

SERIES
410
ALUMINUM
4 HP

Model	Starter	PTO Shaft	Net Wt.
410-0105	E-Z Pull Recoil	Bronze Bearing	241/2 lbs.
410-0305	E-Z Pull Recoil	Ball Thrust Bearing	241/2 lbs.
410-0165	E-Z Pull Recoil	6 to 1 Speed Reducer	31 lbs.

GENERAL SPECIFICATIONS

Bore: 2½ inches. Stroke: 1% inches.

Piston Displacement: 9.2 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 1½ pints. Oil drainage permitted from either side of base.

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

Fuel Tank: Two-quart capacity with fuel shut-off valve.

Air Cleaner: High efficiency oiled non-spill $MICRO\text{-}SEAL^{\circledR}$ element.

Governor: Adjustable pneumatic type.

Governor Control: Shipped fixed speed. Provision for variable speed with use of remote control cable.

Cylinder and Crankcase: Die-cast aluminum alloy with large amount of cooling area. A close-grained iron cylinder sleeve is cast in block.

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

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

Main Bearings: Models 410-0105 and 410-0165 have replaceable bronze sleeve bearings at power take-off end. Model 410-0305 has ball thrust bearing on power take-off end. Bronze bearings on flywheel end, all models.

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. Clinton-engineered for efficient combustion.

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.

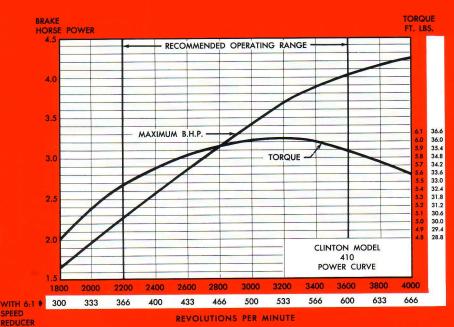
Valve Seats: Alloy inserts.

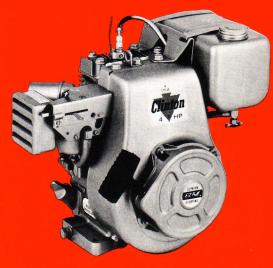
Muffler: Efficient, low back-pressure type.

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

Gear Reduction: Model 410-0165 only has internal reduction gear, 6 to 1 ratio. Rotation, counterclockwise.

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

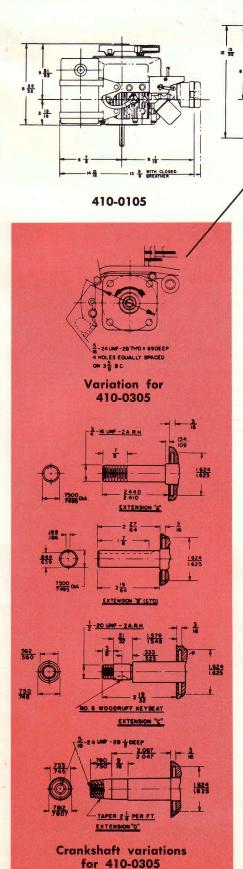


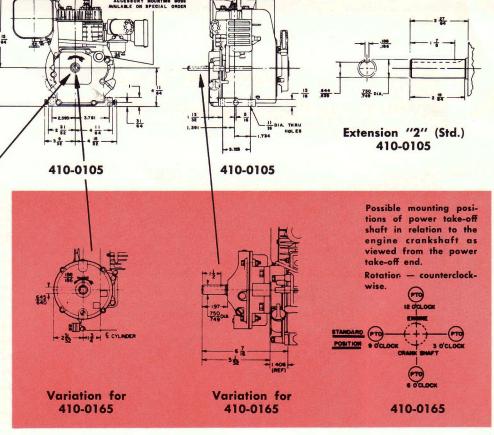


Clinton Engines

410-0105 410-0305 410-0165

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 3600 RPM plus or minus 200 RPM and the engine idle speed at no load is set at 1400 RPM plus or minus 200 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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