

# Cutters Edge MULTI-CUT Fire Rescue Saw Specifications – Model # CE-2171-RS

## ENGINE

TYPE:	Single-cylinder 2-cycle, with loop scavenging
DISPLACEMENT:	4.3 cu.in. (70.7cc)
BORE:	1.97 in. (50mm)
STROKE:	1.4 in (36mm)
COMPRESSION RATIO:	10.2:1
BEARINGS:	Heavy-duty deep-groove ball bearings on crankshaft, needle cage bearings on connecting rod, piston pin and clutch
CYLINDER/PISTON:	Closed ported, dual rings with four transfer ports
CYLINDER MATERIAL:	Nikasil
MAX ENGINE SPEED:	No load...13,500 RPM
HORSEPOWER:	5.67hp (DIN)

## IGNITION SYSTEM

TYPE:	Electronic, one piece modular, CD
BRAND:	FHP
SPARK PLUG:	Champion CJ7Y or equivalent
GAP:	0.020 in. (0.5mm)

## STARTING SYSTEM

ONE STEP STARTING SYSTEM WITH COMPRESSION RELEASE  
Comprised of...  
Momentary contact switch  
Combined choke/throttle lock with Throttle safety guard

## AIR FILTRATION

SYSTEM:	"RAM-AIR INDUCTION" - Metered Stack
TYPE:	4-stage external mount with oil tack barrier
SURFACE AREA:	211.4 sq.in. effective filtration surface area
MICRON RATING:	<1 Micron

## FUEL & ENGINE LUBRICATION

GASOLINE OCTANE RATING:	Use 87 octane or higher
FUEL MIX RATIO:	With Cutters Edge Synthetic Oil.....100:1 If petroleum base 2-cycle oil used: ...50:1
FUEL TANK CAPACITY:	26.8 fl.oz. (0.77 liters)

## CARBURETOR ISOLATION

TYPE:	Designed to eliminate Vapor-lock and Vibration Air gap isolation and Bakeolite insulation Pressurized carburetor compartment keeps out dirt
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## DRIVE SYSTEM

TYPE:	Inboard, 3-shoe centrifugal clutch
STYLE:	Rim & Drum System Radially ported to keep rim free of tar & debris buildup... free floating to keep chain in perfect alignment with bar groove
SIZE:	404 x 8 TOOTH
CHAIN SPEED:	No load chain speed 121.6 FPS (feet per second)

## GUIDE BAR

TYPE:	Solid one piece construction 11 Tooth Sprocketnose 20" and 16" slotted for Guard/Depth Gauge
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## MATERIAL

STEEL ALLOY:	.234" Thick Bar Body
HIGH SPEED STEEL:	Sealed Sprocketnose
CUTTING LENGTHS:	20" 16" and 12"
SIZE:	404 Pitch .063 Gauge

## CUTTING CHAIN

STYLE:	CUTTERS EDGE BULLET® CHAIN
TYPE:	Carbide Tipped with "Locking Key" and Solid Bullet Raker Gauge
DESIGN:	Patented Fire Rescue Design...U.S. Patent No. 5,056,395
SIZE:	.404"Pitch x .063" Gauge with .068 "Drive Links (coined to .063") Heavy Duty Tie Straps, Tempered Rivets and .068" Hubs CERTIFICATION: Meets or exceeds ANSI and OSHA standards Certified according to ISO 9518 Standards as "Extremely Low Kickback"

## CUTTING CHAIN LUBRICATION SYSTEM

TYPE:	Fully automatic, adjustable
DRIVE SYSTEM:	Geared to Centrifugal Clutch
LUBRICANT:	Cutters Edge "High Tack" Bar & Chain Oil or High Quality Bar & Chain Oil
OIL TANK CAPACITY:	14.24 fl.oz. (0.42 liters)

## HANDLES

TYPE:	Front/Top...Full Wrap (For ease of use with gloves, from either side of saw) Rubber coated for sure grip Rear...Flared base for hand guard. Full isolation anti-vibration
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## VIBRATION LEVELS

*FRONT HANDLE m/s <sup>2</sup> :	Idling 3.4 Racing 2.2
*REAR HANDLE m/s <sup>2</sup> :	Idling 1.8 Racing 3.8 (*see Note 2)

## SILENCING

MUFFLER:	Oversize, top ported, low restriction with fire screen
**NOISE LEVEL:	104dB(A) at maximum output (*see Note1)

## GUARD/DEFLECTOR

TYPE:	Aluminum front mount to cover muffler and control air-flow for delivery of cleaner, cooler air to cylinder heat exchangers...(Keeps engine running cooler and reduces maintenance)
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## CHAIN BRAKE

TYPE:	Inertia Activated
STYLE:	Free-Swinging Pendulum
BRAKING TIME:	<0.20 second

## GUARD/DEPTH GAUGE (Optional)

FUNCTION:	(No tools needed for installation, adjustments or removal) Covers all the cutting chain, allows saw operator to set depth of cut to avoid cutting structural members
MATERIAL:	Anodized aluminum
TYPE:	D6 for 16" saw... D8 for 20" saw... 3 point mount, positive lock with depth of cut scale
DEPTH OF CUT:	D6 = 6" D8 = 8"

## WEIGHTS

POWERHEAD ONLY:	15.25 lbs (Dry Weight)
CE-2171RS-12":	18 lbs
CE-2171RS-16":	18.5 lbs
CE-2171RS-20":	19.3 lbs
CE-2171RS/D6:	20.6 lbs
CE-2171RS/D8:	21.65 lbs

## STANDARD ACCESSORIES

### ACCESSORIES INCLUDED WITH ALL FIRE RESCUE SAWS -

"Scrench" holder and "Scrench" tool, complete tool kit including grease gun and packet of grease, complete manuals, filter oil, Cutters Edge 2-cycle oil mix, Cutters Edge bar & chain oil, bar scabbard (saws without D6 & D8 only)

\*\*Note 1: Equivalent noise level is, according to ISO 7182 and ISO 9207, calculated as the time-weighted energy total for noise levels under various working conditions with the following time distribution: 1/3 idle, 1/3 full load, 1/3 full speed.

\*\*Note 2: Equivalent vibration level is, according to ISO 7505, calculated as the time-weighted energy total for vibration levels under various working conditions with the following time distribution: idle, full speed.

**Cutters Edge®**  
FIRE RESCUE SAWS

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