McCULLOCH

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world leader in chain saw sales
and professional chain saw features



McCULLOCH 790
DIRECT DRIVE

- ★ Automatic oiler with manual override controls lubrication for smooth cutting, long bar and chain life.
- ★ Takes bars up to 31″, Auto-Mac, Paddle Bow, Speed Tip, Roller Mac Bars.
- ★ Fast, powerful direct drive saw. High clutch engagement speed eliminates chain drag.
- ★ Starts fast, hot or cold. Fingertip primer, weather-proof points and coil assure fast starting all year long.
- ★ Heavy-duty speed and power in a 23 pound package.
- ★ McCulloch's new Auto-Mac or Super-Mac Chain — smoothest cutting, longest lasting chain on the market.
- ★ New McCulloch "Power Boost" diaphragm carburetor enables you to cut full power in any position.
- ★ Exclusive shock-absorber system. Plasticized grip on handlebar and rubber pistol grip.
- ★ Insulated gas tank keeps fuel 40° cooler to prevent boil-over and spilling.
- ★ Improved spark arrester reduces noise up to 50%.

★ See Your McCulloch Dealer for a 790 Demonstration.

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"SPECIFICATIONS — MODEL 790"

Weight of unit less Bar & Chain (lbs., dry)	23.5
Dimension (overall outside frame measurement)	Height 12" Length 17½" Width 11½"
Guide Bar Cutting Capacity	17, 19, 24, 31". Paddle Bow, Speed Tip Bars and Auto-Mac Bars.
Type Saw Chain	McCulloch Super-Mac, SL or Auto-Mac.
Type of Engine	Single cylinder, two cycle air-cooled, crankcase scavenged.
Type of Cylinder	Die cast aluminum alloy with precision honed CAST IRON LINER. Integral head.
Bore (inches)	2.217
Stroke (inches)	1.635
Displacement (cu. in.)	6.3
Compression Ratio	6.40:1
Direction of Rotation Facing Flywheel	Counter Clockwise.
Flywheel	High pressure aluminum alloy die casting with integral magneto magnets, steel hub.
Crankcase Material	High pressure die casting of aluminum. Cast integrally with a cylinder.
Crankshaft Material	Drop forged SAE 8620 steel carburized, hardened and ground.
Connecting Rod Material	Drop forged SAE 8620 steel, hardened, ground, manufactured by special process to insure perfect fit with no distortion to rod or cap.
Connecting Rod Length Center to Center (in.)	2.51
Connecting Rod Crankpin Bearings	24 needle rollers.
Connecting Rod Wrist Pin Bearings	Two needle bearings.
Main Bearings	2 Ball Bearings.
Piston	Permanent Mold Aluminum. (Oversize pistons available)
Number and Type Piston Rings	Two steel rings, chrome plated for extra service life.
Ignition	Specially designed McCulloch water-proof high tension magneto.
Coil Location	Outside flywheel. (Fan Cooled)
Air Vane Governor	Prevents no-load overspeed.
Coil to Flywheel Clearance (inches)	.008—.012
Ignition Timing B.T.C.	26° Static.
Location of Breaker Points	Under flywheel.
Breaker Point Gap (inches)	.019 - .020
Spark Plug Type	Champion J-8-J.
Spark Plug Gap (inches)	.025
Throttle Type	Butterfly.
Carburetor Type	Special McCulloch "power boost" type with primer enabling engine to operate efficiently in all cutting positions. Fully enclosed in filtered air chamber.
Fuel Filter	Felt; assures waterfree fuel delivery.
Fuel Tank Venting	2-way Check valve, pressure regulated system.
Air Filter Type	Extra capacity, flat flock screen with rubber edges.
Type Fuel Recommended	Automotive Regular Grade.
Fuel-Oil Mixture with McCulloch Oil	20:1
Fuel Tank Capacity (quarts)	1.4
Type Fuel Pump	Diaphragm.
Type Intake Valve	Tuned Reed and 3rd Port.
Type Cylinder Scavenging	Loop.
Clutch Engaging Speed R.P.M.	2,800
Gear Ratio	Direct Drive
Gear Case Lubricant and Capacity	None.
Sawdust Guard	Fixed Nylon Grille.
Starter	Automatic Rewind with nylon rope.
Clutch	Automatic four-metal shoe, centrifugally operated.
Chain Oiler	Automatic with manual override.
Chain Oiler Reservoir Capacity (qts.)	.45
Muffler	Improved fireproof spark arrester type.
Handle Frame	Full wrap around, shock mounted. Plasticized grip.
Safety Control Panel	Engine controls are grouped so that they can be actuated from the 'pistol grip' position while the saw is held firmly with both hands.

THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.