



2007 PRODUCT CATALOG





ABOUT ICS

The Company

Founded in 1992, in Portland, Oregon USA, ICS is the World Leader in Diamond Chain Technology™. ICS designs, manufactures and sells concrete saws, diamond chain and a full range of construction related products and specialty accessories.



As the inventor of Diamond Chain Technology for cutting concrete, ICS has continually developed new patented designs and innovative products, rapidly growing from that first diamond chain into a multi-million dollar manufacturing, sales and distribution company.

Still headquartered in Portland, Oregon, ICS also has a sales and distribution office in Belgium and a worldwide distribution network covering more than 100 countries.

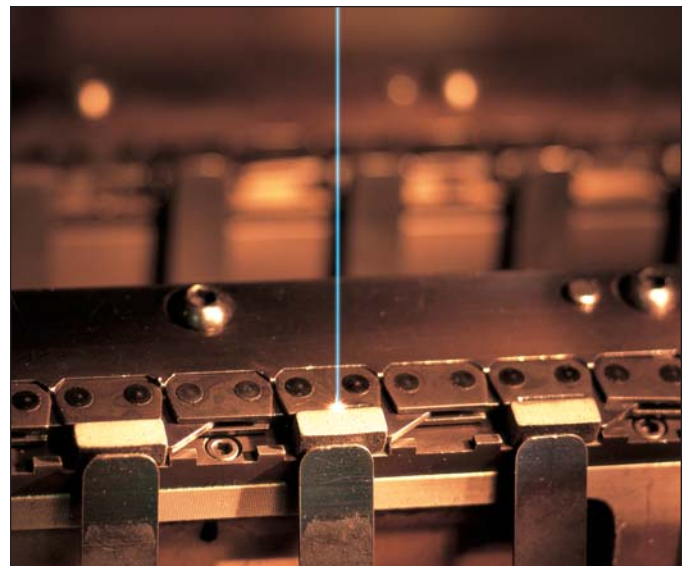
ICS Concrete Saws, Diamond Chains, and related products are sold and supported by a worldwide network of ICS Authorized Dealers and backed by a comprehensive network of factory trained service centers.

The Technology

ICS Concrete Saws let you make deeper, cleaner and more accurate cuts...in less time. Deeper cuts and square corners means getting the job done with fewer steps. No more trying to match up cuts from both sides. No more impact tools that risk damage to the surrounding concrete or masonry. No more over-cutting corners. Eliminating over-cuts reduces patchwork. Cut deep. Cut fast. Cut all the way through from one side. Eliminate over-cuts. Reduce patchwork. Less excavation. More precision.

Principal Technology Advantages

- Deep Cuts (up to 24")
- Square Corners
- Tight Spaces
- Single-Side Access
- Small Holes (3" x 3")
- Lightweight & Portable
- Time Savings
- No Rotational "Kickback" (Grinding vs. Chipping)





APPLICATIONS

General Construction

- From under 18 lbs - high power-to-weight ratio in a compact design to fit in every gang box
- Easy to use, ready to work in minutes for any crew member
- Safe, abrasive cutting for precision work
- Low maintenance - simply rinse off and lube bar, chain, and starter area before putting away
- Cut openings as small as 3 1/2" - great for mechanical and electrical applications
- Deep plunge cuts without over-cuts for huge savings over other cutting methods

Applications

- Foundations
- Concrete pipe
- Electrical box openings
- Ventilation openings
- Expansion joints
- Vents
- Curb cut-outs
- Seismic retrofits



Utility Construction

- Plunge cut straight into concrete pipe
- Non-percussion, less risk of damage
- Lightweight and Portable
- Less Excavation

Applications

- Pipe Taps
- Trim Manholes to Grade
- Utility Vaults
- Small Openings
- Concrete Removal



Landscape Construction

- Deep plunge cuts for holes in water features and fountains
- Abrasive cutting chain for precision work on rocks and stone
- Steerable to cut arcs on stones and pavers
- From under 18 lbs - small and lightweight for job site portability
- Inexpensive replacement chains for per job bidding

Applications

- Miter, angle and arc cuts
- Natural Stone - water features & fountains
- Notch stones to create water channels
- Create clean, tight fitting stone and rock walls
- Hardscapes and fake rocks
- Labor savings on dry stack walls and features



Masonry Construction

- From under 18 lbs - go "with the tool" not "to the tool"
- Openings as small as 3 1/2" allow for clean removal of single bricks
- Non-percussive operation - safely cut without damaging materials
- Easily cut square corners with no over-cuts
- Multi-material chains that cut brick, block, stone, concrete, and synthetic materials
- Cut angles and miters in the wall or on scaffolding without heavy non-portable equipment

Applications

- Windows
- Door openings
- Expansion joints
- Masonry repair
- Crawl space access
- Scupper holes
- Beam pockets
- Remodel brick walls





THE NEW 633GC

NEW!



Product Specifications:

	633GC
Weight	27.5 lbs (12.5 kg) with bar and chain
Bar Length	Up to 16-inches (40 cm)
Engine Speed	11500 \pm 500 rpm mechanically governed 2500-2800 rpm idle
Horsepower	6.5 hp (4.8 kW) @ 8700 rpm
Engine Type	2-stroke, single-cylinder, air-cooled
Displacement	6.2 cu.inch (101 cc)
Chain Speed	4950 fpm (25 m/s), free running
Dimensions	23 inches (58 cm) Length 14 inches (35 cm) Height 12 inches (30 cm) Width
Noise Level	102 dB @ 1 meter
Vibration Level	8 meters/second ² (front handle)
Water Supply	Minimum 20 psi (1.5 bar)
Fuel Mix Ratio	25:1 gasoline-to-oil
Fuel Capacity	0.26 gal (1 liter) 12-15 minutes run time per tank

The Freedom to Cut Concrete Anywhere

The New 2007 model ICS 633GC sets the standard for what is possible in portable concrete cutting. Newly upgraded to better meet the extreme demands of the construction world, the 633GC combines all the breakthrough functional advantages of our original gas saw with more than enough power to do the job and the reliability to keep you in the cut longer. There is simply no better saw for the wide range of cutting requirements encountered on the job.

Advantages and Uses

- Deep cuts up to 16-inches
- Square corners without over-cuts
- Safe to operate, no "kickback"
- Wet-cut, no hazardous dust



Improved Features for 2007

- Special crankshaft sealing and air filtration
- Special water resistant electronic ignition
- New leaf spring starter pawl design
- New slurry channel feature eliminates starter clogging
- Better vibration isolation
- More durable crankcase

Saw Selection

In addition to cutting depth and power requirements, use this chart to help you select the right saw for your needs based on frequency of use.

	Daily	Weekly	Monthly	Quarterly
603GC				
613GC				
633GC				
814PRO				
853PRO				





THE 613GC



Makes Cuts That No Circular Cut-Off Saw Can Make!

The 613GC from ICS® cuts twice the depth of an ordinary circular blade cut-off saw. Weighing only 21 pounds complete, this new saw is capable of plunge cutting to 14-inches and will cut a square opening with no over-cuts in material as thick as 10-inches. The 613GC is powered by an 80 cc, 5.7 hp, 2-cycle gas engine, with an advanced air filtration system designed for wet-cutting aggregate materials. Whether your need is for remodeling, new construction, construction repair or controlled demolition, the 613GC is designed to handle the wide range of concrete and masonry cutting requirements encountered on the job.

Advantages and Uses

- Versatile and easy to use
- Deep cuts up to 14-inches
- Square corners without over-cuts
- Irregular shapes
- Safe to operate, no “kickback”
- Wet-cut, no hazardous dust

Features

- Special crankshaft sealing and air filtration
- Use the 613GC with standard “garden hose” water pressure.
- Special water resistant electronic ignition
- Sprocket side cover and guard flap designed for maximum safety
- Starter designed for concrete-cutting environment
- Fixed-Position WallWalker® helps ensure easier cuts in multiple positions

Saw Selection

In addition to cutting depth and power requirements, use this chart to help you select the right saw for your needs based on frequency of use

	Daily	Weekly	Monthly	Quarterly
603GC				
613GC				
633GC				
814PRO				
853PRO				

Product Specifications:

	613GC
Weight	21 lbs (9.5 kg)
Bar Length	12-inch (30 cm), 14-inch (35 cm)
Engine Speed	12000 ± 500 rpm, electronically governed 2800-3200 rpm idle
Horsepower	5.7 hp (4.2 kW) @ 9000 rpm
Engine Type	2-stroke, single-cylinder, air-cooled
Displacement	4.9 cu.inch (80 cc)
Chain Speed	5300 fpm (27 m/s), free running
Dimensions	18 inches (45 cm) Length 11.5 inches (29 cm) Height 10 inches (25 cm) Width
Noise Level	100 dB @ 1 meter
Vibration Level	10.5 meters/second ²
Water Supply	Minimum 20 psi (1.5 bar)
Fuel Mix Ratio	25:1 gasoline-to-oil
Fuel Capacity	0.23 gal (.88 liter) 15-18 minutes run time per tank





THE 603GC

NEW!



Newest, Lightest Weight and Most Affordable Saw from ICS!

The new 603GC from ICS is the lightest weight gas-powered, concrete cutting chainsaw on the market. Weighing less than 18 lbs, this new saw will plunge cut to 10 inches and make square corners with no over-cuts. With a powerful, 64 cc, 4.2 hp engine and advanced, rear-port, multi-chamber air filtration the 603GC is dependable and powerful enough for a wide range of concrete and masonry cutting jobs.

Advantages and Uses

- Versatile & easy to use
- Deep cuts up to 10-inches
- Square Corners with no over-cuts
- Irregular shapes
- Safe to operate, no rotational “kickback”
- Wet-cut, no hazardous dust

Features

- Rear-port, multi-chamber air filtration designed for wet-cutting
- Double-pad fixed Wallwalker® for stable cutting and less vibration
- Decompression valve eases starting
- Ergonomic handle for balanced vertical and horizontal cutting
- Starter designed for durability and performance in wet-cut environment
- Chain mounted inside clutch provides better saw balance
- Externally mounted clutch for increased cooling and longer clutch life

Saw Selection

In addition to cutting depth and power requirements, use this chart to help you select the right saw for your needs based on frequency of use

	Daily	Weekly	Monthly	Quarterly
603GC				
613GC				
633GC				

Product Specifications:

	603GC
Weight	17.6 lbs (8.0 kg)
Bar Length	10" (25 cm)
Engine Speed	11500 +/- 500 rpm, electronically governed 2800-3200 rpm idle
Horsepower	4.2 hp (3.1 kW) @ 9500 rpm
Engine Type	2-stroke, single-cylinder, air-cooled
Displacement	3.9 cu-in (64 cc)
Noise Level	101dB @ 1m (3ft)
Vibration Level	10.1 meters/second ² (front handle)





THE RZ60C



Product Specifications:

	RZ60C
Weight	23 lbs (10.5 kg)
Blade Speed	5100 rpm
Engine Speed	10500 +/- 500 rpm, electronically governed 2800-3200 rpm idle
Horsepower	4.2 hp (3.1 kW) @ 9500 rpm
Engine Type	2-stroke, single-cylinder, air-cooled
Displacement	3.9 cu-in (64 cc)
Noise Level	101dB @ 1m (3ft)
Vibration Level	9.2 meters/second ² (front handle)

Economy, Speed and Performance

The new RZ60C from ICS is built on the same engine platform as our 603GC making it purpose built for working in the concrete cutting environment. With a powerful, 64 cc, 4.2 hp engine and advanced, rear-port, multi-chamber air filtration the RZ60C is dependable and powerful enough for a wide range of concrete and masonry cutting jobs.

Advantages and Uses

- Versatile & easy to use
- Reversible blade arm
- Wet or dry cut
- Accepts either 12 or 14 inch blades with 1" or 20 mm arbor

Features

- Rear-port, multi-chamber air filtration designed for wet-cutting
- Decompression valve eases starting
- Ergonomic handle for balanced vertical and horizontal cutting
- Starter designed for durability and performance in wet-cut environment
- Adjustable blade guard for "on-the-fly" adjustments with no tools
- Reversible blade arm for closer cutting to walls and the ground
- Steel blade guard to protect operator from either abrasive or diamond blades
- Adjustable arbor flange for versatile blade usage





THE 853PRO



High Performance for the Pro Cutter

ICS developed the high-performance 853PRO Series Hydraulic Concrete Cutting Chainsaws for the Professional Concrete Cutter. This series of professional saws is built tough to stand up to everyday use in the harsh environment of concrete cutting. Get the unique versatility of a genuine ICS® concrete cutting chainsaw, including the ability to cut small mechanical openings and deep plunge cuts. Available in 8 gpm and 12 gpm.

Advantages and Uses

- Fast, efficient, and versatile
- Cuts mechanical openings quickly and perfectly
- Narrow, straight plunge cuts up to 24-inches deep
- Perfect square corners
- Safe, reliable and easy to maintain
- Chain tensioning system is guaranteed for the life of the saw
- Low cost of operation

Features

- Safety operating trigger prevents accidental starting
- Automatic water valve integrated with hydraulic trigger provides water on demand
- Built-in WallWalker® provides leverage advantage to make cutting easier
- Modular design for easy service
- Ergonomic rear handle allows multiple hand positions
- Tough industrial finish on die-cast aluminum body for long lasting durability

Saw Selection

In addition to cutting depth and power requirements, use this chart to help you select the right saw for your needs based on frequency of use

	Daily	Weekly	Monthly	Quarterly
613GC				
633GC				
814PRO				
853PRO				

Product Specifications:

	853PRO	853PRO Plus
Weight	15-inch bar and chain: 27.3 lbs. (12.4 kg) 19-inch bar and chain: 28.0 lbs. (12.7 kg) 24-inch bar and chain: 29.0 lbs. (13.2 kg)	15-inch bar and chain: 27.3 lbs. (12.4 kg) 19-inch bar and chain: 28.0 lbs. (12.7 kg) 24-inch bar and chain: 29.0 lbs. (13.2 kg)
Bar Lengths	11 inches (28 cm) 15 inches (38 cm) 19 inches (48 cm) 24 inches (61 cm)	11 inches (28 cm) 15 inches (38 cm) 19 inches (48 cm) 24 inches (61 cm)
Operating Speeds	5700 rpm 4900 sfm	5500 rpm 4600 sfm
Torque:	95 in-lbs	150 in-lbs
Horsepower	11 hp	15 hp
Hydraulic Supply	8 gpm (30 liters/min.) 2500 psi (172.5 bar)	12 gpm (45 liters/min.) 2500 psi (172.5 bar)
Noise Level	88dB @ 1m (3ft)	88dB @ 1m (3ft)
Vibration Level	4 meters/second ² (front handle)	4 meters/second ² (front handle)



The PRK™ system for ICS® 853PRO Hydraulic saws cuts up to 40% faster.



THE 814PRO



Full Features in a Compact Size

The 814PRO is a rugged, reliable tool designed for the rigors of construction, yet it's smaller and lighter than our other hydraulic tools. Ideal for utility work, like plumbing or electrical openings, the 814PRO saw will cut openings as small as 3.5 X 3.5 inches.

Advantages and Uses

- Extremely lightweight and versatile
- All the benefits of diamond chain technology in a compact, easy to use size.
 - Perfect corners, without over-cutting
 - Plunge cuts up to 13-inches deep
 - Very small openings (3.5 inches x 3.5 inches)
- Costs less than full size hydraulic saws
- Reliable, safe and low maintenance
- Hydraulic system and integrated design extremely rugged and easy to service
- Quick and easy clean-up when used with TSS™ system

Features

- Automatic water valve minimizes water mess and cleanup
- Built-in WallWalker® provides leverage advantage to make cutting easier
- Short hydraulic pigtails with flush-face connectors for quick attachment to power pack or mobile skid loader
- Quick change motor cartridge and seal, without plumbing
- Quick change rim-type sprocket
- Easy conversion for use with SpeedHook®

Saw Selection

In addition to cutting depth and power requirements, use this chart to help you select the right saw for your needs based on frequency of use

	Daily	Weekly	Monthly	Quarterly
603GC				
613GC				
633GC				
814PRO				
853PRO				

Product Specifications:

	814PRO
Weight	15 lbs (6.8 kg) with bar and chain
Bar Length	13 inches (32 cm)
Operating Speed	4950 fpm (25 m/s), free running
Horsepower	11 hp
Hydraulic Supply	8 gpm (30 liters/min) 2500 psi (172.5 bar)
Noise Level	88dB @ 1m (3ft)
Vibration Level	3.5 meters/second ² (front handle)





DIAMOND CHAINS & BLADES

MAX Series Diamond Chains

Patented bumper design for smooth cutting performance. MAX series diamond chains are designed to be the best general purpose chains for ICS® brand gas concrete saws.

PRO Series Diamond Chains

Engineered for the highest possible performance, these are the chains the PRO Cutters prefer. The PRO Series also includes the new PRK™ diamond chain cutting system for revolutionary cutting speed and precision.

Guidebars

Genuine ICS® guidebars, replacement parts and other accessories keep you cutting at peak efficiency.

Insist on genuine ICS® Brand Diamond Chains and Guidebars and you are assured to have the latest innovation, highest quality and safety.



Diamond Chain Selection Chart										
	TwinMAX	TwinMAX Plus	TwinMAX Abrasive	TwinPRO	PremiumPRO	AbrasivePRO	SoftPRO	CornerPRO	PRK SS	PRK LL
Hard Reinforced Concrete		■			■		■		■	■
Medium Concrete	■	■		■	■		■		■	■
Brick	■	■	■	■	■	■			■	■
Natural Stone	■	■		■	■				■	■
Soft Abrasive	■		■	■		■				
Following Wall Saw								■		
Over-all Chain Life	◆◆◆	◆◆◆	◆◆◆	◆◆◆	◆◆◆◆◆	◆◆◆	◆◆	◆◆◆	◆◆	◆◆◆
Cutting Speed	◆◆◆	◆◆	◆◆◆	◆◆◆	◆◆◆	◆◆◆	◆◆◆◆	◆◆◆	◆◆◆◆◆	◆◆◆

ICS® Diamond Blades

- Broad selection to cut concrete, masonry, stone, concrete pipe, asphalt and many other materials
- Two quality levels
 - General Purpose - best for everyday, multi-purpose cutting
 - Economy - best for budget-minded cutting
- MBS™ Series top grade diamonds
- 20 mm arbor hole with knockout for 1"
- Complies with ANSI B7.1 and B7.5 safety standards

Diamond Blade Selection Chart				
	Service Life	Segment Width	Segment Height	Cutting Speed
General Purpose	◆◆◆	.125"/.210"	.275"	— — — — — ●
Economy	◆◆	.110"/.125"	.395"	— — — — — ●



ACCESSORIES

The ICS Multiflow Power Pack

A dependable, self-contained source of hydraulic power, the ICS® Multiflow powerpack delivers superior cooling capacity and an ergonomic and extremely functional design that makes it easily transportable to any job site.

Specifications

Engine

- Briggs & Stratton, 18 hp V-Twin, air cooled
- Electric start
- Fuel capacity: 7 gal (26.5 liters)

Hydraulic System

- 8 gpm (30 liters/min) at 2,500 psi (172 bar) or 5 gpm (20 liters/min) at 2,500 psi (172 bar)
- Reservoir: 2.7 gal (11 liters)
- Relief valve setting: 2,100-2,300 psi (145-158 bar)

Dimensions

- Length: 33" (84 cm), Width: 21.5" (55 cm), Height: 29" (74 cm)

Weight

- 216 lbs (98 kg)

ICS also has 8 gpm electric powerpacks and 12 gpm gasoline or electric powerpacks available. Please call or email for details.



Flow Adapter Valve

Leave the noise and fumes a comfortable distance away. Smooth, quiet operation of any ICS® hydraulic saw can be powered from other hydraulic equipment with a simple adapter. Available for 8 or 12 gpm saws.



14H-Hydraulic Cut-Off Saw

Excellent for long, straight cuts where depth of cut is not an issue. Operates at 8 gpm.



SpeedHook® - Less Operator Effort

SpeedHook® is an ingenious accessory that attaches quickly and supports the weight of your saw to dramatically reduce operator fatigue. SpeedHook® increases saw stability during cutting and also increases chain life.



Features

- Extremely inexpensive (compared to wall saws)
- Simple and easy to use
- Lightweight 18 lbs (8 kg)
- Adjustable, two anchor mounting
- Convertible left or right side use
- Expandable 42" (105 cm) & 21" (53 cm) sections
- Stable cutting increases diamond chain life

Total Slurry Solutions (TSS™) Hi-Lift Performance Vacuum Systems

The Total Slurry Solutions (TSS™) Hi-Lift Performance vacuum systems provide an easy way to contain and dispose of the slurry produced when wet-sawing or drilling in concrete, masonry or stone materials.

TSS-15™

- Polyethylene tank, won't dent or corrode, (actual fill capacity 15 gallons)

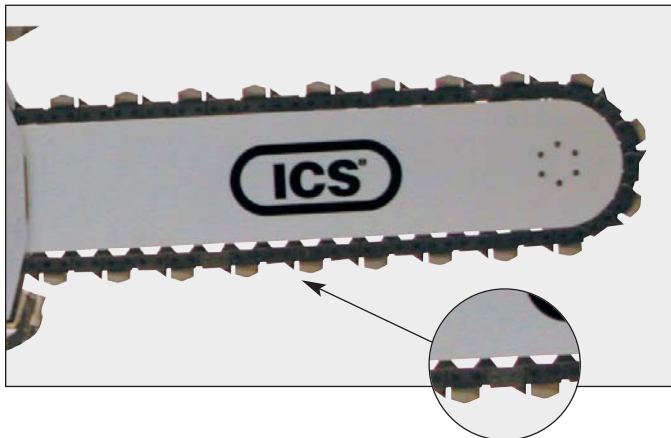
TSS 15/55™

- Hi-Lift, 105 inches of water-lift, 112 cfm
- 2 hp bypass motor
- 110 v/60 Hz
- Float assembly with auto shut off



Chain Tension

Chain based cut-off saws run with much looser chain tension than wood chainsaws. It is very common on chain-based cut-off saws to have the drive links hang completely out of the bar. The rule of thumb is: the chain should be able to be pulled around by hand with ease. For more information refer to the ICS Chain Tensioning Tip Sheet.



Carrying Cases

Protect your investment with a high quality carrying case from ICS®.



Cutting Tips

When using a new chain, it will be necessary to "open up" the diamonds. Opening diamonds will increase cutting speed. Use minimum 20 psi water pressure. Always cut full throttle. Slowly plunge straight into wall. Push hard enough to cause the RPM's to drop by 25-30%. Always apply steady feed force. For safety instructions please read owner's manual.

Maintenance

Always rinse saw with water and lubricate bar and chain. Inspect air filter after every use and change every 2-3 chains.

Bar/Chain Lubrication

Thin film of WD-40® or equivalent on bar and chain prior to use will help reduce friction and ensure proper chain break-in.



ICS® 2 Stroke Engine Oil

ICS has developed an oil formula that is cleaner burning, provides better thermal protection and an improved film barrier which reduces piston ring wear. Failure to use ICS® Oil and a 25:1 ratio may result in premature engine failure and/or up to 90% reduction in engine life.



The best way to cut concrete™

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