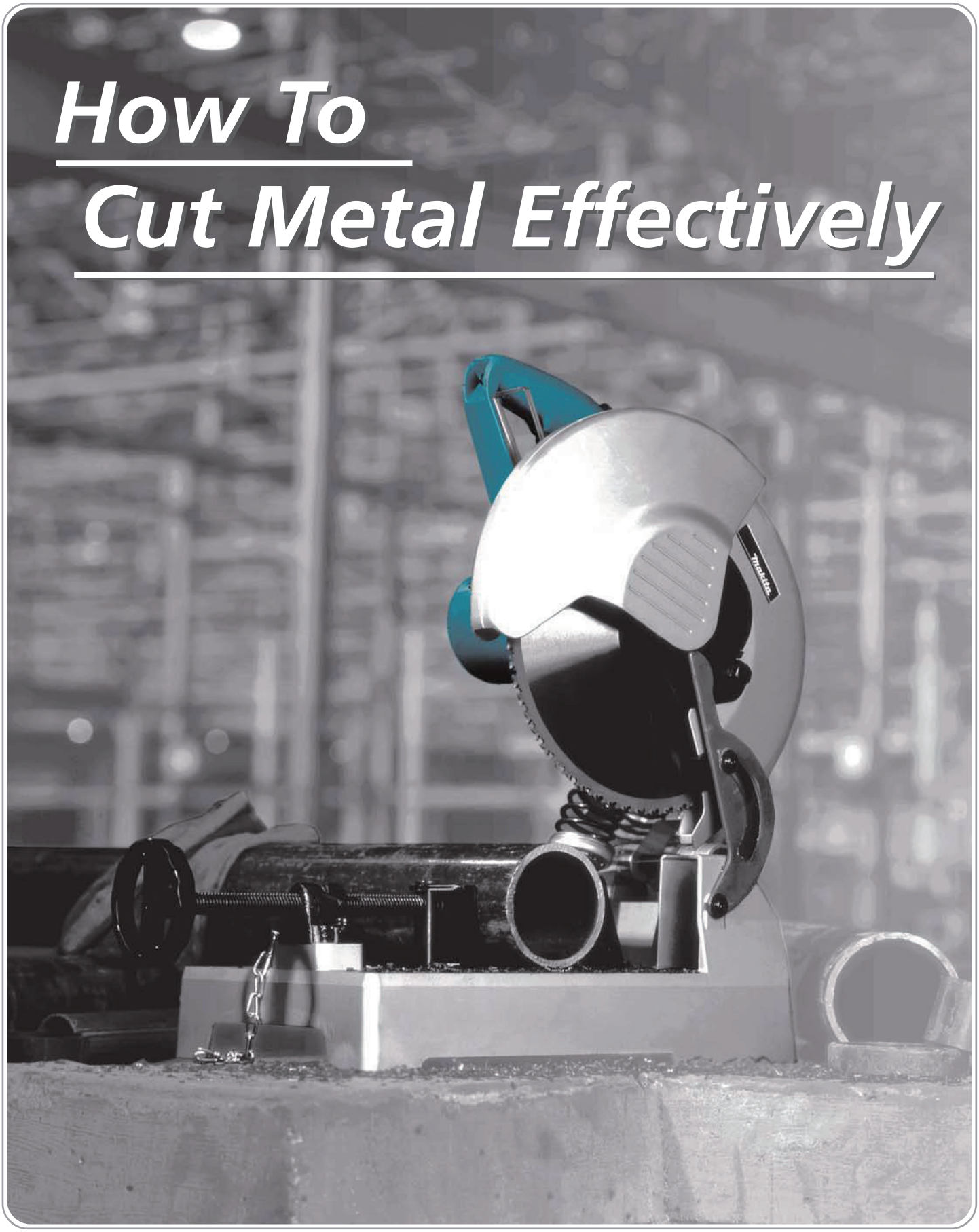
makita®

A world's leading manufacturer of power tools

How To Cut Metal Effectively



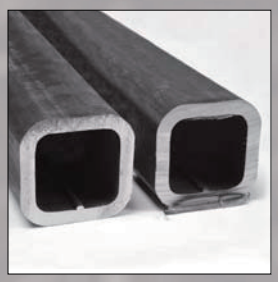
Why Makita Carbide-tipped Metal Cutting saw VS. Abrasive Cutting Saw

Carbide-Tipped Blades make Virtually Spark-Free Cuts

Abrasive Blades make Cuts with Sparks

Makita's Carbide-Tipped Metal Blades Cuts Cleaner

Tubing



Makita Carbide-Tipped Blade | Abrasive Blade

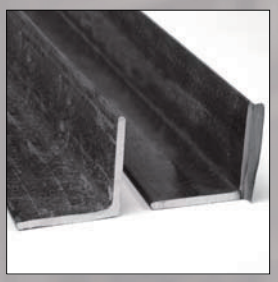
Threaded Rod

Makita Carbide-Tipped Blade | Abrasive Blade

UNISTRUT™

Makita Carbide-Tipped Blade | Abrasive Blade

Angle Iron



Makita Carbide-Tipped Blade | Abrasive Blade

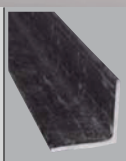
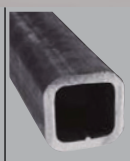
Pipe

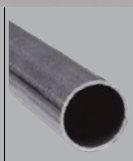
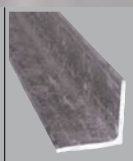
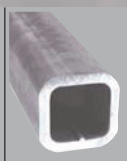
Makita Carbide-Tipped Blade | Abrasive Blade

Carbide-Tipped Metal Blades for Many Applications

Applications

◎ Excellent
○ Good
△ Fair
× Not Applicable

Size (mm)	Tip thickness	Part No.	Nominal thickness	Angle 6 mm	Angle 4 mm	Tubing 3 mm	Tubing 4.5 mm	Channel 2.3 mm	Channel 3.2 mm	Round Pipe 3.8 mm	Stainless Angle 4 mm	Stainless Tubing 1.5 mm
305 x 60T (Mild steel)	2.1 mm	A-87242		○	○	○	△	×	◎	◎	×	×
305 x 60T (Mild steel)	2.5 mm	A-81860		○	○	◎	○	×	◎	◎	×	×
305 x 60T (Mild steel Lessend noise)	2.4 mm	A-86723		◎	◎	◎	○	×	◎	◎	×	×
305 x 78T (Thin steel)	2.3 mm	A-87127		△	△	△	×	○	△	△	×	×
305 x 76T (Staianless)	1.95 mm	A-87579		○	○	△	×	◎	△	◎	○	○

Metal Cutting Process

Carbide-Tipped Metal Blade Cutting Tips

- Always wear safety glasses, gloves, protective equipment and follow instructions provided with power tool
- Do not apply excessive pressure on the handle when cutting as damage to the carbide-tips can be a result
- Too little or too much pressure on the handle may result in more sparks and premature blade wear
- Use block spacers when cutting square/rectangle tubing as well as channel and UNISTRUT™ for longer blade life
- When cutting long pieces of metal always use support blocks on both sides so the metal will be level with the saw base
- Do not touch blade or metal immediately after cut

Carbide-Tipped Metal Blade Cutting Process

1 Ensure metal is properly placed on saw base and firmly secured in the saw

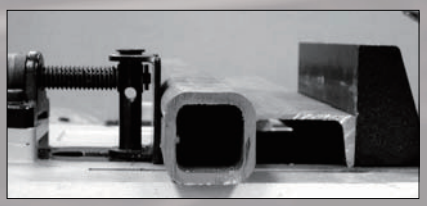
2 Hold the saw handle firmly and wait until full speed is obtained

3 Lower the handle gently to bring the blade close to the metal

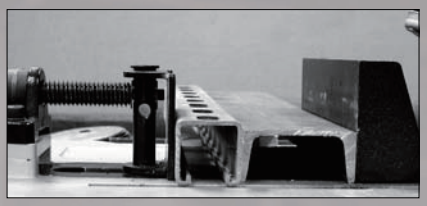
4 Gently ease the blade into the metal and add minimal pressure (reduce pressure if sparks appear)

5 After completed cut, turn off power tool and wait until blade has come to a complete stop then raise the handle back (if handle is raised back with blade still rotating then the blade may be caught)

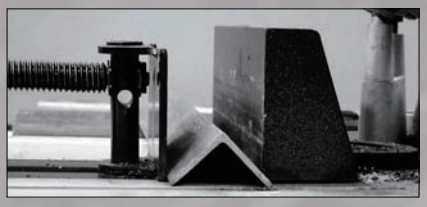
Metal Cutting Process



Square & Rectangle Tubing
(use block spacer)

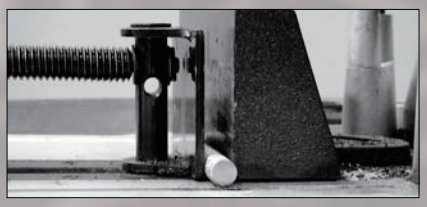


Channels & UNISTRUT™
(use block spacer)



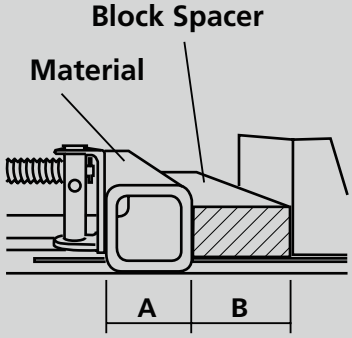
Angle

Round Pipe



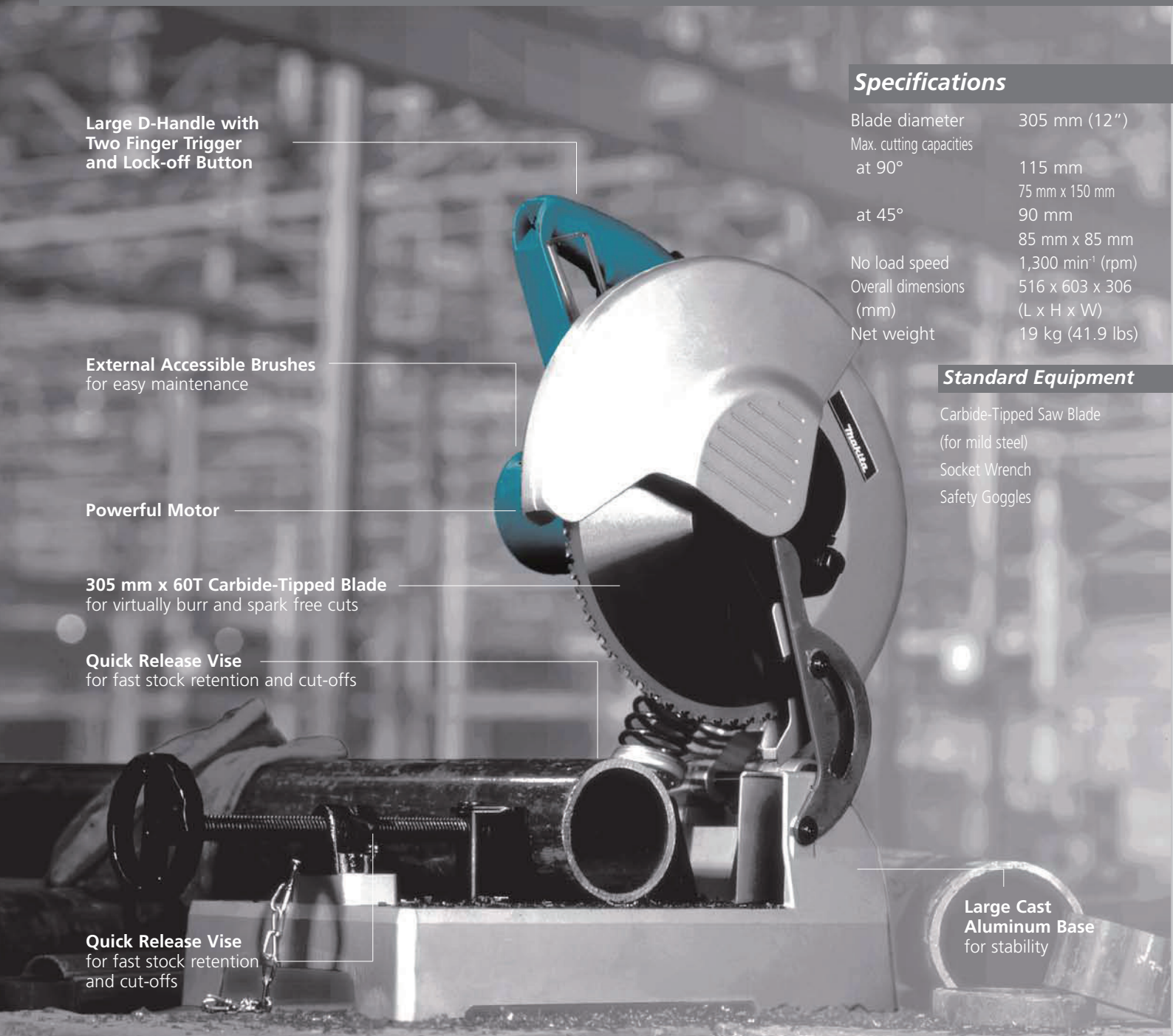
Threaded Rod

Block Spacer Reference Chart

Applications		Square & Rectangle Tubing				Round Pipe			Square & Rectangle Tubing		Round Pipe	
The height of material		Up to 75 mm		Up to 100 mm		—			Up to 85 mm		—	
 (mm)		A	B	A	B	A	B		A	B	A	B
	90 Degree Cutting	25	125	25	75	25	90	45 Degree Cutting	25	60	25	65
		50	100	50	50	50	65		50	35	50	40
		75	75	75	25	75	40		75	10	75	15
		100	50	100	0	100	15		85	0	90	0
		125	25	—	—	115	0		—	—	—	—
		* 150	0	—	—	—	—		—	—	—	—

*** Hint: Block Spacer should be determined by subtracting the metal width from 150 mm.**

Metal Cutting Saw 305 mm (12") Model LC1230



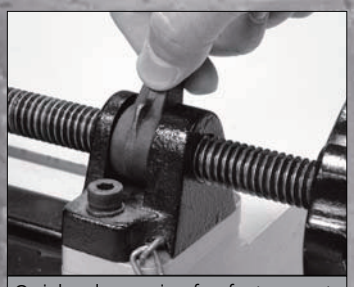
Specifications

Blade diameter	305 mm (12")
Max. cutting capacities	
at 90°	115 mm 75 mm x 150 mm
at 45°	90 mm 85 mm x 85 mm
No load speed	1,300 min^{-1} (rpm)
Overall dimensions (mm)	516 x 603 x 306 (L x H x W)
Net weight	19 kg (41.9 lbs)

Standard Equipment

Carbide-Tipped Saw Blade (for mild steel)
Socket Wrench
Safety Goggles


Large cutting capacity; cuts 115mm at 90° and 90mm at 45°


Quick release vise for fast repent cut-offs


Large D-handle with two finger trigger and lock-off button


"Tool-less" guide plate adjustment for 0° - 45° miter cuts

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