K	K	K	K	K	
67 x 1.60	2-5/8 x 0.063			K*	K*	K*	K*
80 x 1.60	3-1/8 x 0.063				K*	K*	K*
Contact length	[mm]	100-220	180-350	300-600	400-700	500-1000	900-2000
	[Inch]	3.9-8.7	7.1-13.8	11.8-23.6	15.7-27.6	19.7-39.4	35.4-78.7

K = Hook tooth

*Optimised superfinish:

From now on, this dimension will be changed to the new inline production. This gives the saw band a high quality finish in the form of a shiny, smooth surface. The fine band surface protects the band guides of the machine and increases the fatigue strength. The other dimensions will be successively tightened.

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