



Diamond Tools and Equipment

PowerGrit
PIPE CUTTING CHAIN

PowerGrit ***XL***
PIPE CUTTING CHAIN

PRODUCT CATALOG



ICSDIAMONDTOOLS.COM

695XL

GAS POWER



6.4
horsepower

94_{cc}
displacement

20_{psi}
water supply

2_{gpm}
water flow

50:1
fuel mix

UNRELENTING

Built for performance and portability for cutting in-ground utility pipe, the 695XL-PG Gas Power Cutter with PowerGrit and PowerGrit® XL chain will change the way you cut pipe. With unmatched power-to-weight ratio, allowing you to cut up to 16" deep from one side into ductile iron, cast iron, PVC, HDPE and Insituform lining. All our powerheads are designed for wet cutting and have integrated water delivery systems that reduce airborne particles during the cut. The 695XL-PG is compatible with the full line of 16" FORCE4® concrete cutting chains, meaning you can use the power cutter on masonry, stone, and even reinforced concrete – perfect for pipe taps, utility vaults, bridgework, and other utility applications.

695XL-F4/PG GAS POWER CUTTER AND CONSUMABLES	
PART NUMBER	DESCRIPTION
575826	ICS 695XL F4 Powerhead
575827	ICS 695XL-16 PG Package with 16 inch FORCE4 Guidebar & PowerGrit Chain
547641	ICS PowerGrit chain 12 inch
608233	New! ICS PowerGritXL chain 12 inch
537764	ICS PowerGrit chain 16 inch
607644	New! ICS PowerGritXL chain 16 inch
553208	ICS 695F4 Guidebar 12 inch
524490	ICS 695F4 Guidebar 16 inch
525496	ICS 695F4 Drive Sprocket
543904	ICS 695XL - F4/PG Premium Tensioner Kit

UNCOMPROMISING

Built to combine performance and portability for cutting in-ground utility pipe, the 680ES-PG gas power cutter with PowerGrit chain will change the way you cut pipe. This affordably priced gas power cutter, allows you to cut up to 10" deep from one side into ductile iron, cast iron, PVC, HDPE and Insituform lining. It is also designed to run the full line of FORCE3® series chains. All our powerheads are designed for wet cutting and have integrated water delivery systems that reduce airborne particles during the cut. With a quick switch of guidebar, chain and drive sprocket, you can use this power cutter in masonry, stone and even reinforced concrete. Making it the most cost-effective, versatile tool in your arsenal.

680ES-PG GAS POWER CUTTERS AND CONSUMABLES	
PART NUMBER	DESCRIPTION
580423	ICS 680ES-10 PG Cutter Package, with 10 inch Guidebar & PowerGrit Chain
608234	New! ICS PowerGritXL-24 chain, 10 inch
580424	ICS PowerGrit-24 chain 10 inch
579158	ICS 680 PowerGrit Guidebar 10 inch
525496	ICS 680ES PowerGrit Drive Sprocket
73935	ICS 680ES Premium Tensioner Kit

5.0

horsepower

76.5_{cc}

displacement

20_{psi}

water supply

2_{gpm}

water flow

50:1

fuel mix

800.321.1240

680ES

GAS POWER



890F4

HYDRAULIC POWER



8 gpm / 12 gpm

6.0/8.0

horsepower

7.0/10.0 ft-lbs

torque

2500 psi

hydraulic supply

20 psi

water supply

2 gpm

water flow

UNYIELDING

If you're looking for the highest level of performance and cutting capability, look no further. The 890PG Hydraulic-Power Cutter with PowerGrit and PowerGrit XL chain offers cutting depths of up to 25" in ductile iron, cast iron, PVC, HDPE and Insituform lining. The deep cutting ability of the 890PG allows the operator to make a single cut from one side so that less excavation is required. All our powerheads are designed for wet cutting and have integrated water delivery systems that reduce airborne particles during the cut. The 890PG operates the full line of FORCE4 concrete cutting chains, meaning you can use the power cutter on masonry, stone and even reinforced concrete. The 890PG is perfect for pipe taps, utility vaults, bridgework, and other utility applications.

890 PG HYDRAULIC POWER CUTTER AND CONSUMABLES	
PART NUMBER	DESCRIPTION
566110	ICS 890F4 Powerhead 8 gpm, 1 ft hose whips
566112	ICS 890F4 Powerhead 12 gpm, 1 ft hose whips
566123	ICS 890PG-15 Pkg 8 gpm, 1 ft hose whips, case
566125	ICS 890PG-15 Pkg 12 gpm, 1 ft hose whips, case
566124	ICS 890PG-20 Pkg 8 gpm, 1 ft hose whips, case
566126	ICS 890PG-20 Pkg 12 gpm, 1 ft hose whips, case
547641	ICS PowerGrit Chain 10 inch
537764	ICS PowerGrit Chain 15 inch
537765	ICS PowerGrit Chain 20 inch
545017	ICS PowerGrit Chain 25 inch
608233	New! ICS PowerGritXL Chain 10 inch
607664	New! ICS PowerGrit XL Chain 15 inch
608216	New! ICS PowerGrit XL Chain 20 inch
608215	New! ICS PowerGrit XL Chain 25 inch
529829	ICS 890F4 Guidebar 10 inch
523080	ICS 890F4 Guidebar 15 inch
529767	ICS 890F4 Guidebar 20 inch
525320	ICS 890F4 Guidebar 25 inch
565065	ICS 890F4 Drive Sprocket
565066	ICS 890F4-FLUSH Drive Sprocket

701-A PNEUMATIC POWER CUTTERS AND CONSUMABLES	
PART NUMBER	DESCRIPTION
573511	ICS 701-A Powerhead
574171	ICS 701-A Package with 15 inch Guidebar & PowerGrit Chain
574172	ICS 701-A Package with 20 inch Guidebar & PowerGrit Chain
547641	ICS PowerGrit Chain 10 inch
537764	ICS PowerGrit Chain 15 inch
537765	ICS PowerGrit Chain 20 inch
545017	ICS PowerGrit Chain 25 inch
608233	New! ICS PowerGritXL Chain 10 inch
607664	New! ICS PowerGrit XL Chain 15 inch
608216	New! ICS PowerGrit XL Chain 20 inch
608215	New! ICS PowerGrit XL Chain 25 inch
529829	ICS 701-A Guidebar 10 inch
523080	ICS 701-A Guidebar 15 inch
529767	ICS 701-A Guidebar 20 inch
525320	ICS 701-A Guidebar 25 inch
565065	ICS 701-A Drive Sprocket
575013	Airpac, pneumatic power cutter oiler
575130	Oiler, with hose whip 3/4 x 6ft.
70636	Tensioner Kit

UNWAVERING

Built to stand up to everyday use in the harsh environment of utility pipe cutting. The ICS powerful pneumatic power cutter with PowerGrit® chain offers cutting depths of up to 25" in ductile iron, cast iron, PVC, HDPE and Insituform lining. The deep cutting ability of the 701-A allows the operator to make a single cut from one side so that less excavation is required. All our powerheads are designed for wet cutting and have integrated water delivery systems that reduce airborne particles during the cut. The 701-A operates the full line of FORCE4 concrete cutting chains, meaning you can use the power cutter on masonry, stone and even reinforced concrete. Perfect for pipe taps, utility vaults, bridgework, and other utility applications.

6.5

horsepower

90_{psi} / 124_{cfm}

air supply requirements

20_{psi}

water supply

2_{gpm}

water flow

701-A PNEUMATIC POWER



800.321.1240

DIAMOND CHAINS

PowerGrit PIPE CUTTING CHAIN



PowerGrit chain utilizes our standard diamond coating formulation and patented chain design to deliver the best balance of cutting speed and diamond life across a wide variety of pipe materials. Based on a decade of development and refinement, PowerGrit chain sets the safety and performance benchmark for cutting ductile iron, cast iron and other common pipe materials in the trench.

PowerGrit **XL** PIPE CUTTING CHAIN



The new PowerGrit XL chain combines the safety and job site benefits of conventional PowerGrit chain with an enhanced diamond coating formulation. The larger diamonds and more aggressive grinding action equate to improved cutting performance in ductile and cast iron pipe and drastically faster cutting speed in plastic pipe applications such as high-density polyethylene (HDPE) materials.

UNSTOPPABLE

Diamond chains are not all created equal, so insist on Diamond Chains from ICS. As the inventors of Diamond Chain Technology™, ICS is committed to continually improving the quality and versatility of its chain to produce more power, better precision and greater efficiency.

Each chain is specifically designed for different applications. Let us help you choose the right chain for your needs to ensure you get the best value for your purchase.

POWERGRIT DIAMOND CHAINS	
PART NUMBER	DESCRIPTION
547641	ICS PowerGrit Chain 10 inch
537764	ICS PowerGrit Chain 15 inch
537765	ICS PowerGrit Chain 20 inch
545017	ICS PowerGrit Chain 25 inch
608233	New! ICS PowerGritXL Chain 10 inch
607664	New! ICS PowerGrit XL Chain 15 inch
608216	New! ICS PowerGrit XL Chain 20 inch
608215	New! ICS PowerGrit XL Chain 25 inch

Portable Hydraulic Powerpack

ICS gas-powered powerpacks are a dependable, self-contained source of hydraulic power that offer superior cooling capacity. The functional, ergonomic design makes them easily transportable to any job site.

P95 18 hp (13.5 kW) Powerpack

Adjustable for 5 gpm or 8 gpm (20 lpm or 30 lpm) operation.

PART NUMBER	DESCRIPTION
599653	P95 18 hp (13.5 kW) Powerpack



M300-23G-HPP

12gpm (30 lpm) operation

PART NUMBER	DESCRIPTION
M300-23G-HPP	23 hp Powerpack

890F4/701-A Pipe Clamp

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 12" (outside diameter).

PART NUMBER	DESCRIPTION
537640	Pipe Clamp
537634	Axle replacement



FOR 890F4/701-A ONLY

Hydraulic Hoses

Quick disconnect, 25' long, 3000psi.



PART NUMBER	DESCRIPTION
70466	25' hoses

Portable Water Supply

When water isn't readily available, this corrosion-resistant water supply system, with poly tank provides the solution. Able to hold up to 25 gallons, this system offers the pressure and flow that ICS power cutters require. The High-Flo pump provides 1.8 gpm at 60 psi and comes with alligator clips for 12v battery hookup. Comes with a whip fitted with a standard hose end, ready for any regular hose.



PART NUMBER	DESCRIPTION
573285	Portable Water Supply

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 both 8 gpm and 12 gpm (30 lpm and 45 lpm) power cutters.



PART NUMBER	DESCRIPTION
70350	8 gpm Flow adapter valve
71287	12 gpm Flow adapter valve

ICS 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.

50:1 Mix



PART NUMBER	DESCRIPTION
571227	2.6 oz (77 ml) 6-pack
571228	2.6 oz (77 ml) 24-pack

APPLICATIONS



GAS POWER



GAS POWER



PNEUMATIC POWER

Our pipe cutting power cutter addresses operator safety with revolutionary grinding technology, virtually eliminating rotational kickback and improving operator positioning. Utilized by public Water and and 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.

DUCTILE IRON

CAST IRON

HDPE

PVC

INSITUFORM PIPE LINING

AC PIPE*

* 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.



HYDRAULIC POWER



HYDRAULIC POWER



HYDRAULIC POWER

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

***Guidebars, chains and drive sprockets fit 633GC & 633F4**

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

***Guidebars, chains and drive sprockets fit 613GC**

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	

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 $a_{hv,eq}$ 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); (Kwa=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

*Guidebars, chains and drive sprockets fit 880F4

(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.



Diamond Tools and Equipment

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