



Diamond Tools and Equipment

PRODUCT CATALOG

Quality You Can Count On

ICS® Diamond Tools & Equipment is the professional concrete cutter's choice in superior quality concrete cutting equipment. For nearly 30 years, we have led the industry in chain based concrete and pipe cutting solutions and, we're just getting started.

ICS® pioneered Diamond Chain Technology™ so that professionals and homeowners have tools that will cut through the toughest stuff ever made. Our concrete-cutting diamond chains are designed and manufactured in Portland, USA. Our revolutionary SealPro and Seal Pro Advanced anti-stretch technologies significantly reduce chain stretch, so you spend less time tensioning your chain.

Our patented PowerGrit® pipe cutting chain allows you to cut ductile iron, HDPE and PVC pipe in a confined space with no fear of rotational kickback.

ICS diamond chains coupled with our best-in-class guidebars and powerheads gives you a cutting system that can plunge cut up to 63 cm deep. Our system also allows you to cut tight radiuses and clean, square corners with no overcuts. All our powerheads are designed for wet cutting and have integrated water delivery systems that reduce airborne particles during the cut. Your job demands power and precision. ICS provides cutting systems that allow you to get your job done quickly and safely compared to other cutting methods.

Service You Can Count On

Headquartered in Portland, Oregon, ICS® has a sales and distribution office in Belgium and a worldwide sales and service network covering more than 70 countries. ICS® products are sold and supported by a network of Authorized Dealers and backed by a comprehensive network of factory-trained personnel and service centers.

The ICS® family of brands are the professional concrete, pipe, and stone cutter's choice for superior chain-based cutting systems.

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695XL - GC

30, 35 & 40cm



FORCE3® STANDARD

Fast cutting, economical

FORCE3® ABRASIVE

Excels in abrasive materials

FORCE3® PREMIUM

For heavy aggregate & rebar

695XL - F4

30, 40 & 50cm



FORCE4® STANDARD

General purpose

FORCE4® PREMIUM L

Delivers longer life

FORCE4® PREMIUM S

Speed and cutting efficiency

FORCE4® ABRASIVE

Excels in abrasive materials

FORCE4® TEXAS

Optimized for hard materials

FORCE4® CROSS-LINK

Faster cuts, smoother handling

FORCE4® SANDWICH

Improved cut straightness

695XL - PG

30, 40 & 50cm



POWERGRIT® CHAIN

Designed to cut ductile iron, cast iron, AC pipe, clay pipe, and PVC

POWERGRIT® XL CHAIN

Specifically designed to cut high-density polyethylene (HDPE)

695XL PETROL POWER CUTTERS

695XL - PETROL POWER

4.8 kW horsepower
94 cc displacement
1.4 bar water supply
8 lpm water flow
50:1 (2%) fuel mix



680ES - GC

25, 30 & 35 cm



OPERATES:

FORCE3® STANDARD

Fast cutting, economical

FORCE3® ABRASIVE

Excels in abrasive materials

FORCE3® PREMIUM

For heavy aggregate & rebar

680ES - PG

25 cm



OPERATES:

POWERGRIT®

Designed to cut ductile iron, cast iron, AC pipe, clay pipe, and PVC

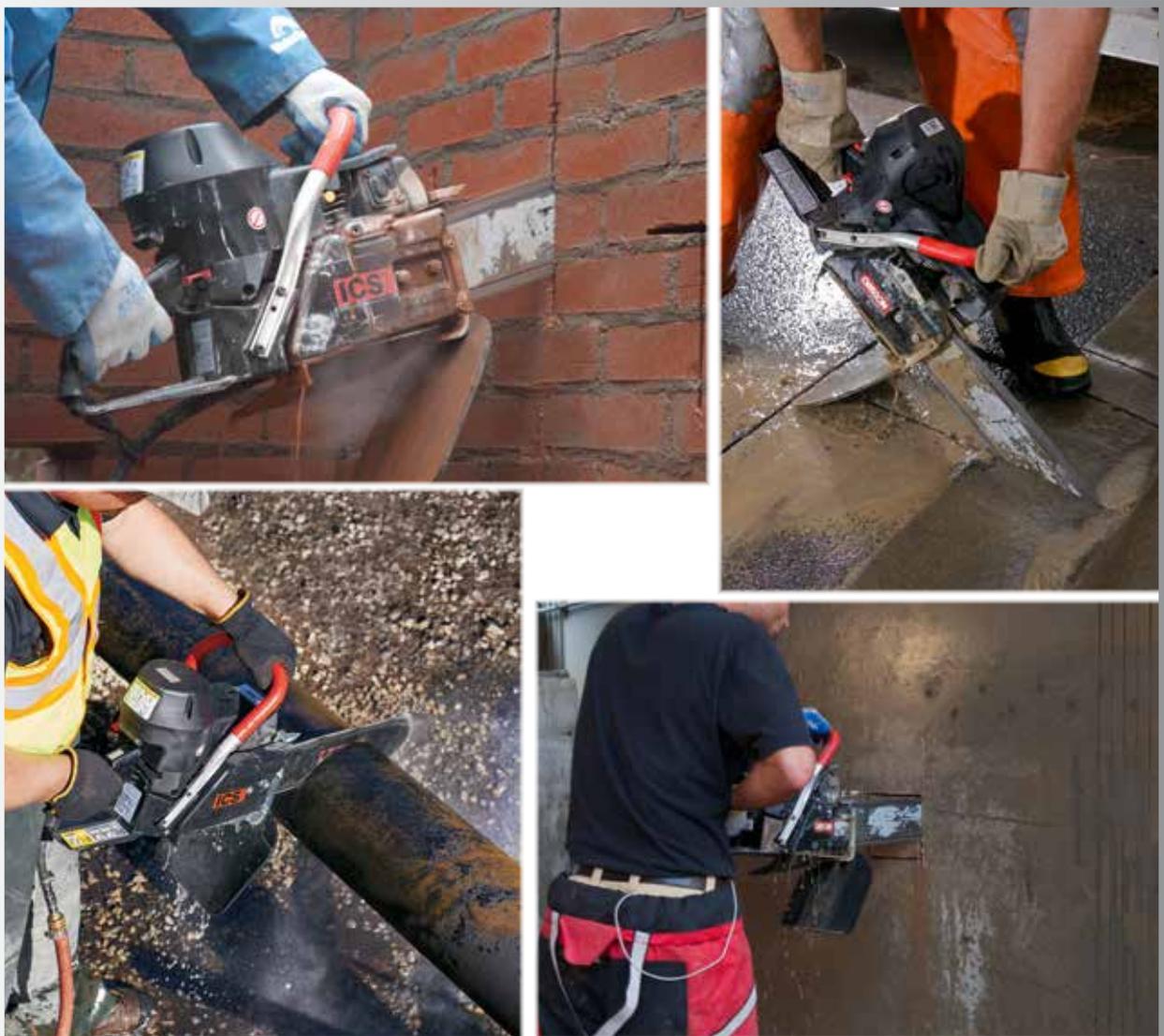
POWERGRIT XL

Specifically designed to cut high-density polyethylene (HDPE)

680ES PETROL POWER CUTTERS

680ES PETROL POWER

3.7 kW horsepower
76.5 cc displacement
1.4 bar water supply
8 lpm water flow
50:1 (2%) fuel mix



890F4

25, 38, 50 & 63 cm



BOTH STANDARD AND FLUSH CUT OPERATE:

FORCE4® STANDARD

General purpose

FORCE4® PREMIUM L

Delivers longer life

FORCE4® PREMIUM S

Speed and cutting efficiency

FORCE4® ABRASIVE

Excels in abrasive materials

FORCE4® TEXAS

Optimized for hard materials

FORCE4® CROSS-LINK

Faster cuts, smoother handling

FORCE4® SANDWICH

Improved cut straightness

POWERGRIT®

Designed to cut ductile iron, cast iron, clay pipe, and PVC

POWERGRIT® XL

Specifically designed to cut high-density polyethylene (HDPE)



890F4 FLUSH

25, 38, 50 & 63 cm

(cuts 4.8mm from wall/floor)

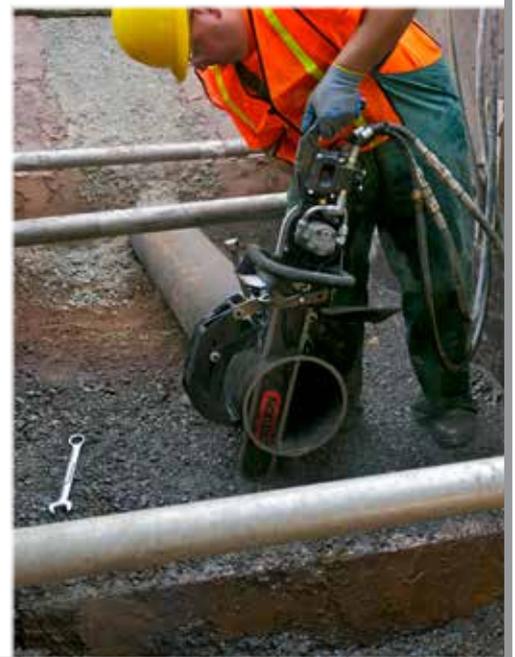
890 HYDRAULIC POWER CUTTERS

890F4 HYDRAULIC POWER 30l/min (8gpm)

4.6 kW horsepower
9.6 Nm torque
172.5 bar hydraulic supply
1.4 bar water supply
8 lpm water flow

890F4 HYDRAULIC POWER 45l/min (12gpm)

6 kW horsepower
13.5 Nm torque
172.5 bar hydraulic supply
1.4 bar water supply
8 lpm water flow



701-A

25, 38, 50 & 63 cm



OPERATES:

FORCE4® STANDARD

General purpose

FORCE4® PREMIUM L

Delivers longer life

FORCE4® PREMIUM S

Speed and cutting efficiency

FORCE4® ABRASIVE

Excels in abrasive materials

FORCE4® TEXAS

Optimized for hard materials

FORCE4® CROSS-LINK

Faster cuts, smoother handling

FORCE4® SANDWICH

Improved cut straightness

POWERGRIT®

Designed to cut ductile iron, cast iron, clay pipe, and PVC

POWERGRIT® XL

Specifically designed to cut high-density polyethylene (HDPE)

701-A PNEUMATIC POWER CUTTER

701-A PNEUMATIC POWER

5 kW horsepower
6 bar 3.5m³/min air supply requirements
1.4 bar water supply
8 lpm water flow



ICS[®] DIAMOND CHAIN

SUPERIOR QUALITY CUTTING

FORCE4[®]

CONCRETE CUTTING CHAIN



FORCE3[®]

CONCRETE CUTTING CHAIN



POWERGRIT[®]

PIPE CUTTING CHAIN



CHAIN SELECTION CHART

◆	GOOD
◆◆	BETTER
◆◆◆	EXCELLENT
◆◆◆◆	BEST

Chain Types		Power Cutter Compatibility	Abrasive natural stone/brick	Soft natural stone	Medium concrete/light reinforcement	Hard concrete/heavy reinforcement	Ductile iron/cast iron ac pipe*/clay pipe/PVC	HDPE
FORCE3® General purpose	680ES GC 695XL GC			◆◆	◆◆			
FORCE3® Premium For harder materials	680ES GC 695XL GC		◆◆	◆◆◆	◆◆◆			
FORCE3® Brick Ideal for brick & block	680ES GC 695XL GC	◆◆◆◆						
FORCE4® General purpose	890 Series 701-A 695XL F4		◆◆	◆◆◆	◆			
FORCE4® Premium L Longer Cutting life	890 Series 701-A 695XL F4		◆	◆◆	◆◆◆			
FORCE4® Premium S Faster cutting speed	890 Series 701-A 695XL F4		◆	◆◆	◆◆◆			
FORCE4® Abrasive Ideal for brick & block	890 Series 701-A 695XL F4	◆◆◆◆						
FORCE4® Texas Edition Excellent for very hard aggregate	890 Series 701-A 695XL F4				◆◆◆◆			
FORCE4® Sandwich Segment Longer side clearance	890 Series 701-A 695XL F4		◆	◆◆	◆◆◆			
FORCE4® Cross-LINK Faster cutting. Longer lasting	890 Series 701-A 695XL F4		◆◆◆	◆◆◆	◆◆◆			
PowerGrit® General purpose utility pipe	890 Series 701-A 695XL PG 680ES PG					◆◆◆		
PowerGrit® XL Improved performance in utility pipe	890 Series 701-A 695XL PG 680ES PG					◆◆◆◆	◆◆◆	

* Asbestos is a hazardous material, known to cause serious respiratory diseases. Cutting into asbestos can release asbestos fibers into the air. Always research and follow the correct safety procedures, including applicable national and state or provisional occupational health and safety regulations, and protect yourself and those around you from asbestos-related disease. Always arrange for the material to be removed safely by a qualified person. ICS is not responsible for exposure to asbestos caused by use of this product.

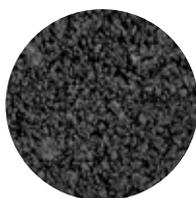
ICS® DIAMOND CHAIN

FORCE4 DIAMOND CHAIN



Designed to be the strongest, longest-lasting diamond chains ever made. The FORCE4 series delivers unrivaled performance in professional cutting applications. With 7 different configurations, there is a FORCE4 chain to meet any cutting challenge.

CROSS-LINK®		FASTER CUTS, SMOOTHER HANDLING, LONGER LIFE
FORCE4® Standard		TOUGH, GENERAL PURPOSE DIAMOND CHAIN
FORCE4® Premium L 		DELIVERS LONGER LIFE IN HARD AGGREGATE
FORCE4® Premium S 		SPEED AND STRENGTH IN ONE DIAMOND CHAIN
FORCE4® Abrasive		EXCELS IN THE ABRASIVE CUTTING ENVIRONMENTS
FORCE4® Sandwich		IMPROVED CUT STRAIGHTNESS AND LONGER SIDE CLEARANCE
FORCE4® Texas Edition		SOFT SEGMENT FOR VERY HARD MATERIALS





THE FORCE4® PLATFORM EXCLUSIVELY FROM ICS.

All components work together to deliver unrivaled performance in professional cutting applications

ICS FORCE4® Diamond Chain

Rivet design means less stretch

50% greater tensile strength to reduce breaking

Patented pitch design creates the optimal combination of weight and strength

Water distribution feature allows for better lubrication between bar and chain

Deep engagement drive links help keep cuts straight

Patented SealPRO® O-ring and bumper design for smooth cutting performance and maximum life

ICS FORCE4® Drive Sprockets

Upgraded guide ring design distributes load for greater durability

Tool steel alloy guarantees exceptional strength, life and abrasion resistance.

Available for 695XL, 890F4, 890F4 Flush & 701-A power cutters

ICS FORCE4® Guidebars

Laser-cut internal water channels keep the nose sprocket lubricated

Deep groove stabilizes FORCE4 bar chassis for straighter, cleaner cuts

Available in 25, 38, 50 and 63 cm cutting depths



ICS FORCE4®
Diamond Chain



ICS FORCE4®
Drive Sprocket

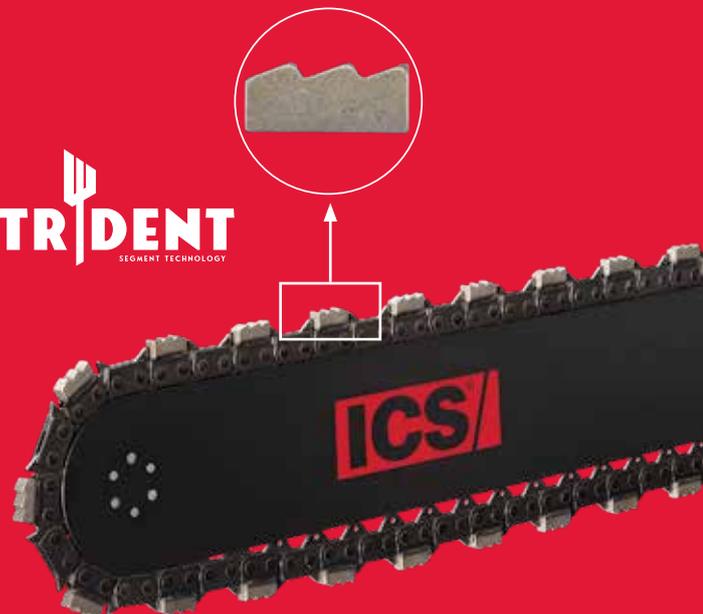


ICS FORCE4®
Guidebar

Why Trident™ Segment Technology?

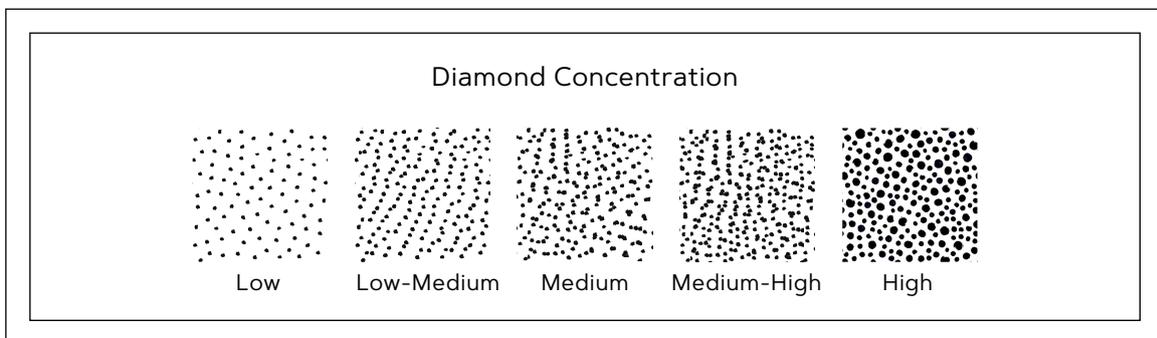
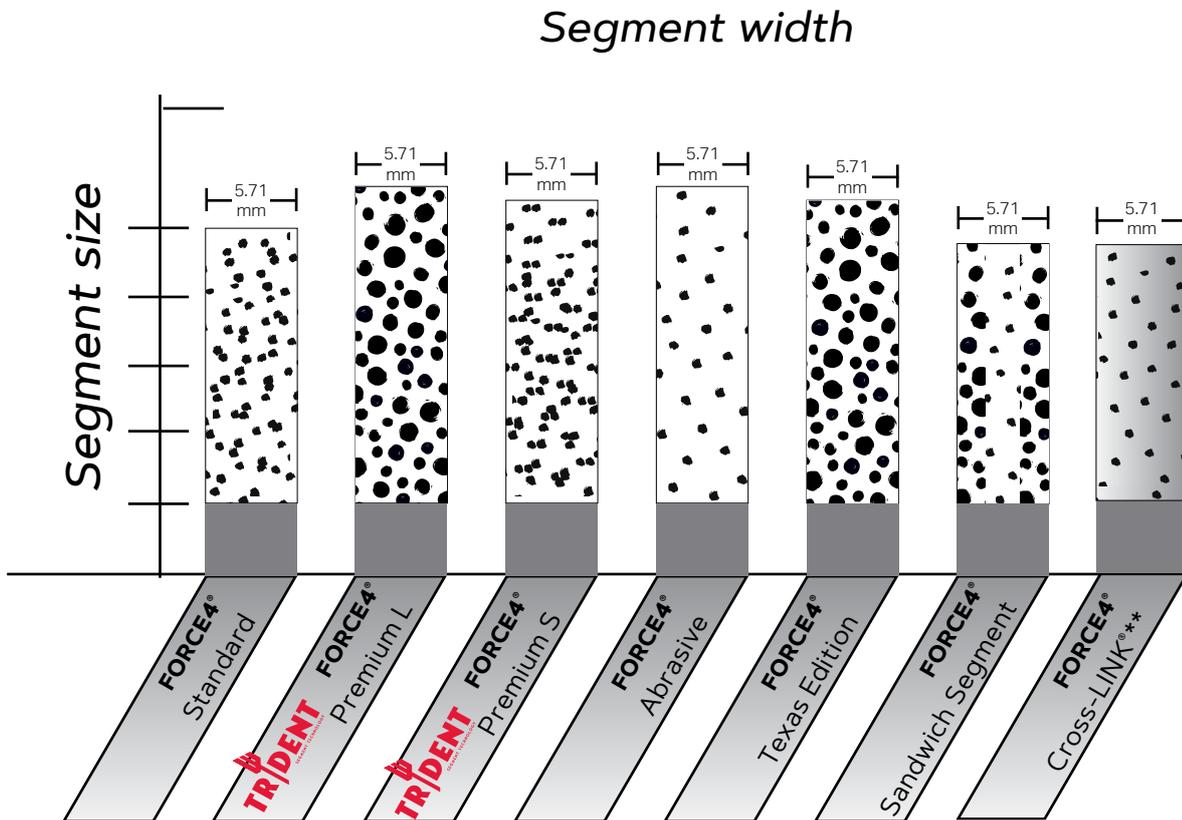
Geometry on diamond segments isn't new to our industry and has been used in concrete cutting consumables for some time. So what is different about Trident™ Segment Technology?

Trident™ Segment Technology is a design & utility patent-pending innovation that not only is a unique geometry within our industry but an overall optimized cutting system that delivers up to 50% faster out-of-box performance without sacrificing chain life or steady state speed. This new innovation allows ICS to continue its legacy of delivering industry-leading products.



ICS® DIAMOND CHAIN

FORCE4 SEGMENT VARIATIONS



* volume difference related to width not represented

** full house configuration

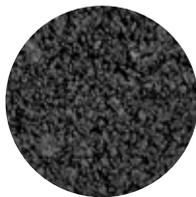
FORCE3[®] DIAMOND CHAIN



Designed to be used with the full line of ICS Petrol power cutters, these chains offer the ultimate combination of versatility and affordability.

Available in three configurations to match your specific application and cutting challenges.

FORCE3[®] Standard		FASTER CUTTING, ECONOMICAL CHAIN FOR EVERYDAY USE
FORCE3[®] Premium		BEST CHAIN TO CUT HARDER AGGREGATES AND HEAVY REBAR
FORCE3[®] Brick		LARGER SEGMENTS FOR LONGER LIFE. BEST FOR CUTTING BRICK, BLOCK AND MORE.



ICS® DIAMOND CHAIN

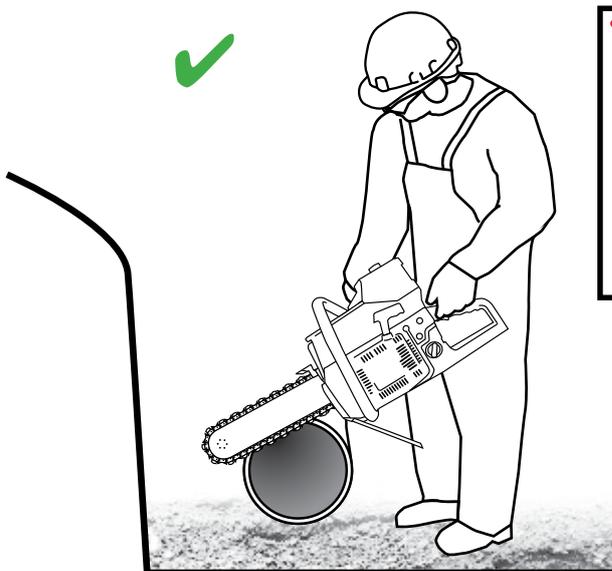
WHY POWERGRIT® DIAMOND CHAIN?

Utilized by public and private water and wastewater departments worldwide, this patented technology exclusively from ICS is designed to cut a variety of materials from ductile iron to plastic pipe. Featuring a brazed layer diamond coating on our FORCE4® platform, this chain makes your job safer, faster and easier.

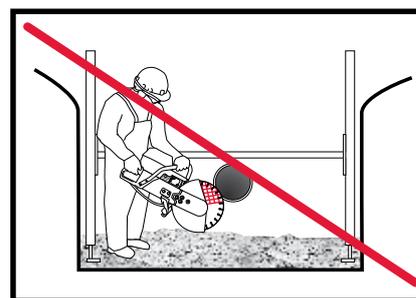
ICS engaged a world-leading research university in 2017 to conduct an independent study to measure the differences in kickback energy between circular cutoff saws and abrasive chainsaws when cutting pipe in the trench.

The research study was able to compare and quantify the kickback energies of a circular cutoff saw and an abrasive chainsaw. Results found the kickback energy of the circular cutoff saw to be nearly twice that of the abrasive chainsaw given the same environmental conditions. This data indicates that using an abrasive chainsaw is the safer option for cutting pipe in the trench compared to a circular cutoff saw. Read the white paper and also the full study by visiting our website: <https://www.icsdiamondtools.com/en/news/c/news>.

Scan the QR Code to view the full independent research study and to request a free demonstration from ICS.



POWERGRIT METHOD



CONVENTIONAL METHOD

POWERGRIT® PIPE CUTTING CHAIN

PowerGrit® is a patent-pending, diamond-coated Utility Saw Chain designed to grind through ductile iron, cast iron, PVC, HDPE and other types of pipe as well as a broad range of other hard materials.



PowerGRIT®



**DESIGNED TO CUT DUCTILE IRON,
CAST IRON AND MORE.**

**PowerGRIT®
XL**



**SPECIFICALLY DESIGNED TO CUT
HIGH-DENSITY POLYTHYLENE
(HDPE).**



CUTTING APPLICATIONS

- **Ductile Iron Pipe**
- **Cast Iron Pipe**
- **PVC Pipe**
- **HDPE Pipe**
- **Insituform Pipe Lining**
- **Asbestos* Cement Pipe**

PRODUCT BENEFITS

- ✓ **Increased Safety**
- ✓ **Operator Control**
- ✓ **Reduced Excavation**
- ✓ **Better Access**
- ✓ **Versatility**

* Asbestos is a hazardous material, known to cause serious respiratory diseases. Cutting into asbestos can release asbestos fibers into the air. Always research and follow the correct safety procedures, including applicable national and state or provisional occupational health and safety regulations, and protect yourself and those around you from asbestos-related disease. Always arrange for the material to be removed safely by a qualified person. ICS is not responsible for exposure to asbestos caused by use of this product.

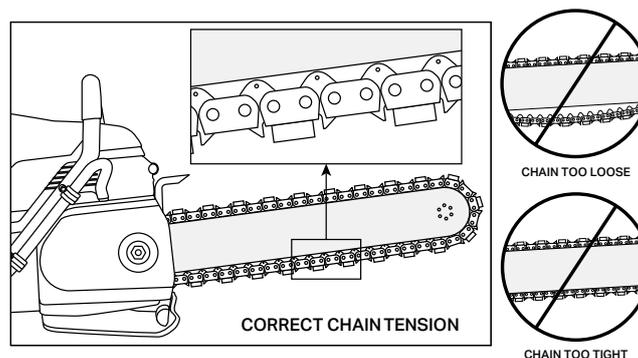
WHEN DO I NEED TO REPLACE A CHAIN?

When the diamond segment has worn down to the welded pad on the chain chassis. Typically a chain will cut 40 – 80 linear feet (12 – 24m) in 15 cm concrete. On ICS hydraulic power cutter, this range is most often doubled.



WHAT IS THE PROPER CHAIN TENSION?

All chains have a tendency to stretch when used. Diamond chains stretch more than wood cutting chains because of the abrasive materials they cut. If the chain is too tight, a lot of the power cutter's power goes into turning the chain rather than the cut. In extreme over-tightened cases, the power cutter may not be able to turn the chain at all. In addition, damage can occur to the bar nose and premature stretch may occur.



If the chain is too loose, it could come off the bar, or it will allow the drive sprocket to spin without turning the chain, which can chew up drive links. When a chain stretches to a point where the drive links are hanging approximately 12 mm to 18 mm below the bar, it is time to tension the chain.

See ICS training videos for power cutter setup

REGARDING CUTTING PIPES THAT ARE FULL OF WATER...CAN I CUT INTO THE PIPE AND RELY ON THE WATER INSIDE TO COOL THE CHAINS (DIAMOND AND POWERGRIT)?

The cooling and lubrication for the chains needs to be delivered through the power cutter/ guidebar and therefore you must have a minimum of 1.4 bar going through the power cutter.

CAN I POUR WATER ON THE CHAIN IF I DO NOT HAVE A WATER SOURCE DELIVERABLE THROUGH A HOSE?

The guidebar is designed with water channels that distribute water to the chain to lubricate and cool and also flush the chain of debris. Pouring water on the chain is not only dangerous, it will drastically increase chain stretch and reduce chain and bar life.

TO CUT CONCRETE, BRICK, BLOCK OR EVEN DUCTILE IRON PIPE. IS THE WATER REQUIREMENT DIFFERENT FOR THESE?

The water requirement for using the ICS diamond chain or the ICS Powergrit chain to cut any of the above is the same however if you can use more water, especially when cutting abrasive things like brick and block, more water helps to add to longer chain and guidebar life because it is flushing the abrasive materials away.

WHAT IF IT IS FREEZING OR BELOW FREEZING AND I CANNOT GET WATER TO MY POWER CUTTER BECAUSE THE HOSE OR POWER CUTTER IS FROZEN AND PLUGGED UP...CAN I MAKE MY CUT?

Water, as previously stated, is crucial to the performance of these chains. There are several different anti-freeze products you can use in this situation. Contact your regulatory agency for specific details.

WHEN DO I NEED TO REPLACE DRIVE SPROCKET?

Drive sprockets need to be replaced when the groove has worn 50% of the way through the top of the sprocket tooth. A rule of thumb, for the ICS petrol power cutters, is every 2-4 chains and for the ICS hydraulic power cutters, is every 7-9 chains (depending on chain chassis).



CAN A DIAMOND CHAIN CUT REBAR?

Yes, 12 or 16 mm bar is not a problem. Anything over 25 mm is difficult. Large amounts of rebar will reduce chain life. Caution: rebar must be surrounded by concrete or aggregate material.

WILL POWERGRIT CUT STEEL?

PowerGrit pipe cutting chain is designed to cut ductile iron pipe, cast iron pipe, HDPE and PVC.

WHAT IS THE MIXTURE RATIO OF FUEL TO OIL?

Consult your operator manual for the proper fuel to oil mix recommendation.

WHAT STEPS SHOULD I TAKE DAILY TO MAINTAIN MY POWER CUTTER?

After each use, rinse the power cutter, bar and chain with water. Inspect all fasteners, sprocket, starter rope and air filter for wear. Oil the guidebar, diamond chain and bar nose sprocket and grease the chain tensioner.

WHAT IS THE BEST WAY TO BREAK IN A NEW CHAIN?

Opening up the diamonds will increase the cutting speed. To do this, make a few cuts into an abrasive material like cinder block.

For more information and to view instructional videos, please visit:

icsdiamondtools.com

P95 POWERPACK

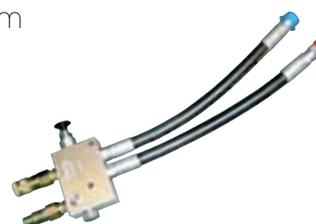


DIMENSIONS	91cm H, 58cm W, 75cm L
OIL FLOW	5gpm/ 19lpm 8gpm/30lpm
PRESSURE	172 bar
OIL RESERVOIR	11L
WEIGHT	150kg
FUEL CAPACITY	21L
ENGINE MANUFACTURER	Briggs & Stratton 18hp
P/N	DESCRIPTION
599653	P95 POWERPACK

FLOW ADAPTER VALVE

Enjoy the convenience and efficiency of powering your ICS hydraulic power cutter from skid steers, backhoes, and other common construction equipment. Available for 30 lpm power cutters.

P/N	DESCRIPTION
70350	30 lpm Flow adapter valve



2-STROKE OIL

Intensive laboratory and field testing have resulted in an oil formula that is cleaner burning, provides better thermal protection and an improved film barrier reducing piston ring wear. Protect your investment with work-proven ICS 2-stroke Engine Oil.

P/N	DESCRIPTION
O10-6365	1 bottle, 100 ml

50:1 Mix



ACCESSORIES

HYDRAULIC HOSES

Quick disconnect, 7.5m long, 3000psi.

P/N	DESCRIPTION
70466	7.5 m hoses



PIPE CLAMP



FOR 890F4/701-A ONLY

In addition to the time-saving value of PowerGrit technology, the pipe clamp accessory developed for the underground pipe application brings a whole new level of safety, accuracy and ease of use to the job. With a simple adaptor, you can mount to this clamp and dramatically reduce the effort of handling the power cutter, while providing a solid, stable cutting platform that also improves operator safety and the precision of the cut. Fits pipes up to 30cm (12") (outside diameter).

P/N	DESCRIPTION
537640	Pipe Clamp
537634	Axle replacement

Visit our product pages for a complete list of our concrete & pipe cutting offerings

SCAN HERE



GLOBAL FIT-UP CHART



CHAIN LIFE

SealPro® Patented O-Ring technology protects the rivet joints from abrasive slurry. This reduces water requirements and significantly increases chain chassis life.

1



2 DRIVE SPROCKET LIFE

Positive contact between the chain drive links and the drive sprocket and nose sprocket reduces wear on chain components and drive sprocket teeth.

2

3

3 GUIDE BAR AND NOSE SPROCKET LIFE

Bypass channel milled into outer laminate provides water injection to the bearings inside the outer race. This provides lubrication, cooling and cleaning to prevent slurry and friction from damaging the bearings, resulting in longer life of the guidebar and nose sprocket.

4

SPECIAL ALLOY STEEL

ICS bars are made out of a special alloy steel to hold up to the harsh environment of concrete cutting. These are not wood cutting guidebars.

Use the chart below to determine what ICS guidebar is compatible with your tool.

	Old P/N	New P/N	Length	Description	ICS® 680ES	ICS® 695XL	ICS® 890F4/FL	ICS® 701-A	Pentrunder® CWF630-HF	ICS® 814PRO	Husqvarna® K970 Chain	Husqvarna® K 6500/7000 Chain (Prime)	Stihl® GS 461 Rock Boss®	Cardi CD35	Dr. Bender Espada 400	Weka TK40	Stanley® DS06	Stanley® DS11/12	AGP CS11	AGP CS18	
FORCE3® Guidebars (.3/8-pitch)	621540	632193	25 CM	GUIDEBAR (25SEG/50DL)	X									X							
	71395	632194	30 CM	GUIDEBAR (80CC/29SEG/58DL)	X									X							
	513122	635697	35 CM	GUIDEBAR (80CC/32SEG/64DL)	X									X							
	553207	635705	30 CM	GUIDEBAR (90CC/29SEG/58DL)		X					X	X					X				X
	73600	632195	35 CM	GUIDEBAR (90CC/32SEG/64DL)		X					X	X					X				X
	71600	632196	40 CM	GUIDEBAR (90CC/35SEG/70DL)		X					X	X					X				X
	560807	635707	35 CM	GUIDEBAR (32SEG/64DL) GS 461									X								
	74042	635696	33 CM	GUIDEBAR (25SEG/50DL)						X								X		X	
FORCE4® Guidebars (.444-pitch)	579158	635708	25 CM	GUIDEBAR, 680PG (80CC/48DL)	X																
	553208	635706	30 CM	GUIDEBAR F4 (90CC/25SEG/50DL)		X					X	X				X					X
	524490	635701	40 CM	GUIDEBAR F4 (90CC/29SEG/54DL)		X					X	X				X					X
	626485	625709	50 CM	GUIDEBAR F4 (90CC/34SEG/68DL)		X					X	X				X					X
	529829	635704	25 CM	GUIDEBAR F4 (25SEG/50DL)			X	X	X						X				X		
	523080	635700	38 CM	GUIDEBAR F4 (29SEG/58DL)			X	X	X						X				X		
	529767	635703	50 CM	GUIDEBAR F4 (34SEG/68DL)			X	X	X						X				X		
	525320	635702	63 CM	GUIDEBAR F4 (40SEG/80DL)			X	X	X						X				X		

TECHNICAL SPECIFICATIONS

695XL TECHNICAL SPECIFICATIONS

Bar Cutting Depth	FORCE3® 30cm, 35cm, 40cm FORCE4® 30cm, 40cm, 50cm PowerGrit®/PowerGrit® XL 30cm, 40cm, 50cm
Powerhead Weight	9.6 kg
Engine Speed	9300 +/- 150 rpm (max)
Idling Speed	2700 +/- 100 rpm
Horsepower	4.8 kW @ 9000 rpm
Engine Type	2-stroke, single cylinder, air cooled
Displacement	94 cc
Powerhead Dimensions	46 cm x 36 cm x 30 cm
Guaranteed Sound Power Level, Lwa ⁽¹⁾	115 dB(A); (Kwa = 1.0 dB(A))
Sound Pressure Level, at Operator's Ear Lwa ⁽¹⁾	104.6 dB(A); (K = 1.0 dB(A))
Vibration, a hv, eq Concrete Cutting ⁽²⁾	3.6 m/s ² (K=0.2 m/s ²) Front Handle 3.1 m/s ² (K=0.2 m/s ²) Rear Handle
Vibration, a hv, eq Pipe Cutting ⁽²⁾	5.62 m/s ² (K=0.2 m/s ²) Front Handle 5.28 m/s ² (K=0.2 m/s ²) Rear Handle
Water Supply Requirement	Minimum of 1.4 bar
Water Flow Requirement	Minimum: 8 lpm
Fuel Mix Ratio	2% (50:1) fuel-to-oil
Fuel Capacity	1.0 liter

(1) Measured in accordance with ANSI S12.51-2012/ISO3741:2010

(2) Measured in accordance with ISO5349-1:2001, ISO22867:2011 and ISO19432:2011

680ES TECHNICAL SPECIFICATIONS

Bar Cutting Depth	FORCE3® 30cm, 35cm PowerGrit®/PowerGrit® XL 25cm
Powerhead Weight	9.6 kg
Engine Speed	11500 +/- 500 rpm (max)
Idling Speed	2800-3200 rpm
Horsepower	3.7 kW
Engine Type	2-stroke, single cylinder, air cooled
Displacement	76.5 cc
Powerhead Dimensions	46 cm x 29 cm x 25 cm
Guaranteed Sound Power Level, Lwa ⁽¹⁾	117 dB(A); (Kwa = 3.0 dB(A))
Sound Pressure Level, at Operator's Ear Lwa ⁽¹⁾	101.0 dB(A); (K = 2.0 dB(A))
Vibration, a hv, eq Concrete Cutting ⁽²⁾	7.2 m/s ² (K=1.0 m/s ²) Front Handle 8.5 m/s ² (K=1.0 m/s ²) Rear Handle
Water Supply Requirement	Minimum of 1.4 bar
Water Flow	Minimum: 8 lpm
Fuel Mix Ratio	2% (50:1) fuel-to-oil
Fuel Capacity	0.88 liter

(1) Measured in accordance with ANSI S12.51-2012/ISO3741:2010

(2) Measured in accordance with ISO5349-1:2001 and ISO22867:2011

890F4 TECHNICAL SPECIFICATIONS

	30 lpm	45 lpm
Bar Cutting Depth	FORCE4® & PowerGrit®/PowerGrit® XL 25 cm, 38 cm, 50 cm, 63 cm	
Powerhead Weight (1' hose whips)	10.6 kg	
Length	58.5 cm	
Height	26.5 cm	
Width	24 cm	
Hydraulic Supply	30 lpm @ 172.5 bar	45 lpm @ 172.5 bar
Hydraulic Fluid Requirements (Type)	PC HYDREX MV32 or equivalent	
Water Supply Requirements	Minimum: 1.4 bar	
Water Flow	8 lpm minimum	
Operating Speed	6,100 rpm (avg. free running) 5,500 sfm (avg. free running chain)	6,500 rpm (avg. free running) 5,800 sfm (avg. free running chain)
Torque*	9.6 Nm	13.5 Nm
Horsepower ^{(1)*}	4.5 kW	6.0 kW
Guaranteed Sound Power Level L_{wa} ⁽²⁾	107 dB(A) (K=0.2 dB(A))	
Equivalent Sound Pressure at the Operator's Ear L_{pA} ⁽²⁾	98 dB(A) (K=0.7 dB(A))	
Vibration $a_{hv,eq}$ Concrete Cutting ⁽³⁾	2.0 m/s ² (K=0.1 m/s ²) Front Handle 6.0 m/s ² (K=1.4 m/s ²) Rear Handle	
Vibration $a_{hv,eq}$ PowerGrit Cutting ⁽³⁾	4.6 m/s ² (K=0.1 m/s ²) Front Handle 4.8 m/s ² (K=0.3 m/s ²) Rear Handle	

(1) Measured using 18HP hydraulic power pack 30 lpm and 23HP hydraulic power pack 45 lpm at 138 bar.

(2) Measured in accordance with ISO3744:2010

(3) Measured in accordance with ISO5349-1:2001

* Output ratings based on maximum input conditions and efficiency assumptions and may vary depending on power supply.

701-A TECHNICAL SPECIFICATIONS

Bar Cutting Depth	FORCE4® & PowerGrit®/PowerGrit® XL 25 cm, 38 cm, 50 cm, 63 cm
Powerhead Weight	13 kg
Powerhead Dimensions	58.5 cm x 26.5 cm x 30.5 cm
Air Motor Power	5 kW
Air Supply Requirements (maximum)	6 bar (3.5 m ³ /min)
Motor lubrication	Resin and acid-free SAE 5 W to SAE 10 W oil
Water Supply Requirements	Minimum: 1.4 bar
Water Flow	Minimum: 8 lpm
Operating Speed	5,700 rpm (average free running) 4,900 sfm (average free running chain)
Vibration $a_{hv,eq}$ Concrete Cutting ⁽²⁾	Front handle: 5.09 m/s ² (K=0.2 m/s ²) Rear handle: 5.07 m/s ² (K=0.2 m/s ²)
Vibration $a_{hv,eq}$ PowerGrit Cutting ⁽²⁾	Front handle: 4.58 m/s ² (K=0.2 m/s ²) Rear handle: 4.43 m/s ² (K=0.2 m/s ²)
Guaranteed Sound Power Level L_{wa} ⁽¹⁾	113 dB(A); (K=0.5 dB(A))

(1) Measured in accordance with ANSI S12.51-2012/ISO3741:2010

(2) Measured in accordance with ISO5349-1:2001 and ISO22867:2011



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