

Displacement	22.97 cubic inches
Compression Ratio (Disregarding Ports)	6.1 to 1.0
Compression Pressure at 1000 rpm	110 to 115 psi
Cycle	2 stroke
Cooling Media	Air
Ignition	Magneto with Gear Driven Impulse Coupling
Spark Plug Size	18mm
Starting	Recoiled Cable (Rope)
Wight Complete (Including Carburetor, Fuel Tank, Starter, Magneto)	150 lbs. (Approx)
Brake Horsepower	5 @ 2400 rpm
Maximum Torque	14.5 ft. lbs. @ 1350 rpm
Cylinder Block:	
Bore	3"
Stroke	3 1/4"
Bore Sizes	2.9995 to 3.0005" (Stamped A) 3.0006 to 3.0015" (Stamped B) 3.0016 to 3.0025" (Stamped C)
Cylinder Head:	
Torque Wrench Pull	35 ft. lbs.
Crankshaft:	
Number of Bearings	2
Bearing Journal Diameter	1.3779" to 1.3784"
Oil Seal Journal Diameter	1.3745" to 1.3755"
Crank Pin Journal Diameter	1.3083" to 1.3088"
Distance from Bearing to Bearing	3.996" + .000 - .002

Runout when Assembled in Case	.010" to .025"
Torque Wrench Pull on Set Screws	50 ft. lbs.
Clearance Between Oil Seal and Bearing	1/4"
Connecting Rod:	
Center-to-Center Length	7.250"
Connecting Rod Bearing	25 Needle Bearings
Clearance	.020" Min between Rod & Thrust Washer; .010 Min. between Needles & Rod
Piston Pin:	
Diameter	.7530" to .7535"
Length	2.638" + .005
Piston Bearing	22 Needle Bearings
Piston Rings:	
Quantity	3
Type	Compression
Diameter (Compressed)	3.0005" + .0000 - .0005
Width	.1235" to .0240"
Gap	.010"
Diameter at Ring Lands	2 11/16"
Clearance in Piston	.0025
Piston:	
Overall Diameter 1/2" from Bottom	2.9925" to 2.9935" (Stamped A) 2.9936" to 2.9945" (Stamped B) 2.9946" to 2.9955" (Stamped C)
Width of Lands	.1260 to .1270
Clearance between Piston and Cylinder	.007" + - .001"
Engine Construction	

Main Bearing	High Radial Capacity, Single Row Ball-Bearing
Crankshaft	Split-Type with Removable Crank-Pin; Solid-Type with Removable Crank-Pin
Connecting Rod	One-Piece with Hardened Bores
Piston-Pin Bearings	Hardened Needle Rollers
Piston	Aluminum Alloy, Treated Surface
Piston Pin	Hardened Needle Rollers
Cylinder	Close-Grained Grey Iron
Cylinder Head	Grey Iron, Removable
Crankcase	Close-Grained Grey Iron

Thanks to Darin VanAusdal for this information originally posted on his e-rototiller site.