

MARATHON® M42

The All-Rounder for Small and Large Cross Sections



- ⚙ Product level 2
- 🪚 Hook tooth
- Solid materials
- ↕ Band width 13 x 0.65 - 80 x 1.6mm
Band width 1/2 x 0.025 - 3-1/8 x 0.063 Inch

Product Information

MARATHON® M42 – The All-Rounder for Small and Large Cross Sections

The MARATHON® M42 is the epitome of the economical band saw blade and stands for a broad application spectrum with consistently high quality.

The bimetal band saw blade for service-oriented customers is optimized for more complex performance and support requirements in the sawing process, such as those required for industrial applications.

The high quality features of MARATHON® M42 are now even more flexible in applications thanks to the expansion of the product line and are thus available for small cross-sections up to large solid materials.

The superfinishing of the band saw blade and the sharp cutting edges increase the blade-life and improve the quality of the cut. The fine band surface protects the machine's guides and increases fatigue strength.

Application Range

Application

- industrial applications

- medium-sized to large workpieces
- All metals up to 1000 N/mm² tensile strength
- Solid material
- Single, layer and bundle cutting
- Mixed operation

Advantages

- Long blade-life and high productivity due to excellent product characteristics
- Less frequent blade changes due to broad application spectrum
- Low noise levels due to highly smooth and quiet running
- Lower material allowances required due to straight cuts/li>
- Reduced post-processing due to finer cutting surface
- Significant costs per cut savings

Features

- M42 cutting edge
- rake angle: positive (hooktooth)
- Constant or variable tooth pitch with standard setting

- High precision in straightness and planeness of the strip

Technical Data (1/2)

| Dimensions | | Tooth pitch in ZpZ | | | | | |
|-----------------------|----------------|--------------------|--------|---------|----------|----------|-----------|
| Width x thickness | | variable | | | | | |
| mm | Inch | 5-8 | 4-6 | 3-4 | 2-3 | 1.4-2 | 1-1.4 |
| 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 | | | | | | |
| 20 x 1.10 | 3/4 x 0.042 | | | | | | |
| 27 x 0.90 | 1-1/16 x 0.035 | K | K | K | K | | |
| 34 x 1.10 | 1-3/8 x 0.042 | K | K | K | K | K | |
| 41 x 1.10 | 1-5/8 x 0.042 | | K | K | K | K | |
| 41 x 1.30 | 1-5/8 x 0.050 | K | K | K | K | K | |
| 54 x 1.30 | 2-1/8 x 0.050 | | K | 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 | K |
| 80 x 1.60 | 3-1/8 x 0.063 | | | | K | K | K |
| Contact length | [mm] | 30-60 | 50-100 | 80-170 | 150-300 | 250-550 | 500-1000 |
| | [Inch] | 1.2-2.4 | 2-3.9 | 3.1-6.7 | 5.9-11.8 | 9.8-21.6 | 19.7-39.4 |

K = Hook tooth

*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 | | variable | constant | | | |
| mm | Inch | 0.75-1.25 | 6 | 4 | 3 | 1.25 |
| 13 x 0.65 | 1/2 x 0.025 | | K* | K* | | |
| 13 x 0.90 | 1/2 x 0.035 | | K* | K* | K* | |
| 20 x 0.90 | 3/4 x 0.035 | | K | K | K | |
| 20 x 1.10 | 3/4 x 0.042 | | | | K | |
| 27 x 0.90 | 1-1/16 x 0.035 | | | | | |
| 34 x 1.10 | 1-3/8 x 0.042 | | | | | K |
| 41 x 1.10 | 1-5/8 x 0.042 | | | | | |
| 41 x 1.30 | 1-5/8 x 0.050 | | | | | |
| 54 x 1.30 | 2-1/8 x 0.050 | | | | | |
| 54 x 1.60 | 2-1/8 x 0.063 | | | | | |
| 67 x 1.60 | 2-5/8 x 0.063 | K | | | | |
| 80 x 1.60 | 3-1/8 x 0.063 | K | | | | |
| Contact length | [mm] | 700-1400 | 50-80 | 80-120 | 120-200 | 300-800 |
| | [Inch] | 27.6-55.1 | 2-3.1 | 3.1-4.7 | 4.7-7.9 | 11.8-31.5 |

K = Hook tooth

*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