

Tungsten Carbide Grit Band Saw Blades

Tougher and more durable blades for the hardest and most abrasive of materials, demanding workflows and highest quality standards

C4 Carbides Tungsten Carbide Grit Band Saw Blades bring productivity to a new level. These blades are ideal for cutting hard, abrasive and brittle materials that defeat the most advanced toothed alternatives.

Features and Benefits

- Tungsten Carbide Grit is metallurgically bonded to a steel backer to form permanent cutting edges instead of teeth. No teeth means reduced risk of snagging or chipping on hard-to-cut materials
- The grinding cutting action produces clean, smooth cuts which typically require no secondary finishing
- The inherent toughness of Tungsten Carbide Grit results in an extremely durable blade which stays sharper for longer
- Tough alloy steel backer and precision milled gullets offer greater fatigue resistance and longer life
- Unlike toothed blades, these blades can be reversed to extend their life, resulting in a significantly better ROI

Versatile Range

Our range is available in a variety of widths, five grit grades and two styles, gulleted or continuous. Continuous blades are best used for brittle materials or thin section work, gulleted blades for everything else.

Fine grit blades are used to cut thinner sections, extremely hard materials or where a fine finish is required. Coarser grit is much more aggressive and is used for thicker and more abrasive materials



Superior Blade Technology

The performance characteristics of our blades are the result of extensive research into both the metallurgical properties of bonded carbide and the mechanical behaviour of band saw in action. By adjusting these parameters in combination, the blades are fine tuned to suit their cutting task.

Our Band Saw Blades are part of a wide range of high performance tools and blades that exploit the properties of Tungsten Carbide or Diamond Grit to great effect, including hole saws, reciprocating saw and jig saw blades.

Technical Specifications

Gulleted Blades

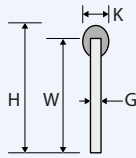
Sizes in **bold** type are standard blades, all other sizes are available to order

| | | | | Fine 150 - 212 micron 70/100 mesh | | | | Medium 212 - 300 micron 50/70 mesh | | | | Medium Coarse 300 - 425 micron 40/50 mesh | | | | Coarse 425 - 600 micron 30/40 mesh | | | | Extra Coarse 600 - 850 micron 20/30 mesh | | | |
|-----------|------|-----------|-----|---|------|-------------------|------|--|-------------|-------------------|-------------|---|-------------|-------------------|-------------|--|-------------|-------------------|-------------|--|-------------|-------------------|-------------|
| Width (W) | | Gauge (G) | | Coated Kerf (K) | | Overall Width (H) | | Coated Kerf (K) | | Overall Width (H) | | Coated Kerf (K) | | Overall Width (H) | | Coated Kerf (K) | | Overall Width (H) | | Coated Kerf (K) | | Overall Width (H) | |
| imp | mm | imp | mm | imp | mm | imp | mm | imp | mm | imp | mm | imp | mm | imp | mm | imp | mm | imp | mm | imp | mm | imp | mm |
| ¼ | 6.4 | 0.020 | 0.5 | 0.045 | 1.15 | 0.266 | 6.8 | 0.051 | 1.30 | 0.270 | 6.9 | | | | | | | | | | | | |
| ⅜ | 9.5 | 0.025 | 0.6 | 0.051 | 1.30 | 0.391 | 9.9 | 0.057 | 1.45 | 0.395 | 10.0 | 0.067 | 1.70 | 0.399 | 10.1 | 0.081 | 2.05 | 0.403 | 10.2 | | | | |
| ½ | 12.7 | 0.020 | 0.5 | 0.045 | 1.15 | 0.515 | 13.1 | 0.051 | 1.30 | 0.520 | 13.2 | 0.061 | 1.55 | 0.524 | 13.3 | 0.075 | 1.90 | 0.528 | 13.4 | | | | |
| ½ | 12.7 | 0.025 | 0.6 | 0.051 | 1.30 | 0.516 | 13.1 | 0.057 | 1.45 | 0.520 | 13.2 | 0.067 | 1.70 | 0.524 | 13.3 | 0.081 | 2.05 | 0.528 | 13.4 | | | | |
| ¾ | 19.1 | 0.032 | 0.8 | 0.057 | 1.45 | 0.766 | 19.5 | 0.063 | 1.60 | 0.770 | 19.6 | 0.073 | 1.85 | 0.774 | 19.7 | 0.087 | 2.20 | 0.778 | 19.8 | | | | |
| 1 | 25.4 | 0.035 | 0.9 | | | | | 0.067 | 1.70 | 1.020 | 25.9 | 0.077 | 1.95 | 1.024 | 26.0 | 0.091 | 2.30 | 1.028 | 26.1 | 0.110 | 2.80 | 1.031 | 26.2 |
| 1¼ | 31.8 | 0.035 | 0.9 | | | | | 0.067 | 1.70 | 1.270 | 32.3 | 0.077 | 1.95 | 1.274 | 32.4 | 0.091 | 2.30 | 1.278 | 32.5 | 0.110 | 2.80 | 1.281 | 32.6 |
| 1¼ | 31.8 | 0.042 | 1.1 | | | | | 0.075 | 1.90 | 1.270 | 32.3 | 0.085 | 2.15 | 1.274 | 32.4 | 0.098 | 2.50 | 1.278 | 32.5 | 0.118 | 3.00 | 1.281 | 32.6 |
| 1½ | 38.1 | 0.042 | 1.1 | | | | | 0.075 | 1.90 | 1.520 | 38.6 | 0.085 | 2.15 | 1.524 | 38.7 | 0.098 | 2.50 | 1.528 | 38.8 | 0.118 | 3.00 | 1.531 | 38.9 |
| 1.64 | 41.7 | 0.050 | 1.3 | | | | | 0.083 | 2.10 | 1.660 | 42.2 | 0.093 | 2.35 | 1.664 | 42.3 | 0.106 | 2.70 | 1.668 | 42.4 | 0.126 | 3.20 | 1.671 | 42.5 |
| 2 | 50.8 | 0.050 | 1.3 | | | | | 0.083 | 2.10 | 2.020 | 51.3 | 0.093 | 2.35 | 2.024 | 51.4 | 0.106 | 2.70 | 2.028 | 51.5 | 0.126 | 3.20 | 2.031 | 51.6 |

Continuous Blades

Sizes in **bold** type are standard blades, all other sizes are available to order

| | | | | Fine 150 - 212 micron 70/100 mesh | | | | Medium 212 - 300 micron 50/70 mesh | | | | Medium Coarse 300 - 425 micron 40/50 mesh | | | | Coarse 425 - 600 micron 30/40 mesh | | | | Extra Coarse 600 - 850 micron 20/30 mesh | | | |
|-----------|------|-----------|-----|---|-------------|-------------------|-------------|--|-------------|-------------------|-------------|---|-------------|-------------------|-------------|--|-------------|-------------------|-------------|--|------|-------------------|------|
| Width (W) | | Gauge (G) | | Coated Kerf (K) | | Overall Width (H) | | Coated Kerf (K) | | Overall Width (H) | | Coated Kerf (K) | | Overall Width (H) | | Coated Kerf (K) | | Overall Width (H) | | Coated Kerf (K) | | Overall Width (H) | |
| imp | mm | imp | mm | imp | mm | imp | mm | imp | mm | imp | mm | imp | mm | imp | mm | imp | mm | imp | mm | imp | mm | imp | mm |
| ¼ | 6.4 | 0.020 | 0.5 | 0.045 | 1.15 | 0.266 | 6.8 | 0.051 | 1.30 | 0.270 | 6.9 | | | | | | | | | | | | |
| ⅜ | 9.5 | 0.025 | 0.6 | 0.051 | 1.30 | 0.391 | 9.9 | 0.057 | 1.45 | 0.395 | 10.0 | 0.067 | 1.70 | 0.399 | 10.1 | 0.081 | 2.05 | 0.403 | 10.2 | | | | |
| ½ | 12.7 | 0.020 | 0.5 | 0.045 | 1.15 | 0.515 | 13.1 | 0.051 | 1.30 | 0.520 | 13.2 | 0.061 | 1.55 | 0.524 | 13.3 | 0.075 | 1.90 | 0.528 | 13.4 | | | | |
| ½ | 12.7 | 0.025 | 0.6 | 0.051 | 1.30 | 0.516 | 13.1 | 0.057 | 1.45 | 0.520 | 13.2 | 0.067 | 1.70 | 0.524 | 13.3 | 0.081 | 2.05 | 0.528 | 13.4 | | | | |
| ¾ | 19.1 | 0.032 | 0.8 | 0.057 | 1.45 | 0.766 | 19.5 | 0.063 | 1.60 | 0.770 | 19.6 | 0.073 | 1.85 | 0.774 | 19.7 | 0.087 | 2.20 | 0.778 | 19.8 | | | | |
| 1 | 25.4 | 0.035 | 0.9 | | | | | 0.067 | 1.70 | 1.020 | 25.9 | 0.077 | 1.95 | 1.024 | 26.0 | 0.091 | 2.30 | 1.028 | 26.1 | 0.110 | 2.80 | 1.031 | 26.2 |
| 1¼ | 31.8 | 0.035 | 0.9 | | | | | 0.067 | 1.70 | 1.270 | 32.3 | 0.077 | 1.95 | 1.274 | 32.4 | 0.091 | 2.30 | 1.278 | 32.5 | 0.110 | 2.80 | 1.281 | 32.6 |
| 1¼ | 31.8 | 0.042 | 1.1 | | | | | 0.075 | 1.90 | 1.270 | 32.3 | 0.085 | 2.15 | 1.274 | 32.4 | 0.098 | 2.50 | 1.278 | 32.5 | 0.118 | 3.00 | 1.281 | 32.6 |
| 1½ | 38.1 | 0.042 | 1.1 | | | | | 0.075 | 1.90 | 1.520 | 38.6 | 0.085 | 2.15 | 1.524 | 38.7 | 0.098 | 2.50 | 1.528 | 38.8 | 0.118 | 3.00 | 1.531 | 38.9 |
| 1.64 | 41.7 | 0.050 | 1.3 | | | | | 0.083 | 2.10 | 1.660 | 42.2 | 0.093 | 2.35 | 1.664 | 42.3 | 0.106 | 2.70 | 1.668 | 42.4 | 0.126 | 3.20 | 1.671 | 42.5 |
| 2 | 50.8 | 0.050 | 1.3 | | | | | 0.083 | 2.10 | 2.020 | 51.3 | 0.093 | 2.35 | 2.024 | 51.4 | 0.106 | 2.70 | 2.028 | 51.5 | 0.126 | 3.20 | 2.031 | 51.6 |



Selected Applications and Recommended Blades

| Material | Problem | Speed* (smpm) | Speed* (sfpm) | Cool | F | M | MC | C | EC | Style | Material | Problem | Speed* (smpm) | Speed* (sfpm) | Cool | F | M | MC | C | EC | Style |
|---|----------------------------|---------------|---------------|------|---|---|----|---|----|-------|--|-------------------|---------------|---------------|------|---|---|----|---|----|-------|
| Aircraft and Sheet stainless steel | Work Hardening | 46-152 | 150-500 | Y | | ✓ | ✓ | ✓ | | C | Glass Glass Block | Hard Abrasive | 152-915 | 500-3000 | Y | ✓ | | | | | C |
| Aircraft flooring and interiors (composites) | Abrasive | 305-915 | 1000-3000 | N | ✓ | ✓ | | | | G | Nickel Alloys | Work Hardening | 37-107 | 120-350 | Y | | ✓ | ✓ | ✓ | | C |
| Aluminium oxide | Abrasive | 305-915 | 1000-3000 | N | | ✓ | ✓ | ✓ | | G | Nitride case, induction hardened and tool steel | Hardened | 46-91 | 150-300 | Y | | ✓ | ✓ | ✓ | ✓ | G/C |
| Carbon Graphite | Abrasive | 305-1220 | 1000-4000 | N | | ✓ | ✓ | ✓ | ✓ | G | Stone Minerals | Abrasive | 46-183 | 150-600 | N | | ✓ | ✓ | ✓ | | G |
| Cast Iron | Hard Abrasive | 46-92 | 150-300 | N | | ✓ | ✓ | ✓ | ✓ | G | Tires Wire reinforced rubber | Snags | 366-915 | 1200-3000 | Y | | ✓ | ✓ | ✓ | ✓ | G |
| Industrial Ceramics | Abrasive | 305-915 | 1000-3000 | N | | ✓ | ✓ | ✓ | | G | Titanium | Tough Hard | 46-92 | 150-400 | Y | | ✓ | ✓ | | | C |
| Composites, Concrete building panels, Laminates | Abrasive Snags Chips | 305-915 | 1000-3000 | N | ✓ | ✓ | | | | G | C = Continuous Edge G = Gulleted Edge | | | | | | | | | | |
| Fiberglass honeycomb | Abrasive | 1220-1830 | 4000-6000 | N | ✓ | ✓ | | | | C | * Important Disclaimer: Machine setting parameters are meant as a guide for end-users. Band saw blades may be run at alternative speeds determined by machine type, machinery service condition, work holding and cutting media. All of these variables may have an impact product performance. | | | | | | | | | | |