

2011 Catalog





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**Ed Zuzelo, Founder,
Cardinal Saws & Blades
A Bona Fide Industry Trailblazer**

How many of us remember much from 1950? It was the year the US defeated England in the World Cup; comic strip Peanuts debuted; the first TV remote was marketed. And most notably in our industry, Ed Zuzelo founded Cardinal Engineering Corporation.

Few men in the concrete industry go back further than Ed. As the company's CEO, Ed arrives to work and immerses himself in the daily operations of the business.

He is the embodiment of a classic success story. Leaving home in 1941, Ed enrolled at the Drexel Institute of Technology. Reflective of a work ethic he has retained through the years, he earned his way through college working odd jobs. While working as a machinist in 1944, a year before he earned his mechanical engineering degree, Ed received his first patent for the design of a saw for cutting masonry and concrete.

By the mid-50's Cardinal was the only company manufacturing both saws and blades. At this time, Ed's burgeoning company was awarded a contract that involved sawing over 2 million linear feet of joints in green concrete on the West Virginia Turnpike. It was the largest green concrete project of its day. Early in Ed's career, he had proven himself a true pioneer and innovator in his industry.

Since those early beginnings, Ed has acquired over 50 patents in the field of abrasive sawing. More recent patents include the truly universal arbor capable of being mounted on any concrete saw (2002). Today, he takes great pride in Cardinal Saws & Blades' history and his ability to produce blades that offer the lowest cost per unit of sawing.

By the way, if you'd like to talk to Ed, a good bet is to call Cardinal after regular business hours. Most likely he'll be there to pick up the phone. Old work habits die hard.

CARDINAL FACTS AND PHILOSOPHY

PHILOSOPHY: Our business has always been no gimmicks, no giveaways; just quality blades at a fair price to produce the most economical results for the contractor.

LOCATION: Cardinal Saws & Blades is headquartered in suburban Philadelphia at 100 Barren Hill Road, Conshohocken, PA 19428.

Our toll free phone number is 888-503-3353

PRODUCTS: Cardinal designs, manufactures and distributes UPPERCUT Diamond Blades and XP Premium line of Diamond Blades. Cardinal has also reintroduced its line of CreteMaster Universal concrete saws, which can cut concrete at any time. Cardinal has also patented and manufactures the Rapid Rabbit™, Crack Chaser™ and Bevil Devil™, as well as profiling blades, and skid plate refurbishment kits.

CARDINAL UPPERCUT™ and UPPERCUT XP ULTRA PREMIUM™ PERFORMANCE

DIAMOND SAW BLADES...

The most cost-effective solution to random cracking in green concrete for exclusive use on CARDINAL and Soff-Cut™ early entry concrete saws.

Eliminates Raveling

Uses a maximum concentration of high quality, virgin diamond, scientifically distributed and blended in each segment of the saw blade.

Longer Blade Life/ Lower Labor Costs

Manufactured with exclusive, Hi-retention® bonds that secure the diamonds longer and cut faster.

Precision Blade Balance and Alignment

Blade segments are electronically welded to special fatigue-resistant high alloy steel blanks. Each blade is precision-tensioned.

Tremendous Flexibility and Cost Savings

Uniquely shaped arbor hole with World-wide Patent assures a perfect fit – without adaptors – on all Cardinal and Soff-Cut™ Early Entry Saws for cutting Green Concrete.

Cleaner/Smother Joints

Innovative 'Gem Diamond Universal Arbor' with detensos aid in eliminating blade vibration.

CARDINAL UPPERCUT BLADES

are available in seven different matrix specifications for efficient cutting of all aggregates. All diameter blade sizes are available as well as blades of various thicknesses to conform to specific specification requirements.

**GUARANTEED TO CUT FASTER, LAST LONGER,
AND SAVE UP TO 60% OVER SOFF-CUT™ BLADES!**



Cardinal Saws & Blades
100 Barren Hill Road, Conshohocken, PA 19428
1-888-503-3353 • Fax 1-888-504-4434
All Major Credit Cards Accepted • Same Day Shipping
*SOFF-CUT is a registered trademark of Soff-Cut International, Inc.
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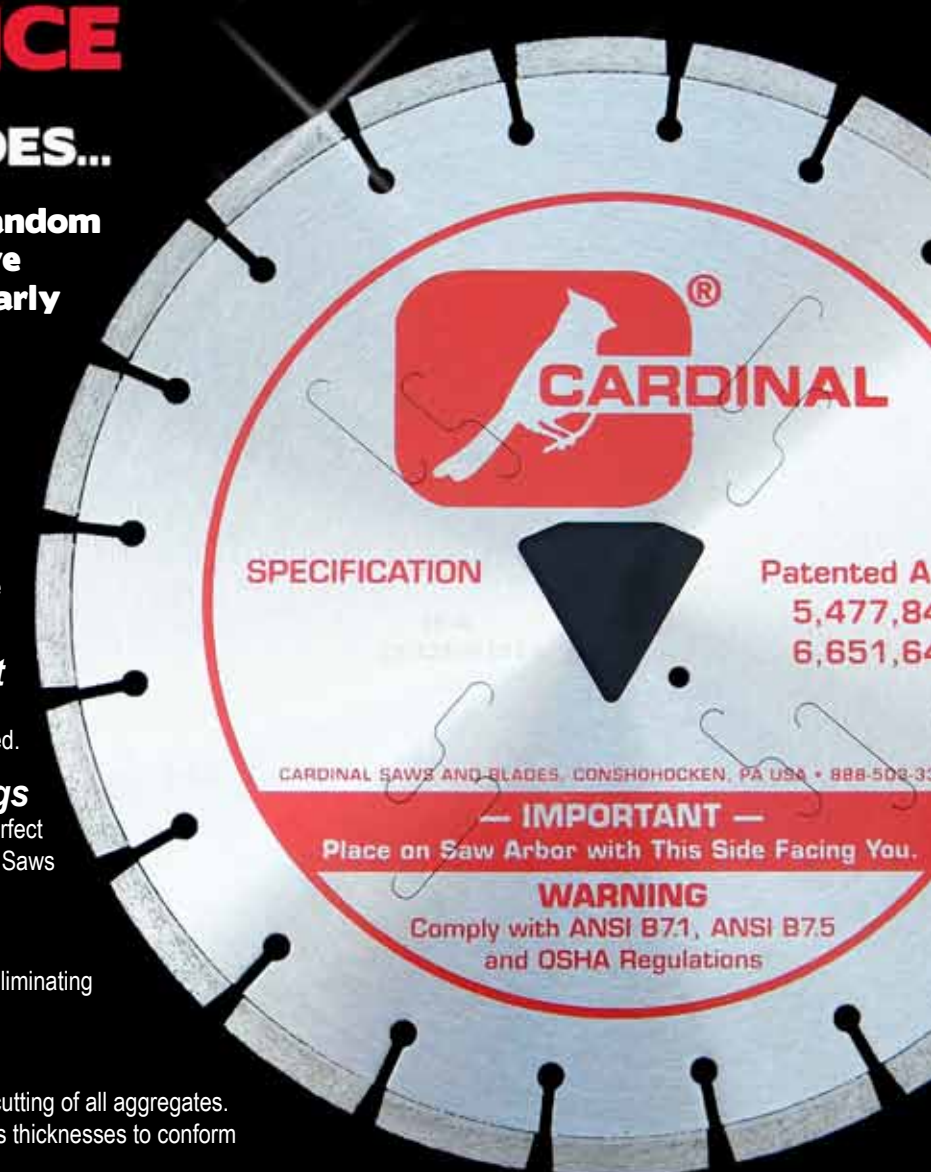
Combining over 60 years of manufacturing and engineering experience and the latest technology aided Cardinal in the development of its UPPERCUT and XP Ultra Premium Early Entry Diamond Saw Blades.

Concrete contractors will appreciate Cardinal's UPPERCUT blade's rapid and precision cutting performance, longer-lasting durability over other competitive diamond blades and its superior flexibility in producing perfect joints.

Add a cost savings as high as 60% over blades sold by the leading early entry saw manufacturer and a performance guarantee and you have the most cost-effective solution to random cracking in green concrete – Cardinal UPPERCUT Diamond Saw Blades.

Cardinal manufacturers Boot 'Em and Cast Away Skid Plate Refurbishment Kits which are available for all models of Soff-Cut™ Saws.

For more information about Cardinal Diamond Saw Blades, or to place an order, call TOLL FREE: 1-888-503-3353 today!





Cardinal UPPERCUT™ Early Entry Diamond Saw Blades

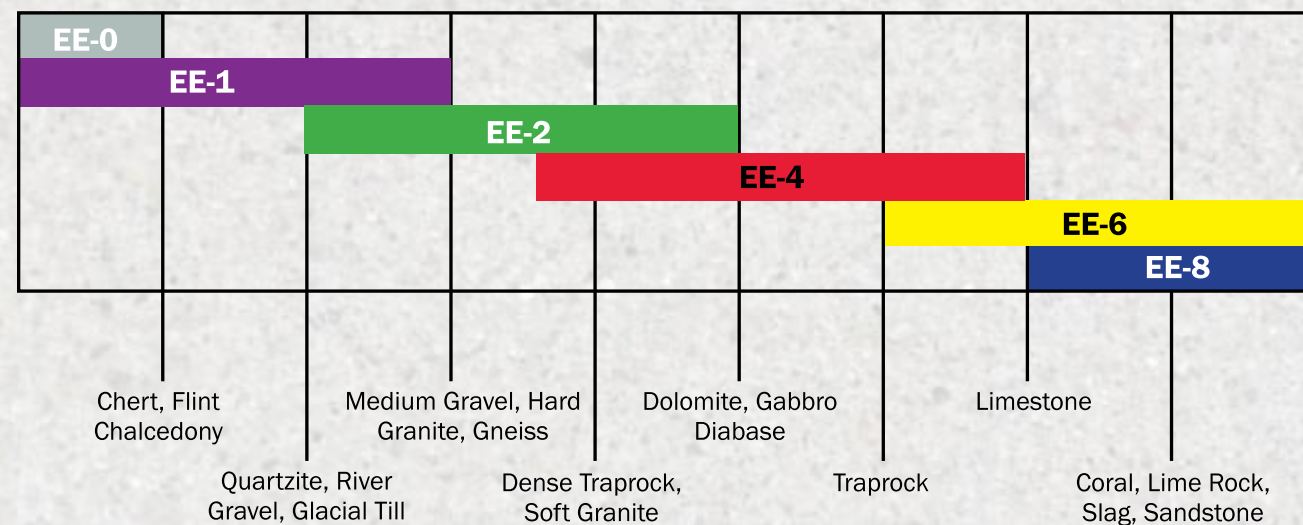
The industry's most cost effective solution to random cracking in green concrete



Blades available in purple, green, orange, and yellow.

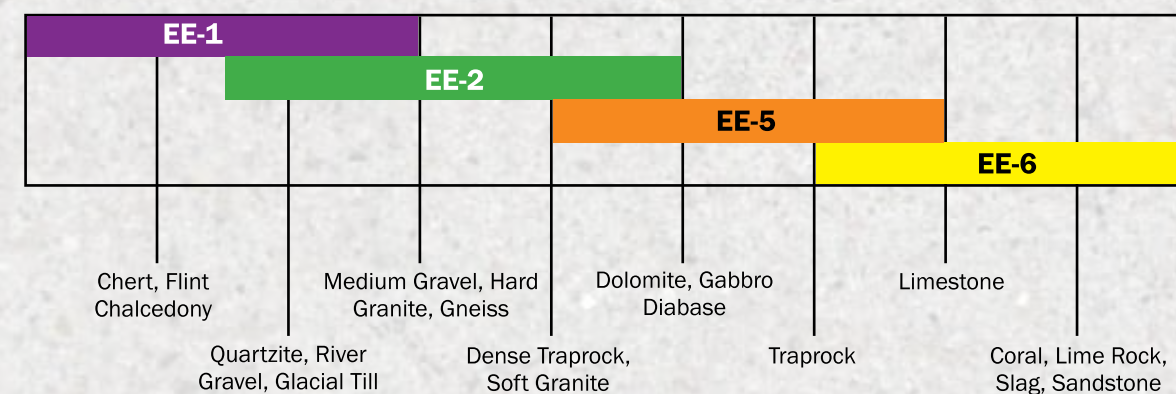


XP Ultra™ Premium Blade Selection



Note: When selecting the correct blade specification the EE-0 is the fastest cutting for any aggregate. As you go up the scale to EE-6 and EE-8 the blade speed will decrease but the life of the blade will increase dramatically. For example, the EE-8 specification would be recommended for cutting soft aggregates such as limestone with the lowest unit blade cost. If you want to avoid blade changing, use either EE-4 or EE-6, these specification will cut practically any aggregate. Also remember as diamond blade bond hardness increases, (from EE-0 to EE-8), sharper sand is required to avoid significant loss of cutting speed.

Blade Selection Guide for Sawing Green Concrete



Note: When selecting the correct blade specification the EE-1 is the fastest cutting for any aggregate. As you go up the scale to EE-6 the blade speed will decrease but the life of the blade will increase dramatically. For example, the EE-6 specification would be recommended for cutting soft aggregates such as limestone with the lowest unit blade cost. If you want to avoid blade changing, use either EE-2 or EE-5, these specification will cut practically any aggregate. Also remember as diamond blade bond hardness increases, (from EE-1 to EE-6), sharper sand is required to avoid significant loss of cutting speed.

Blade Diameter	Blade Thickness	Arbor
10"	.100"	Gem Diamond
12"	.120"	Gem Diamond
13.5"	.120"	Gem Diamond
14"	.120"	Gem Diamond

See blade specifications on next page



XP Ultra™ Premium Blade Specifications

BLADE DIAMETER	BLADE THICKNESS	PART # AND COLOR	SPECIFICATION
10"	0.100"	X100GCZ1 PURPLE	EE-1
		X100GCZ2 GREEN	EE-2
		X100GCZ5 ORANGE	EE-5
		X100GCZ6 YELLOW	EE-6
10"	0.380	X100MMCZ2 GREEN	EE-2
		X100MMCZ5 ORANGE	EE-5
		X100MMCZ6 YELLOW	EE-6
12"	0.250"	X120CCZ1 PURPLE	EE-1
		X120CCZ2 GREEN	EE-2
		X120CCZ5 ORANGE	EE-5
		X120CCZ6 YELLOW	EE-6
12"	0.500	X120ZZCZ1 PURPLE	EE-1
		X120ZZCZ2 GREEN	EE-2
		X120ZZCZ5 ORANGE	EE-5
13 1/2"	0.250"	X135CCZ1 PURPLE	EE-1
		X135CCZ2 GREEN	EE-2
		X135CCZ5 ORANGE	EE-5
		X135CCZ6 YELLOW	EE-6
14"	0.120"	X140GCZ1 PURPLE	EE-1
		X140GCZ2 GREEN	EE-2
		X140GCZ5 ORANGE	EE-5
		X140GCZ6 YELLOW	EE-6



Bevel/Radius Diamond Blades

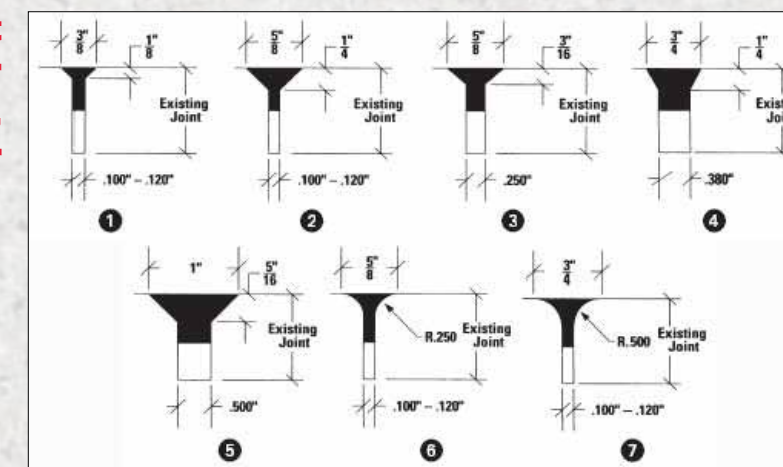


Gem Diamond Arbor for use on Soff-Cut™ Saws



Z-Triangle Arbor for use on CARDINAL Saws

The absolutely finest diamond blades for beveling 1/8", 3/16", 1/4" and 5/16" also for rounding 1/4" and 1/2"



Cardinal Uppercut proprietary, advanced technology, vacuum brazed blades produce perfect configuration for the entire life of the blade and can cost up to 50% less. Compare our prices.

DIA	DIMENSIONS, INCHES			FIGURE NUMBER ABOVE	PART NUMBER		
	SAW CUT WIDTH	45° BEVEL	RADIUS		SOFF-CUT	CARDINAL GEM	CARDINAL Z-TRIANGLE
6	.100-.120	1/8	NA	1	V21	GV-21	ZV-21
6	.100-.120	1/4	NA	2	V23	GV-23	ZV-23
6	.250	3/16	NA	3	V25	GV25	ZV25
6	.380	1/4	NA	4	V38	GV-38	ZV-38
6	.500	5/16	NA	5	V500	GV-500	ZV-500
6	.100-.120	NA	1/4	6	R250	ZR-250	ZR-250
6	.100-.120	NA	1/2	7	R500	GR-500	ZR-500

Note: Radius/V-Blade Kit furnished by SOFF-CUT™ required when using any of the above blade on any model SOFF-CUT™ Saw. **Important Note:** SOFF-CUT™, Cardinal and Uppercut® are registered trade names and trademarks of SOFF-CUT™, International, Inc. or Cardinal Saws & Blades, Inc. respectively. Cardinal is in no way affiliated with SOFF-CUT™, International, Inc.

Covered by one or more of the following Cardinal US and Foreign Patents and other Patents Pending: 6,651,644, 2,514,826, 2,818,058, 2,836,168, 3,001,530, 3,005,450, 3,027,885, 3,027,866, 3,190,045, 3,248,824, 3,301,601, 3,340,863, 3,747,981, 3,789,607, 3,778,810, 3,788,704, R25,077, D196,447, 1,21,884, 212,475, 262,219, 212,253, 289,687, 279,483, 289,686, 762,384, 102,977, 710,368,923,577, 124,642,58,916,675,996, 673,996, 673,388, 954,734, 63688/71, 2,080,516, 6545/71, P210771.4, 1,297,887, 1959/71, 24365/71, 7101424, 62543, 71/5408

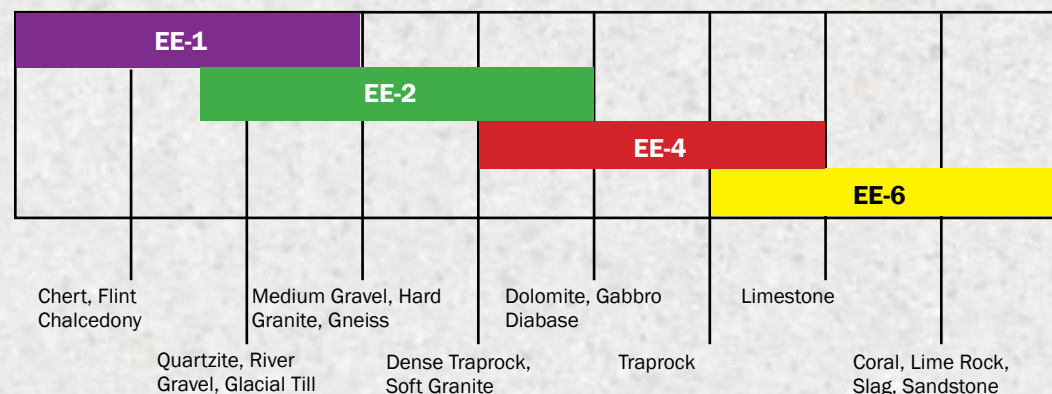


Blades for Cardinal Green Machine Early Entry Concrete Saws



BLADE DIAMETER	BLADE THICKNESS	PART NUMBER AND COLOR	SPECIFICATION
6.5"	0.095"	065ZGA1 PURPLE	EE-1
6.5"	0.095"	065ZGA1 GREEN	EE-2
6.5"	0.095"	065ZGA4 RED	EE-4
6.5"	0.095"	065ZGA6 YELLOW	EE-6
6.5"	0.225"	065ZGE1 PURPLE	EE-1
6.5"	0.225"	065ZGE2 GREEN	EE-2
6.5"	0.225"	065ZGE4 RED	EE-4
6.5"	0.225"	065ZGE6 YELLOW	EE-6
8.5"	0.100"	085ZGA1 PURPLE	EE-1
8.5"	0.100"	085ZGA1 GREEN	EE-2
8.5"	0.100"	085ZGA4 RED	EE-4
8.5"	0.100"	085ZGA6 YELLOW	EE-6
8.5"	0.225"	085ZGE1 PURPLE	EE-1
8.5"	0.225"	085ZGE2 GREEN	EE-2
8.5"	0.225"	085ZGE4 RED	EE-4
8.5"	0.225"	085ZGE6 YELLOW	EE-6

Blade Selection Guide for Sawing Green Concrete



Note: When selecting the correct blade specification the EE-1 is the fastest cutting for any aggregate. As you go up the scale to EE-6 and EE-8 the blade speed will decrease but the life of the blade will increase dramatically. For example, the EE-8 specification would be recommended for cutting soft aggregates such as limestone with the lowest unit blade cost. If you want to avoid blade changing, use either EE-2 or EE-6, these specification will cut practically any aggregate. Also remember as diamond blade bond hardness increases, (from EE-1 to EE-8), sharper sand is required to avoid significant loss of cutting speed.

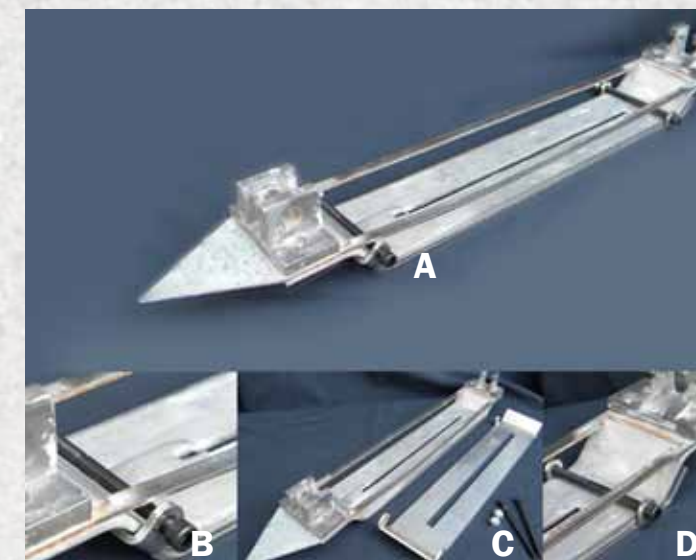


Skid Plate Refurbishing Kits

Cardinal Skid Plate Refurbishment Kits are now available for the old style skid plate that consisted of an assembly and the new style skid plate which is a cast aluminum alloy. Although price the same, the two refurbishment kits are NOT interchangeable. To ensure you order the correct kit, compare your existing skid with the photos below. If you have an old style skid plate you will need to add a 'B' for Boot 'em at the end of the correct length. On the other hand if you have a cast aluminum alloy you will need to add a 'C' for Cast Away at the end of the part number.

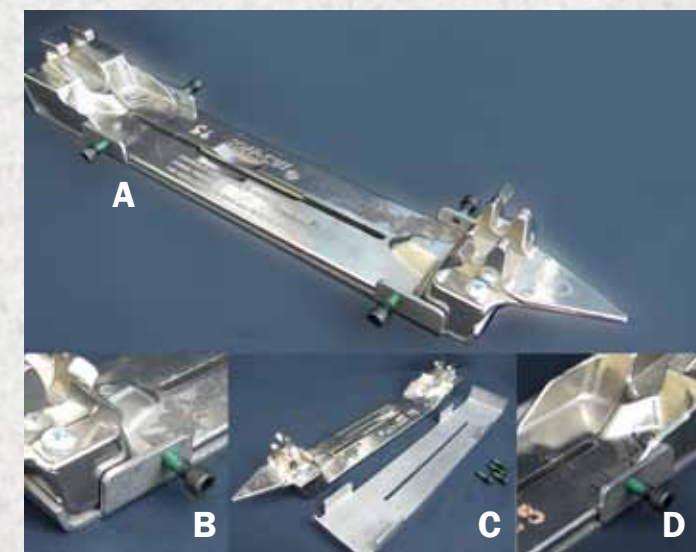
BOOT 'EM

- A. Complete assembly
- B. Rear socket head cap screw
- C. Complete kit
- D. Front socket head cap screw



CAST AWAY

- A. Complete assembly
- B. Insert front into plate and tighten securely
- C. Complete kit
- D. Rear socket head cap screw



See refurbishing kit sizing information on next page



Skid Plate Refurbishing Kit Sizes

STANDARD THIN BLADES		
BLADE DIAMETER	BLADE THICKNESS	PART NUMBER LIST
5" AND 5.5"	0.095"	050 055 ____
6" AND 8"	0.095"	060 080 ____
9" AND 10"	0.100"	090 100 ____
12" AND 13.5"	0.120"	120 135 ____
12" AND 14"	0.120"	140 000 ____

THICK BLADES		
BLADE DIAMETER	BLADE THICKNESS	PART NUMBER LIST
5.15"	0.225"	050 225 ____
6" AND 8"	0.225"	060 225 ____
9" AND 10"	0.250"	090 250 ____
9" AND 10"	0.380"	120 380 ____
9" AND 10"	0.500"	140 500 ____

FOR X-4000 AND GX-4200 SAWS		
BLADE DIAMETER	BLADE THICKNESS	PART NUMBER LIST
12" and 13.5"	0.250"	120 250 ____
12" and 13.5"	0.380"	120 380 ____
12" and 13.5"	0.500"	120 500 ____

FOR X-3090 PAVER SAWS		
BLADE DIAMETER	BLADE THICKNESS	PART NUMBER LIST
12" and 14"	0.250"	140 250 ____
12" and 14"	0.380"	140 380 ____
12" and 14"	0.500"	140 500 ____

Note: Boot 'Em Refurbishment Kits for any thickness blades must be applied to an original Soff-Cut™ skid plate of the same blade thickness. If you do not already have a Soff-Cut™ skid plate for use with thick blades, we can machine a standard width plate at a charge of \$25.



Specifications and Comparison Tables

Diamond Blade Comparison Chart – Soff-Cut™ vs. Cardinal UPPERCUT™

UPPERCUT™ Dry Diamond Blades for fast cutting perfect joints in green concrete for use on ANY Soff-Cut™ early entry concrete saw.

Blade Comparison Chart – Cardinal vs. Soff Cut™ **Thin** Blades for Green Concrete

BLADE DIAMETER	BLADE THICKNESS	PART NUMBER AND COLOR		CARDINAL SPECIFICATION
		SOFF-CUT	CARDINAL	
5"	0.095"	N/A	050DCK2 GREEN	EE-2
		XL5-3000A RED	050DCK4 RED	EE-4
		XL5-5000A YELLOW	050DCK6 YELLOW	EE-6
5 1/2"	0.095"	N/A	055DCK1 PURPLE	EE-1
		N/A	055DCK2 GREEN	EE-2
		XL55-3000A RED	055DCK4 RED	EE-4
		XL55-5000A YELLOW	055DCK6 YELLOW	EE-6
6"	0.095"	XL6-1000 PURPLE	060DCK1 PURPLE	EE-1
		XL6-2000 GREEN	060DCK2 GREEN	EE-2
		XL6-3000 RED	060DCK4 RED	EE-4
		XL6-5000 YELLOW	060DCK6 YELLOW	EE-6
		XL6-6000 BLACK	N/A	EE-8
8"	0.100"	XL8-1000 PURPLE	080DCK1 PURPLE	EE-1
		XL8-2000 GREEN	080DCK2 GREEN	EE-2
		XL8-3000 RED	080DCK4 RED	EE-4
		XL8-5000 YELLOW	080DCK6 YELLOW	EE-6
		XL8-6000 BLACK	N/A	EE-8
9"	0.100"	N/A	090DCK2 GREEN	EE-2
		XL9-3000 RED	090DCK4 RED	EE-4
		XL9-35000 YELLOW	090DCK6 YELLOW	EE-6
		N/A	N/A	EE-8
10"	0.100"	XL10-1000 PURPLE	100GCZ1 PURPLE	EE-1
		XL10-2000 GREEN	100GCZ2 GREEN	EE-2
		XL10-3000 RED	100GCZ4 RED	EE-4
		XL10-5000 YELLOW	100GCZ6 YELLOW	EE-6
		XL10-6000 BLACK	N/A	EE-8
12"	0.120"	XL12-1000 PURPLE	120GCZ1 PURPLE	EE-1
		XL12-2000 GREEN	120GCZ2 GREEN	EE-2
		XL12-3000 RED	120GCZ4 RED	EE-4
		XL12-5000 YELLOW	120GCZ6 YELLOW	EE-6
		XL12-6000 BLACK	N/A	EE-8
13 1/2"	0.120"	XL14-1000 PURPLE	135GCZ1 PURPLE	EE-1
		XL14-2000 GREEN	135GCZ2 GREEN	EE-2
		XL14-3000 RED	135GCZ4 RED	EE-4
		XL14-5000 YELLOW	135GCZ6 YELLOW	EE-6
		XL14-6000 BLACK	N/A	EE-8
14"	0.120"	N/A	140GCZ1 PURPLE	EE-1
		PV14-2000 GREEN	140GCZ2 GREEN	EE-2
		PV14-3000 ORANGE	140GCZ4 RED	EE-4
		XL6-6000 BLACK	140GCZ6 YELLOW	EE-6



Specifications and Comparison Tables

Diamond Blade Comparison Chart – Soff-Cut™ vs. Cardinal UPPERCUT™

UPPERCUT™ Dry Diamond Blades for fast cutting perfect joints in green concrete for use on ANY Soff-Cut™ early entry concrete saw. **Blade Comparison Chart – Cardinal vs. Soff Cut™**

Thick Blades for Wider Joints Green Concrete

BLADE DIAMETER	BLADE THICKNESS	PART NUMBER AND COLOR		CARDINAL SPECIFICATION
		SOFF-CUT	CARDINAL	
5.16"	0.225"	N/A XL5S310-3000A RED	050AACK2 GREEN 050AACK4 RED	EE-2 EE-4
6"	0.225"	N/A XL6-S225-3000A RED	060AACK2 GREEN 060AACK4 RED	EE-2 EE-4
8"	0.225"	N/A XL8S225-3000 RED XL8S225-5000 YELLOW	080AACK2 GREEN 080AACK4 RED 080AACK6 YELLOW	EE-2 EE-4 EE-6
10"	0.250"	N/A XL10S14-3000 RED XL10S14-5000 YELLOW	0100CCCZ2 GREEN 0100CCCZ4 RED 0100CCCZ6 YELLOW	EE-2 EE-4 EE-6
10"	0.380"	N/A XL-10S38-3000 RED XL-10S38-5000 YELLOW	100MMCZ2 GREEN 100MMCZ4 RED 100MMCZ6 YELLOW	EE-2 EE-4 EE-6
12"	0.250"	N/A PV12S14-2000 GREEN XL12S14-3000 RED XL12S14-5000 YELLOW	120CCCZ1 PURPLE 120CCCZ2 GREEN 120CCCZ4 RED 120CCCZ6 YELLOW	EE-1 EE-2 EE-4 EE-6
12"	0.380"	N/A N/A XL12S38-3000 RED XL12S38-5000 YELLOW	120MMCZ1 PURPLE 120MMCZ2 GREEN 120MMCZ4 RED 120MMCZ6 YELLOW	EE-1 EE-2 EE-4 EE-6
12"	0.500"	N/A PV12S50-2000 GREEN XL12S50-3000 RED XL12S50-5000 YELLOW	120ZZCZ1 PURPLE 120ZZCZ2 GREEN 120ZZCZ4 RED 120ZZCZ6 YELLOW	EE-1 EE-2 EE-4 EE-6
13.5"	0.250"	N/A N/A XL14S14-3000 RED XL14S14-5000 YELLOW	135CCCZ1 PURPLE 135CCCZ2 GREEN 135CCCZ4 RED 135CCCZ6 YELLOW	EE-1 EE-2 EE-4 EE-6
13.5"	0.380"	N/A N/A XL14S38-3000 RED XL14S38-5000 YELLOW	135MMCZ1 PURPLE 135MMCZ2 GREEN 135MMCZ4 RED 135MMCZ6 YELLOW	EE-1 EE-2 EE-4 EE-6
14"	0.250"	N/A PV14S14-2000 GREEN PV14S14-4000 ORANGE PV14S14-6000 BLACK	140CCCZ1 PURPLE 140CCCZ2 GREEN 140CCCZ4 RED 140CCCZ6 YELLOW	EE-1 EE-2 EE-4 EE-6
14"	0.380"	N/A PV14S38-2000 GREEN PV14S38-4000 ORANGE PV14S38-6000 BLACK	140MMCZ1 PURPLE 140MMCZ2 GREEN 140MMCZ4 RED 140MMCZ6 YELLOW	EE-1 EE-2 EE-4 EE-6



Rapid Rabbit™ Crack Chasers

The industry's fastest, easiest-to-use equipment for routing random cracks in concrete and asphalt.



Available with 13.5 HP and 22 HP Subaru gas engines for every size job.

Features:

- Extremely operator friendly
- Center mounted blade makes following random cracks easy and accurate
- Rapid Rabbit Crack Chaser are safer to operate than carbide cutter units
- Eliminates percussive fractures often caused by carbide cutters
- Uses economical CARDINAL Diamond Blades for extra smooth routing of even the most erratic random cracks
- Depth of cut indicator directly in operator's line of sight minimizes cutting too deep and saves on sealant costs
- Patented Z-Triangle Arbor prevents blade from turning on arbor eliminating the need to replace expensive spindle shafts
- Produces a perfect sealant reservoir for maximum pavement life
- Standard options include dry cutting with spray mist and vacuum attachment
- Push button electric depth control on the handle
- Subaru engine with Cyclone air filter for extended engine life

See additional Rapid Rabbit specifications on next page



Rapid Rabbit Technical Specifications

Model	RR-22	RR-13.5
Materials cut	Cured concrete and asphalt	Cured concrete and asphalt
Blade Width	.250", .375", .500", .750"	.250", .375", .500"
Blade Rotation	Down-cut as viewed by operator	Down-cut as viewed by operator
Blade Shaft Speed	4600 rpm	4600 rpm
Cutting Depth	1-1/2" (38mm) 1-1/4" end-of-life	1-1/2" (38mm) 1-1/4" end-of-life
Dimensions		
Handle Up Most Position	46"x31"x53"	43"x24"x50"
Handle Down Most Position	64"x31"x38"	62"x24"x29"
Engine	22HP (16.4KW) Subaru Robin Model EH-65, air cooled, 4 cycle, V-Twin cylinder, overhead valve gasoline engine	13.5HP (9.9KW) Subaru Robin Model EH-41, air cooled, 4 cycle, single slant cylinder, overhead valve gasoline engine
Starting System	Electric Start with automatic mechanical compression release and zero kick back	Manual recoil starter/Electric Start with automatic mechanical compression release and zero kick back
Air Filter	Heavy Duty	Dual element cleaner; Cyclone filter
Oil System	Oil alert with automatic shutdown sensor	Oil alert with automatic shutdown sensor
Blade Raise/Lower System	Electric actuated with switch on handle bar	Electric actuated with switch on handle bar
Handle	Six position adjustable	Six position adjustable
Wheels	Hard poly or foam filled	Hard poly
Weight/Shipping Weight	470 pounds	270 pounds

BLADE DIAMETER	BLADE THICKNESS	ASPHALT PART #	CONCRETE PART #
6"	0.250"	R62504	R62501
6"	0.375"	R63754	R63751
6"	0.500"	R65004	R65001
6"	0.750"	R67504	R67591

6" BEVEL BLADE	
R63751B	6"x 0.375
R65001B	6"x 0.500

Approx. Existing Crack Width	Finished Routed Width
1/4"	3/8"
3/8"	1/2"
1/2"	5/8"
3/4"	7/8"
1"	1 1/8"

Warning: Engine exhaust from this product may contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Before operation be certain you comply with ANSI Codes B 7. 1 and B 7.5 copies of which are available from the American National Standards Institute, 1430 Broadway, New York, NY 10018



Bevel Devil™



- Bevel or round joint cutting.
- Random decorative or straight line cutting.
- Electromechanical depth control and blade wear compensation on decorative model.
- More than 6 different size blades for any job!
- Self-propelled optional on straight line model.
- Vacuum systems for EPA compliance

Bevel Devil Straight Line

Model # BDSL - For bevel, radius or square cutting of existing saw cut joints and scoring of current concrete. Available in self-propelled or push styles .

Bevel Devil Decorative*

Model # BDCC - For decorative bevel or radius of cured concrete, scoring of existing saw cuts and square cutting or decorative surfaces.

* (Decorative model available with blade wear compensation or use with Cardinal's Premium line of Bevel, Radius and Square Diamond Blades.)

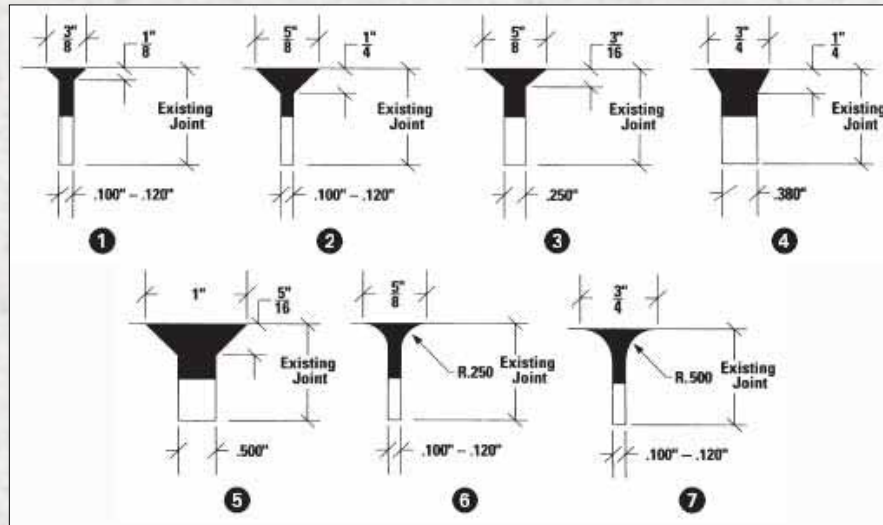
- 4.5 H.P. Robin engine standard on all push models (6 H.P. Optional).
- 6 H.P. Robin engine standard on self propelled BDSL.
- 1-1/2" vacuum dust boot standard on all models.
- 5400 RPM blade spindle, 3/4" spindle shaft with sealed bearings and Patent "Z" Arbor.

See Bevel Devil specifications on next page



Bevel Devil Technical Specifications

	BDSL	BDSLSP	BDDC
Dimensions W x L (with handle extended)	16"x49"	16"x49"	22"x50"
Oil System	Oil alert with automatic shutdown sensor		
Air Filter	Dual element cleaner; Cyclone filter		
Weight	110 lbs	146 lbs	



DIA	DIMENSIONS, INCHES			FIGURE NUMBER ABOVE	CARDINAL PART NUMBER
	SAW CUT WIDTH	45° BEVEL	RADIUS		
6	.100-.120	1/8	NA	1	ZV-21
6	.100-.120	1/4	NA	2	ZV-23
6	.250	3/16	NA	3	ZV25
6	.380	1/4	NA	4	ZV-38
6	.500	5/16	NA	5	ZV-500
6	.100-.120	NA	1/4	6	ZR-250
6	.100-.120	NA	1/2	7	ZR-500



Cardinal CreteMaster™ Self-Propelled Universal Concrete Saws

Available with a 6 HP, 9 HP or 13.5 HP gas engine delivers an immediate boost to your bottom line.

- An easier to use, larger model concrete saw for wet or dry cutting, water jet included as standard equipment.
- An ideal solution for industrial and commercial projects.



See Crete Master specifications on next page



CreteMaster™ Specifications

Specifications	CM600	CM900	CM13.5
Dimensions	Handle collapsed - 16"W X 42"L, Handle extended - 16"W X 49"L	Handle collapsed - 16"W X 42"L, Handle extended - 16"W X 49"L	Handle collapsed - 16"W X 42"L, Handle extended - 16"W X 49"L
Weight	149 lbs.	261 lbs.	284 lbs.
Blade Raise/Lower system	Manual Release and engagement near handle	Electro Mechanical	Electro Mechanical
Guide System	Convenient self-extending/collapsible front and rear guides	Convenient self-extending/collapsible front and rear guides	Convenient self-extending/collapsible front and rear guides
Handle	Telescoping type with infinitely adjustable length	Telescoping type with infinitely adjustable length	Telescoping type with infinitely adjustable length
Cutting Distance From Wall	3-1/4"	4-1/4"	4-1/4"
Blade Specifications			
Blade Diameter	Standard: 6-1/2" X 0.095 or 0.0225 thick wet or dry cut with patent Z-Arbor Optional on larger saws: 12" or 14" blade	Standard: 8-1/2" X 0.095 or 0.0225 thick wet or dry cut with patent Z-Arbor Optional on larger saws: 12" or 14" blade	Standard: 8-1/2" X 0.095 or 0.0225 thick wet or dry cut with patent Z-Arbor Optional on larger saws: 12" or 14" blade
Blade Rotation	Counter Clockwise, up cutting	Counter Clockwise, up cutting	Counter Clockwise, up cutting
Blade Shaft Speed	5400 RPM/6.5" blade	4500 RPM/8.5" blade	4500 RPM/8.5" blade
Cutting Depth	1/2" to 1-1/2"(13mm-38mm) regardless of blade wear(new blade cutting depth of 1-3/4")	1/2" to 2-1/4"(13mm-38mm) regardless of blade wear(new blade cutting depth of 2-1/2")	1/2" to 2-1/4"(13mm-38mm) regardless of blade wear(new blade cutting depth of 2-1/2")
Engine Specifications			
Gasoline Engine	6 HP (4.2 KW) Subaru Robin Model EX-17 vibration free, air cooled, 4 cycle, single slant cylinder, overhead Camshaft gasoline engine	9 HP Subaru Robin Model EX27 vibration free, air cooled, 4 cycle, single slant cylinder, overhead Camshaft gasoline engine	13.5 HP Subaru Robin Model EX-17 vibration free, air cooled, 4 cycle, single slant cylinder, overhead Camshaft gasoline engine
Engine Model	6 HP EX17	9 HP EX27	13.5 HP EH41
Average Cutting Rates*			
Soft Aggregates	15 to 30 ft/min (4.7 to 9.4m/min)	15 to 30 ft/min (4.7 to 9.4m/min)	15 to 30 ft/min (4.7 to 9.4m/min)
Medium Aggregates	10 to 20 ft/min (3.0 to 6.0 m/min)	10 to 20 ft/min (3.0 to 6.0 m/min)	10 to 20 ft/min (3.0 to 6.0 m/min)
Hard Aggregates	5 to 10 ft/min . (1.6 to 3.2 m/min)	5 to 10 ft/min . (1.6 to 3.2 m/min)	5 to 10 ft/min . (1.6 to 3.2 m/min)

* Estimates only. Speed will vary with job conditions and concrete mixtures.



Early Entry Green Concrete Saw The Green Machine™ Series

The original light weight, available with a 4.5 HP or 6 HP gas engine, push or self-propelled



Cutting depth: 1/2" to 1.5" (13mm – 38mm) regardless of blade wear (new blade cutting depth of 1.75")



The Green Machine Series is sold internationally only

CARDINAL Early Entry Saw and unique Green Sawsing Technique

- eliminating random cracks
- prevent unsightly raveling
- minimize joint chipping and spalling
- low cost 6½" blade cuts 1¾" deep

CARDINAL is innovator of the industry's original early entry saw for cutting uncured green concrete

CARDINAL developed the world's first Green Machine Early Entry saw. And, continuing this tradition of innovation, CARDINAL has developed an early entry saw to handle any size job, indoors or outdoors.

The CARDINAL GM-SERIES

- Equipped with patented FlatTrac wheels which permit the cutting operation to proceed often within one to two hours after the finishing process is completed... your time on-the-jobsite is minimized
- Has a low price tag yet outperforms more expensive Soff-Cut™ saws.
- Uses the lowest cost, fastest cutting CARDINAL DIAMOND Blades
- Does not require expensive skid plates that can scratch and damage concrete surfaces and need to be replaced with every blade.

See Green Machine specifications on next page



Green Machine™ Specifications

Physical/Mechanical Specifications	The CARDINAL GM Series
Dimensions	Handle collapsed – 16” width x 42” length Handle extended – 16” width x 49” length
Weight	100 pounds
Blade raise/lower system	Manual release and engagement near handle bar
Guide System	Convenient self-extending front and rear guides
Handle	Telescoping type with infinitely adjustable length
Cutting distance from wall	3.5”
Blade Specifications	
Blade type	6.5” diameter x .095” or 0.225 thick dry cut with patented Z Arbor
Blade rotation	Counter clockwise, up cutting
Blade shaft speed	5400 RPM
Engine Specifications	
Gas-powered engine	4.5 HP (3.2KW) Subaru Robin Model EX-13 vibration-free, air-cooled 4 cycle, single slant cylinder, overhead camshaft gasoline engine. <i>Optional: 6.0 HP EX-17 available on self-propelled models only.</i>
Recommended Engine Speed	3600 RPM
Controls	Engine mounted manual throttle, choke and fuel shut off levers, manual on/off switch
Starting System	Manual recoil starter with automatic mechanical compression release and zero kick back
Average Cutting Rates*	
Soft aggregates	15 ft./min. (4.7 m/min.)
Medium aggregates	10 ft./min. (3.0 m/min.)
Hard aggregates	5 ft./min. (1.6 m/min.)

* Estimates only. Speed will vary with job conditions and concrete mixtures

Performance Guarantee

If you are dissatisfied for any reason with the performance of Cardinal Diamond™ blades, please complete the information on the form below or on the reverse side of your warranty and mail it to the address below. We will refund or credit you promptly in accordance with your request with an equitable, fair adjustment based on information supplied.

Note: *Used blade must be returned with warranty.*

Cardinal Saws and Blades
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