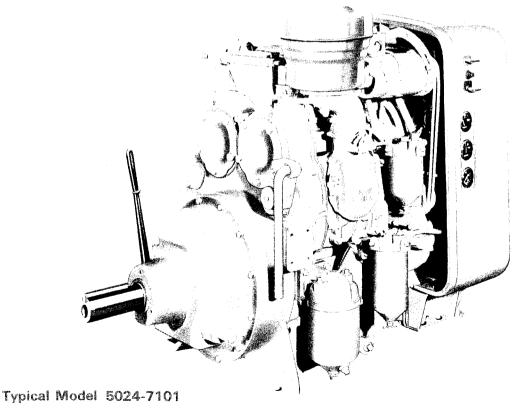
DETROIT DIESEL

POWER :: UNITS: ::

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A Power Product of General Motors



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SPECIFICATIONS	2-53 2 Valve	3-53 2 Valve	3-53 4 Valve
Model	5024-7101	5034-7101	5034-7201
Engine Type	Two Cycle	Two Cycle	Two Cycle
No. of Cylinders	2	3	3
Bore and Stroke	3% in. x 4½ in.	3% in. x 4½ in.	3% in. x 4½ in.
Two Cycle Displacement (Every Downstroke a Powerstroke) .	106 cu. in.	159 cu. in.	159 cu. in.
Maximum Brake Horsepower		_	97 at 2800 rpm
Rated Brake Horsepower	47 at 2000 rpm	78 at 2200 rpm	91 at 2500 rpm
Continuous Brake Horsepower	35 at 1800 rpm	64 at 2200 rpm	64 at 2200 rpm
Torque—1000 rpm	132 lb. ft.	208 lb. ft.	202 lb. ft.
Compression Ratio		17 to 1	17 to 1
Net Weight (Dry) with Standard Equipment	940 lbs.	1120 lbs.	1120 lbs.

STANDARD EQUIPMENT

Air Inlet Housing—Manual shutdown with 50" control cable

Air Cleaner-Direct mounted oil bath

Engine Mounts—Pedestal type, SAE #4

Exhaust Connections—Exhaust manifold and exhaust outlet flange

Fan-17"-6 blade, suction, Model 5024

22"-5 blade, suction, Models 5034

Flywheel—SAE #4 for 10" clutch

Flywheel Housing—SAE #4

Generator—12 volt, 25 amp

Governor-Variable speed with throttle controls Injectors—Cam operated, Unit type Instrument Panel

Oil Pan and Oil Distribution System-

Stamped oil pan for 27° inclination, Model 5024

Stamped oil pan for 10° inclination, Models 5034

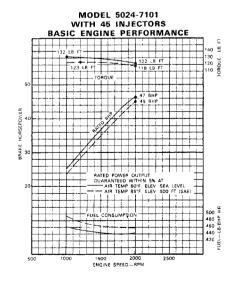
Power Take-Off-Single plate, 10" clutch

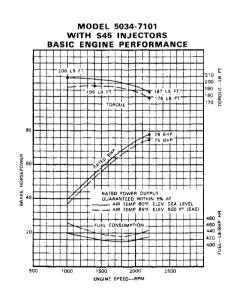
Radiator and Shell—Short hoods

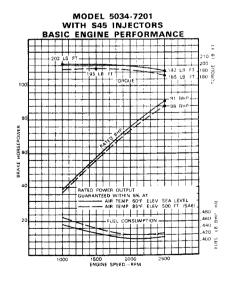
Starting Equipment—12 volt, Sprag clutch

OPTIONAL AND EXTRA EQUIPMENT AVAILABLE

PERFORMANCE







Rating Explanation

RATED BHP is the power rating for variable speed and load applications where full power is required intermittently. Performance may be derated to improve fuel economy and extend engine life.

CONTINUOUS BHP is the power rating for applications operating under a constant load and speed for long periods of time.

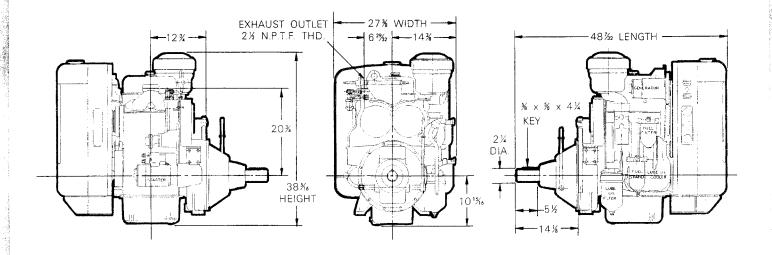
FUEL CONSUMPTION CURVE shows fuel used in pounds per brake horsepower

THESE RATINGS do not include power requirements for accessory and standard equipment.

For complete engine specifications for your particular application, see your authorized Detroit Diesel representative.

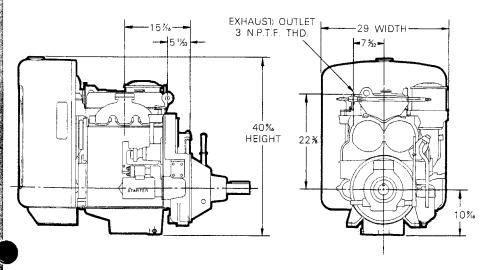
PRINCIPAL DIMENSIONS

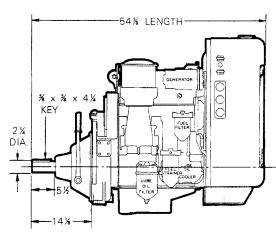
5024-7101



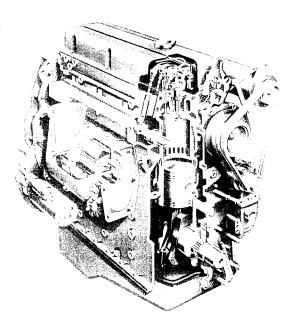
FOR COMPLETE DIMENSIONS REFER TO INST. DWG 2SA200

5034-7101,7201





DETROIT DIESEL FAMILY OF ENGINES ADVANTAGES



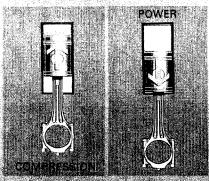
Rugged, precision construction

- Laminated metal compression gaskets and synthetic rubber water and oil seals provide a longer-lived, leakproof bond between the cylinder head and block. The resulting metalto-metal contact gives better heat transfer, preventing head cracking.
- Distortion-resistance is built into the cast iron cylinder head. Hardened valve seats are pressed into the head for proper valve seating and longer head and valve life.
- Long life, resistance to deflection and precise performance are accomplished by the drop-forged camshaft with hardened cams and journals.
- Easily replaceable, heat-treated cast iron cylinder liners provide a

hard, scuff-resistant wearing surface, lengthening intervals between overhauls.

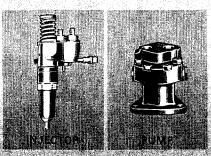
- The pistons are ribbed for cooling and strength and tin-plated for superior oil retention, giving longer life. Rings are of break-resistant, chrome-plated steel.
- Durability of connecting rods is provided by drop-forged steel construction. Rifle-drilled oil passages provide piston pin lubrication and spray cooling of the piston underhead.
- The crankshaft is a drop-forged, induction-hardened unit giving maximum strength and better wear. It is statically and dynamically balanced for smooth operation.

Two cycle design



Each cylinder performs the four functions of intake compression, power and exhaust in one crankshaft revolution, Every piston downstroke is a powerstroke. This design makes Detroit Diesels fightest in weight, smallest in size and fastest in acceleration of all diesels. Work is done faster, more economically.

Unit injector fuel system



The Unit Injector fuel system provides maximum fuel economy from fast, complete combustion and affords excellent serviceability because of its simple, efficient design. Camactuated Unit Injectors meter, pressurze, atomize and inject the fuel in one precise operation. A simple low-pressure transfer pump circulates fuel through the lines, filters and injectors.

Unmatched parts interchangeability

Only Detroit Diesel builds engines with maximum parts interchangeability (up to 70% within a Series). This means that parts are readily available, inventories can be held to a minimum, and parts cost less as a benefit of volume production.

World-Wide sales, parts and service

Detroit Diesels are sold, installed and serviced by a world-wide network of over 1400 distributors and dealers. They are experienced "engine people" who know and understand your problems and are equipped to give you complete service. You can count on dependable parts and reliable service if you own a Detroit Diesel engine.



DETROIT DIESEL ENGINE DIVISION

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