

PRODUCT CATALOG





Diamond Tools and Equipment

You're hard working, tough driving - you have true grit, you are full of moxie, fortitude and tenacity. The growl of a saw gets your blood pumping and heart racing. Your go-to phrase is "Try Me". Nothing, and I mean **nothing**, gives you more pleasure than being underestimated.

At ICS, we know you don't have time for tools that are just "good enough". Your tools had better not just show up, but measure up. Like you, we believe there are no substitutes for hard work and absolutely no shortcuts to getting the job done right. All our products are designed, engineered and manufactured for you to outwork your competition, outlast the toughest jobs, and outperform any challenge.

We have been the leader in chain based concrete and pipe cutting solutions for over 30 years. Our concrete cutting diamond chains are designed and manufactured in Portland, Oregon, using the best in global materials. Our SealPro® anti-stretch technology significantly reduces chain stretch so your chain lasts longer and you spend less time tensioning. Our patented PowerGrit® pipe cutting chain allows you to cut ductile iron, HDPE and PVC pipe in a confined space with significantly lower risk than conventional cutoff saws.

ICS chain, coupled with our best-in-class guidebars and powerheads gives you a cutting system that can plunge cut up to 25" deep. Our system also allows you to cut precise openings 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.

Merit, by ICS, designs, engineers and manufactures dependable, high-performing, heavy-duty flat saws that are intuitive to operate and easy to maintain. Crafted by hand from high-quality materials, and processes, our flat saw line is fabricated and assembled in the USA.



CESSCO Inc is a independently owned and operated "Brick & Mortar" store in Portland Oregon since 1975. With both companies located in Portland, CESSCO Inc. has been a vital partner with ICS in developing and expanding the market for Concrete Chainsaws. Work with the experts at CESSCO Inc. to get the most from your investment.

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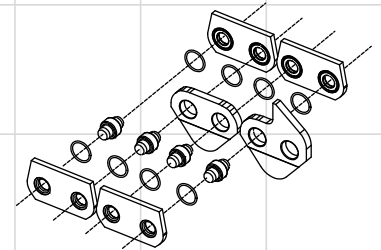
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SealPRO® Technology

There are many jobs that only an ICS power cutter can do. And for those jobs, ICS includes SealPRO anti-stretch technology, which locks out the abrasive slurry created when cutting concrete, stone, or masonry, reducing chain stretch and increasing the useful life of the chain.

Concrete cutting pros like you depend on your tools. All day, every day, under the toughest conditions. Our diamond segments are laser-welded to an advanced steel chassis so that you can cut through concrete, stone and masonry with precision and speed. We know the challenges you face and understand the importance of investing in the right tools.



POWER CUTTERS



695XL - GC

Operates FORCE3 diamond chains

- Standard - fast cutting, economical
 - Abrasive - excels in abrasive materials
 - Premium - for heavy aggregate & rebar
- 12", 14" & 16" lengths available**

695XL - GAS POWER

- 6.4 horsepower
- 94 cc displacement
- 20 psi water supply
- 2 gpm water flow
- 50:1 fuel mix



695XL - F4

Operates FORCE4 diamond chains

- Standard - general purpose
 - Premium L - delivers longer life
 - Premium S - speed and cutting efficiency
 - Abrasive - excels in abrasive materials
 - Texas Chain - optimized for hard materials
 - Cross-LINK - faster cuts, smoother handling
 - Sandwich - improved cut straightness
- 12", 16" & 20" lengths available**

695XL - GC GAS POWER

P/N	Description
581192	ICS 695XL GC Powerhead
576150	ICS 695XL-12 GC Gas Power Cutter Pkg, with 12 in/30 cm Guidebar & FORCE3 Chain
575863	ICS 695XL-14 GC Gas Power Cutter Pkg, with 14 in/35 cm Guidebar & FORCE3 Chain
575865	ICS 695XL-16 GC Gas Power Cutter Pkg, with 16 in/40 cm Guidebar & FORCE3 Chain
584290	ICS FORCE3 chain 12 in/30 cm, 58 Drive Links
584292	ICS FORCE3 chain 14 in/35 cm, 64 Drive Links
584294	ICS FORCE3 chain 16 in/40 cm, 70 Drive Links
584298	ICS FORCE3 Premium chain 12 in/30 cm, 58 Drive Links
584302	ICS FORCE3 Premium chain 14 in/35 cm, 64 Drive Links
584303	ICS FORCE3 Premium chain 16 in/40 cm, 70 Drive Links
584297	ICS FORCE3 Brick chain 12 in/30 cm, 58 Drive Links
584299	ICS FORCE3 Brick chain 14 in/35 cm, 64 Drive Links
584301	ICS FORCE3 Brick chain 16 in/40 cm, 70 Drive Links
553207	ICS 695GC Guidebar 12 in/30 cm
73600	ICS 695GC Guidebar 14 in/35 cm
71600	ICS 695GC Guidebar 16 in/40 cm
70949	ICS Drive Sprocket for 695XL-GC Series

695XL-F4 GAS POWER

P/N	Description
575826	ICS 695XL F4 Powerhead
576151	ICS 695XL-12 F4 Gas Power Cutter Pkg, with 12 in/30 cm FORCE4 Guidebar & FORCE4 Chain
575872	ICS 695XL-16 F4 Gas Power Cutter Pkg, with 16 in/40 cm FORCE4 Guidebar & FORCE4 Chain
531743	ICS FORCE4-25 chain 12 in/30 cm
525342	ICS FORCE4-29 chain 16 in/40 cm
531749	ICS FORCE4-34 chain 20 in/50 cm
531745	ICS FORCE4-25 Premium L chain 12 in/30 cm
525343	ICS FORCE4-29 Premium L chain 16 in/40 cm
531751	ICS FORCE4-34 Premium L chain 20 in/50 cm
531739	ICS FORCE4-25 Premium S chain 12 in/30 cm
531735	ICS FORCE4-29 Premium S chain 16 in/40 cm
531741	ICS FORCE4-34 Premium S chain 20 in/50 cm
531747	ICS FORCE4-25 Abrasive chain 12 in/30 cm
525344	ICS FORCE4-29 Abrasive chain 16 in/40 cm
531753	ICS FORCE4-34 Abrasive chain 20 in/50 cm
599881	ICS FORCE4-50 Cross-LINK chain 12 in/30 cm
599882	ICS FORCE4-58 Cross-LINK chain 16 in/40 cm
599883	ICS FORCE4-68 Cross-LINK chain 20 in/50 cm
605443	ICS FORCE4-25 Sandwich Segment chain 12 in/30 cm
605414	ICS FORCE4-29 Sandwich Segment chain 16 in/40 cm
605400	ICS FORCE4-34 Sandwich Segment chain 20 in/50 cm
598280	ICS FORCE4-25 Texas Edition chain 12 in/30 cm
598281	ICS FORCE4-29 Texas Edition chain 16 in/40 cm
598282	ICS FORCE4-34 Texas Edition chain 20 in/50 cm
553208	ICS 695F4 Guidebar 12 in/30 cm
524490	ICS 695F4 Guidebar 16 in/40 cm
626485	ICS 695F4 Guidebar 20 in/50 cm
525496	ICS Drive Sprocket for 695XL-F4 Series

POWER CUTTERS



680ES - GAS POWER

- 5.0 horsepower
- 76.5 cc displacement
- 20 psi water supply
- 2 gpm water flow
- 50:1 fuel mix

680ES-GC

Operates FORCE3 diamond chains
 - Standard - fast cutting, economical
 - Abrasive - excels in abrasive materials
 - Premium - for heavy aggregate & rebar
12" & 14" lengths available

Concrete Cutting
Chains, Guidebars & Drive Sprockets
pages 8-11

Pipe Cutting
Chains, Guidebars & Drive Sprockets
pages 12 - 14

Technical Specifications
pages 18 - 19

680ES-GC GAS POWER

576155	ICS 680ES Powerhead
576154	ICS 680ES-12 GC Gas Power Cutter Pkg, with 12 in/30 cm Guidebar & FORCE3 Chain
576153	ICS 680ES-14 GC Gas Power Cutter Pkg, with 14 in/35 cm Guidebar & FORCE3 Chain
584290	ICS FORCE3 chain 12 in/30 cm, 58 Drive Links
584292	ICS FORCE3 chain 14 in/35 cm, 64 Drive Links
584297	ICS FORCE3 Brick chain 12 in/30 cm, 58 Drive Links
584299	ICS FORCE3 Brick chain 14 in/35 cm, 64 Drive Links
584298	ICS FORCE3 Premium chain 12 in/30 cm, 58 Drive Links
584302	ICS FORCE3 Premium chain 14 in/35 cm, 64 Drive Links
71395	ICS 680GC Guidebar 12 in/30 cm
513122	ICS 680GC Guidebar 14 in/35 cm
70949	ICS Drive Sprocket for 680ES-GC Series

POWER CUTTERS



890F4

Operates FORCE4 diamond chains

- Standard - general purpose
- Premium L - delivers longer life
- Premium S - speed and cutting efficiency
- Abrasive - excels in abrasive materials
- Texas Chain - optimized for hard materials
- Cross-LINK - faster cuts, smoother handling
- Sandwich - improved cut straightness

10", 15" 20" & 25" lengths available



890F4 FLUSH

Operates FORCE4 diamond chains

- Standard - general purpose
- Premium L - delivers longer life
- Premium S - speed and cutting efficiency
- Abrasive - excels in abrasive materials
- Texas Chain - optimized for hard materials
- Cross-LINK - faster cuts, smoother handling
- Sandwich - improved cut straightness

10", 15" 20" & 25" lengths available

890F4 HYDRAULIC POWER	
P/N	Description
566110	ICS 890F4 Hydraulic Powerhead 8 gpm/30 lpm, 1 ft/30 cm hose whips
566355	ICS 890F4 Hydraulic Powerhead 8 gpm/30 lpm, 8 ft/2.5m hose whips
566112	ICS 890F4 Hydraulic Powerhead 12 gpm/45 lpm, 1 ft/30 cm hose whips
566116	ICS 890F4 Hydraulic Powerhead 12 gpm/45 lpm, 8 ft/2.5m hose whips

890F4 FLUSH HYDRAULIC POWER	
P/N	Description
566113	ICS 890F4 Hydraulic Flush Cut Powerhead 8 gpm/30 lpm, 1 ft/30 cm hose whips
566351	ICS 890F4 Hydraulic Flush Cut Powerhead 8 gpm, 8 ft/2.5m hose whips
566114	ICS 890F4 Hydraulic Flush Cut Powerhead 12 gpm/45 lpm, 1 ft/30 cm hose whips
566117	ICS 890F4 Hydraulic Flush Cut Powerhead 12 gpm/45 lpm, 8 ft/2.5m hose whips

890F4 - HYDRAULIC POWER 8gpm

- 6 horsepower
- 7 ft-lbs torque
- 2500 psi hydraulic supply
- 20psi water supply
- 2gpm water flow

890F4 - HYDRAULIC POWER 12gpm

- 8 horsepower
- 10 ft-lbs torque
- 2500 psi hydraulic supply
- 20psi water supply
- 2gpm water flow

Concrete Cutting
Chains, Guidebars & Drive Sprockets
pages 8-11

Pipe Cutting
Chains, Guidebars & Drive Sprockets
pages 12 - 14

Technical Specifications
pages 18 - 19

POWER CUTTERS



701-A

Operates FORCE4 diamond chains

- Standard - general purpose
- Premium L - delivers longer life
- Premium S - speed and cutting efficiency
- Abrasive - excels in abrasive materials
- Texas Chain - optimized for hard materials
- Cross-LINK - faster cuts, smoother handling
- Sandwich - improved cut straightness

10", 15" 20" & 25" lengths available

701-A PNEUMATIC POWER

P/N	Description
573511	ICS 701-A Powerhead, pneumatic

701-A PNEUMATIC POWER

- 6.6 horsepower
- 90 psi /124 cfm air supply requirements
- 20psi water supply
- 2gpm water flow








701-A & 890F4 DIAMOND CHAIN, BARS, SPROCKETS

P/N	Description
531743	ICS FORCE4-25 chain 10 in/25 cm
525342	ICS FORCE4-29 chain 15 in/38 cm
531749	ICS FORCE4-34 chain 20 in/50 cm
525345	ICS FORCE4-40 chain 25 in/63 cm
531745	ICS FORCE4-25 Premium L chain 10 in/25 cm
525343	ICS FORCE4-29 Premium L chain 15 in/38 cm
531751	ICS FORCE4-34 Premium L chain 20 in/50 cm
525346	ICS FORCE4-40 Premium L chain 25 in/63 cm
531739	ICS FORCE4-25 Premium S chain 10 in/25 cm
531735	ICS FORCE4-29 Premium S chain 15 in/38 cm
531741	ICS FORCE4-34 Premium S chain 20 in/50 cm
531737	ICS FORCE4-40 Premium S chain 25 in/63 cm
531747	ICS FORCE4-25 Abrasive chain 10 in/25 cm
525344	ICS FORCE4-29 Abrasive chain 15 in/38 cm
531753	ICS FORCE4-34 Abrasive chain 20 in/50 cm
525347	ICS FORCE4-40 Abrasive chain 25 in/63 cm
599881	ICS FORCE4-50 Cross-LINK chain 10 in/25 cm
599882	ICS FORCE4-58 Cross-LINK chain 15 in/38 cm
599883	ICS FORCE4-68 Cross-LINK chain 20 in/50 cm
599884	ICS FORCE4-80 Cross-LINK chain 25 in/63 cm
605443	ICS FORCE4-25 Sandwich Segment chain 10 in/25 cm
605414	ICS FORCE4-29 Sandwich Segment chain 15 in/38 cm
605400	ICS FORCE4-34 Sandwich Segment chain 20 in/50 cm
605399	ICS FORCE4-40 Sandwich Segment chain 25 in/63 cm
598280	ICS FORCE4-25 Texas Edition chain 10 in/25 cm
598281	ICS FORCE4-29 Texas Edition chain 15 in/38 cm
598282	ICS FORCE4-34 Texas Edition chain 20 in/50 cm
598283	ICS FORCE4-40 Texas Edition chain 25 in/63 cm
529829	ICS Force4 Guidebar 10 in/25 cm
523080	ICS Force4 Guidebar 15 in/38 cm
529767	ICS Force4 Guidebar 20 in/50 cm
525320	ICS Force4 Guidebar 25 in/63 cm
565065	ICS Drive Sprocket - fits 890F4 & 701-A saws
565066	ICS Drive Sprocket - fits all 890F4-FL saws

DIAMOND CHAINS

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 eight 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 efficiency in one diamond chain
FORCE4 Abrasive		Excels in the abrasive cutting environments
FORCE4 Sandwich		Improved cut straightness and longer side clearance
FORCE4 Texas Edition		Optimized for very hard materials

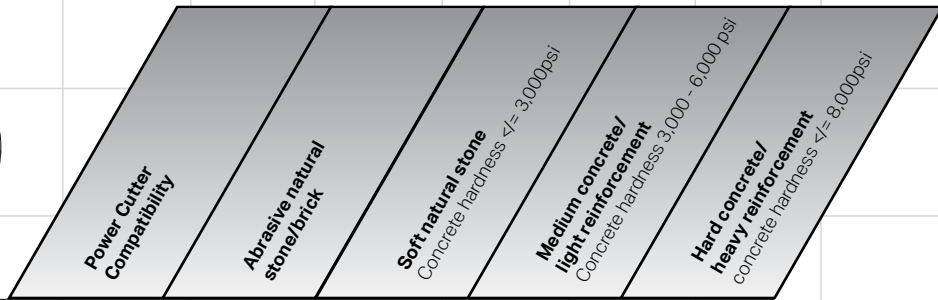


695XL FORCE4 GUIDE BARS	
553208	ICS 695F4 Guidebar 12 in/30 cm
524490	ICS 695F4 Guidebar 16 in/40 cm
626485	ICS 695F4 Guidebar 20 in/50 cm
695XL FORCE4 DRIVE SPROCKET	
525496	ICS 695XL FORCE4 Drive Sprocket

890 & 701-A FORCE4 GUIDE BARS	
529829	ICS Force4 Guidebar 10 in/25 cm
523080	ICS Force4 Guidebar 15 in/38 cm
529767	ICS Force4 Guidebar 20 in/50 cm
525320	ICS Force4 Guidebar 25 in/63 cm
890 & 701-A FORCE4 DRIVE SPROCKETS	
565065	ICS 890 & 701-A FORCE4 Drive Sprocket
565066	ICS 890 FLUSH FORCE4 Drive Sprocket

DIAMOND CHAINS

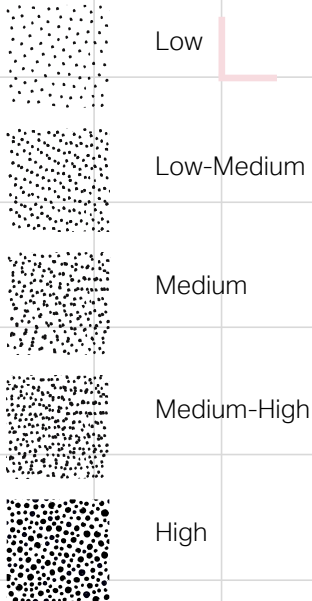
Chain Selection Chart



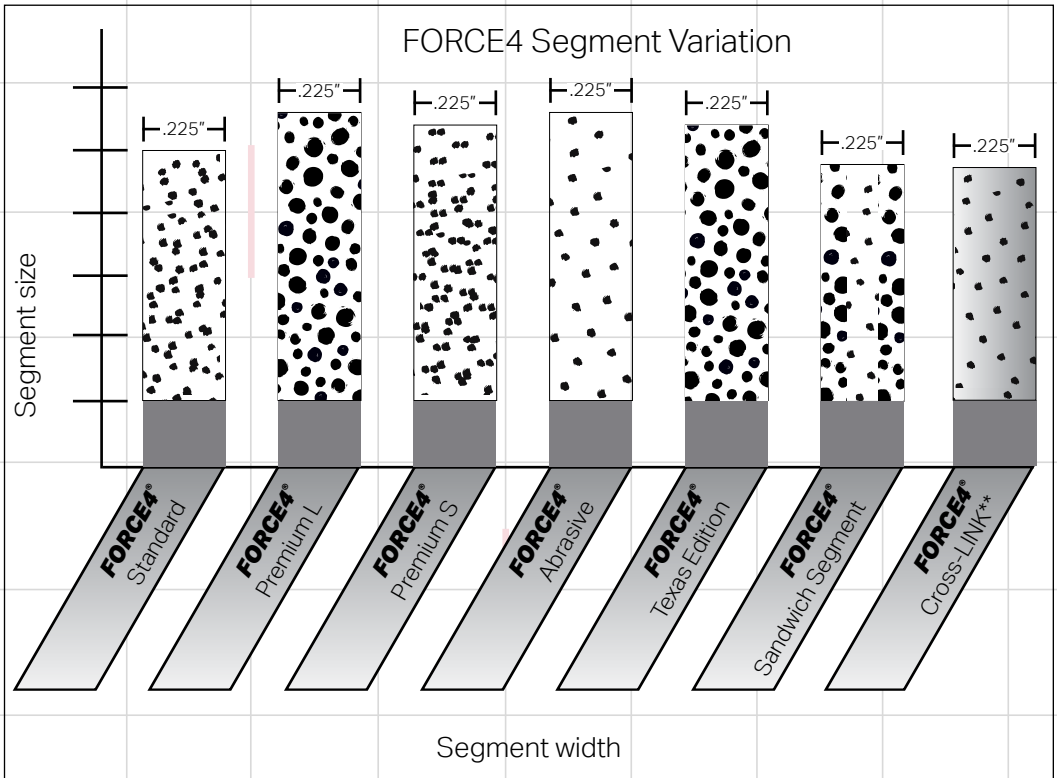
Chain Types					
FORCE4® General purpose	890 Series 701-A 695XL F4		♦♦	♦♦♦	♦
FORCE4® Premium L Longer Cutting life	890 Series 701-A 695XL F4		♦	♦♦	♦♦♦
FORCE4® Premium S Faster cutting speed	890 Series 701-A 695XL F4		♦	♦♦	♦♦♦
FORCE4® Abrasive Ideal for brick & block	890 Series 701-A 695XL F4	♦♦♦♦			
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		♦♦♦	♦♦♦	♦♦♦

♦	Good
♦♦	Better
♦♦♦	Excellent
♦♦♦♦	Best

Diamond Concentration



FORCE4 Segment Variation



* volume difference related to width not represented
** full house configuration




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DIAMOND CHAINS

FORCE3 DIAMOND CHAIN

Designed to be used with the full line of ICS gas 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		Fast 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

Chain Selection Chart

		Power Cutter Compatibility	Abrasive natural stone/brick	Soft natural stone Concrete hardness $\leq 3,000$ psi	Medium concrete/ light reinforcement Concrete hardness 3,000 - 6,000 psi	Hard concrete/ heavy reinforcement concrete hardness $\leq 8,000$ psi
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	♦♦♦♦				

♦	Good
♦♦	Better
♦♦♦	Excellent
♦♦♦♦	Best

680ES FORCE3 GUIDE BARS

71395	ICS 680GC Guidebar 12 in/30 cm
513122	ICS 680GC Guidebar 14 in/35 cm

695XL FORCE3 GUIDE BARS

553207	ICS 695GC Guidebar 12 in/30 cm
73600	ICS 695GC Guidebar 14 in/35 cm
71600	ICS 695GC Guidebar 16 in/40 cm

680ES/695XL FORCE3 DRIVE SPROCKET

70949	Fits 680, and 695 Gas Saws
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APPLICATIONS



CONCRETE CUTTING

Cut through foundations and create egress windows from one side with no overcuts. Plunge straight into thick walled concrete, and create small openings with no overcuts. The depth-of-cut possible with a concrete power cutter makes curb cuts possible without damaging surrounding materials. From precision vent or window installations to controlled demolition, our ICS power cutter is one of the most versatile tools on the job site.



POWER CUTTERS



695XL - F4

Operates PowerGrit & PowerGrit XL chains
12", 16" & 20" lengths available



680ES-PG

Operates PowerGrit & PowerGrit XL chains
10" & length available

695XL-F4 GAS POWER

P/N	Description
575826	ICS 695XL F4 Powerhead
575827	ICS 695XL-16 PG Gas Power Cutter Pkg with 16 in/40 cm FORCE4 Guidebar & PowerGrit Chain
547641	ICS PowerGrit Chain 12 in/30 cm
537764	ICS PowerGrit Chain 16 in/40 cm
537765	ICS PowerGrit Chain 20 in/50 cm
608233	ICS PowerGrit XL Chain 12 in/30 cm
607664	ICS PowerGrit XL Chain 16 in/40 cm
608216	ICS PowerGrit XLChain 20 in/50 cm
553208	ICS 695F4 Guidebar 12 in/30 cm
524490	ICS 695F4 Guidebar 16 in/40 cm
626485	ICS 695F4 Guidebar 20 in/50 cm
525496	ICS Drive Sprocket for 695XL-F4 Series

695XL - GAS POWER

- 6.4 horsepower
- 94 cc displacement
- 20 psi water supply
- 2 gpm water flow
- 50:1 fuel mix

680ES-GC GAS POWER

580423	ICS 680ES-10 PG Gas Power Cutter Pkg, with 10 in/25 cm Guidebar & PowerGrit Chain
580424	ICS 680 PowerGrit Chain 10 in/25 cm (48 drive links)
608234	ICS 680 PowerGrit XL chain 10in/25cm (48 drive links)
579158	ICS 680 PowerGrit Guidebar 10 in/25 cm
525496	ICS Drive Sprocket for 680ES-PG Series

680ES - GAS POWER

- 5.0 horsepower
- 76.5 cc displacement
- 20 psi water supply
- 2 gpm water flow
- 50:1 fuel mix



POWER CUTTERS



890F4 & 890F4 FLUSH

Operates PowerGrit & PowerGrit XL chains
10", 15", 20" & 25" lengths available



701-A

Operates PowerGrit & PowerGrit XL chains
10", 15", 20" & 25" lengths available

890F4 HYDRAULIC POWER CUTTERS AND CONSUMABLES

890 F4 HYDRAULIC POWERHEADS

P/N	Description
566110	ICS 890F4 Hydraulic Powerhead 8 gpm/30 lpm, 1 ft/30 cm hose whips
566355	ICS 890F4 Hydraulic Powerhead 8 gpm/30 lpm, 8 ft/2.5m hose whips
566112	ICS 890F4 Hydraulic Powerhead 12 gpm/45 lpm, 1 ft/30 cm hose whips
566116	ICS 890F4 Hydraulic Powerhead 12 gpm/45 lpm, 8 ft/2.5m hose whips
566113	ICS 890F4 Hydraulic Flush Cut Powerhead 8 gpm/30 lpm, 1 ft/30 cm hose whips
566351	ICS 890F4 Hydraulic Flush Cut Powerhead 8 gpm, 8 ft/2.5m hose whips
566114	ICS 890F4 Hydraulic Flush Cut Powerhead 12 gpm/45 lpm, 1 ft/30 cm hose whips
566117	ICS 890F4 Hydraulic Flush Cut Powerhead 12 gpm/45 lpm, 8 ft/2.5m hose whips

890 F4 POWERGRIT PIPE CUTTING CONSUMABLES

547641	ICS PowerGrit Chain 10 in/25 cm
537764	ICS PowerGrit Chain 15 in/38 cm
537765	ICS PowerGrit Chain 20 in/50 cm
545017	ICS PowerGrit Chain 25 in/63 cm
608233	ICS PowerGrit XL Chain 10 in/25 cm
607664	ICS PowerGrit XL Chain 15 in/38 cm
608215	ICS PowerGrit XL Chain 25 in/63 cm
529829	ICS Force4 Guidebar 10 in/25 cm
523080	ICS Force4 Guidebar 15 in/38 cm
529767	ICS Force4 Guidebar 20 in/50 cm
525320	ICS Force4 Guidebar 25 in/63 cm
565065	ICS 890 FORCE4 Drive Sprocket
565066	ICS 890 FLUSH FORCE4 Drive Sprocket

701-A PNEUMATIC POWER CUTTERS

P/N	Description
573511	ICS 701-A Powerhead, pneumatic
701-A POWERGRIT PIPE CUTTING CONSUMABLES	
547641	ICS PowerGrit Chain 10 in/25 cm
537764	ICS PowerGrit Chain 15 in/38 cm
537765	ICS PowerGrit Chain 20 in/50 cm
545017	ICS PowerGrit Chain 25 in/63 cm
608233	ICS PowerGrit XL Chain 10 in/25 cm
607664	ICS PowerGrit XL Chain 15 in/38 cm
608216	ICS PowerGrit XL Chain 20 in/50 cm
608215	ICS PowerGrit XL Chain 25 in/63 cm
529829	ICS Force4 Guidebar 10 in/25 cm
523080	ICS Force4 Guidebar 15 in/38 cm
529767	ICS Force4 Guidebar 20 in/50 cm
525320	ICS Force4 Guidebar 25 in/63 cm
565065	ICS 890 FORCE4 Drive Sprocket



701-A PNEUMATIC POWER

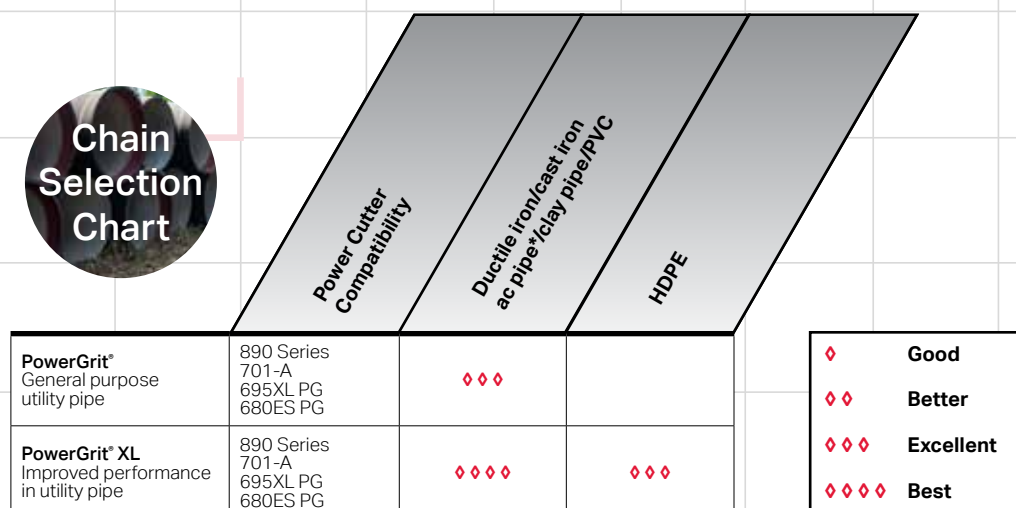
- 6.6 horsepower
- 90 psi /124 cfm air supply requirements
- 20psi water supply
- 2gpm water flow

PowerGrit[®] XL

PIPE CUTTING 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.

<p><i>PowerGrit</i></p>		<p>Designed to cut ductile iron, cast iron and more</p>
<p><i>PowerGrit XL</i></p>		<p>Specifically designed to cut high-density polyethylene (HDPE)</p>



** 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.*

890 & 701-A FORCE4 GUIDE BARS	
529829	ICS Force4 Guidebar 10 in/25 cm
523080	ICS Force4 Guidebar 15 in/38 cm
529767	ICS Force4 Guidebar 20 in/50 cm
525320	ICS Force4 Guidebar 25 in/63 cm
890 & 701-A FORCE4 DRIVE SPROCKETS	
565065	ICS 890 & 701-A FORCE4 Drive Sprocket
565066	ICS 890 FLUSH FORCE4 Drive Sprocket

680ES FORCE4 GUIDE BARS	
579158	ICS 680 PowerGrit Guidebar 10 in/25 cm
695XL FORCE4 DRIVE SPROCKET	
525496	ICS Drive Sprocket for 680ES-PG Series
695XL FORCE4 GUIDE BARS	
553208	ICS 695F4 Guidebar 12 in/30 cm
524490	ICS 695F4 Guidebar 16 in/40 cm
626485	ICS 695F4 Guidebar 20 in/50 cm
695XL FORCE4 DRIVE SPROCKET	
525496	ICS 695XL FORCE4 Drive Sprocket

APPLICATIONS

PIPE CUTTING

Our pipe cutting power cutter addresses operator safety with revolutionary grinding technology, virtually eliminating rotational kickback and improving operator positioning. Utilized by public water, private water and wastewater departments worldwide. The patented technology, exclusively from ICS, is designed to cut a variety of materials, from ductile iron to plastic pipe with far less excavation. The ability to cut up to 25 in/63 cm pipe completely from one side radically reduces the difficulty of the job. Complete your next job safer, faster and easier.



ICS ACCESSORIES

Hydraulic Hoses

Quick disconnect, 25 ft/7.5m long, 3000psi.



PART NUMBER	DESCRIPTION
70466	HYDRAULIC HOSES

ICS 2-Stroke Oil

An oil formula that is cleaner burning, and provides better thermal protection.

50:1 Mix



PART NUMBER	DESCRIPTION
571227	OIL - 6-PACK 2.6 oz (77 ml)

Pipe Clamp

The pipe clamp accessory developed for pipe application brings a whole new level of safety, accuracy and ease of use to the job.

Works with:
890F4 Series
701-A Series

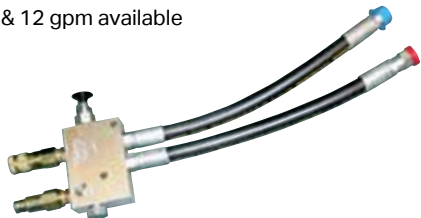


PART NUMBER	DESCRIPTION
537640	PIPE CLAMP
537634	PIPE CLAMP AXLE

Flow Adapter Valve

Power your ICS hydraulic power cutter from skid steers, backhoes, and other common construction equipment.

8 & 12 gpm available



PART NUMBER	DESCRIPTION
70350	FLOW ADAPTOR 8 GPM
71287	FLOW ADAPTOR 12 GPM

ICS Gearbags

Available in 2 sizes.

Small size fits an assembled 695XL with up to a 14" guidebar



PART NUMBER	DESCRIPTION
582025	SMALL GEARBAG
582026	LARGE GEARBAG

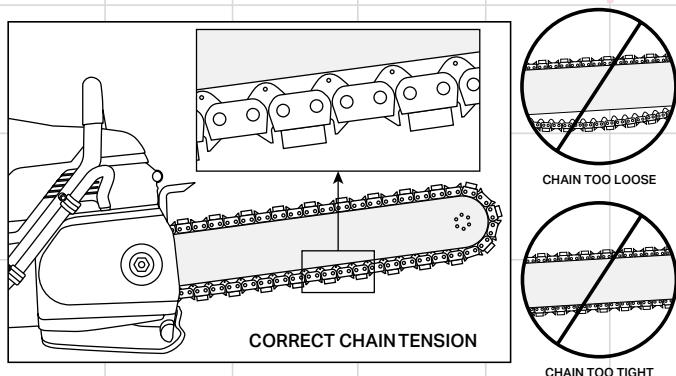
ICS ICS ICS ICS ICS ICS ICS

When the diamond segment has worn down to the welded pad on the chain chassis. Typically a chain will cut 40 – 80 (12 - 24m) linear feet in 6 in/15 cm concrete. On ICS hydraulic power cutter, this range is most often doubled.



Worn PowerGrit chain

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.



See ICS training videos for power cutter setup

The cooling and lubrication for the chains needs to be delivered thru the power cutter/guidebar and therefore you must have a minimum of 20 psi/1.4 bar going through the power cutter.

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.

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.

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.

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 gas power cutters, is every 2-4 chains and for the ICS hydraulic power cutters, is every 7-9 chains (depending on chain chassis).



Yes, number 4 or 5 (12 or 16 mm) bar is not a problem. Anything over number 8 (25 mm) is difficult. Large amounts of rebar will reduce chain life. Caution: rebar must be surrounded by concrete or aggregate material.

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

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

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.

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.

TECHNICAL SPECIFICATIONS

695XL TECHNICAL SPECIFICATIONS

Bar Cutting Depth	PowerGrit/PowerGrit XL 12in/30cm, 16 in/40cm FORCE3 12in/30cm, 14 in/35cm, 16 in/40cm FORCE4 12 in/30cm, 16 in/40cm
Powerhead Weight	21 lbs/9.6 kg
Engine Speed	9300 +/- 150 rpm (max)
Idling Speed	2700 +/- 100 rpm
Horsepower	6.4 hp (4.8 kW) @ 9000 rpm
Engine Type	2-stroke, single cylinder, air cooled
Displacement	5.7 cu inch (94 cc)
Powerhead Dimensions	18"L x 14" H x 12" W (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 20 psi (1.4 bar)
Water Flow Requirement	Minimum: 2 gpm (8 lpm)
Fuel Mix Ratio	50:1 (2%) fuel-to-oil
Fuel Capacity	0.26 gal (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 ISO19432:201

680ES TECHNICAL SPECIFICATIONS

Bar Cutting Depth	FORCE3 12in/30cm, 14 in/35cm PowerGrit/PowerGrit XL 10in/25cm
Powerhead Weight	21 lbs/9.6 kg
Engine Speed	11500 +/- 500 rpm (max)
Idling Speed	2800-3200 rpm
Horsepower	5 hp (3.7 kW)
Engine Type	2-stroke, single cylinder, air cooled
Displacement	4.7 cu inch (76.5 cc)
Powerhead Dimensions	18"L x 11.5" H x 10" W (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 20 psi (1.4 bar)
Water Flow	Minimum: 2 gpm (8 lpm)
Fuel Mix Ratio	50:1 (2%) fuel-to-oil
Fuel Capacity	0.23 gal (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

TECHNICAL SPECIFICATIONS

890F4 TECHNICAL SPECIFICATIONS

	8 gpm (30 lpm)	12 gpm (45 lpm)
Bar Cutting Depth	FORCE4 & PowerGrit/PowerGrit XL 10 in/25 cm, 15 in/38 cm, 20 in/50 cm, 25 in/63 cm	
Powerhead Weight (1' hose whips)	23.5 lbs (10.6 kg)	
Length	23 inches (58.5 cm)	
Height	10.5 inches (26.5 cm)	
Width	9.5 inches (24 cm)	
Hydraulic Supply	8 gpm (30 lpm) @ 2,500 psi (172.5 bar)	12 gpm (45 lpm) @ 2,500 psi (172.5 bar)
Hydraulic Fluid Requirements (Type)	PC HYDREX MV32 or equivalent	
Water Supply Requirements	Minimum: 20 psi (1.4 bar)	
Water Flow	2 gpm (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*	7.0 ft-lbs (9.6 Nm)	10.0 ft-lbs (13.5 Nm)
Horsepower (1)*	6 hp (4.5 kW)	8 hp (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 (8 gpm/30 lpm and
23HP hydraulic power pack (12 gpm/45 lpm) at 2000psi/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 10 in/25 cm, 15 in/38 cm, 20 in/50 cm, 25 in/63 cm
Powerhead Weight	29 lbs (13 kg)
Powerhead Dimensions	20" L x 10.5" H x 12" W (58.5 cm x 26.5 cm x 30.5 cm)
Air Motor Power	6.5hp (5 kW)
Air Supply Requirements (maximum)	90 psi (6 bar) 124 cfm (3.5 m ³ /min)
Motor lubrication	Resin and acid-free SAE 5 W to SAE 10 W oil
Water Supply Requirements	Minimum: 20 psi (1.4 bar)
Water Flow	Minimum: 2 gpm (8 lpm)
Operating Speed	5,700 rpm (average free running) 4,900 sfm (average free running chain)
Vibration $a_{hv,eq}$, 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 $a_{hv,eq}$, 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

POWER PACKS



M300-23G-HPP



SPECIFICATIONS

Dimensions	36in h, 21in w, 29in l / 91cm h, 53cm w, 74cm, l
Oil Flow	12 GPM at 2,300
Pressure	2300 PSI
Oil Reservoir	8 gallons / 30L steel reservoir
Weight	450lbs. / 204kg.
Fuel Capacity	4 gallon /15L steel fuel tank
Engine Manufacturer	Kohler
Cooling System	Air to oil and water to oil cooling systems

Part Number	Description
M300-23G-HPP	POWER PACK, HYDRAULIC, 23.5HP, 8-16GPM



SPECIFICATIONS

Dimensions	36in h, 23in w, 29in l / 91cm h, 58cm w, 75cm, l
Capacity	5gpm/ 19lpm 8gpm/30lpm
Pressure	2500 PSI
Hydraulic Reservoir	3 gallons / 11L
Weight	330lbs. / 150kg.
Fuel Capacity	5.5 gallon /21L
Engine Manufacturer	Briggs & Stratton 18hp

Part Number	Description
599653	P95 POWERPACK