McCULLOCH

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*world leader in chain saw sales*
*and professional chain saw features*



## McCULLOCH 640 GEAR DRIVE

★ Automatic oiler with manual override controls lubrication for smooth cutting, long bar and chain life.

★ Most powerful of all the light gear-drive saws.

★ Starts fast — keeps cutting strong. Points and coil weather-proofed to assure fast starts all year long.

★ Torture-tested to prove dependability.

★ 3:1 or 2:1 gear ratio gives you fast cutting and mighty lugging power.

★ Takes bars up to 33″, Auto-Mac, Plunge Bow, Paddle Bow, and Speed Tip, Roller Mac Bars.

★ McCulloch carburetor, with fingertip primer enables you to cut in any position, even when saw is upside down.

★ Automatic rewind starter has easi-grip handle and rugged nylon cord.

★ Equipped with McCulloch Auto-Mac, Super-Mac or SL Chain for smoother cutting — longer chain life.

★ See Your McCulloch Dealer for a 640 Demonstration.

ADV. 704/64

# "SPECIFICATIONS — MODEL 640"

| | |
|---|---|
| Weight of unit less Bar & Chain (lbs., dry) | 25.5 |
| Dimension (overall outside frame measurement) | Height 13"<br>Length 20"<br>Width 10½" |
| Guide Bar Cutting Capacity (inches) | 16, 18, 20, 26, 32". Plunge Bow, Speed Tip, Roller Mac 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) | 2.125 |
| Stroke (inches) | 1.375 |
| Displacement (cu. in.) | 4.9 |
| Compression Ratio | 6.25:1 |
| 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 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 | Ball and needle. |
| Piston | Permanent Mold Aluminum. (Oversize pistons available) |
| Number and Type Piston Rings | 2 compression rings, top ring chromed, assuring quick sealing, low friction and long life. |
| Ignition | Specially designed McCulloch water-proof high tension magneto. |
| Coil Location | Outside flywheel. (Fan cooled) |
| Coil to Flywheel Clearance (inches) | .008—.012 |
| B.T.C. | 26° Static. |
| Location of Breaker Points and Condenser | 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 diaphragm type with primer enables engine to operate efficiently in all cutting positions. Fully enclosed in filtered air chamber. |
| Fuel Filter | Felt; assures water free fuel delivery |
| Fuel Tank Venting | 2-way valve, pressure regulated. |
| 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. |
| Type Cylinder Scavenging | Loop. |
| Clutch Engaging Speed R.P.M. | 2,600 |
| Gear Ratio | 3:1 or 2:1 |
| Gear Case Lubricant and Capacity (pints) | .21 |
| Sawdust Guard | Fixed Nylon Grille. |
| Starter | Automatic rewind with nylon rope. |
| Clutch | Automatic four-metal shoe, centrifugally operated. Lined. |
| Chain Oiler | Automatic with manual override. |
| Chain Oiler Reservoir Capacity (qts.) | .22 |
| Muffler | Quiet type spark arrester. |
| Handle Frame | Full wrap around aluminum handle. Plasticized grip on handle bar. Rubberized pistol grip. |
| Safety Control Panel | Grouped controls can be actuated from "pistol grip" position while saw is held firmly with both hands. |

THESE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.