

# SERIES 412 LONG LIFE CAST IRON 6 HP

Model	Starter	PTO Shaft	Net Wt.
412-1004	Rope	Bronze Bearing	65 lbs.
412-1304	Rope	Roller Bearing	65 lbs.
412-1364	Rope	6 to 1 Speed Reducer	78 lbs.

#### **GENERAL SPECIFICATIONS**

Bore:  $2^{13}/_{16}$  inches. Stroke:  $2^{1/}_{2}$  inches.

Piston Displacement: 15.5 cubic inches.

Type: Single cylinder, L-Head, air-cooled,

4-cycle.

Air Cooling: Large capacity curved vane blower cast integral with flywheel. Air passes through deep fins to maintain correct operating temperature. Rotating blower screen.

Ignition: Very high voltage at low speed. Built-in flywheel magneto for faster starting. Moisture and dust proof with fully enclosed ignition points.

Spark Plug: 14 mm.

**Lubrication:** Splash type — oil capacity  $2\frac{1}{2}$  pints. Automotive type dipstick.

Carburetor: Full float feed with idle and high power mixture adjustment.

Fuel Tank: Five-quart capacity, with gasoline strainer and shut-off valve.

Air Cleaner: Oil bath type.

Governor: Adjustable mechanical type,

running in oil.

**Governor Control**: Adjustable, combined with choke. Provisions for mounting remote control cable.

Cylinder and Crankcase: Shell-molded alloy iron cylinder block and crankcase with large amount of cooling area for efficient operation.

Crankcase Breather: Maintains a vacuum in crankcase and prevents oil leaks.

**Cylinder Head:** Aluminum alloy, with extra deep cooling fins. Removable.

Main Bearings: Model 412-1000 has replaceable bronze bearings on power takeoff and on flywheel end. Models 412-1300 and 412-1360 have high load capacity tapered roller bearings on both power take-off and flywheel ends, with thrust as well as radial load ability. Adjustment provisions for wear.

**Crankshaft:** High strength ductile iron. Counterweights and cam drive gear integral with shaft.

Connecting Rod: I-Beam, aluminum alloy with extra large bearings.

**Piston:** Aluminum alloy, extended skirt for longer ring life. Treated surface.

**Piston Rings:** Two compression and one oil control. Treated surfaces.

Valves: Forged steel. Exhaust valve provided with heat-resistant alloy head.

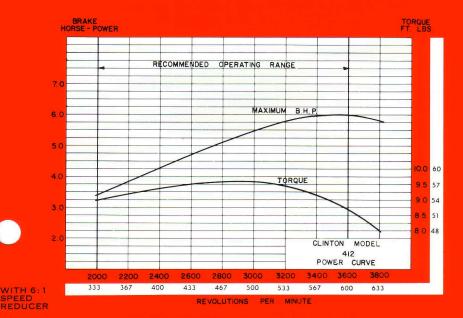
Valve Tappets: Hardened and ground.

Muffler: Efficient, low back-pressure type.

Direction of Rotation: Counterclockwise, viewed from power take-off side.

Gear Reduction: Model 412-1360 only has internal reduction gear, 6 to 1 ratio. Rotation counterclockwise.

**Finish:** Painted in red heat-resistant enamel. Prime coat finish if specified.

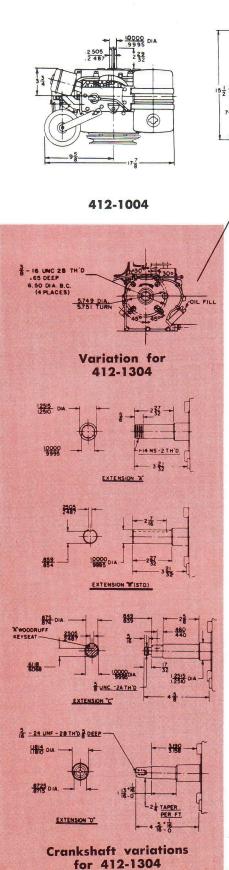


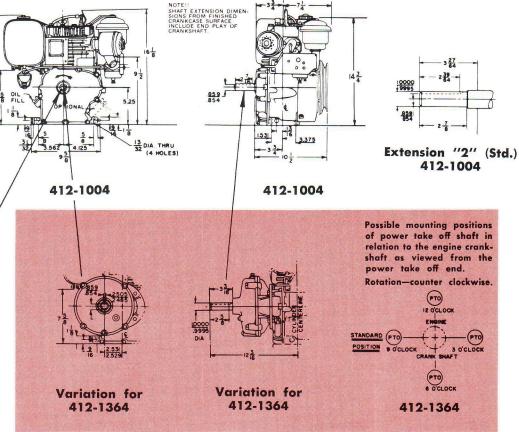


### Clinton Engines

412-1004 412-1304 412-1364

## **Dimensional Specifications**





## **CLINTON POWER DATA**

The performance and horsepower ratings shown herein are established in accordance with standard procedures and show the rated Brake Horsepower developed from laboratory test engines.

Unless otherwise specified, the engine speed at no load is set at 2900 RPM plus or minus 100 RPM and the engine idle speed at no load is set at 1200 RPM plus or minus 100 RPM. Complete details of installations requiring operation at other than recommended speeds should be referred to the factory for approval.

The ratings are corrected to Standard Conditions of sea level barometric pressure and 60° Fahrenheit ambient temperature. Engine power will decrease 3.5 per cent for each 1000 feet of elevation above sea level and 1.0 per cent for each 10° F. above 60° F. ambient temperature.

Allow at least 20% of horsepower for safety factor under continuous operation. Clinton Engines Corporation will supply detailed prints upon request. Specifications and Dimensions are subject to change without notice.



CLINTON ENGINES CORPORATION . MAQUOKETA, IOWA

Cable Address: Engines

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