

SERIES 422 LONG LIFE CAST IRON 10.3 HP

Model	Starter	PTO Shaft	Net	Wt.
422-1301	Rope	Roller Thrust Bearing	103	lbs.
422-1361	Rope	6 to 1 Speed Reducer	116	lbs.

GENERAL SPECIFICATIONS

Bore: 3½ inches. Stroke: 3½ inches.

Piston Displacement: 25 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.

Ignition: Increased spark at starting speed. Breaker points, condenser, radio shielded stop switch and ground wire terminal mounted in box on outside of crankcase for easy servicing. Advanced design magneto elements using Alnico permanent magnets and waterproof molded coil. Spark advance mechanism assembled on cam gear automatically retards spark at starting speed and advances spark as engine speed increases.

Spark Plug: 14 mm.

Lubrication: Splash type — oil capacity 5 pints.

Carburetor: Concentric float type with idle and high power mixture adjustment.

Fuel Tank: Six quarts capacity, with visible gasoline strainer and shut-off valve.

Air Cleaner: Oil bath type.

Governor: Adjustable mechanical type, running in oil.

Governor Control: Fixed speed setting. Variable speed control optional.

Cylinder and Crankcase: Close-grained alloy iron cylinder block and crankcase with large amount of cooling area for efficient operation. Reversible oil base.

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

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

Main Bearings: High load capacity tapered roller bearings with thrust as well as radial load ability. Adjustment provision for wear.

Crankshaft: Ductile iron. Counterweights and cam drive gear integral with shaft.

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

Piston: Vanacil piston with lower coefficient of expansion reduces friction at higher speed and higher temperature.

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

Valves: Forged steel. Exhaust valve provided with Stellite alloy head.

Exhaust Valve Seat: Stellite insert, replaceable.

Valve Stem Guides: Replaceable, inlet and exhaust.

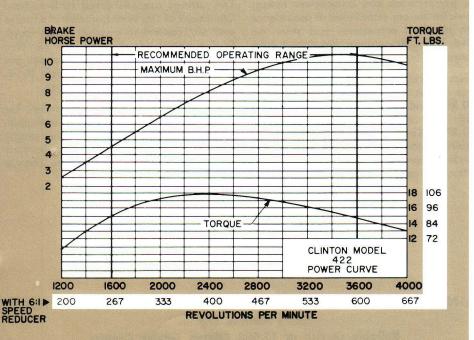
Valve Tappets: Hardened and ground.

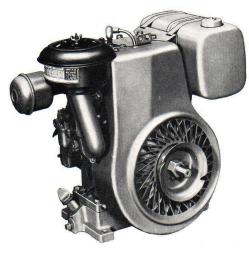
Muffler: Efficient, low back-pressure type.

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

Gear Reduction: Model 422-1360 only has internal reduction gear, 6 to 1 ratio. Rotation, counterclockwise.

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

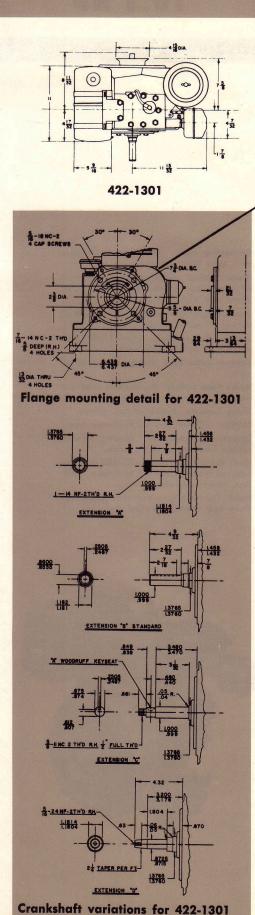


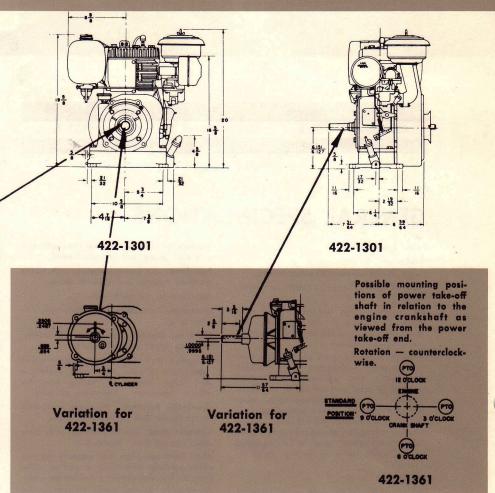


Clinton Engines 422-1301

422-1361

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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