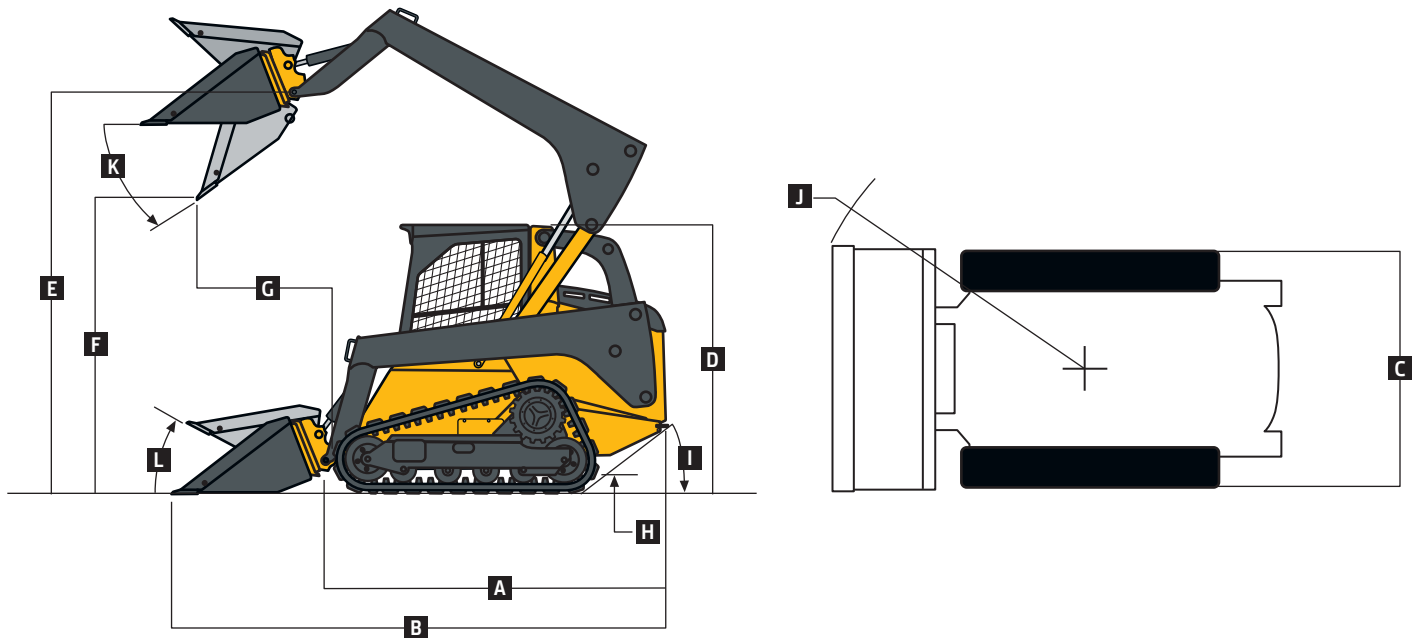


319D / 323D

Engine	319D	323D
Manufacturer and Model	John Deere PowerTech™ E 4024HT	John Deere PowerTech E 4024HT
Non-Road Emission Standards	Certified to Interim Tier 4 emissions	Certified to Interim Tier 4 emissions
Cylinders	4	4
Net Peak Power (ISO 9249)	58 hp (43.3 kW) at 2,300 rpm	63 hp (47.1 kW) at 2,300 rpm
Gross Peak Power (ISO 14396)	63 hp (47.0 kW) at 2,200 rpm	68 hp (50.8 kW) at 2,300 rpm
Displacement	149 cu. in. (2.4 L)	149 cu. in. (2.4 L)
Net Torque Rise	31% at 1,500 rpm	27% at 1,600 rpm
Aspiration	Turbocharged and intercooled	Turbocharged and intercooled
Air Cleaner	Dry dual element	Dry dual element
Cooling	319D / 323D	
Fan Drive	Variable-speed hydraulic drive	
Powertrain	319D	323D
Pump	Axial-piston hydrostatic	Axial-piston hydrostatic
Travel Speeds		
Single Speed	6.1 mph (9.8 km/h)	6.1 mph (9.8 km/h)
2 Speed, Optional		
Low	—	5.5 mph (8.9 km/h)
High	—	8.5 mph (13.7 km/h)
Brake	Integral, automatic, spring applied, hydraulically released wet-disc brake	
Undercarriage	New-generation smooth-ride long-life rubber with steel inserts	
Rubber Tracks	New-generation smooth-ride long-life rubber with steel inserts	
Track Width		
Standard	12.6 in. (320 mm)	12.6 in. (320 mm)
Optional	—	15.8 in. (400 mm)
Ground Pressure		
Standard 12.6-in. (320 mm) Track	5.4 psi (37.2 kPa)	5.4 psi (37.2 kPa)
Optional 15.8-in. (400 mm) Track	—	4.4 psi (30.6 kPa)
Track Rollers (per side)	4 triple-flange smooth-ride all-steel rollers	4 triple-flange smooth-ride all-steel rollers
Track Idlers (per side)	2 double-flange smooth-ride all-steel rollers	2 double-flange smooth-ride all-steel rollers
Bearings/Seals (rollers/idlers)	Heavy-duty journal bearings and metal face seals	Heavy-duty journal bearings and metal face seals
Tractive Effort	8,000 lbf (3629 kgf)	8,000 lbf (3629 kgf)
Hydraulics		
Pump Flow		
Standard	15.5 gpm (59 L/m)	20 gpm (76 L/m)
High-Flow Option Total	—	29 gpm (110 L/m)
System Pressure at Couplers	3,100 psi (21 374 kPa)	3,450 psi (23 787 kPa)
Hydraulic Horsepower (calculated)		
Standard Flow	30 hp (22.4 kW)	42 hp (31.3 kW)
High-Flow Option	—	62 hp (46.2 kW)
Cylinders	319D / 323D	
John Deere heat-treated, chrome-plated, polished cylinder rods, hardened steel (replaceable bushings) pivot pins		
Electrical		
Voltage	12 volt	
Battery Capacity	750 CCA (optional 925 CCA)	
Alternator Rating	70 amp	
Lights	Halogen, 2 front and 1 rear standard	
Operator's Station	ROPS (ISO 3471)/FOPS (ISO 3449) structure with quick-pivot standard	
Serviceability		
Refill Capacities		
Fuel Tank	19.0 gal. (70.0 L)	



Operating Weights	319D	323D
Track		
12.6-in. (320 mm) Standard	8,550 lb. (3882 kg)	8,550 lb. (3882 kg)
15.8-in. (400 mm) Optional	—	8,775 lb. (3984 kg)
Machine Dimensions		
A Length without Bucket	9 ft. 0 in. (2.74 m)	9 ft. 0 in. (2.74 m)
B Length	11 ft. 0 in. (3.36 m)	11 ft. 0 in. (3.36 m)
C Width without Bucket		
With 12.6-in. (320 mm) Track	6 ft. 0 in. (1.83 m)	6 ft. 0 in. (1.83 m)
With 15.7-in. (400 mm) Track	—	6 ft. 3 in. (1.91 m)
D Height to Top of ROPS	6 ft. 7 in. (2.00 m)	6 ft. 7 in. (2.00 m)
E Height to Hinge Pin	9 ft. 10 in. (3.00 m)	9 ft. 10 in. (3.00 m)
F Dump Height	7 ft. 11 in. (2.40 m)	7 ft. 11 in. (2.40 m)
G Dump Reach		
With Foundry Bucket	28.4 in. (721 mm)	28.4 in. (721 mm)
With Construction Bucket	3 ft. 0 in. (0.92 m)	3 ft. 0 in. (0.92 m)
H Ground Clearance	9.8 in. (250 mm)	9.8 in. (250 mm)
I Angle of Departure	25 deg.	25 deg.
J Front Turn Radius	6 ft. 7 in. (2.01 m)	6 ft. 7 in. (2.01 m)
K Dump Angle (full lift height)	42 deg.	42 deg.
L Bucket Rollback (ground level)	32 deg.	32 deg.



Loader Performance	319D	323D
Tipping Load	5,600 lb. (2540 kg)	7,175 lb. (3257 kg)
SAE Rated Operating Capacity with Foundry Bucket		
At 35% Tipping Load	1,900 lb. (863 kg)	2,500 lb. (1135 kg)
At 50% Tipping Load	2,800 lb. (1270 kg)	3,600 lb. (1634 kg)
Boom Breakout	3,500 lb. (1589 kg)	3,700 lb. (1680 kg)
Bucket Breakout Force	5,125 lb. (2327 kg)	5,600 lb. (2542 kg)