

# New Holland TD Tractor Specifications



**TD80D TD5050 TD5050 High-Clearance**

MODEL	TD80D	TD5050
<b>ENGINE</b>		
Type	4-cycle, diesel, naturally aspirated	4-cycle, diesel, turbo-charged
Number of cylinders	4	4
Displacement, cu. in. (L)	238 (3.9)	274 (4.5)
Gross engine horsepower, hp (kW)	72 (53)	93 (69.4)
PTO horsepower, hp (kW)	62 (46.2)	80 (59.7)
Rated speed, RPM	2500	2500
Maximum torque	206 ft.-lbs. @ 1500 RPM	288 ft.-lbs. @ 1300 RPM
Torque rise	28%	44%
Fuel type	B20 Biodiesel (meeting ASTM 6751 standards) and/or standard diesel fuels	
Air filter	Dual element, dry type with cleanable outer element and replaceable inner safety element	
Lubrication	Full flow, pressure lubrication with vertical mount spin-on filter cartridge	
Oil & filter change interval	300 hours	
Starting aid	Thermostart	
Throttle	Hand and/or foot controlled	
Exhaust	Under hood muffler w/ vertical exhaust pipe, optional under-slung horizontal exhaust	
Emissionization standard	Tier-II	Tier-III
Fuel tank capacity, gal. (L)	23.8 (90.1)	

## TRANSMISSION

Base on standard tractor	12Fx12R with synchronized mechanical shuttle (4 synchronized speeds in 3 constant mesh ranges, dedicated left hand shuttle)	
Optional transmission	20Fx12R creeper with synchronized mechanical shuttle (4 synchronized speeds in 3 non-synchronized ranges, creeper operates in lower 2 ranges)	
Traction clutch, in. (mm)	Dry 11 (279.4) diameter heavy duty	Dry 12 (304.8) diameter heavy duty organic plate cerametallic plate
Ground speed*, mph (kph)	Base transmission: Forward - 1.05 to 17.3 (1.69 to 27.8), Reverse - 1.02 to 16.9 (1.64 to 27.2) Optional creeper transmission: Additional 8 forward speeds between 0.2 - 1.9 (.322 - 3.06)	
Rear axle, in. (cm)	59 - 79 (150 - 201) track adjustment	
Rear differential lock	Mechanical foot pedal engagement	
Service brakes	Hydraulically assisted wet disc, self-adjusting and equalizing	
Parking brake	Hand-lever engagement, locks service brakes	

## HYDRAULICS

System type	Open center, fixed displacement gear pump	
System pressure, psi (bar)	2,755 (190)	
Implement pump capacity, gpm (l/m)	13.6 (51.5)	17.2 (65.1)
Steering & services system, gpm (l/m)	Hydrostatic power steering w/dedicated gear pump - 8.1 (30.1)	9.2 (34.8)
Total maximum tractor flow, gpm (l/m)	21.7 (82.1)	26.4 (99.9)
Remote valves - standard	1 open center, rear mounted, color coded lever controls with quick coupler dust covers	
Remote valves - optional	Up to 3 open center, rear mounted, color coded lever controls with quick coupler dust covers 2 valve open center loader control valve, joystick controlled (needed for loader operations)	

## 3-POINT HITCH

Rear	Standard	
Category	II	
Position control / draft sensing	Two levers w/ ability to blend draft and position control / mechanical, lower link sensing w/ hydraulic position control	
Lower link ends	Flexible	
Stabilizers	Telescopic	
ASAE lift capacity @ 24 in., lbs. (kg)	5,025 (2280)	
Fast raise / lower control	Standard equipment, mechanical push button with finger-tip operation	
Upper limit regulation	Standard equipment, adjustable mechanical stop limit on hitch upper lift arm	

# New Holland TD Tractor Specifications



TD80D TD5050 TD5050 High-Clearance

MODEL	TD80D	TD5050
<b>PTO</b>		
Rear	Standard, w/ flip-up PTO shaft guard	
Clutch type	Independent, dry, organic plate	
Clutch diameter, in. (mm)	11 (279.4) 12 (304.8)	
Engagement	Single lever, mechanical engagement	
Speed, RPM	540	540 (540/1000 optional)

**FRONT AXLE**

2WD, track adjustment, in. (cm)	Heavy duty, adjustable, 55 - 75 (139.7 - 190.5)	
Maximum turn angle, degrees	55	
FWD, track adjustment, in. (cm)	Center differential with planetary final drives in wheel hubs, 61 - 78 (154.9 - 198.1)	
Maximum wheel turn angle, degrees (FWD)	50	
Front differential lock	Limited slip	
FWD clutch engagement	Mechanical lever engagement	

**ELECTRICAL**

Alternator	12 volt, 65 amp	
Battery capacity (cold cranking amps)	800	
Lighting	2 hi/lo beam headlights, 1 rear worklight, brake lights, flashing safety lights/turn signals (cab has 2 additional front worklights and 1 additional rear worklight)	
Accessory power outlets	Standard equipment, 7-pin implement outlet, 4-pin (25 Amp) outlet, 1-pin (8 Amp) outlet	
Fuses	Automotive blade type	

**APPROXIMATE SHIPPING WEIGHT**

ROPS - 2WD / FWD, lb. (kg)	5,702 / 6,254 (2586 / 2837)	6,107 / 6,659 (2770 / 3021)
CAB - 2WD / FWD, lb. (kg)	6,363 / 6,915 (2886 / 3137)	6,768 / 7,320 (3070 / 3320)

**APPROXIMATE DIMENSIONS**

Height to Top of ROPS, in. (mm)	101.1 (2568)*	101.1 (2568)*
Height to Top of cab, in. (mm)	103.1 (2619)*	103.1 (2619)*

**WHEELBASE**

2WD, in. (mm)	91 (2311)	94 (2387)
FWD, in. (mm)	87 (2209)	92 (2336)

†Manufacturer's estimate \*measured with 16.9x30 rear tires

# New Holland TD Tractor Specifications

TD80D TD5050 TD5050 High-Clearance



<b>MODEL</b>	<b>TD5050 High-Clearance</b>
<b>ENGINE†</b>	
Type	4-cycle, diesel, turbocharged intercooled
Number of cylinders	4
Displacement, cu. in. (L)	274 (4.5)
Gross engine horsepower, hp (kW)	90 (67)
PTO horsepower, hp (kW)	80 (59.7)
Rated speed, RPM	2500
Maximum torque	346 ft.-lbs. @ 1500 RPM
Torque rise, %	44
Fuel type	100% Biodiesel approved (meeting ASTM 6751 standards, see your New Holland dealer for guidelines) and/or standard diesel fuels
Air filter	Dual element, dry type with cleanable outer element and replaceable inner safety element
Lubrication	Full flow, pressure lubrication with vertical mount spin-on filter cartridge
Oil & filter change interval, hours	300
Starting aid	Thermostat
Throttle	Hand and/or foot controlled
Exhaust	Under hood muffler w/ vertical exhaust pipe, optional under-slung horizontal exhaust
Emissionization standard	US EPA Tier III
Fuel tank capacity, gallons (L)	31 (118)
<b>TRANSMISSION</b>	
Standard transmission	20F <sub>x</sub> 12R creeper with synchronized mechanical shuttle (4 synchronized gears and 3 ranges, creeper operates in lower 2 ranges)
Traction clutch	Dry 12 inch diameter heavy duty cerametallic plate
Ground speed*, mph	Forward: 0.15-17.5 Reverse: 1.01-16.8 Two creeper ranges provide minimum groundspeed of 13.1 ft./min. (400 cm/min.) at 2,500 engine RPM
Rear differential lock	Mechanical foot pedal engagement
Service brakes	Individual hydraulic wet disc, self-adjusting and equalizing
Parking brake	Hand-lever engagement, locks service brakes
<b>HYDRAULICS</b>	
System type	Open center, fixed displacement gear pump
System pressure, psi	2,755
Implement pump capacity, gpm (L/min)	16.1 (61)
Steering & services system	Hydrostatic power steering w/dedicated gear pump - 7 gpm (26.5 L/min)
Total maximum tractor flow, gpm (L/min)	23.1 (87.5)
Remote valves - standard	1 open center, rear mounted, color coded lever controls with quick coupler dust covers
Remote valves - optional	Up to 3 open center, rear mounted, color coded lever controls with quick coupler dust covers

<b>MODEL</b>	<b>TD5050 High-Clearance</b>
<b>3-POINT HITCH</b>	
<b>REAR</b>	Standard
Category	II
Position control / draft sensing	Two levers w/ ability to blend draft and position control / mechanical, lower link sensing w/ hydraulic position control
Lower link ends	Flexible
Stabilizers	Telescopic
ASAE lift capacity @ 24 in., lbs. (kg)	5,025 (2279)
Fast raise / lower control	Standard Lift-O-Matic, mechanical push button with finger-tip operation
Upper limit regulation	Standard equipment, adjustable mechanical stop limit on hitch upper lift arm
<b>PTO</b>	
<b>REAR</b>	Standard, w/ flip-up PTO shaft guard
Clutch type	Independent, dry, organic plate
Clutch diameter, in. (mm)	12 (305)
Engagement	Single lever, mechanical engagement
Speed	540 RPM (540/1000 optional)
<b>ELECTRICAL</b>	
Alternator	12 volt, 120 amp
Battery capacity (cold cranking amps)	800
Lighting	2 hi/lo beam headlights, 1 rear worklight, brake lights, flashing safety lights/turn signals
Accessory power outlets	Standard equipment, 7-pin implement outlet, 4-pin (25 Amp) outlet, 1-pin (8 Amp) outlet
Fuses	Automotive blade type
<b>APPROXIMATE SHIPPING WEIGHT</b>	
ROPS - 2WD / FWD, lbs. (kg)	7,888 / 8,818 (3578 / 4000)
<b>APPROXIMATE DIMENSIONS</b>	
Height to top of ROPS, in. (mm)	115.7 (2940)*
<b>WHEELBASE</b>	
2WD, in. (mm)	89.7 (2278) – narrow axle
FWD, in. (mm)	87.5 (2222) – narrow axle
2WD, in. (mm)	85.3 (2168) – wide axle
FWD, in. (mm)	83.1 (2112) – wide axle
<b>TRACK WIDTH</b>	
Rear without spacers, in. (mm)	Minimum 59.2 (1504) Maximum 79.6 (2021)
Rear with spacers, in. (mm)	72.2 (1834) 83.8 (2130)
Front 2WD, in. (mm)	61.6 (1566) 77.4 (1966)
Front 4WD, in. (mm)	61.7 (1569) 81.9 (2082)
†Manufacturer's estimate	
*measured with 320/80R42 tires	

Visit our Web site at [www.newholland.com/na](http://www.newholland.com/na). Or, call toll-free **866-NEW-HLND (866-639-4563)**.

Design, materials and/or specifications are subject to change without notice and without liability therefor. Specifications are applicable to units sold in Canada, the United States, its territories and possessions, and may vary outside these areas.



Safety begins with a thorough understanding of the equipment. Always make sure you and your operators read the Operator's Manual before using the equipment. Pay close attention to all safety and operating decals and never operate machinery without all shields, protective devices and structures in place.