



Diamond Tools and Equipment

PowerGrit[®]
PIPE CUTTING CHAIN

PowerGrit[®] **XL**
PIPE CUTTING CHAIN

PRODUCT CATALOG

ICSDIAMONDTOOLS.COM

695XL

PETROL POWER



4.8 kW

horsepower

94cc

displacement

1.4 bar

water supply

8 lpm

water flow

50:1 (2%)

fuel mix

UNRELENTING

Built for performance and portability for cutting in-ground utility pipe, the 695XL-PG Petrol 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 40 cm 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 40 cm 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-PG PETROL POWER CUTTER AND CONSUMABLES

PART NUMBER	DESCRIPTION
575826	ICS 695XL F4 Powerhead
575827	ICS 695XL PG-16 Petrol Power Cutter Pkg with 40 cm guidebar, PowerGrit-29 chain
547641	ICS PowerGrit 25, 30 cm chain
608233	New! ICS PowerGrit XL 25, 30 cm chain
537764	ICS PowerGrit 29, 40 cm chain
607664	New! ICS PowerGrit XL 29, 40 cm chain
553208	ICS 695F4 Guidebar 30 cm
524490	ICS 695F4 Guidebar 40 cm
525496	ICS 695F4 Drive Sprocket
543904	ICS 695XL - F4/PG Tensioner Kit

UNCOMPROMISING

Built to combine performance and portability for cutting in-ground utility pipe, the 680ES-PG petrol power cutter with PowerGrit chain will change the way you cut pipe. This affordably priced petrol power cutter, allows you to cut up to 25 cm 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 PETROL POWER CUTTER AND CONSUMABLES

PART NUMBER	DESCRIPTION
580423	ICS 680ES PG-10 Petrol Power Cutter Package with 25 cm FORCE4 guidebar, PowerGrit-25 chain
580424	ICS PowerGrit-25, 25 cm Chain
608234	New! ICS PowerGrit XL-25, 25 cm Chain
579158	ICS 680PG Guidebar 25 cm/25 segments
525496	ICS 680ES PowerGrit Drive Sprocket
73935	ICS 680ES Tensioner Kit

3.7 kW

horsepower

76.5cc

displacement

1.4 bar

water supply

8 lpm

water flow

50:1 (2%)

fuel mix

680ES

PETROL POWER



+32 10 301 251

890F4

HYDRAULIC POWER



30 lpm / 45 lpm

4.5_{kW}/6.0_{kW}

horsepower

9.6_{Nm}/13.5_{Nm}

torque

172.5_{bar}

hydraulic supply

1.4_{bar}

water supply

8_{lpm}

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 63 cm 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.

890F4 HYDRAULIC POWER CUTTERS AND CONSUMABLES

PART NUMBER	DESCRIPTION
566357	ICS 890F4 Powerhead 30 l/m, 30 cm hose whips
566356	ICS 890F4 Powerhead 30 l/m, 2.5 m hose whips
566353	ICS 890F4 Powerhead 45 l/m, 30 cm hose whips
566354	ICS 890F4 Powerhead 45 l/m, 2.5 m hose whips
566352	ICS 890F4-FL Powerhead 30 l/m, 30 cm hose whips
566350	ICS 890F4-FL Powerhead 30 l/m, 2.5 m hose whips
566123	ICS 890PG-15 Hydraulic Power Cutter Package with 38 cm Guidebar, PowerGrit-29 chain
547641	ICS PowerGrit-25, 30 cm Chain
537764	ICS PowerGrit-29, 38 cm Chain
537765	ICS PowerGrit-34, 50 cm Chain
545017	ICS PowerGrit-40, 63 cm Chain
608233	New! ICS PowerGrit XL-25, 30 cm Chain
607664	New! ICS PowerGrit XL-29, 38 cm Chain
608216	New! ICS PowerGrit XL-34, 50 cm Chain
608215	New! ICS PowerGrit XL-40, 63 cm Chain
529829	ICS 890F4 Guidebar 30 cm
523080	ICS 890F4 Guidebar 38 cm
529767	ICS 890F4 Guidebar 50 cm
525320	ICS 890F4 Guidebar 63 cm
565065	ICS 890F4 Drive Sprocket
565066	ICS 890F4-FLUSH Drive Sprocket

701-A PNEUMATIC POWER CUTTER AND CONSUMABLES

PART NUMBER	DESCRIPTION
573511	ICS 701-A Powerhead
574171	ICS 701-A F4-15 Pneumatic Saw Package with 38 cm guidebar, PowerGrit-29 chain
547641	ICS PowerGrit-25, 30 cm Chain
537764	ICS PowerGrit-29, 38 cm Chain
537765	ICS PowerGrit-34, 50 cm Chain
545017	ICS PowerGrit-40, 63 cm Chain
608233	New! ICS PowerGrit XL-25, 30 cm Chain
607664	New! ICS PowerGrit XL-29, 38 cm Chain
608216	New! ICS PowerGrit XL-34, 50 cm Chain
608215	New! ICS PowerGrit XL-40, 63 cm Chain
529829	ICS 701-A Guidebar 30 cm
523080	ICS 701-A Guidebar 38 cm
529767	ICS 701-A Guidebar 50 cm
525320	ICS 701-A Guidebar 63 cm
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 63 cm 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.

5_{kW}
horsepower

6 bar/3.5_{m³/min}
air supply requirements

1.4_{bar}
water supply

8_{lpm}
water flow

701-A PNEUMATIC POWER



+32 10 301 251

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
580424	ICS PowerGrit-25, 25 cm Chain
547641	ICS PowerGrit-25, 30 cm Chain
537764	ICS PowerGrit-29, 38 cm Chain
537765	ICS PowerGrit-34, 50 cm Chain
545017	ICS PowerGrit-40, 63 cm Chain
608234	New! ICS PowerGrit XL-25, 25 cm Chain
608233	New! ICS PowerGrit XL-25, 30 cm Chain
607664	New! ICS PowerGrit XL-29, 38 cm Chain
608216	New! ICS PowerGrit XL-34, 50 cm Chain
608215	New! ICS PowerGrit XL-40, 63 cm Chain

Hydraulic Hoses

Quick disconnect, 7,5m long, 206 bar



PART NUMBER	DESCRIPTION
70466	7,5 m hoses

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
571229	ICS 2 -Stroke Oil, 2%, 100 ml, 6-pack
571230	ICS 2 -Stroke Oil, 2%, 100 ml, 24-pack

Portable Hydraulic Powerpack

ICS® petrol 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 13.5 kW Powerpack

Adjustable for 20 lpm or 30 lpm operation.

PART NUMBER	DESCRIPTION
599653	P95 13.5 kW Powerpack

Portable Water Supply

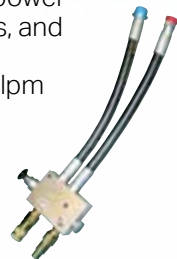
When water isn't readily available, use this 40-litre, self-contained water tank. Lightweight enough to allow for easy handling, yet rugged enough to withstand years of use. This tank offers an easy system with ON -OFF bottom and makes it possible to operate many tools such as ICS power cutters, core drills, etc. The ergonomic design and ease of transportation makes this suitable for all types of worksite conditions.



PART NUMBER	DESCRIPTION
551529EU	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 30 lpm and 45 lpm power cutters.



PART NUMBER	DESCRIPTION
70350	30 lpm Flow adapter valve
71287	45 lpm Flow adapter valve

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 30 cm (outside diameter).

PART NUMBER	DESCRIPTION
537640	Pipe Clamp
537634	Axle replacement

FOR 890F4/701-A ONLY



APPLICATIONS



PETROL POWER



PETROL 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 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 30cm, 40cm FORCE3 30cm, 35cm, 140cm FORCE4 30cm, 40cm
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 ISO19432:201

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

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

*Guidebars, chains and drive sprockets fit 613GC

TECHNICAL SPECIFICATIONS

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 $a_{nv,eq}$ 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 $a_{nv,eq}$ 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 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); (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 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.



Diamond Tools and Equipment

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