

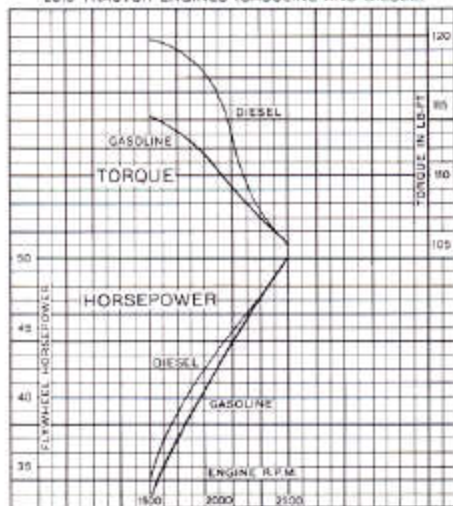


# 2010 WHEEL TRACTOR



## ENGINE PERFORMANCE

2010 TRACTOR ENGINES (GASOLINE AND DIESEL)



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

## FEATURES

**Compact, low-profile design affords maximum stability, excellent maneuverability**

**John Deere-built 4-cylinder Diesel or gasoline engine runs efficiently under light and heavy loads**

**Four-range powershift Hi-Lo-Reverse transmission (optional) provides on-the-go shifting within ranges, without clutching**

**Power steering (optional)**

**Available with standard or heavy-duty loader. Also accommodates center-mounted backhoe or five-position backhoe**

**Optional 3-point hitch provides integral hookup for landscaping and maintenance equipment**

## SPECIFICATIONS

*(Specifications and Design Subject to Change Without Notice)*

Horsepower (at 2,500 engine rpm):  
**Diesel Gas**

Observed net engine flywheel..... 50 50

Engine options:  
4-cycle, 4-cylinder Diesel  
4-cycle, 4-cylinder gasoline

Operating range (rpm) . 1500-2500

Transmission options:  
4-range, hydraulic Hi-Lo-Reverse  
4-range, constant-mesh

Ground speeds . . . 2.2 to 15.8 mph

Shipping weight, approx.:  
Diesel . . . . . 5105 lb.  
Gasoline . . . . . 5000 lb.

# SPECIFICATIONS

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

## HORSEPOWER (at 2500 engine rpm):

	Gasoline	Diesel
Observed net engine flywheel	50	50

## TRAVEL SPEEDS, mph (at 2500 engine rpm) with 14.9-28 rear tires, without slip):

Range	Low	High
Range 1	2.2	3.1
Reverse	3.0	
Range 2	3.8	5.4
Reverse	5.1	
Range 3	6.7	9.5
Reverse	9.0	
Range 4	11.1	15.8

## ENGINE: John Deere, vertical, 4-cylinder, valve-in-head, 4-stroke cycle

	Gasoline	Diesel
Bore and stroke	3-5/8 x 3-1/2	3-7/8 x 3-1/2
Piston displacement	145 cu. in.	165 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	114.3 lb. ft.	119.8 lb. ft.
Rpm at maximum torque	1500	1500
N.A.C.C. or A.M.A. horsepower rated for tax purpose	21.03	24.03
Lubrication	Pressure system with full-flow filter	Pressure system with full-flow filter
Crankshaft	Induction-hardened, counterbalanced	Induction-hardened, counterbalanced
Main and connecting-rod bearings	Steel-backed, aluminum lined, removable	Steel-backed, aluminum-lined, removable
Main bearings		
Number	3	5
Diameter	3.00 in.	3.00 in.
Length (total)	3.534 in.	5.846 in.
Cooling (gas and Diesel engines)	Pressurized with water pump, thermostat and fixed bypass	
▲Governor	Enclosed flyweight type	Integral with injection pump
Carburetor	Updraft type with load and idle adjustment	
Fuel injection pump		Opposed plunger, inlet metering; single cylinder distributor type
Air cleaner	Oil-wash type	Oil-wash type
Electrical system	12-volt, battery ignition with automatic spark advance; generator	12-volt with generator
Starting	12-volt electric starter	12-volt electric starter

## TRANSMISSION OPTIONS:

- Constant-Mesh: 4 speed ranges; with high and low speeds in each range, reverse in 3 ranges, shifted mechanically.
- H-L-R: 4 speed ranges; with high and low speeds in each range, reverse in 3 ranges, shifted hydraulically without clutching.

## ENGINE CLUTCH:

- Tractor with Constant-Mesh transmissions: 11-inch, spring-loaded, dry disk, pedal operated.
- Tractor with H-L-R transmission: 10-inch, spring-loaded, dry disk, hand-lever operated (disconnect for cold weather starting).

## FINAL DRIVES: Spur and bull gear type

Gear reduction ratio in first gear	164.3 to 1
Gear reduction ratio in high gear	22.7 to 1

**BRAKES:** Foot-operated individually or simultaneously. Self-energizing disk-type.

**STEERING:** Optional—manual or power

Turning radius (brakes applied)	Approx. 125 in.
Number of turns, far left to far right	3-1/4 turns
Curb clearance circle, dia.	
Brakes applied	258 in.
Without brakes	292 in.

**HYDRAULIC SYSTEM:** Single rockshaft, remote-cylinder control. (Special equipment)

**POWER TAKE-OFF:** Independent "Live," 540-1000 rpm. (Special equipment.) PTO clutch: spring-loaded, multiple dry disk, hand-lever operated.

## TIRES (Sizes and plies):

Front:	Rear:
6:00-16, 4-ply, multiple rib	12.4-28, 4-ply, bar-type
6:00-16, 6-ply, multiple rib	16.9-24, 6-ply, rotation
6:50-16, 8-ply, multiple rib	14.9-28, 8-ply, grader-type
7:50-16, 6-ply, multiple rib	16.9-28, 6-ply, grader-type
7:50-16, 10-ply, multiple rib	
▲9:00-16, 8-ply, multiple rib	

## WHEEL TREADS:

Front	54 in.
Rear	62 in. (12.4-28; 16.9-24; 14.9-28 tires) 63 in. (16.9-28 tires)

## DIMENSIONS: (with 14.9-28 rear tires; 6.00-16 front tires):

Height to top of hood	55-3/8 in.
Over-all height to top of muffler	74-3/4 in.
Over-all width (14.9-28 tires)	75-3/4 in.
Over-all length (without 3-point hitch)	123 in.
Wheelbase	82 in.
Ground clearance, front axle	16-5/8 in.
Ground clearance, min. (with drawbar)	12-3/16 in.

## WEIGHT

	Gasoline	Diesel
Shipping	5000 lb.	5105 lb.
Operating (No ballast)	5245 lb.	5350 lb.

## CAPACITIES:

Cooling system	3 gal.
Fuel tank; gasoline and Diesel	16 gal.
Engine lubrication, including filter	5 qt.
Transmission-Hydraulic system:	
Hi-Lo-Reverse	27 qt.
Constant-Mesh	32 qt.
Final drives, each	4 qt.

## STANDARD EQUIPMENT

Oil-pressure indicator light	Glow-plugs (Diesel)
Generator charge indicator light	Air cleaner
Water temperature gauge	Fenders
Key switch with safety start	Exhaust muffler cover
Electric starter	Antifreeze

## OPTIONAL EQUIPMENT:

Engine: Gasoline or Diesel
Steering: Manual or power
Tires: Sizes, plies, and types as listed
Muffler: Vertical or underneath
Seat: Regular or deluxe

## SPECIAL EQUIPMENT:

Universal 3-point hitch with adjustable or non-adjustable load links	Foot throttle
Single hydraulic system	Auxiliary battery with case (Diesel)
Single remote-cylinder control	Lights
Swinging drawbar	Electrical outlet socket
540-1000 rpm power take-off	Cigarette lighter
Belt pulley	Pre-cleaner
Fuel gauge	Rear-wheel weights
Electric hour meter	Tool box
Fuel primer starting aid (Diesel)	▲Front-axle counterweight