

**MANUFACTURER
MODEL**

**John Deere
110 TLB**

Tractor Unit

Engine	---
Type	Diesel, Direct Injection
Manufacturer/Model	Yanmar/TNV88
Gross Eng. HP (kW) @ Rated Speed	43.0 (32.1) per ISO 97/68/EC
Net Eng. HP (kW) @ Rated Speed	41.0 (30.6) per SAE
PTO Output HP (kW) @ Engine Speed	33.0 (24.6) per SAE
Hydraulic HP (kW)	30.9 (23.1)
Cylinders	4 Cylinders
Total Displacement, cu. in. (l)	133.6 (2.2)
Fuel consumption, 75% load, gal./hr.	2.0 (7.5)
Restart	Auto-bleed
Cold Start Assist	Glow plugs
Rated Speed, rpm	2600
Electrical	---
Volts/Alternator	12V/55 amp standard
Battery CCA	770
Alternator Amperes	55 standard
Starter Size, HP (kW)	2.7 (2.0)
Hydraulics	---
Type	Open Center
Number of Pumps	3
Total Flow, gpm (l/m)	23.6 (89.2)
System Pressure, psi (kPa)	3000 (20,684)
Hydraulic Flow to Loader, gpm (l/m)	12.2 (46.1)
Hydraulic Flow to Backhoe, gpm (l/m)	16.3 (61.5)
Oil Cooler	Steel, Thick Core, 190 sq. in. (123,024 sq. mm)
Capacities	---
Fuel Tank, gal. (l)	15.3 (58)
Crankcase with Filter, gal. (l)	1.25 (4.9)
Cooling System, gal. (l)	2.5 (9.3)
Transmission and Hydraulic System, gal. (l)	15.0 (57)
Transmission Case and Filter, gal. (l)	9.7 (37)
Transmission and Hydraulic Oil	HyGard J20C or HyGard J20D Cold Service
Front Axle Gearcase (MFWD axle), gal. (l)	1.3 (4.9)
Drivetrain	---
Transmission Type	---
Transmission Controller	---
Transmission Ranges/Speeds	---
Clutch; Wet/Dry	---
Creeper	---
Creeper Location	---
Range Speeds	---
Maximum Traveling Speed, mph (k/h)	---
Steering	---
Type	Hydrostatic Power
Turn Angle	58 Degrees
Turns Lock-to-Lock	---
Powertrain	---
Front Axle	---
MFWD Engagement	---
Front Axle Oscillation	---
Front Differential	---
Final Drives	---
Brakes	---
Type	Wet Disk, Inboard
Actuation	Mechanical
Parking Brake	Automotive Style Lever
Turning Brakes	Individual

Rear Power Take Off	---
Type	Fully Independent
Speed, rpm	540 @ 2,600 Engine RPM
PTO Engagement	Solenoid Operated Clutch
PTO Clutch	Wet, Multi-Disk
PTO Brake	Wet, Multi-Disk
Tires	---
Front	10x16.5, 8 PR
Rear	17.5Lx24, 8 PR
Tread Pattern	Industrial (R4) Standard; Turf (R3) Optional
Rear Hitch	---
3-Point Hitch	Category I Standard; Field Installed Optional
Control Type	Position only
Lift Capacity @ link ends, lb. (kg)	---
Lift Capacity @ 24-in. behind lift point, lb. (kg)	2500 (1134)
Drawbar Hitch	Field Installed Optional
Operator Station	---
Steering	Non-Tilt
Direction Control	Dual Foot Pedal
Instrumentation	Right Side Console
Seat Conversion	Roll Over
Canopy	Curved Polyethylene
Rollover Protective Structure	4-Post, SAE J1040 to 9000 lb.
Falling Object Protective Structure	Canopy Sheet, ISO 3449 Level 1
Standard Lighting	2 55 Watt Canopy Mounted
Warning Lights	Canopy Mounted
Stop/Brake Lights	Rear, Canopy Mounted
Transmission Presence Safety System	Yes
PTO Presence Safety System	Yes
Backhoe Presence System	Yes
Loader Unit	
Model	John Deere
Design	---
Type	Closed Box Construction Style Lift Arms
SCV Control	Single Lever Tractor Mount
Boom Control Valve System	Series Type
Masts	Ductile Cast Iron, Z-Form Webbing
Boom Bushings	Replaceable
Pin Service	End-Of-Pin Greasing
Bucket Anti-Roll-Back Device	Mechanical
Auxiliary Front Hydraulics	Optional Factory Installed
Bucket Quik-Coupler	Standard
Bucket Mounting Plates	Skid Steer Loader
Bucket Mounting Plate Area, sq. in. (m2)	270 (174,193)
Standard Bucket Width, in. (mm)	72 (1829)
Anti-Rollback Devise	Mechanical
Dimensions	---
Lift Height to Pivot Pin, in. (mm)	114.8 (2917)
Reach at Max. Lift Height, in. (mm)	---
Max. Dump and Rollback Angle	---
Performance	---
Lift Cap. to Max Height/Pivot Pins, lb.(kg)	2727 (1237)
Lift Cap. to Max. Height, lb. (kg)	2042 (926)
Breakout Force @ Pivot Pins, lb./ft. (N)	---
Backhoe Unit	
Model	John Deere
Design	---
	Boxed Construction from

Construction	High Strength, Low Alloy Steel, Robotically Welded
Backhoe Controls	Two Lever, Direct Linkage
Boom Type	Curved, Fully Closed
Swing Frame	Cast Iron
Boom and Crowd Cylinder Mounting	In-Line, Pinned
Swing Cylinder Mounting	Cast in Trunions, Cast-Iron Mounting
Cylinder Rod Plating	Nickel Chrome
Cylinder Rod Harness	HRC58
Cylinder Rod End Attachment	Friction Welded
Stabilizer Feet	Cast Iron, Reversible
Aux. Hyd. Opt. (7th Function Valve)	Factory Installed
Bucket Linkage	John Deere Power Link with Guide Link
Swing Lock Mechanism	Lift Pin
Boom Lock Mechanism	Lever Actuated Hook, Rubber Cushioned
Stabilizer Angle Rearward	18 Degree
Bucket Couplers Available	Std. Pin on/Opt. Mech. Coupler
Bucket Sizes Available, in.	12, 16, 18, 20, 24, 30, 36
Dimensions	---
Max. Digging Depth, in. (mm)	121 (3073)
Digging Depth/2-ft. Flat Bot., in. (mm)	---
Truck Loading Height, in. (mm)	101 (2567)
Reach from Swing Pivot, in. (mm)	158.1 (4016)
Boom Swing Arc	180 Degree
Bucket Rotation Arc	190 Degree
Stabilizer Spread-Oper., in. (mm)	98 (2489)
Leveling Angle	13
Performance	---
Digging Force-Crowd, lb. (kN)	3764 (16.743)
Digging Force-Bucket, lb. (kN)	5723 (25.457)
Side Swing Force, lb./ft. (kN/m)	7,975 (10.8)
Boom Lift Capacity at Ground Level, lb. (kg)	1216 (552)
Dipperstick Lift Capacity at 8-ft. above ground, lb. (kg)	1499 (680)
Overall Dimensions	
Tractor Wheelbase, in. (mm)	71.5 (1815)
Transport Height-Backhoe Folded, in. (mm)	---
Transport Length-Backhoe Folded, in. (mm)	---
Transport Width-Incl. Front Bucket, in. (mm)	---
Curb Turning Radius w/o Brakes, in. (mm)	144 (3568)
Curb Turning Radius w/Brakes, in. (mm)	124 (3150)
Bucket Clearance Circle w/o Brakes, in. (mm)	---
Bucket Clearance Circle w/Brakes, in. (mm)	---
Operating Weight w/Backhoe, lb. (kg)	---
Operating Weight w/Loader and Box Blade, lb. (kg)	7280 (3302)

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