



**The Homelite® 650  
Professional,  
another Great American  
Chain Saw.**



Lightweight  
Low noise  
Low vibration  
Powerful!



Introducing  
the Homelite 650  
Professional...  
The Great American  
Chain Saw... for  
The Great American  
West.

Designed and built specially for high production, big timber loggers. High performance, Low vibration and Low noise give the 650 a combination of high cutting efficiency with a minimum of operator fatigue. Check out the features and see why the 650 is the big saw to beat.

**New Power Head Design.** Homelite hemi-head 6.1 cubic inch engine with piston ported design gives you dependable high performance and real logging power... excellent idling and rugged cutting power. Thin tool-steel piston rings of the 650 reduce drag and wear on the cylinder. Homelite lightweight semi-skirted piston design reduces engine vibration. Needle and roller construction give you lasting horsepower. And the compression release and capacitor discharge ignition makes starting fast and easy because there's less chance of backfires.

**Rugged Vibration Isolation.** The Homelite 650 has one of the most effective vibration isolation systems found on any chain saw. Four fail safe constrained-motion-vibration-isolation mounts cushion the power head from the handles. Isolators that are as rugged as they are effective. You get less "tingle"... less fatigue... and more production. A low vibration level that still lets you "feel" the chain saw.

**Quiet Softone™ Muffler.** Our unique Softone™ dual-chamber muffler makes the Homelite 650 one of the quietest saws around. The muffler has two separate expansion chambers that cut the noise level down... without sacrificing cutting power. Horizontal cylinder design places the muffler at the back/side of the saw. So you don't breathe in what your chain saw breathes out.

**Big Sawdust Discharge Chute.** Keeps the sawdust out of the cut... and keeps you cutting fast.

**Wrap Around Handle Bar.** All position cutting and bucking. Thick rubber cushioning gives you comfort and control.

**Super CD Ignition.** You get extra high voltage from this CD ignition. There's no high tension lead... because we have a high voltage transformer coil that fits directly over the spark plug. This means there's less chance of ignition failure, more voltage, better fuel combustion, longer plug life. And for quick, easy starting there's an electronic circuit that automatically retards the spark. Super CD ignition... simple, rugged, reliable.

**Human Engineering.** The Homelite 650 was designed as much for the operator as it was for the tree. Large volume fuel and oil tanks means less time spent refueling. The smooth functional exterior of the 650 has recessed fasteners that eliminate cuts and bruises from sharp edges. The low profile makes for a better balance. The fuel tank location lets you fill in the normal upright position so there's less chance of spillage and fire. Full wrap around handle bar gives you all position cutting with both comfort and control. Felling sights on both sides of the saw so you can fell the big ones right on the line.

**HOMELITE® 650  
PROFESSIONAL**



**Unique Chain Tensioning.** Now you can adjust the chain tension... quick and easy... without scratching your knuckles. Because the Homelite 650 has an exclusive chain tensioning screw alongside the guide bar nuts.

**Fuel and Oil Caps.** Large filler caps let you get a solid grip even with gloves on. Both the fuel and oil caps have retainers so there's no chance of losing them.





## Specifications

# HOMELITE® 650 PROFESSIONAL

### ENGINE

**Type:** Homelite 2-cycle, single cylinder, air cooled, loop scavenged, made of light alloys. Hemi-Head cylinder and full flow ram intake porting give greater efficiency and more power. Precision, chrome plated cylinder and steel rings for longer life.

**Dry Weight:** 21.5 lbs. (9,8 kg.)

**Displacement:** 6.1 cu. in. (100 cc.)

**Bore:** 2.125 in. (54 mm.)

**Stroke:** 1.720 in. (43,7 mm.)

**Bearings:** Heavy duty roller and needle throughout.

**Starting:** Homelite automatic rewind starter, unit equipped with decompression valve and automatic spark retard for easy starting, simple to service. Starting speed throttle latch.

**Clutch:** Heavy Duty 6 shoe centrifugal.

**Muffler:** Softone large chamber with spark arrestor screen which meets PSMA and USFS standards. Simple to clean.

**Note: Homelite 650E automatic also available. Same as the 650 except it is equipped with a flush cut handle and 8 tooth rim sprocket.**

### IGNITION

**Magneto:** Special Homelite high voltage capacitor discharge. Weatherized components. Simple to service.

**Timing:** Never needs adjustment.

**Coil:** Special epoxy impregnated windings with extra high voltage output. Simple to replace.

**Spark Plug:** Champion DCJ-4G.

### CARBURETION AND FUEL

**Carburetor:** Diaphragm type, delivers full power in all positions at all speeds. Integral fuel pump and strainer, external adjustments.

**Intake Valve:** Piston ported design.

**Air Filter:** Polyester micro mesh, easily cleaned, re-usable.

**Fuel Capacity:** 42 oz. (1,24 L.) New no leak fuel cap with retainer.

**Fuel Pick-Up & Filter:** Flexible pick-up, replaceable filter.

**Fuel-Oil Mixture:** 32:1 or 16:1 depending on oil.

**Throttle Control:** Trigger in rear handle. Adjustable starting speed.

### CHAIN AND GUIDE BAR

**Guide Bars:** Homelite .063 in. gauge. Gas welded Perma-Hard Tip: Sizes 19 in., 23 in., 29 in. Replaceable sprocket nose: Sizes 31 in., 36 in., 43 in.

**Chain:** Homelite #40 series.

**Chain Speed:** 3,500 ft. per minute at 7,000 rpm.

**Sprocket:** Rim type, 7 Tooth. 404" pitch.

**Chain Oiling Systems:** Positive crankshaft driven automatic pump plus manual override. Dual pickup system.

**Chain Oil Capacity:** 19 oz. (0,56 L.)

### GENERAL

**Handle Bars:** Thick rubber covered full wrap-around type.

**Bumper Spike:** Standard equipment. (2)

### VIBRATION ISOLATION

Homelite Tri-Axial with captive mount shock absorbers. Greatly reduces the effect of engine and cutting vibration to the operator making the saw much more comfortable to use and causing less fatigue to the operator.

Specifications Subject to Change without Notice

**HOMELITE®**

A **textron** DIVISION