

ACG SAWS AND TOOLS OF CANADA INC.

SAFETY & OPERATOR MANUAL

DRAGON SAW MODEL RS-1620H + RS-1620E + RS-1620G



Dragon Saw Model RS-1620-H + RS-1620-E + RS-1620-G

### Warning

In order to safely work with the hydraulic ring saw you have to follow all the safety recommendations from the manufacturer and all the competent safety organizations governing your territory and area.

It is mandatory and imperative that you read and comprehend the following instructions to prevent any injury or even death to the operator or any one else in your surrounding work area and property.

Only trained personnel or experience operator shall use the cutting tool or saw.  
Any repairs must be done by a trained or knowledgeable mechanic.

The saw must not be modified in any way without the express written permission from the manufacturer. Unauthorized changes or modifications can result in Serious Injury or even Death.

Safety regulations and obligations varies from local, regional and countries. It is your responsibility to be informed and to follow all your local, regional, territory or country safety authorities instructions and conform with all their safety recommendations and obligations.

The OPERATOR is responsible to follow all the safety procedure to protect himself, other person or property in his work area.

**DO NOT OPERATE** the tools if you have consume prescription drug that may affect your judgement or ability to safely operate the tool or illegal drugs and alcohol.

It is imperative that you **WEAR** all the safety clothing and personnel protection equipment such as hard hat, safety glasses, hearing protection, dust protection, safety boots ( leather and preferably rubber anti -shock boots in wet environment) gloves, long sleeve shirt and pants plus any other protection or apparatus that may be deemed necessary to protect your and others health and safety.

Play it safe do not be sorry.

The saw is design to safely cut only concrete, masonry and stone.

Visually inspect the saw for any defect or broken parts before using.  
NEVER operate a defective saw or blade.

If damages or defects are notice have the saw repair by trained and experience personnel only before using.

Keep the saw clean, free from any accumulated debris, slurry , oil, grease or any other substances that would impair to safely operate the saw.

Only a trained person who has read and understand the operating instruction, has experience with the use and operation of saws, the related usage of the tool and completely understand the instruction manual in conjuncture with his experience and knowledge in the safe operation of saws should operate the saw.

**WARNING Keep loose or torn clothing or body parts away from any moving parts.  
Serious injury or death may result.**

**Plan your cutting operation before starting to prevent any injury or death by an unsecured or falling part of the cut material or the binding of the blade caused by an un secure part being cut.**

Have a person trained and qualified in the detection of electrical power location inspect for live wires, live cables or pipes that may be near, behind or imbedded in the material being cut de-energize before attempting to start cutting. Make sure that the tool is properly grounded and wear the required protective equipment. **Live electrical power will cause serious injury or death.**

Inspect the blade for any deformation, crack, missing parts, segments, any other unusual sign of metal fatigue or defects.

Have the blade replace immediately before reusing with one specified by the manufacturer for this particular saw or tool.

The blade should only be change by a trained or authorized person in the repair of the tool.

## WARNING

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To safely operate the tool you should be on solid ground with a firm grip on both handles of the tool.

### **WARNING**

DO NOT operate on a slippery or uneven area.

DO NOT allow anyone in front of the tool or in line with the blade while working, flying debris or slurry may **INJURE** someone.

DO NOT operate without all the guards in place and in good working order.

### **DANGER**

**All** electrical operated tools should be grounded and hook up to a ground fault protection system.

**All** gasoline or petrol tools must be used in an outside environment. **Never** inside or confine area. Accumulation of fumes or gases will cause serious injury or death.

Be vigilant and very attentive to the work being perform and to your work area.

Never operate a tool or saw when you are tired, fatigued or stressed.

Follow all the safety recommendations.

Play it safe, your health and safety is your most important asset.

NEVER exceed the manufacturer recommended pressure rating and gallons per minute (gpm) specification or the electric power requirements of the motor..  
NEVER exceed the manufacturer recommended operating speed.

Make certain that the saw is in the neutral position before starting the hydraulic power supply. and that the previous instruction on the visual inspection of the tool has been carried out.

Remove any material, debris, water accumulation, slurry or any other foreign objects from the work area that could prevent you to safely operate the tool.

The cutting operation may produce sparks when embedded steel is encounter in the concrete being cut. No flammable material or fluid should be in your work area.  
DO NOT operate the saw in confine space or an area where a spark could produce an explosion.

Always be alert and vigilant.  
DO NOT use the saw or the tool other than its intended application.

Cut in step not to overload the tool to prevent overheating, damage to the motor or to put to much stress on the blade.  
DO NOT apply to much pressure to the tool and maintain a firm grip at all times.

Disconnect all power and water supply at the completion of your work.

DO NOT leave an un-attendant tool hook to the power supply.

Clean the tool completely

Hydraulic Model

Weight without blade----- 29.8 lbs or 12.54 kg  
Width without the blade----- 10 1/4 in or 260 mm  
Height without the blade----- 19 in. or 482.6 mm  
Length without the blade-----26 in. or 660mm

Power Requirement----- Hydraulic  
Maximum flow----- 8 gpm-30lpm.  
Maximum pressure----- 2500 psi.-172.5 bar

Maximum blade diameter-----20" or 510mm  
Maximum cutting depth with 16" blade = 12 inches-300mm  
Maximum cutting depth with 20" blade = 16 inches-407mm

Cooling of blade-----Water cool only ( no dry cutting allow)

Electric Model

Weight without blade----- 30 lbs 5 oz-- 13.75 kg  
Width without the blade----- 9.5 in or 242 mm  
Height without the blade----- 12 in. or 305 mm  
Length without the blade-----29 in. or 737mm

Power Requirement----- Electric 120V - 1ph- 60hz 25amps 2875 watts  
Or 230V -1ph- 60hz 12.5amps 2875 watts

Maximum blade diameter-----20" or 510mm  
Maximum cutting depth with 16" blade = 12 inches-300mm  
Maximum cutting depth with 20" blade = 16 inches-407mm

Cooling of blade-----Water cool only ( no dry cutting allow)

Gas Model

Weight without blade----- 30 lbs or 13.608 kg  
Width without the blade----- 10.5 in or 267 mm  
Height without the blade----- 16 in. or 407 mm  
Length without the blade-----24.5 in. or 622mm

Power Requirement----- Gas

Maximum blade diameter-----20" or 510mm  
Maximum cutting depth with 16" blade = 12 inches-300mm  
Maximum cutting depth with 20" blade = 16 inches-407mm

Cooling of blade-----Water cool only ( no dry cutting allow)

Saw will not start turning----- Be certain that the power supply is hook up  
 Accumulation of heavy slurry prevent the saw from turning  
 Seize blade guide roller.

Spark coming from the side  
 of the blade while turning----- -Not enough water to cool the blade.

Blade turning to slow----- -Check power supply  
 Seize guide bearing.

Blade loose -----Re-set guide bearing cover

Gear box is hot-----Not enough oil.  
 To much oil.  
 Water in oil.  
 Block or dirty vent \*\*\*\* Clean Daily\*\*\*\*

Hydraulic version  
 On & Off Valve sticking----- -Broken plunger o-ring.  
 Bend plunger.

Hydraulic oil leak-----Hole in supply or return line.  
 Damage coupler fitting or loose fitting.

Electric-----Check power supply



Limited Tool and parts Warranty.

ACG Saws & Tools of Canada Inc. the manufacturer certifies that the tool is free from any material or workmanship defect and warrant the tool with a limited warranty for a period of 1 year from the date of the original purchase. Workmanship charges may apply.

Subject to certain exceptions, our responsibility under the warranty is limited to the inspection and replacement of any parts that may be defective after being shipped at our plant or any other point designated by the manufacturer

Cost of transport, labor or other expense are not cover by the warranty and are the responsibility of the buyer.

The warranty does not cover normal wear & tear, abuse, lack of maintenance, unauthorized repairs or attempt to repair by others than the manufacturer, misuse or the tool being used other than its intended application.

The add on components or integral units as electric-hydraulic motors. gas engine, transmission, batteries etc. are the responsibility of the prime manufacturer warranty and are excluded from this warranty.

This warranty replace all other implied or expressed warranty and all other such warranty are therefor disclaimed.

Proof of purchase is mandatory. An authorization return number must be issue by the manufacturer before any tool may be ship to us for repair or warranty.

The manufacturer will repair the tool to it original designation at his desecration .