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866-EV0-T00L

**Evolution Industrial** Full Range Catalog



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### **Company Profile**

Evolution is a leader in the steel and fabrication industry, offering industrial metal cutting products, metal drilling products and related accessories. With a strong focus on customer service and determination to achieve unmatched quality, Evolution offers the highest product value to a rapidly growing and changing market.

Evolution's **United States headquarters** is based out of Davenport, lowa, allowing centralized distribution for the entire North American customer base. **Worldwide locations** offer distribution in Europe, Asia, South America, Australia and Africa.

"Innovation Defined" is the company motto and Evolution achieves this by continuously improving existing products and adding new products to effectively complement Evolution's current portfolio.

### **Quality Assurance & Warranty**

All Evolution power tools are put through quality assurance testing and are **guaranteed to be free of defects in workmanship** or materials for three years from the date of purchase.

Refer to Evolution's instruction manuals for full details.

All warranty claims must be submitted by the owner/user of the product and can only be evaluated and authorized by Evolution's Service Department. Claims can be made by calling 563-209-9173.

Most warranty repairs are **shipped within two full business days** of receiving product, **dependent upon parts availability**.

Evaluation and warranty service is **guaranteed within two full business days** of receiving product. Saw blades, annular cutters, step drills and product accessories are not covered under the **three year limited warranty**.









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# **EVO**SAW<sup>185</sup> 7-1/4" CHOP SAW\*



# QUICKER, SAFER, MORE ACCURATE & ECONOMICAL THAN AN ABRASIVE SAW!

• Cuts mild steel cleanly without excessive heat, burrs or the necessity of coolant.

 Cuts all types of materials; mild steel, aluminum, wood & stainless steel, with the appropriate blade.

 Fast action swivel clamp with solid steel jaws enables cuts to be made from 0-45°.





### **Industrial Quality!**

Ideal for cutting steel plate, square tube, angle iron, pipe, rebar, copper pipe, conduit and steel studs.



# Advanced technology; out-performs abrasive saws.

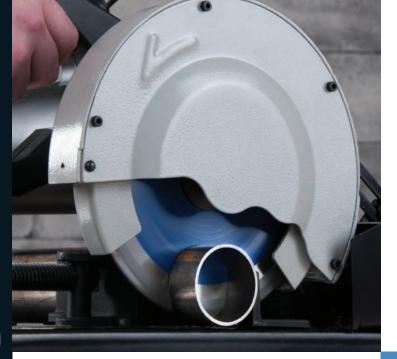
When cutting steel, the material has a workable finish. Virtually no heat, burrs or sparks are created, unlike inherently dangerous abrasive saws (shown left).



# Fast action swivel clamp enables cuts to be made from 0-45°.

Fast action swivel vise enables cuts to be made from 0-45°. Hi-torque gearbox reduces motor load and improves performance.

\*Important notice: Always use supplied safety equipment when operating.



### **Technical Specifications**

Motor (120v ~ 60Hz)	1250W
Amps	10
RPM (No Load)	4200
Recommended Maximum Duty Cycle	30mins
Sound Pressure Level (Under Load)	93dB(A)
Maximum Thickness Of Cut	1/4"
Maximum Cut 90° (Square)	2"
Maximum Cut 90° (Rectangle)	2 x 4"
Maximum Cut 90° (Round)	Ø 2"
Maximum Cut 45° (Square)	2"
Maximum Cut 45° (Rectangle)	2 x 2"
Maximum Cut 45° (Round)	Ø 2"
Tool Weight	21lbs
Tool Dimensions (H x W x L)	13" x 12-13/64" x 20-5/64"
Shipping Weight	23lbs
Shipping Dimensions (H x W x L)	10-15/64" x 10" x 16"
UPC	849713074379
Part Number	EVOSAW185

### **Supplied With**

7-1/4" Mild Steel Cutting Blade, 0.24", 0.20" & 0.12" Hex Keys, Dust Extraction Port 36mm, Speed Handle, Spare Motor Brushes & Manual.

### Industrial Blades\*\*

Туре	Teeth	Arbor	Kerf	Part Number
7 1/4" Mild Steel	40	20mm & 5/8"	.078"	185BLADEST
7 1/4" Stainless Steel	48	20mm	.070"	185BLADESSN
7 1/4" Wood	18	20mm	.063"	185BLADEWD
7 1/4" Diamond Masonr	y 0	20mm	.098"	185BLADEDM









<sup>\*\*</sup> For additional blade options, please see blade pages 8 and 9.



### Technical Specifications\*\*\*

Motor (120v ~ 60Hz)	1800W
Amps	15
Horsepower	2.4
RPM (No Load)	1450
Recommended Maximum Duty Cycle	30mins
Sound Pressure Level (Under Load)	108dB(A)
Maximum Thickness Of Cut	1/2"
Maximum Cut 90° (Square)	5" x 5"
Maximum Cut 90° (Rectangle)	3-3/4" x 7-7/8"
Maximum Cut 90° (Round)	Ø 5-7/8"
Maximum Cut 45° (Square)	3-1/2" x 3-1/2"
Maximum Cut 45° (Rectangle)	3" x 4-3/8"
Maximum Cut 45° (Round)	Ø 5"
Tool Weight	55lbs
Tool Dimensions (H x W x L)	26" x 13-1/2" x 21"
Shipping Weight	62lbs
Shipping Dimensions (H x W x L)	20" x 17" x 26"
UPC	849713000149
Part Number  ***Supplied with a 355mm (14") Steel blade. To achieve maximum capacities stated, fit with	EVOSAW380 h a 380mm (15") industrial saw blade.

### **Supplied With**

14" Mild Steel Cutting Blade, V-Block, Speed Knob, Clamping Handle, Spare Carbon Brush Set, Hex Wrench, Safety Goggles, Ear Plugs & Manual.

### Industrial Blades\*\*\*\*

Туре	Teeth	Arbor	Kerf	Part Number
15" Mild Steel	70	1"	.094"	15BLADEST
14" Thin Steel	90	1"	.094"	14BLADETS
14" Stainless Steel	90	1"	.094"	14BLADESS
14" Aluminum	80	1"	.094"	14BLADEAL







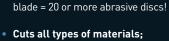






# QUICKER, SAFER, MORE ACCURATE & ECONOMICAL THAN AN ABRASIVE SAW!

 Cuts mild steel cleanly without excessive heat, burrs or the necessity of coolant.



Longer lasting: 1 steel cutting

 Cuts all types of materials; mild steel, aluminum
 & stainless steel.



 15" blade capacity for extended reach, see page 9 for blade details.

 Supplied V-block for securely clamping pipe.







### **Heavy duty performance!**

The mild steel blade can make up to 1000 cuts before a replacement blade is required." Ideal for cutting steel plate, square tube, angle iron, pipe, tube and metal roofing.



## Advanced technology; out-performs abrasive saws.

When cutting steel, the material has a workable finish. Virtually no heat, burrs or sparks are created, unlike inherently dangerous abrasive saws (shown left).



### Fast action swivel clamp enables cuts to be made from 0-45°.

Hi-torque gearbox reduces motor load and improves performance. A pull-out collection tray makes it easy to dispose of metal chips.

\*Important notice: Always use supplied safety equipment when operating.

# evosaw<sup>180HD</sup> 7-1/4" CIRCULAR SAW\*

NEW & IMPROVED DESIGN! IDEAL FOR CUTTING STEEL PLATE, SQUARE TUBE, ANGLE IRON, PIPE, TUBE & METAL ROOFING.

- Rated for heavy duty and industrial applications with chip collection capability. Cuts mild steel without excessive heat, burrs or the necessity of coolant.
- With supplied mild steel blade, this saw's maximum capacity is 5/16" plate", with quick, clean cuts.
- ADVANCED
  PERFORMANCE
  TOT SAW BLADES
- High quality construction designed for portability.
- 🕦 approved.





### Advanced technology; out-performs angle grinders

When cutting steel, the material has a workable finish. Virtually no heat, burrs or sparks are created, unlike inherently dangerous angle grinders (shown left).



### 0-45° bevel tilt

Bevel tilt enhances the cutting versatility of the saw. Other features include a safety switch with overload protection and an integrated debris collection system.



### Adjustable depth of cut

Heavy-duty and extremely portable. Features an easily adjustable depth of cut, plus a clear visibility panel to help provide cutting accuracy.

\*Important notice: Always use supplied safety equipment when operating. \*\*Evolution's internal test data.



### **Technical Specifications**

Motor (120v ~ 60Hz)	1100W
Amps	9
Horsepower	1.5
RPM (No Load)	3950
Recommended Maximum Duty Cycle	30mins
Sound Pressure Level (Under Load)	98.5dB(A)
Vibration Level (Under Load)	2.3m/s <sup>2</sup>
Maximum Thickness Of Cut	5/16"
Maximum Cutting Depth At 90°	2-1/4"
Maximum Cutting Depth At 45°	1-3/8"
Tool Weight	13lbs
Tool Dimensions (H x W x L)	8-1/2" x 10" x 17-1/2"
Shipping Weight	25lbs
Shipping Dimensions (H x W x L)	16" x 11-1/2" x 21-1/2"
UPC	849713000026
Part Number	EVOSAW180HD

### **Supplied With**

Carrying Case, 7-1/4" Mild Steel Blade, Wrench, Fence Guide, Side Handle, Spare Carbon Brush Set, Safety Goggles, Ear Plugs & Manual.

### 7-1/4" & 7" Industrial Blades\*\*\*

Type	Teeth	Arbor	Kerf	Part Number
7-1/4" Mild Steel	40	20mm	.078"	185BLADEST
7" Mild Steel	36	20mm	.078"	180BLADEST
7" Thin Steel	68	20mm	.063"	180BLADETS
7" Stainless Steel	48	20mm	.070"	180BLADESS
7" Aluminum	54	20mm	.078"	180BLADEAL











### **Technical Specifications**

Motor (120v ~ 60Hz)	1750W
Amps	15
Horsepower	2.35
RPM (No Load)	2700
Recommended Maximum Duty Cycle	30mins
Sound Pressure Level (Under Load)	108.7dB(A)
Vibration Level (Under Load)	3.9m/s <sup>2</sup>
Maximum Thickness Of Cut	1/2"
Maximum Cutting Depth At 90°	3-1/4"
Maximum Cutting Depth At 45°	2-1/8"
Tool Weight	19lbs
Tool Dimensions (H x W x L)	12-3/8" x 16-3/4" x 12-3/4"
Shipping Weight	32lbs
Shipping Dimensions (H x W x L)	18" x 15" x 22"
UPC	849713000101
Part Number	EV0SAW230

### **Supplied With**

Carrying Case, 9" Mild Steel Blade, Side Handle, Wrench, Spare Carbon Brush Set, Fence Guide, Goggles, 2 Batteries, Ear Plugs & Manual.

### 9" Industrial Blades\*\*

Type	Teeth	Arbor	Kerf	Part Number
Mild Steel	48	1"	.078"	230BLADEST
Thin Steel	68	1"	.070"	230BLADETS
Stainless Steel	60	1"	.070"	230BLADESS
Aluminum	80	1"	.078"	230BLADEAL













# IDEAL FOR CUTTING STEEL PLATE, SQUARE TUBE, ANGLE IRON, PIPE, TUBE & METAL ROOFING.

- Rated for heavy duty and industrial applications with chip collection capability. Cuts mild steel without excessive heat, burrs or the necessity of coolant.
- When cutting steel, the material has a workable finish.
   Virtually no heat, burrs or sparks are created, unlike angle grinders. Cuts cleanly through mild steel.
- **High quality construction** that is compact and portable.
- approved with laser guide for cutting accuracy.





### **Heavy duty construction!**

With supplied mild steel blade, this saw has maximum capacity through 1/2" material. Ideal for cutting steel plate, square tube, angle iron, pipe, tube and metal roofing.



### Adjustable depth of cut

Features an easily adjustable depth of cut and supplied fence guide to ensure straight, accurate cutting.



### 0-45° bevel tilt

Bevel tilt enhances the cutting versatility of the saw. Other features include a safety switch with overload protection and an integrated debris collection system.

\*Important notice: Always use supplied safety equipment when operating.

# INDUSTRIAL SAW BLADES QUALITY & PERFORMANCE

EVOLUTION SAW BLADES ARE DESIGNED TO DELIVER MAXIMUM PERFORMANCE BY USING THE HIGHEST GRADE CARBIDE, HARDENED BLADE BODIES & ULTRA HIGH-GRADE BRAZING

TECHNIQUES. ALL OFFER PREMIUM QUALITY - DESIGNED TO INCREASE PERFORMANCE!

**CUT COOLER:** When cutting metals, Evolution blades leave an instantly workable finish and **produce virtually no heat, burrs or sparks.** This allows the material cut to be handled quickly instead of having to wait for the metal to cool down, as required with abrasives.

**CUT FASTER:** Evolution blades **cut faster than traditional abrasive blade methods.** An Evolution mild steel blade can cut through 6" of 1/4" thick mild steel plate, in as little as 12 seconds\*.

**CUT LONGER:** Abrasive blades wear down quickly. This reduces both cut quality and cut capacity depth. It also increases the costly replacement of abrasives required to complete the job. An Evolution mild steel blade can last as long as 20 or more abrasives\* and maintain its quality and capacity throughout, saving time and money!

**CUT ACCURATELY:** Abrasive blades tend to flex and "walk" during a cut. Evolution blades are **designed for accuracy and precision.** 

**CUT SAFETY:** Abrasive blades can **create excessive dust, fumes, smoke, fire** and can even explode. Evolution blades produce very few sparks, create little heat and are **an overall safer alternative to abrasives!** 

Blade Type & Color	Application
Mild Steel	Material applications include: square tube, angle iron, mild steel plate, pipe, tube and other ferrous metals.
Thin Steel	Ideal for cutting ferrous metal under 1/8" in thickness. Material applications include: sheet metal, metal roofing and electrical conduit.
Stainless Steel	Material applications include: square tube, angle iron, stainless steel plate, diamond plate, pipe and tube.
Aluminum	ldeal for aluminum and other non-ferrous metals. Material applications include: grating, extrusions, pipe and tube.
Multipurpose	Designed for cutting multiple material applications without switching blades.  Material applications include: mild steel, aluminum, brass, copper, wood, wood with nails, plastics, PVC and plexiglass.

<sup>\*</sup> Evolution's internal test data. Important notice: Always use supplied safety equipment when operating and follow cutting instructions provided in the operator's manuals.

Application	Color	Arbor	Kerf	Teeth	RPM	Part Number	UPC
Application	Cotor	Albui	Rell	reetii	RPM	Part Number	UPC
<b>5-3/8" (136mm) Blade</b> For use or	n: <i>Makita BCS550</i> ,	Milwaukee 2682-20.					
Mild Steel	•	20mm	.063"	30	4200	5-3/8BLADEST	849713027818
6-1/2" (165mm) Blade For use or	n: <i>Bosch CCS180K</i> ,	/1617K, Dewalt DC310	K/DC390K, Makita BS	SS610, Milwaukee	2630-20/0730-20, Ri	dgid R3203.	
Mild Steel	•	5/8"	.078"	40	4000	6-1/2BLADEST	849713033161
7" (180mm) Blades For use on: Ev	olution EVOSAW18	OHD   RAGE-B   RA	GE4, Jancy MCSL07, I	Milwaukee 0740-2	0, MK Morse CSM7M	IB, Steelmax S7.	
Mild Steel	•	20mm	.078"	36	4200	180BLADEST	849713000415
Thin Steel	•	20mm	.063"	68	4200	180BLADETS	849713021175
Stainless Steel	•	20mm	.070"	48	4200	180BLADESSN	849713030344
Aluminum	•	20mm	.078"	54	4200	180BLADEAL	849713000422
Wood	•	20mm	.063"	30	4200	180BLADEWD	849713000446
<b>7-1/4" (185mm) Blades</b> For use	on: Evolution EVOS	SAW180HD   RAGE-B	EVOSAW185   RA	GE4 Saws, Steeln	nax S7, Standard Circ	cular Saws*.	
Mild Steel	•	20mm & 5/8"	.078"	40	4200	185BLADEST	849713016447
Stainless Steel	•	20mm	.070"	48	4200	185BLADESSN	849713036421
Multipurpose	•	20mm	.067"	20	4200	RAGEBLADE	849713011282
Diamond Masonry	•	20mm	.098"	0	4200	185BLADEDM	849713011602
Wood	•	20mm	.063	18	4200	185BLADEWD	849713016430
Thin Steel (Diamond K/0)*	•	5/8"	.063"	68	4200	7-1/4BLADETS	849713036551
Wood (Diamond K/O)*	•	5/8"	.063"	24	4200	7-1/4BLADEWD	849713027832

Application	Colo	r Arbor	Kerf	Teeth	RPM	Part Number	UPC
7-1/2" (190mm) Blade							
Mild Steel	•	20mm	.078"	40	5800	7-1/2BLADEST	849713027856
8" (200mm) Blades For use or	n: Milwaukee 6370	20.					
Mild Steel	•	5/8"	.078"	50	4000	8BLADEMS	849713011510
Stainless Steel	•	5/8"	.070"	54	4000	8BLADESSN	849713034953
Aluminum	•	5/8"	.094"	60	4000	8BLADEAL	849713053480
9 4//" (240mm) Blades 5	D (1 D)41	/0/ M I': 5000M04					
8-1/4" (210mm) Blades For	use on: <i>Dewalt DW</i>	1"	070"	E0	/000	0 1//DIADECT	0/0712020150
Mild Steel	•	ı	.078"	50	4000	8-1/4BLADEST	849713028150
9" (230mm) Blades For use or	n: Evolution EVOSAN	V230, MK Morse CSM9	MB, Jancy MCSL09/N	ACSL09-2, Steelmax	<i>S9.</i>		
Mild Steel	•	1"	.078"	48	3000	230BLADEST	849713000453
Thin Steel	•	1"	.070"	68	3000	230BLADETS	849713027863
Stainless Steel	•	1"	.070"	60	3000	230BLADESSN	849713030351
Aluminum	•	1"	.094"	80	3000	230BLADEAL	849713000460
Multipurpose	•	1"	.078"	26	3000	RAGE230BLADE	849713044037
Wood	•	1"	.094"	40	3000	230BLADEWD	849713000484
10" (255mm) Blades For use	on: Evolution RAGE	3   RAGE3-DB.					
Mild Steel	•	1" & 5/8"	.078"	52	3000	10BLADEST	849713011541
		4.11	.078"	66	3000	10BLADESSN	849713034960
Stainless Steel	•	1"	.070				
	•	1"	.094"	80	3000	10BLADEAL	849713053497
Stainless Steel				<b>80</b> 28	<b>3000</b> 2750	10BLADEAL RAGE255BLADE	<b>849713053497</b> 849713011381
Stainless Steel <b>Aluminum</b>	•	1"	.094"				
Stainless Steel  Aluminum  Multipurpose	•	<b>1"</b> 1"	<b>.094"</b> .078"	28	2750	RAGE255BLADE	849713011381
Stainless Steel  Aluminum  Multipurpose  Diamond Tile	•	1" 1" 1" 1"	.094" .078" .078"	28 <b>0</b> 40	2750 <b>4400</b>	RAGE255BLADE 10BLADEDM	849713011381 <b>849713011633</b>
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood	•	1" 1" 1" 1"	.094" .078" .078"	28 <b>0</b> 40	2750 <b>4400</b>	RAGE255BLADE 10BLADEDM	849713011381 <b>849713011633</b>
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood	• • • • • • • • • • • • • • • • • • •	1" 1" 1" 1" standard miter saws, 0	.094" .078" .078" .094"	28 <b>0</b> 40 5BUSH15/8.	2750 <b>4400</b>	RAGE255BLADE 10BLADEDM	849713011381 <b>849713011633</b>
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced	• • • • • • • • • • • • • • • • • • •	1" 1" 1" 1" standard miter saws, 0	.094" .078" .078" .094"	28 <b>0</b> 40 5BUSH15/8.	2750 <b>4400</b>	RAGE255BLADE 10BLADEDM	849713011381 <b>849713011633</b>
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced	• • • • • • • • • • • • • • • • • • •	1" 1" 1" standard miter saws, of	.094" .078" .078" .094" using part number CS	28 0 40 5BUSH15/8.	2750 <b>4400</b> 5200	RAGE255BLADE 10BLADEDM 10BLADEWD	849713011381 <b>849713011633</b> 849713016454
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of Mild Steel	to fit 5/8" arbor on	1" 1" 1" 1" standard miter saws, of Evolution 12" Electric of 1"	.094" .078" .078" .094" using part number CS	28 0 40 5BUSH15/8. (Masonry only).	2750 4400 5200	RAGE255BLADE  10BLADEDM  10BLADEWD	849713011381 <b>849713011633</b> 849713016454 <b>849713000491</b>
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of Mild Steel  Stainless Steel	to fit 5/8" arbor on	1" 1" 1" standard miter saws, to Evolution 12" Electric to 1" 1"	.094" .078" .078" .094" .094" using part number CS Disc Cutter (Diamond .083"	28 0 40 5BUSH15/8. I Masonry only). 60 80	2750 4400 5200 1600	RAGE255BLADE  10BLADEDM  10BLADEWD  12BLADEST  12BLADESSN	849713011381 849713011633 849713016454 849713000491 849713030276
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of Mild Steel  Stainless Steel  Aluminum  Diamond Masonry	on: Makita LC1230.	1" 1" 1" standard miter saws, to Evolution 12" Electric to 1" 1" 1" 1"	.094" .078" .078" .094" using part number CS Disc Cutter (Diamond .083" .083" .118"	28 0 40 5BUSH15/8. I Masonry only). 60 80 80	2750 4400 5200 1600 1600 5000	RAGE255BLADE  10BLADEDM  10BLADEWD  12BLADEST  12BLADESSN  12BLADEAL  12BLADEDM	849713011381 849713011633 849713016454  849713000491 849713030276 849713025012 849713028112
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of Mild Steel  Stainless Steel  Aluminum  Diamond Masonry  14" (355mm) Blades For use of Mild Steel	on: Makita LC1230.	1" 1" 1" standard miter saws, of the saws, o	.094" .078" .078" .094" using part number CS Disc Cutter (Diamono .083" .083" .118"	28 0 40 5BUSH15/8. I Masonry only). 60 80 80 0	2750 4400 5200 1600 1600 5000	RAGE255BLADE  10BLADEDM  10BLADEWD  12BLADEST  12BLADESSN  12BLADEAL  12BLADEDM	849713011381 849713011633 849713016454 849713000491 849713030276 849713025012 849713028112
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of Mild Steel  Stainless Steel  Aluminum  Diamond Masonry  14" (355mm) Blades For use of Mild Steel	on: Makita LC1230.	1" 1" 1" standard miter saws, to Evolution 12" Electric to 1" 1" 1" 1" 1" 1" AW380   RAGE2, Dewa	.094" .078" .078" .094" .using part number CS .using part number CS .083" .083" .118" .using part number CS .using part number	28 0 40 5BUSH15/8. I Masonry only). 60 80 80 0	2750 4400 5200  1600 1600 5000  waukee 6190-20, 1600	RAGE255BLADE  10BLADEDM  10BLADEWD  12BLADEST  12BLADESSN  12BLADEAL  12BLADEDM  MK Morse CSM14MB, Ridgid 614, Ste  14BLADEST	849713011381 849713011633 849713016454  849713000491 849713030276 849713025012 849713028112  eeelmax S14. 849713011527
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of the stainless Steel  Aluminum  Diamond Masonry  14" (355mm) Blades For use of the steel  Mild Steel  Thin Steel	on: Evolution EVOS	1" 1" 1" standard miter saws, to Evolution 12" Electric 1" 1" 1" 1" 1" AW380   RAGE2, Dewal	.094" .078" .094" .094" .using part number CS .using part number C	28 0 40 5BUSH15/8. I Masonry only). 60 80 0 0 CS14/MCCS14-2, Mill 66 90	2750 4400 5200  1600 1600 5000  waukee 6190-20, 1600 1600	RAGE255BLADE  10BLADEDM  10BLADEWD  12BLADEST  12BLADESSN  12BLADEAL  12BLADEDM  MK Morse CSM14MB, Ridgid 614, St.  14BLADEST  14BLADETS	849713011381 849713011633 849713016454  849713000491 849713030276 849713025012 849713028112  seelmax \$14.  849713011527 849713021182
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of the stainless Steel  Aluminum  Diamond Masonry  14" (355mm) Blades For use of the stainless Steel  Mild Steel  Thin Steel  Stainless Steel	on: Makita LC1230.	1" 1" 1" standard miter saws, to Evolution 12" Electric 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"	.094" .078" .078" .094" .094" .using part number CS .083" .083" .118" .using part number CS .084" .094" .094"	28 0 40 5BUSH15/8. I Masonry only). 60 80 80 0 CS14/MCCS14-2, Mill 66 90 90	2750 4400 5200  1600 1600 5000  waukee 6190-20, 1600 1600 1600	RAGE255BLADE  10BLADEDM  10BLADEWD  12BLADEST  12BLADESSN  12BLADEAL  12BLADEDM  MK Morse CSM14MB, Ridgid 614, St.  14BLADEST  14BLADETS  14BLADESSN	849713011381 849713011633 849713016454  849713000491 849713025012 849713028112  eelmax S14. 849713011527 849713021182 849713030269
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of Mild Steel  Stainless Steel  Aluminum  Diamond Masonry  14" (355mm) Blades For use of Mild Steel  Thin Steel  Stainless Steel  Aluminum  Aluminum	on: Evolution EVOS	1" 1" 1" standard miter saws, to Evolution 12" Electric of 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"	.094" .078" .078" .094" .094" .using part number CS .using part number CS .083" .083" .118" .118" .094" .094" .094"	28 0 40 5BUSH15/8. I Masonry only). 60 80 0 0 CS14/MCCS14-2, Mill 66 90 90 80	2750 4400 5200  1600 1600 1600 1600 1600 1600	RAGE255BLADE  10BLADEDM  10BLADEWD  12BLADEST  12BLADESSN  12BLADEAL  12BLADEDM  MK Morse CSM14MB, Ridgid 614, St.  14BLADEST  14BLADEST  14BLADETS  14BLADESSN  14BLADESSN	849713011381 849713011633 849713016454  849713000491 849713030276 849713028112  849713011527 849713021182 849713030269 849713030269
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of Mild Steel  Stainless Steel  Aluminum  Diamond Masonry  14" (355mm) Blades For use of Mild Steel  Thin Steel  Stainless Steel  Aluminum  Multipurpose	on: Evolution EVOS	1" 1" 1" standard miter saws, to Evolution 12" Electric 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"	.094" .078" .078" .094" .094" .094" .083" .083" .118" .084" .094" .094" .094" .094" .094"	28 0 40 5BUSH15/8. Masonry only). 60 80 0 0 CS14/MCCS14-2, Mill 66 90 90 90 80 36	2750 4400 5200  1600 1600 1600 1600 1600 1600	RAGE255BLADE  10BLADEDM  10BLADEWD  12BLADEST  12BLADESSN  12BLADEAL  12BLADEDM  MK Morse CSM14MB, Ridgid 614, St  14BLADEST  14BLADETS  14BLADESSN  14BLADESSN  14BLADEAL  RAGE355BLADE	849713011381 849713011633 849713016454  849713000491 849713025012 849713028112  849713011527 849713021182 849713030269 849713000514 8497130011329
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of Mild Steel  Stainless Steel  Aluminum  Diamond Masonry  14" (355mm) Blades For use of Mild Steel  Thin Steel  Stainless Steel  Aluminum  Multipurpose  Diamond Masonry	on: Evolution EVOS	1" 1" 1" standard miter saws, 6  Evolution 12" Electric 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"	.094" .078" .078" .094" .094" .094" .083" .083" .118" .094" .094" .094" .094" .094" .094" .118"	28 0 40 5BUSH15/8. I Masonry only). 60 80 80 0 CS14/MCCS14-2, Mill 66 90 90 80 80 36	2750 4400 5200  1600 1600 1600 1600 1600 1600 1600	RAGE255BLADE  10BLADEDM  10BLADEWD  12BLADEST  12BLADESSN  12BLADEAL  12BLADEDM  MK Morse CSM14MB, Ridgid 614, St.  14BLADEST  14BLADESSN  14BLADESSN  14BLADESSN  14BLADESSN  14BLADEAL  RAGE355BLADE  14BLADEDM	849713011381 849713011633 849713016454  849713000491 849713025012 849713028112  849713011527 849713030269 849713030514 849713011329 849713011664
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of Mild Steel  Stainless Steel  Aluminum  Diamond Masonry  14" (355mm) Blades For use of Mild Steel  Thin Steel  Stainless Steel  Aluminum  Multipurpose	on: Evolution EVOS	1" 1" 1" standard miter saws, to Evolution 12" Electric 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"	.094" .078" .078" .094" .094" .094" .083" .083" .118" .084" .094" .094" .094" .094" .094"	28 0 40 5BUSH15/8. Masonry only). 60 80 0 0 CS14/MCCS14-2, Mill 66 90 90 90 80 36	2750 4400 5200  1600 1600 1600 1600 1600 1600	RAGE255BLADE  10BLADEDM  10BLADEWD  12BLADEST  12BLADESSN  12BLADEAL  12BLADEDM  MK Morse CSM14MB, Ridgid 614, St  14BLADEST  14BLADETS  14BLADESSN  14BLADESSN  14BLADEAL  RAGE355BLADE	849713011381 849713011633 849713016454  849713000491 849713025012 849713028112  849713011527 849713021182 849713030269 849713000514 8497130011329
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of Mild Steel  Stainless Steel  Aluminum  Diamond Masonry  14" (355mm) Blades For use of Mild Steel  Thin Steel  Stainless Steel  Aluminum  Multipurpose  Diamond Masonry  Wood	on: Evolution EVOS	1" 1" 1" standard miter saws, to Evolution 12" Electric . 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"	.094" .078" .078" .094" .094" .094" .083" .083" .118" .094" .094" .094" .094" .094" .094" .118"	28 0 40 5BUSH15/8. I Masonry only). 60 80 80 0 CS14/MCCS14-2, Mill 66 90 90 80 80 36	2750 4400 5200  1600 1600 1600 1600 1600 1600 1600	RAGE255BLADE  10BLADEDM  10BLADEWD  12BLADEST  12BLADESSN  12BLADEAL  12BLADEDM  MK Morse CSM14MB, Ridgid 614, St.  14BLADEST  14BLADESSN  14BLADESSN  14BLADESSN  14BLADESSN  14BLADEAL  RAGE355BLADE  14BLADEDM	849713011381 849713011633 849713016454  849713000491 849713025012 849713028112  849713011527 849713030269 849713030514 849713011329 8497130111664
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of Mild Steel  Stainless Steel  Aluminum  Diamond Masonry  14" (355mm) Blades For use of Mild Steel  Thin Steel  Stainless Steel  Aluminum  Multipurpose  Diamond Masonry  Wood  15" (380mm) Blade For use of Mild Steel  Thin Steel	on: Evolution EVOSA	1" 1" 1" standard miter saws, 6 Evolution 12" Electric 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"	.094" .078" .078" .094" .094" .094" .083" .083" .118" .094" .094" .094" .094" .118" .118" .109"	28 0 40 5BUSH15/8. I Masonry only). 60 80 80 0 0 CS14/MCCS14-2, Mill 66 90 90 80 36 0 60	2750 4400 5200  1600 1600 1600 1600 1600 1600 1600	RAGE255BLADE  10BLADEDM  10BLADEST  12BLADESSN  12BLADEAL  12BLADEDM  MK Morse CSM14MB, Ridgid 614, St  14BLADEST  14BLADESSN  14BLADESSN  14BLADESSN  14BLADESSN  14BLADESSN  14BLADESSN  14BLADEAL  RAGE355BLADE  14BLADEDM  14BLADEDM	849713011381 849713011633 849713016454  849713000491 849713025012 849713028112  849713011527 849713030269 849713030514 849713011329 849713011664 849713011664
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of Mild Steel  Stainless Steel  Aluminum  Diamond Masonry  14" (355mm) Blades For use of Mild Steel  Thin Steel  Stainless Steel  Aluminum  Multipurpose  Diamond Masonry  Wood	on: Evolution EVOS	1" 1" 1" standard miter saws, to Evolution 12" Electric . 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"	.094" .078" .078" .094" .094" .094" .083" .083" .118" .094" .094" .094" .094" .094" .094" .118"	28 0 40 5BUSH15/8. I Masonry only). 60 80 80 0 CS14/MCCS14-2, Mill 66 90 90 80 80 36	2750 4400 5200  1600 1600 1600 1600 1600 1600 1600	RAGE255BLADE  10BLADEDM  10BLADEWD  12BLADEST  12BLADESSN  12BLADEAL  12BLADEDM  MK Morse CSM14MB, Ridgid 614, St.  14BLADEST  14BLADESSN  14BLADESSN  14BLADESSN  14BLADESSN  14BLADEAL  RAGE355BLADE  14BLADEDM	849713011381 849713011633 849713016454  849713000491 849713025012 849713028112  849713011527 849713030269 849713030514 849713011329 8497130111664
Stainless Steel  Aluminum  Multipurpose  Diamond Tite  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of Mild Steel  Stainless Steel  Aluminum  Diamond Masonry  14" (355mm) Blades For use of Mild Steel  Thin Steel  Stainless Steel  Aluminum  Multipurpose  Diamond Masonry  Wood	on: Evolution EVOSA	1" 1" 1" standard miter saws, 6 Evolution 12" Electric 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"	.094" .078" .078" .094" .094" .094" .083" .083" .118" .094" .094" .094" .094" .118" .118" .109"	28 0 40 5BUSH15/8. I Masonry only). 60 80 80 0 0 CS14/MCCS14-2, Mill 66 90 90 80 36 0 60	2750 4400 5200  1600 1600 1600 1600 1600 1600 1600	RAGE255BLADE  10BLADEDM  10BLADEST  12BLADESSN  12BLADEAL  12BLADEDM  MK Morse CSM14MB, Ridgid 614, St  14BLADEST  14BLADESSN  14BLADESSN  14BLADESSN  14BLADESSN  14BLADESSN  14BLADESSN  14BLADEAL  RAGE355BLADE  14BLADEDM  14BLADEDM	849713011381 849713011633 849713016454  849713000491 849713025012 849713028112  849713011527 849713030269 849713030514 849713011329 849713011664 849713011664
Stainless Steel  Aluminum  Multipurpose  Diamond Tile  Wood  Note: 1" blade arbors can be reduced  12" (305mm) Blades For use of Mild Steel  Stainless Steel  Aluminum  Diamond Masonry  14" (355mm) Blades For use of Mild Steel  Thin Steel  Stainless Steel  Aluminum  Multipurpose  Diamond Masonry  Wood  15" (380mm) Blade For use of Mild Steel	on: Makita LC1230.  on: Evolution EVOSA	1" 1" 1" standard miter saws, 6 Evolution 12" Electric 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"	.094" .078" .078" .094" .094" .094" .083" .083" .118" .094" .094" .094" .094" .118" .118" .109"	28 0 40 5BUSH15/8. I Masonry only). 60 80 80 0 0 CS14/MCCS14-2, Mill 66 90 90 80 36 0 60	2750 4400 5200  1600 1600 1600 1600 1600 1600 1600	RAGE255BLADE  10BLADEDM  10BLADEST  12BLADESSN  12BLADEAL  12BLADEDM  MK Morse CSM14MB, Ridgid 614, St  14BLADEST  14BLADESSN  14BLADESSN  14BLADESSN  14BLADESSN  14BLADESSN  14BLADESSN  14BLADEAL  RAGE355BLADE  14BLADEDM  14BLADEDM	849713011381 849713011633 8497130116454  849713000491 849713025012 849713028112  849713011527 849713030269 849713030514 849713011329 849713011664 849713011664



### **Technical Specifications**

Motor (120v ~ 60Hz)	1200W
Amps	10
Horsepower	1.6
RPM (No Load)	570
Recommended Maximum Duty Cycle	30mins
Sound Pressure Level (Under Load)	85.1dB(A)
Maximum Cutter Diameter	1-1/8"
Maximum Depth Of Cut	2"
Stroke Length	6"
Magnetic Holding Power	2860lbs
Arbor Bore Diameter	3/4"
Tool Weight	28.5lbs
Head Fully Raised (H x W x L)	23" x 9" x 12-1/2"
Head Fully Lowered (H x W x L)	17-3/4" x 9" x 12-1/2"
Magnet Dimensions (H x W x L)	2" x 3-3/8" x 6-1/2"
Shipping Weight	38lbs
Shipping Dimensions (H x W x L)	18-1/2" x 7-1/4" x 23"
UPC	849713054050
Part Number	EVOMAG28

### **Supplied With**

Carry Case, 1/2" Drill Chuck & Key, Coolant Bottle Assembly, Four Hex Keys, Three Handles, Guard, Safety Strap, Safety Guard, Fasteners & Manual.

### **6 Piece Cutter Sets**

1" Depth Premium Grade Cutter Set

Includes 9/16", 5/8", 11/16", 13/16", 15/16" & 1" Diame	ters & Pilot Pins
1" Depth Premium Grade Cutter Set	CC5S6SET-1
Includes 1/2", 9/16", 5/8", 3/4", 7/8" & 1" Diameters & F	Pilot Pins
2" Depth Premium Grade Cutter Set	CC6SET-2
Includes 9/16", 5/8", 11/16", 13/16", 15/16" & 1" Diamet	ters & Pilot Pins
2" Depth Carbide Tipped Premium Grade Cutter Set	CT6SET-2
Includes 11/16", 3/4", 13/16", 7/8", 15/16" & 1" Diamete	ers & Pilot Pins



# 7/16" - 1-1/8" DIAMETER x 2" DEPTH ANNULAR CUTTER CAPACITY.

- 6" stroke length.
- Heavy-duty magnetic holding power.
- Includes chuck and adaptor for twist drills up to 1/2" diameter.
- Switches are protected with bar guards for added safety.
- High quality construction.
- 🕦 approved.





### 1/2" twist drill capacity

The chuck adaptor easily mounts to the drill by removing the arbor.



### Includes 1/2" chuck & key

Given the extended stroke length capacity, this drill is versatile enough to handle a broad range of twist drills up to 1/2" diameter.

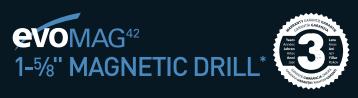


CC6SET-1

### **Integrated coolant system**

Simply fill the coolant tank with Evolution Coolant and open the valve to allow coolant flow. Using coolant extends annular cutter life.

\*Important notice: Always use supplied safety equipment when operating.
Product shown without permanent safety guard and chain for marketing purposes only.



# 7/16" - 1-5/8" DIAMETER x 2" DEPTH ANNULAR CUTTER CAPACITY.

- Quick & easy adjustable head position.
- Heavy-duty magnetic holding power.
- Twist drills up to 1/2" diameter are easily mounted with the supplied chuck and adaptor.
- Integrated coolant system.
- **High quality** construction.
- Spoke handles can be mounted on right or left side.
- approved.

25-3/4" MAX HEIGHT





### Geared specifically to ensure cuts are precise & clean

Designed for productivity and versatility, this mag drill, although relatively small in size, easily handles heavy-duty industrial and fabrication work.



### Fit for industrial use

A combination of power and portability. This compact magnetic drill has ample power to deliver superior performance in heavy-duty industrial and fabrication work.



### 1/2" twist drill capacity

The chuck adaptor easily mounts to the drill, without removing the arbor.

\*Important notice: Always use supplied safety equipment when operating.

Product shown without permanent safety guard and strap for marketing purposes only.



### **Technical Specifications**

Motor (120v ~ 60Hz)	1200W
Amps	10
Horsepower	1.6
RPM (No Load)	450
Recommended Maximum Duty Cycle	30mins
Sound Pressure Level (Under Load)	90dB(A)
Maximum Cutter Diameter	1-5/8"
Maximum Depth Of Cut	2"
Stroke Length	5-1/16"
Magnetic Holding Power	2860lbs
Arbor Bore Diameter	3/4"
Tool Weight	26.5lbs
Head Fully Raised (H x W x D)	25-3/4" x 8-3/4" x 14"
Head Fully Lowered (H x W x D)	16-1/2" x 8-3/4" x 14"
Magnet Dimensions (H x W x D)	1-5/8" x 3-1/2" x 7-1/8"
Shipping Weight	39lbs
Shipping Dimensions (H x W x L)	19-1/4" x 8-1/4" x 22-1/2"
UPC	849713033314
Part Number	EVOMAG42

### **Supplied With**

Carry Case, 1/2" Drill Chuck & Key, Chuck Adaptor, Three Handles, Safety Guard, Coolant Bottle Assembly, Four Hex Keys, Safety Strap & Manual.

### **6 Piece Cutter Sets**

1" Depth Premium Grade Cutter Set	CC6SET-1
Includes 9/16", 5/8", 11/16", 13/16", 15/16" & 1" Diameter	s & Pilot Pins
1" Depth Premium Grade Cutter Set	CC5S6SET-1
Includes 1/2", 9/16", 5/8", 3/4", 7/8" & 1" Diameters & Pilo	ot Pins
2" Depth Premium Grade Cutter Set	CC6SET-2
Includes 9/16", 5/8", 11/16", 13/16", 15/16" & 1" Diameter	s & Pilot Pins
2" Depth Carbide Tipped Premium Grade Cutter Set	CT6SET-2

11



# **EVOLUTION OFFERS A FULL RANGE OF ANNULAR CUTTERS**FOR A WIDE VARIETY OF DRILLING APPLICATIONS

Annular cutters save time and energy when compared to other hole producing methods. While cutting only the periphery of the hole, annular cutters produce a reamed quality, burr-free hole. No step drilling is required & holes are cut quickly and accurately.

Evolution offers two grades of annular cutters to suit different metal cutting requirements; Cyclone Premium Grade M2AL and Carbide Tipped Premium Grade.

### **M2AL HIGH SPEED STEEL ANNULAR CUTTERS:**

M2AL cutters have been developed as an alternative to the more common M2, M35 and M42 cutters. M2AL offers **many advantages** over these traditional cutter types. Tooth hardness is optimized and heat treated to 68HRC to **maximize cutter performance**. M2AL cutters also include a tapered hardness from the shank, through the cutter body and to the cutter teeth. This makes the cutters **more resistant** to the torque created while cutting and thus **prevent breakage**.

### **INCLUDED PILOT PIN:**

Evolution recommends that all annular cutters be **cooled properly** throughout the cut to ensure **cutter life is optimized.** In order to accomplish this, an **included pilot pin** is required so coolant can be delivered directly to the cutting surface. The included pilot pin is yet another **value added feature** that makes Evolution annular cutters **the easy choice** for industrial drilling applications.

### **GUARANTEED QUALITY:**

Evolution knows that project budgets are tight and you expect the **maximum results** from the products you purchase. When it comes to annular cutters, Evolution offers **an unmatched quality guarantee.** If for any reason your annular cutter breaks during a cut, send it to Evolution and it will be evaluated for replacement.

### **♦ EVOLUTION PILOT PINS PROVIDE 3 DISTINCT FUNCTIONS:**

- 1) Ensures coolant is delivered directly to the cutting surface which optimizes cutter life.
- 2) Automatic slug-ejection from the annular cutter at the end of the drilling process.
- 3) Provides hole **drilling accuracy** by aiding center location.



Part Number	Diameter x Length	Cutter Sizes This Pin Fits
PN01	3/16" x 3.0"	CC437, CC27/64, CC29/64
PN02	1/4" x 3.0"	CC500-CC237, CC12MS-CC60MS
PN05	3/16" x 4.0"	CC437L, CC27/64L, CC29/64L
PN06	1/4" x 4.0"	CC500L-CC237L, CC12ML-CC60ML, CT687L-CT237L
PN08	1/4" x 5.0"	For use with Quick Change Adaptor (Part Number: QIANMD)
PN10	1/4" x 6.0"	For use with Quick Change Adaptor (Part Number: QIANMD)
PN2T	5/16" x 4.0"	For use with Quick Change Adaptor (Part Number: QIANMD)
PN3T	5/16" x 5.0"	CC687X-CC237X, CT687X-CT237X
PN4T	5/16" x 6.0"	CC812XL, CC937XL, CC106XL, CC118XL
PN6T (2 Piece Pin)		CC937XLX, CC106XLX, CC118XLX



### **♥** CYCLONE CUTTER SETS

Cyclone premium & carbide tipped annular cutters are available in cased 6 piece sets.

### Premium Cutter Set - 1" Depth Of Cut

Includes six popular size cutters from the Cyclone Premium 1" cutter range containing CC562, CC625, CC687, CC812, CC937, CC100 & Pilot Pins.

Part Number: CC6SET-1

### Premium Cutter Set - 1" Depth Of Cut

Includes six popular size cutters from the Cyclone Premium 1" cutter range containing CC500, CC562, CC625, CC750, CC875, CC100 & Pilot Pins.

Part Number: CC5S6SET-1

### Premium Cutter Set - 2" Depth Of Cut

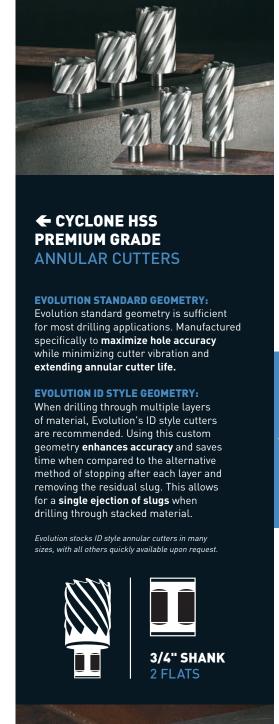
Includes six popular size cutters from the Cyclone Premium 2" cutter range containing CC562L, CC625L, CC687L, CC812L, CC937L, CC100L & Pilot Pins. Part Number: CC65ET-2

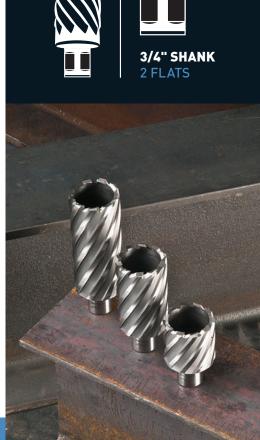
### Premium Carbide Tipped Cutter Set - 2" Depth Of Cut

Includes six popular size cutters from the Cyclone Premium Carbide Tipped 2" cutter range containing CT687L, CT750L, CT812L, CT875L, CT937L, CT100L & Pilot Pins.

Part Number: CT6SET-2

Diameter	Equivalent	1" Depth	2" Depth	3" Depth	4" Depth	6" Depth
7/16"	0.4375"	CC437	CC437L	N/A	N/A	N/A
12mm	0.4724"	CC12MS	CC12ML	N/A	N/A	N/A
1/2"	0.5000"	CC500	CC500L	N/A	N/A	N/A
13mm <b>14mm</b>	0.5118" <b>0.5511"</b>	CC13MS CC14MS	CC13ML CC14ML	N/A N/A	N/A	N/A
9/16"	0.5625"	CC562	CC562L	N/A N/A	<b>N/A</b> N/A	<b>N/A</b> N/A
7/ 10 <b>15mm</b>	0.5905"	CC15MS	CC15ML	N/A	N/A	N/A
5/8"	0.6250"	CC625	CC625L	N/A	N/A	N/A
16mm	0.6299"	CC16MS	CC16ML	N/A	N/A	N/A
17mm	0.6692"	CC17MS	CC17ML	N/A	N/A	N/A
11/16"	0.6875"	CC687	CC687L	CC687X	N/A	N/A
18mm	0.7086"	CC18MS	CC18ML	N/A	N/A	N/A
19mm	0.7480"	CC19MS	CC19ML	N/A	N/A	N/A
3/4"	0.7500"	CC750	CC750L	CC750X	N/A	N/A
20mm	0.7874"	CC20MS	CC20ML	N/A	N/A	N/A
13/16"	0.8125"	CC812	CC812L	CC812X	CC812XL	N/A
21mm	0.8267"	CC21MS	CC21ML	N/A	N/A	N/A
22mm	0.8661"	CC22MS	CC22ML	N/A	N/A	N/A
7/8"	0.8750"	CC875	CC875L	CC875X	N/A	N/A
23mm	0.9055"	CC23MS	CC23ML	N/A	N/A	N/A
15/16"	0.9375"	CC937	CC937L	CC937X	CC937XL	CC937XLX*
24mm	0.9448"	CC24MS	CC24ML	N/A	N/A	N/A
25mm	0.9842"	CC25MS	CC25ML	N/A	N/A	N/A
1"	1.0000"	CC100	CC100L	CC100X	N/A	N/A
26mm 1 1/14"	1.0236"	CC26MS	CC26ML	N/A CC104Y	N/A CC104YI	N/A CC104VLV*
1-1/16" <b>27mm</b>	1.0625" <b>1.0629"</b>	CC106 CC27MS	CC106L CC27ML	CC106X <b>N/A</b>	CC106XL N/A	CC106XLX* N/A
<b>27mm</b> 28mm	1.1023"	CC28MS	CC27ML CC28ML	N/A N/A	N/A N/A	N/A N/A
1-1/8"	1.1250"	CC112	CC112L	CC112X	N/A	N/A
29mm	1.1417"	CC29MS	CC29ML	N/A	N/A N/A	N/A N/A
30mm	1.1811"	CC30MS	CC30ML	N/A	N/A	N/A
1-3/16"	1.1875"	CC118	CC118L	CC118X	CC118XL	CC118XLX*
31mm	1.2204"	CC31MS	CC31ML	N/A	N/A	N/A
1-1/4"	1.2500"	CC125	CC125L	CC125X	N/A	N/A
32mm	1.2598"	CC32MS	CC32ML	N/A	N/A	N/A
33mm	1.2992"	CC33MS	CC33ML	N/A	N/A	N/A
1-5/16"	1.3125"	CC131	CC131L	CC131X	N/A	N/A
34mm	1.3385"	CC34MS	CC34ML	N/A	N/A	N/A
1-3/8"	1.3750"	CC137	CC137L	CC137X	N/A	N/A
35mm	1.3779"	CC35MS	CC35ML	N/A	N/A	N/A
36mm	1.4173"	CC36MS	CC36ML	N/A	N/A	N/A
1-7/16"	1.4375"	CC143	CC143L	CC143X	N/A	N/A
37mm	1.4566"	CC37MS	CC37ML	N/A	N/A	N/A
38mm	1.4960"	CC38MS	CC38ML	N/A	N/A	N/A
<b>1-1/2</b> " 39mm	<b>1.5000"</b> 1.5354"	CC150 CC39MS	CC150L CC39ML	CC150X N/A	<b>N/A</b> N/A	<b>N/A</b> N/A
1-9/16"	1.5625"	CC156	CC156L	CC156X	N/A	N/A
40mm	1.5748"	CC40MS	CC40ML	N/A	N/A	N/A
41mm	1.6141"	CC41MS	CC41ML	N/A	N/A	N/A
1-5/8"	1.6250"	CC162	CC162L	CC162X	N/A	N/A
42mm	1.6535"	CC42MS	CC42ML	N/A	N/A	N/A
1-11/16"	1.6875"	CC168	CC168L	CC168X	N/A	N/A
43mm	1.6929"	CC43MS	CC43ML	N/A	N/A	N/A
44mm	1.7322"	CC44MS	CC44ML	N/A	N/A	N/A
1-3/4"	1.7500"	CC175	CC175L	CC175X	N/A	N/A
45mm	1.7716"	CC45MS	CC45ML	N/A	N/A	N/A
46mm	1.8110"	CC46MS	CC46ML	N/A	N/A	N/A
1-13/16"	1.8125"	CC181	CC181L	CC181X	N/A	N/A
47mm	1.8503"	CC47MS	CC47ML	N/A	N/A	N/A
1-7/8"	1.8750"	CC187	CC187L	CC187X	N/A	N/A
48mm	1.8897"	CC48MS	CC48ML	N/A	N/A	N/A
49mm	1.9291"	CC49MS	CC49ML	N/A	N/A	N/A
1-15/16"	1.9375"	CC193	CC193L	CC193X	N/A	N/A
50mm	1.9685"	CC50MS	CC50ML	N/A	N/A	N/A
<b>2"</b>	<b>2.0000"</b> 2.0078"	CC200 CC51MS	CC200L CC51ML	CC200X N/A	N/A	N/A
51mm <b>52mm</b>	2.0472"	CC52MS	CC52ML	N/A	N/A <b>N/A</b>	N/A <b>N/A</b>
2-1/16"	2.0625"	CC206	CC206L	CC206X	N/A	N/A
53mm	2.0866"	CC53MS	CC53ML	N/A	N/A	N/A
2-1/8"	2.1250"	CC212	CC212L	CC212X	N/A	N/A
54mm	2.1259"	CC54MS	CC54ML	N/A	N/A	N/A
55mm	2.1653"	CC55MS	CC55ML	N/A	N/A	N/A
2-3/16"	2.1875"	CC218	CC218L	CC218X	N/A	N/A
56mm	2.2047"	CC56MS	CC56ML	N/A	N/A	N/A
57mm	2.2440"	CC57MS	CC57ML	N/A	N/A	N/A
2-1/4"	2.2500"	CC225	CC225L	CC225X	N/A	N/A
58mm	2.2834"	CC58MS	CC58ML	N/A	N/A	N/A
2-5/16"	2.3125"	CC231	CC231L	CC231X	N/A	N/A
59mm	2.3228"	CC59MS	CC59ML	N/A	N/A	N/A
60mm	2.3622"	CC60MS	CC60ML	N/A	N/A	N/A
2-3/8"	2.3750"	CC237	CC237L	CC237X	N/A	N/A
	2.5000"	N/A	CC250L	N/A	N/A	N/A
2-1/2"						
2-1/2" <b>2-9/16"</b>	2.5600"	N/A	CC256L	N/A	N/A	N/A
2-1/2" <b>2-9/16"</b> 2-5/8" <b>2-3/4"</b>	<b>2.5600"</b> 2.6200" <b>2.7500"</b>	N/A N/A N/A	CC256L CC262L CC275L	N/A N/A N/A	<b>N/A</b> N/A <b>N/A</b>	N/A N/A N/A







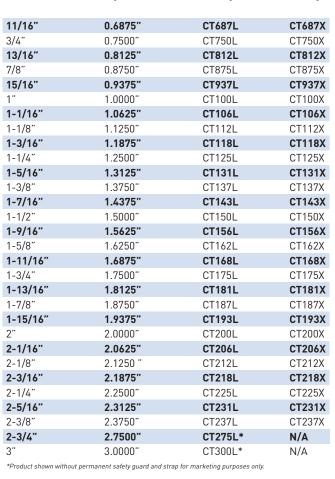
# → CYCLONE PREMIUM GRADE CARBIDE TIPPED ANNULAR CUTTERS

For applications that require drilling in tougher alloys and materials, Evolution recommends using Premium Grade Carbide Tipped Cutters.

Cutter Sizes - Pilot Pin CT687L-CT237L CT687X-CT237X Part Number PN06 PN3T







**Decimal** 

**Equivalent** 

Diameter



3" Depth

2" Depth







Tap Size	Cutter	Decimal Equivalent	1" Depth	2" Depth
1/2"-13 NC	27/64"	0.4219"	CC27/64	CC27/64L
1/2"-20 NF	29/64"	0.4531"	CC29/64	CC29/64L
9/16"-12 NC	31/64"	0.4843"	CC31/64	CC31/64L
9/16"-18 NF	1/2"	0.5000"	CC500	CC500L
5/8"-11 NC	17/32"	0.5312"	CC17/32	CC17/32L
5/8"-18 NF	9/16"	0.5625"	CC562	CC562L
11/16"-11 NS	19/32"	0.5938"	CC19/32	CC19/32L
11/16"-16 NS	5/8"	0.6250"	CC625	CC625L
3/4"-10 NC	21/32"	0.6562"	CC21/32	CC21/32L
3/4"-16 NF	11/16"	0.6875"	CC687	CC687L
7/8"-9 NC	49/64"	0.7656"	CC49/64	CC49/64L
7/8"-14 NF	51/64"	0.7969"	CC51/64	CC51/64L
1"-8 NC	7/8"	0.8750"	CC875	CC875L
1"-12 NF	59/64"	0.9219"	CC59/64	CC59/64L
1"-14 NS	15/16"	0.9375"	CC937	CC937L



# CYCLONE PREMIUM TAP SIZE CUTTERS

For tapping applications, Evolution offers annular cutters which correspond to most standard tap sizes.

Refer to chart to find correct size.

Cutter Sizes - Pilot Pin CC27/64, CC29/64 CC31/64-CC937 CC27/64L, CC29/64L CC31/64L-CC937L Part Number PN01 PN02 PN05 PN06





### CUTTING SPEED SURFACE FEET PER MINUTE

Refer to material chart to find recommended cutter surface feet per minute.



### HARDNESS CONVERSION TABLE

Rockwell C	Brinell
50	481
45	421
40	371
35	327
30	286
25	253
20	222
15	205
10	190
5	169
0	153

	Material	M2AL Cutter (SFPM)				
Carbon Steel	Less than 8 Rockwell	80 - 110				
	8 - 30 Rockwell	45 - 70				
	30 - 40 Rockwell	30 - 45				
	40 - 50 Rockwell	15 - 25				
Stainless	Softer Grades	40 - 60				
	304/316	30 - 40				
	320/320W/Tougher Grades	20 - 30				
Other Alloys (Hard)	Inconel	25 - 40				
	Hastelloy	25 - 40				
	Titanium	30 - 40				
	Malleable Iron	70				
	Manganese	15 - 20				
	Aluminum	300				
	Magnesium	Up to 300				
	Brass	150 - 200				
	Bronze	70 - 100				
Cast Iron	Soft	100				
	Medium	80				
	Hard	50				
	Chilled	25				

Standard Copper

Material	Carbide Cutters (SFPM)
Steel Plate	164
Stainless Steel	115
Cast Iron	131

100



Copper



### SFPM TO RPM CONVERSION TABLE

Refer to SFPM chart to match annular cutter diameter with recommended RPM.

### **Cutter Diameter**

7/16"	1/2"	9/16"	5/8"	11/16"	3/4"	13/16"	7/8"	15/16"	1"	1-1/8"	1-1/4"	1-3/8"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"
(.4375")	(.5000")	(.5625")	(.6250")	(.6875")	(.7500")	(.8125")	(.8750")	(.9375")	(1.000")	(1.125")	(1.25")	(1.375")	(1.50")	(2.0")	(2.5")	(3.0")	(3.5")	(4.0"
87	76	68	61	55	51	47	44	41	38	34	30	28	25	19	15	13	11	9
175	153	137	123	111	103	95	89	82	76	68	60	56	50	38	30	26	22	18
262	229	205	184	166	154	142	133	123	114	102	90	84	75	57	45	39	33	27
349	305	273	245	221	205	189	177	164	153	136	120	112	100	76	60	52	44	36
437	382	342	306	276	256	236	221	206	191	171	151	141	126	95	75	65	55	45
524	458	410	367	331	307	283	265	247	229	205	181	169	151	114	90	78	66	54
611	534	478	428	386	358	330	309	288	268	239	211	197	176	133	105	91	77	63
699	611	546	490	442	410	378	354	329	305	273	241	225	201	153	121	104	88	72
786	687	614	551	497	461	425	398	370	344	307	271	253	226	172	136	117	99	81
873	763	682	612	552	512	472	442	411	382	341	301	281	251	191	151	130	110	90
1048	915	819	735	663	614	566	530	494	458	410	361	337	301	229	181	157	133	108
1223	1068	956	858	773	717	661	619	576	534	478	422	394	351	267	211	183	155	127
1398	1221	1093	980	884	820	755	707	659	611	546	482	450	402	305	241	209	177	145
1572	1373	1229	1102	994	922	849	795	741	687	614	542	506	452	343	271	235	199	163
1747	1526	1365	1225	1104	1024	944	884	823	764	683	602	562	502	382	301	261	221	181
1922	1679	1502	1348	1215	1127	1038	972	906	840	751	663	619	552	420	331	287	243	199
2096	1831	1638	1470	1325	1229	1132	1060	988	916	819	723	675	602	458	361	313	265	217
2271	1984	1775	1592	1436	1331	1227	1149	1070	993	888	783	731	653	496	392	339	287	235
2446	2137	1912	1715	1546	1434	1321	1237	1153	1069	956	843	787	703	534	422	365	309	253
2620	2289	2048	1837	1656	1536	1415	1325	1235	1145	1024	903	843	753	572	452	391	331	271

### → 7 PIECE MINI CUTTER SET

Mini cutters are specially designed to deliver maximum performance for use on hand drills. Offering enhanced performance in speed, quality and durability, Mini cutters will outperform any twist drill or holesaw.

Part Number: EVOMCS-7



Simply wave the magnetic stick over the metal shavings to pick them up, carry them over to the trash, pull the plunger and the shavings





Designed for use on hand drills and ideal for sheet metal, mild steel, stainless steel, aluminum, plastics, HVAC, light piping, conduit, copper and brass.

Set includes 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4" mini cutters with 1/4" depth of cut capacity, 3/8" chuck arbor, 2 pilot pins, center punch, washers, stop washer & wrench.



### **V** CUTTING FLUID **EXTEND THE LIFE OF** YOUR ANNULAR CUTTERS

Evolution offers high quality water soluble semi-synthetic cutting fluid. When mixing, the recommended ratio is one part coolant to 8 parts water (recommendations vary based on application).

**Cutting Fluid Size Part Number** 1 Pint **COOLPT** COOLQT 1 Quart 1 Gallon COOLGAL 5 Gallons COOL5GAL

Use the cooling paste option below with Evolution Magnetic Drilling Systems when coolant cannot be gravity fed.

LPS43100 10oz Cooling Paste

### **◆ STEP DRILLS PREMIUM QUALITY & VALUE**

Evolution Premium Step Drills are made from the same high quality M2AL as Cyclone Premium Annular Cutters. These tools are heat treated to 68RC, giving them more durability during tough applications.

Evolution Premium Step Drills are used to produce a range of hole sizes in steel up to 1/8" thick using only one tool. The twin flute design allows for a smoother cutting action with no pre-drilling necessary. Evolution Premium Step Drills have 3 chucking flats on the driving shank to ensure no slipping in the chuck.

Step Drills	Hole Sizes	Part Number & UPC
	Creates 6 Hole Sizes From 3/16" - 1/2"	SD-6
600 NOTAS	Two Flutes 1/4" Shank	849713027887
	Diameters: 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"	
SIN 20123	Creates 9 Hole Sizes From 1/4" - 3/4"	SD-9
· Carren	Two Flutes 3/8" Shank	849713027894
	Diameters: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"	
	Creates 10 Hole Sizes From 1/4" - 1"	SD-10
-3-2/1	Two Flutes 3/8" Shank	849713027900
	Diameters: 1/4", 13/32", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"	
(December 1)	Creates 11 Hole Sizes From 1/4" - 1-3/8"	SD-11
	Two Flutes 3/8" Shank	849713027917
NIE SOEG	Diameters: 1/4", 25/64", 35/64", 11/16", 13/16", 7/8", 1", 1-1/8", 1-7/32", 1-1/4", 1-3/8"	
	Creates 12 Hole Sizes From 3/16" - 7/8"	SD-12
	Two Flutes 3/8" Shank	849713027924
211-211	Diameters: 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"	

### **▼ EVOLUTION COUNTERSINKS**

Provide the ability to create precision chamfer holes using our magnetic drilling machines. These come standard with a 3/4" shank with two flats.

Size	Countersink	Flute	Degrees	Shank Size
1"	CS823F	3	82	3/4"
1-1/2"	CS823F-15	3	82	3/4"
2"	CS823F-2	3	82	3/4"

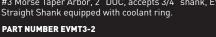
### → EVOLUTION INDUSTRIAL ARBOR

Evolution's Three Morse Taper Arbor increases the versatility and capacity of many machines. It can quickly and easily adapt Evolution cutters to any machine with a Three Morse Taper Gearbox.

### **Evolution Arbor Extensions**

Evolution Arbor Extensions extend the reach of Evolution Drills & Cutters, and are available in 2". 3" and 4".

#3 Morse Taper Arbor, 2" DOC, accepts 3/4" shank, EVMT2-2-2MT Arbor for 3/4"





### **♥** CHUCK & ADAPTOR **DRILLING ACCESSORIES**

Chucks and adaptors enable twist drills to be used with Evolution Magnetic Drills.

### **FOR EVOMAG28** & EVOMAG42: 1/2" Chuck & Key

Part Number: HTA153



### **FOR EVOMAG42:**

Chuck Adaptor\* \*Required to fit the HTA153 1/2" chuck. Part Number: HTA47



### FOR EVOMAG50:

Chuck, Key, and Adaptor Part Number: HTA51 & HTA127



### FOR EVOMAG75:

Chuck, Key, and Adaptor Part Number: HTA51 & HTA53TD



### **Quick Change Adaptor**

Fits competitor's quick change arbors to enable high performance Cyclone Premium Grade Cutters to be used. Requires extended length pilot pin.





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### **Cutting Tool Sharpening Services**

Evolution offers sharpening services to maximize the potential life of any annular cutter.

- Sharpening capabilities include: High Speed Steel Annular Cutters & Carbide Tipped Annular Cutters.
- In addition to sharpening Evolution premium grade cutting tools, our service also extends to sharpening other brands as well.
- This service extends Evolution's promise to offer the highest level of customer service for all Evolution tool needs.

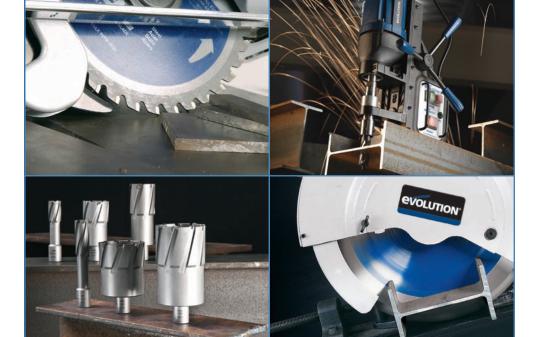
### **Power Tool Repair Services**

Evolution's full service repair department is equipped to promptly handle service on all Evolution products.

• Upon approval of service estimate, Evolution guarantees product to be **repaired and shipped** in no more than 2 business days.







# **INDUSTRIAL STEEL**POWER TOOLS

**Full Range Catalog** 











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