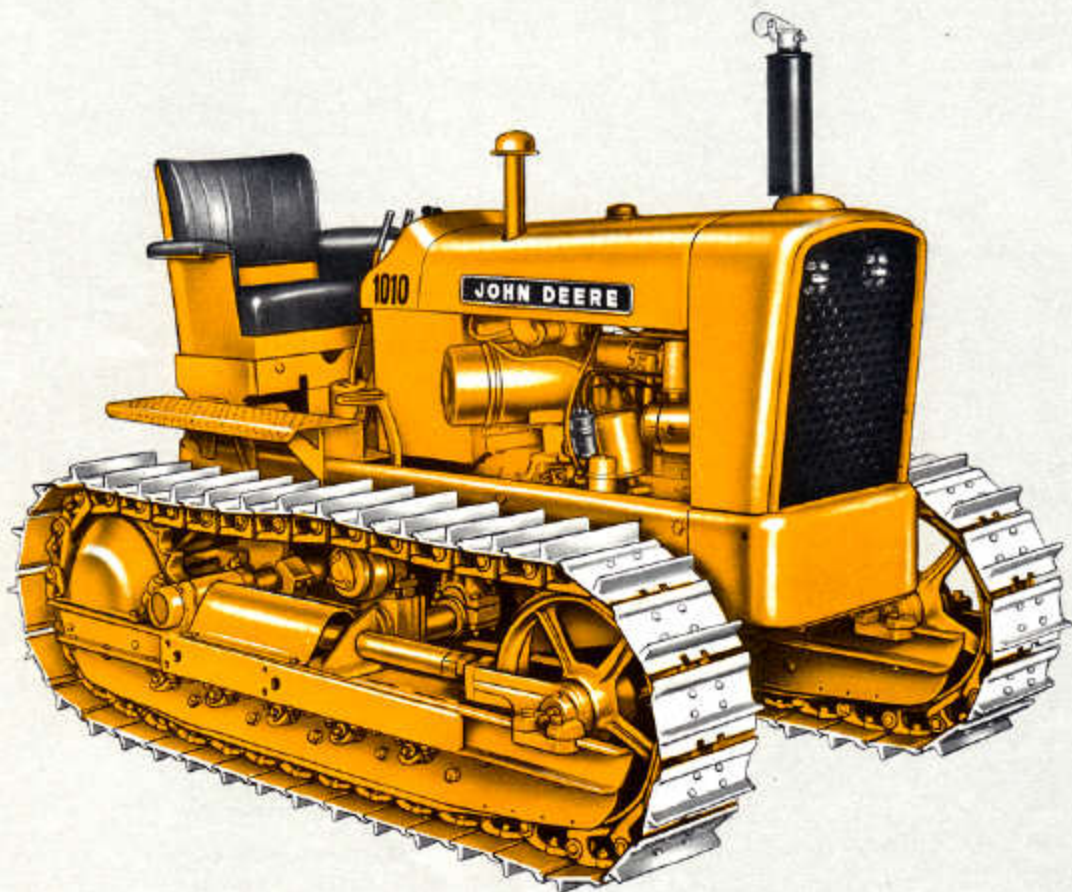


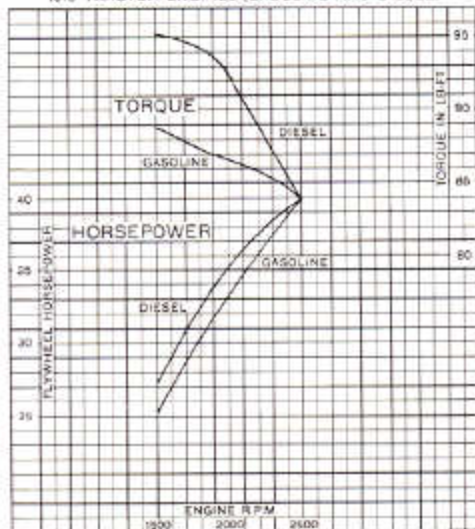


1010 CRAWLER TRACTOR



ENGINE PERFORMANCE

1010 TRACTOR ENGINES (GASOLINE AND DIESEL)



CURVES SHOWN ARE FOR A COMPLETE ENGINE DIRECT CONNECTED TO AN ELECTRIC DYNAMOMETER. DATA SHOWN ARE OBSERVED.

FEATURES

- Four-cylinder gasoline or Diesel John Deere-built engine
- Two-lever clutch-brake steering
- Hydraulically controlled direction reverser with oil clutches (optional)
- Choice of 4- or 5-roller track frames with wide selection of track shoes
- Extra strength at equipment mounting points

SPECIFICATIONS

(Specifications and design are subject to change without notice. Where applicable, specifications are in accordance with I.E.M.C. Standards.)

- Horsepower (at 2,500 rpm):
 - Observed net engine flywheel:
 - Gasoline..... 40
 - Diesel..... 40
- Drawbar pounds pull (observed):
 - Gasoline..... 7,179
 - Diesel..... 7,484
- Engine options:
 - 4-cycle, 4-cylinder gasoline
 - 4-cycle, 4-cylinder Diesel
- Operating range (rpm)..... 1,500-2,500
- Ground speeds..... 1.4 to 6.5 mph
- Turning radius... approx. 6-1/2 ft.

SPECIFICATIONS

(Specifications and design are subject to change without notice. Wherever applicable, specifications are in accordance with I.E.M.C. Standards.)

▲ HORSEPOWER (at 2,500 rpm):	GASOLINE	DIESEL
Observed net engine flywheel.....	40	40
Drawbar (observed).....	28.1	29.3

▲ TRAVEL SPEEDS (mph) at 2,500 engine rpm:

Shift Lever Position	
1st	1.4
2nd	1.9
3rd	3.3
4th	6.5
Rev.	1.9

DIRECTION REVERSER..... Provides each speed listed above in forward or reverse travel without shifting transmission gears. Hydraulically controlled. Oil clutches. Replaces engine clutch.

ENGINE: Variable speed, 4-cylinder, valve-in-head, 4-stroke cycle

	GASOLINE	DIESEL
Bore and stroke.....	3-1/2 x 3 in.	3-5/8 x 3-1/2 in.
Piston displacement.....	115 cu. in.	145 cu. in.
Compression ratio.....	7.9 to 1	19 to 1
Operating speed range.....	1,500-2,500 rpm	1,500-2,500 rpm
▲Maximum torque.....	89 lb. ft.	95 lb. ft.
▲Rpm at maximum torque.....	1,500	1,500
N.A.C.C. or A.M.A. horsepower rated for tax purpose.....	19.6	21.03
Lubrication.....	(Gas and Diesel engines) Pressure system with full flow filter.	
Crankshaft.....	(Gas and Diesel engines) Induction-hardened, counterbalanced	

▲Main and connecting rod bearings.....	Steel-backed, aluminum lined, removable	
Main bearings:		
Number.....	3	5
Diameter.....	3 in.	3 in.
Length (total).....	3.534 in.	5.846 in.
Cooling (gas and Diesel engines).....	Pressurized with water pump, thermostat, and fixed bypass.	
Governor.....	Enclosed flyball type	Flyball incorporated in injection pump
Carburetor.....	Conventional updraft	
Fuel injection pump.....	Opposed plunger, inlet metering, single cylinder, distributor type	
▲Air cleaner.....	Oil wash or dry type	
Electrical system.....	12-volt battery with generator and starter	12-volt battery with generator and starter
Starting.....	12-volt electric starting motor	12-volt electric starting motor

ENGINE CLUTCH..... Foot operated, 11-inch single disk. (Replaced by oil clutches when direction reverser is installed.)

TRANSMISSION..... Selective sliding gear, 4 forward speeds and 1 reverse.

STEERING..... Clutch-brake system.
Clutches..... Multiple disk. 16 friction surfaces per clutch.
Brakes..... Contracting band.
Turning radius..... Approx. 6-1/2 ft.
▲Turning clearance circle (5-roller)..... 160 in. dia.

FINAL DRIVE..... Anti-friction type bearings
Gear reduction ratio in first gear..... 112 to 1
Gear reduction ratio in high gear..... 24 to 1

▲ **HYDRAULIC SYSTEM**..... Special equipment: double, auxiliary remote.

POWER TAKEOFF..... Transmission driven, rear 540 rpm. (Stub shaft assembly extra.)

TRACK AND TRACK FRAME:

Track frame.....	4- or 5-roller.
Track shoes (types and sizes).....	Grouser 10-, 12-, or 14-inch. Open-center grouser, 12- or 14-in. All-purpose semi-grouser, 12-in. Snow shoes 12- or 14-in. Rubber, 10-in.

Track pins diameter.....	1 in.		
Track pin bushing diameter.....	1-9/16 in.		
Number of track shoes:	4-roller	4-roller with large idler	5-roller
Each side.....	32	33	36
Total ground contact area (sq. in.):			
10-in. shoes.....	1,178	1,155	1,385
12-in. shoes.....	1,413	1,386	1,662
14-in. shoes.....	1,649	1,617	1,935
▲Ground pressure, 12-in. shoes (lbs. per sq. in.).....	4.9	5.0	4.1
Length of track on ground (in.).....	58-7/8	57-3/4	69-1/4
Track gauge.....	48 in.		
Adjustment options.....	Manual adjustment or hydraulic tension adjuster.		

DIMENSIONS:

Height to top of hood.....	53-5/16 in.
▲Over-all height with mufflers:	
Gasoline.....	70-7/8 in.
Diesel.....	74-5/16 in.
Over-all width, minimum.....	61-1/8 in.
Over-all length of track:	
4-roller.....	95-3/8 in.
5-roller.....	98-1/2 in.
▲Clearance at drawbar.....	12-3/16 in.

▲ **WEIGHT** (with 5-roller track frame)..... **GASOLINE** **DIESEL**
Shipping (12-in. shoes)..... 6,894 lb. 6,999 lb.

CAPACITIES:

Cooling system.....	2-3/4 gal.
Fuel tank, gasoline and Diesel.....	12 gal.
Crankcase, including filter.....	6 qt.
Transmission.....	2-1/4 gal.
Hydraulic system.....	4 gal.
Final drive cases (each).....	1-1/2 pt.
Direction reverser case.....	3 gal.

STANDARD EQUIPMENT:

Clutch-brake steering system.	Exhaust muffler cover.
Heavy-duty front bottom plate.	Fuel filter.
Rock guards (5-roller only).	Oil pressure indicator light.
12-volt dry-charge battery.	Generator charge indicator light.
Electric starter.	Water temperature gauge.
Generator.	Tachometer.
Platform and fenders.	▲Antifreeze.
Key ignition switch.	

OPTIONAL EQUIPMENT:

Engine: Gasoline or Diesel.	
▲High-altitude pistons (gasoline)	
Track assembly: 4-roller, 4-roller with oversize front idler, or 5-roller	
Track shoes: Types and sizes listed above.	
Sprockets: Regular or notched snow type.	
Track tension adjusters: Mechanical or hydraulic (hydraulic for 5-roller only).	
Seat: Regular or deluxe.	
Battery: 56 or 90 amp. (90 amp. is standard for Diesel).	
Muffler: Upright or horizontal.	
Fan: Suction or blower.	
▲Air cleaner—wet or dry.	

SPECIAL EQUIPMENT:

Direction reverser.	Auxiliary battery box with 90 amp. battery (Diesel).
Double hydraulic systems with breakaway couplings.	Lighting equipment: Front, rear, panel; and warning light plug-in socket.
Remote hydraulic cylinder.	Cigarette lighter.
Universal 3-point hitch.	Electric hour meter.
Power takeoff stub shaft assembly.	Pre-cleaner.
Front hitch.	Belt pulley.
Swinging drawbar.	Seat arm cushions (for regular seat).
Timber hitch.	▲Fuel gauge.
Heavy-duty rear bottom plate.	▲Coolant heater (Diesel).
Sprocket shields (inner and outer).	▲Battery warmer.
Rock guards (4-roller).	▲Fuel primer starting aid (Diesel).
Heavy-duty rock guards.	
Calks for all-purpose semi-grouser shoes.	