

APPLICATIONS



MECHANICAL OPENINGS

Mechanical openings smaller than 2' x 2' (60 cm X 60 cm) can be created in under 20 minutes with ICS® concrete chain saws. Even new operators can achieve great results with minimal experience. Note: A core can weigh as much as 150 lbs per cubic foot (2371 kg/cu. meter). Pay special attention to shifting materials and proper cutting sequence when making larger openings.



1. After laying out the opening, score cut to 1' (2.5 cm) deep (Use a small level when making horizontal cuts to ensure a straight cut) - 4 minutes.



2. Plunge cut all sides of the opening, starting with the bottom cut - 10 minutes.



3. Carefully finish each corner.



TOTAL ELAPSED TIME: 14 MINUTES.

EGRESS WINDOWS

Diamond Chain Technology® allows remodelers to easily add windows and egress windows to additions and basement remodels. Because there are no overcuts, water proofing issues around the windows are reduced.



1. Layout and score cut the entire opening to 1' (2.5 cm) deep - 6 minutes.



2. Cut the bottom first to avoid pinching the bar in cut. Plunge saw into cut and cut to the corners on each side - 12 minutes.



3. Use wedges on the bottom of the cut to keep the core in place and avoid cracking while cutting the top - 12 minutes.



TOTAL ELAPSED TIME: 30 MINUTES.

HVAC & ELECTRICAL

With an ICS® concrete chain saw, electrical and HVAC contractors can install small openings in minutes without any additional setup time or stand mounting. In addition, channels and slots can be added with the same tool for access to the installation from pipes and conduit. Note: An ICS saw with shorter height bar, like the 814PRO or 603GC, is easier to use when cutting small openings.



1. Carefully layout the electrical box to be installed - 1 minute.



2. Carefully score cut the entire opening, working slowly to each corner. Use a small level on horizontal cuts - 2 minutes.



3. Plunge into the center of each cut avoiding the corners when pushing the saw in. Then slowly work the saw to the corners - 2 minutes.



TOTAL ELAPSED TIME: 5 MINUTES.

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CONCRETE PIPE TAP

ICS® VS. CUT-OFF SAW AND CHIPPING HAMMER

While ICS® concrete chain saws won't cut round circles, they can easily make 8-sided cuts, providing quick, tight fitting joints for concrete pipe taps. With proper technique, gaps of less than 1 (2.5 cm) are easily achievable, requiring very little patchwork. The same job with a cut-off saw takes longer, results in overcuts, and requires the use of potentially damaging percussive tools to finish the work.

ICS METHOD



1. Carefully score cut all 8 cuts - 3 minutes.



2. Plunge straight into all 8 sides in a stitching method working from the center to both ends of each cut - 12 minutes.



3. The result: A pipe tap with less than one inch gap installed, no over-cutting or cracking from percussive tools.
Note: Proper attention to layout and keeping the bar perpendicular to the pipe are important for tight joints.

TOTAL ELAPSED TIME: 15 MINUTES.

CUT-OFF SAW AND CHIPPING HAMMER METHOD



1. Score a square cut on the first 4 sides of the layout - 3 minutes.



2. Score a second square cut offset by 45 degrees - 3 minutes.



3. Chip out the concrete inside the layout, exposing the steel reinforcement - 10 minutes.



4. Cut out the exposed steel with a cut-off saw - 6 minutes.



5. Chip out remaining concrete in opening for proper pipe fit - 7 minutes.



6. Install the pipe in the opening and patch the over-cuts - 20 minutes.

TOTAL ELAPSED TIME: 49 MINUTES.

APPLICATIONS

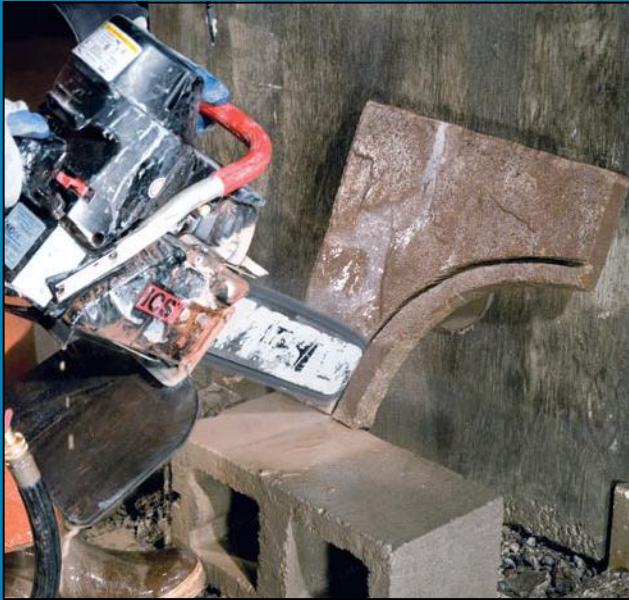


LANDSCAPE

ICS® VS. GRINDER WITH DIAMOND BLADE

ICS® concrete chain saws are capable of making mitered cuts and small openings in natural and synthetic stone. Custom cuts can be made in pavers, water features, and many other landscaping elements. Portable and lightweight, ICS concrete chain saws are easy to move around the jobsite. Safe and simple to operate, they can be used by any member of the crew.

ICS METHOD - CURVES IN PAVERS



1. Score cut about 1" deep, following the intended curve - 1 minute.



2. Continue step cutting following the curve - 4 minutes.

The result: A perfect curve with an exposed surface that is smooth and clean. No snapping or breaking of the core minimizes breakage.

TOTAL ELAPSED TIME: 5 MINUTES.

GRINDER METHOD - CURVES IN PAVERS



1. Score cut the curve, using a stitch cut with a diamond blade - 4 minutes.



2. Continue stitch cutting the curve to full depth - 4 minutes.



3. Snap the piece to remove the core. Grind the surface smooth, if required - 2 minutes.

TOTAL ELAPSED TIME: 10 MINUTES.

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AC UNIT INSTALL

ICS® VS. RING SAW

Diamond Chain Technology allows ICS® concrete chain saws to create openings less than 2' (60 cm) square in less than 20 minutes, with square corners and no finish work required. Ring saws, on the other hand, come with several limitations. Unlike ICS concrete chain saws, plunging is not possible and the smallest opening is 14" (35 cm). In addition, square corners are only possible to 6" (15 cm) deep without grinding or chipping.

The following sequence of photos compares an ICS concrete chain saw with a standard ring saw performing a typical AC unit installation.

ICS METHOD



1. Score the entire cut, plunging the bar 1" (2.5 cm) into the concrete - 3 minutes.



2. Plunge the saw all the way into the cut, starting on the bottom first. Use the same technique to finish the remaining three sides, ending with the top - 12 minutes.



3. The AC Unit is installed with less than 1/4" (.64 cm) gap on all sides, with perfectly square corners, a clean finish, and no chance for leaks.



IMPORTANT - concrete weighs as much as 150 lbs per cubic foot (2371 kg/cu. meter). Pay attention when removing cores larger than 1' /sq (.3m/sq) in diameter. When working from elevated location, it may be necessary to strap core when cutting to avoid losing core prematurely.

Note: Pay attention to the sequence of cutting to avoid pinching the bar in the cut. Always start with the bottom cut first. Proper alignment of the score cut will help ensure straight cutting when at full depth.

TOTAL ELAPSED TIME: 15 MINUTES.

RINGSAW METHOD

With a ring saw, plunging is not possible. In addition, the smallest opening possible is 14" (35 cm). Furthermore, square corners are only possible to 6" (15 cm) deep without grinding or chipping.



1. Score cut the entire opening (note that dust is created until the blade is more than 4 inches (10 cm) into the cut on horizontal cuts) - 3 minutes.



2. Step cut the bottom - 3 minutes.



3. Next, step cut the sides 8 minutes.



4. Finally, step cut the top 4 minutes.



5. The final opening shows the overcuts that are required when using a ring saw to create openings of less than 14" (35 cm).

TOTAL ELAPSED TIME: 20 MINUTES (not including the required finish work).