Specifications

Engine

315S J

- Manufacturer and Model: John Deere PowerTech™ E 4045HT054 turbocharged, standard
- Non-Road Emission Standards: EPA Tier 3/EU Stage IIIA
- Displacement: 4.5 L (276 cu. in.)
- Net Peak Power (ISO 9249): 69 kW (93 hp) @ 2,000 rpm
- Net Peak Torque (ISO 9249): 392 Nm (288 lb.-ft.) @ 1,300 rpm
- Net Torque Rise: 47%
- Lubrication: pressure system with spin-on filter and cooler
- Air Cleaner: dual-stage dry type with safety element and evacuator valve

Cooling

- Fan Type: suction
- Engine Coolant Rating: –37 deg. C (~34 deg. F)
- Engine Oil Cooler: oil to water

Powertrain

- Transmission: 4-speed, helical-cut gears, full PowerShift™ with hydraulic reverse standard; electric clutch cutoff on loader lever
- Torque Converter: single stage, dual phase with 2.63:1 stall ratio; 280 mm (11 in.)
- Maximum Travel Speeds (with 16.9-28 rear tires): Forward 6.1 km/h (3.8 mph), 11.2 km/h (7.0 mph), 22.9 km/h (14.2 mph), 38.1 km/h (23.7 mph); Reverse 7.7 km/h (4.8 mph), 14.1 km/h (8.8 mph), 22.5 km/h (14.0 mph), N/A

Axles

- Axle Oscillations, Stop to Stop (both axles): 22 deg.
- Axle Ratings:
  - Standard
    - Static: 18,000 kg (39,683 lb.), 7200 kg (15,873 lb.), 32,950 kg (72,642 lb.)
    - Dynamic: 12,000 kg (26,455 lb.), 6000 kg (13,228 lb.), 28,200 kg (62,170 lb.)
    - Ultimate: 13,000 kg (28,660 lb.), 7000 kg (15,432 lb.), 30,600 kg (67,461 lb.)
- Mechanical-front-wheel drive: 12,000 kg (26,455 lb.), 6000 kg (13,228 lb.), 28,200 kg (62,170 lb.)
- Rear: 13,000 kg (28,660 lb.), 7000 kg (15,432 lb.), 30,600 kg (67,461 lb.)
- Mechanical-front-wheel drive: 6000 kg (13,228 lb.), 7000 kg (15,432 lb.), 30,600 kg (67,461 lb.)

Differentials

- Mechanical-locking front and rear, electric, foot actuated
- Hydrostatic power and emergency steering
- Non-powered front: 3.44 m (11 ft. 4 in.), 3.94 m (12 ft. 11 in.), 9.89 m (32 ft. 5 in.)
- Mechanical-front-wheel drive: 3.58 m (11 ft. 9 in.), 4.08 m (13 ft. 5 in.), 10.11 m (33 ft. 2 in.)
- Without Brakes: 10.76 m (35 ft. 4 in.), 11.05 m (36 ft. 3 in.), 2.7

Final Drives

- Mechanical-Front Wheel: heavy-duty, outboard planetary final drives distribute shock loads over 3 gears
- Rear Axle: heavy-duty, outboard planetary final drives distribute shock loads over 4 gears

Brakes (conform to ISO 3450)

- Service: power assisted, hydraulic wet disc, mounted inboard, self-adjusting and self-equalizing
- Parking: spring-applied, hydraulically released, wet, multi disc, independent of service brakes with electric switch control
Hydraulics 315SJ

Main Pump: open center, gear type, tandem with unloader

Pump Flow @ 2,200 rpm
- Backhoe: 136 L/m (36 gpm)
- Loader: 106 L/m (28 gpm)

System Relief Pressure
- Backhoe: 24,993 kPa (3,625 psi)
- Loader: 24,993 kPa (3,625 psi)

Backhoe Controls: pilot controls with pattern select
Loader Controls: single-lever control with electric clutch cutoff switch standard; manual auxiliary function optional

Cylinders

<table>
<thead>
<tr>
<th>Type</th>
<th>Bore</th>
<th>Rod Diameter</th>
<th>Stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loader Boom (2)</td>
<td>80 mm (3.15 in.)</td>
<td>50 mm (1.97 in.)</td>
<td>790 mm (31.10 in.)</td>
</tr>
<tr>
<td>Loader Bucket (1)</td>
<td>90 mm (3.54 in.)</td>
<td>50 mm (1.97 in.)</td>
<td>744 mm (29.29 in.)</td>
</tr>
<tr>
<td>Backhoe Boom (1)</td>
<td>120 mm (4.72 in.)</td>
<td>56 mm (2.20 in.)</td>
<td>795 mm (31.30 in.)</td>
</tr>
<tr>
<td>Backhoe Crowd (1)</td>
<td>115 mm (4.53 in.)</td>
<td>63 mm (2.48 in.)</td>
<td>622 mm (24.47 in.)</td>
</tr>
<tr>
<td>Backhoe Bucket (1)</td>
<td>90 mm (3.54 in.)</td>
<td>56 mm (2.20 in.)</td>
<td>810 mm (31.89 in.)</td>
</tr>
<tr>
<td>Heavy-Duty Option (1)</td>
<td>100 mm (3.94 in.)</td>
<td>63 mm (2.48 in.)</td>
<td>810 mm (31.89 in.)</td>
</tr>
<tr>
<td>Backhoe Swing (2)</td>
<td>90 mm (3.54 in.)</td>
<td>50 mm (1.97 in.)</td>
<td>278 mm (10.94 in.)</td>
</tr>
<tr>
<td>Backhoe Extendable Dipperstick (1)</td>
<td>70 mm (2.76 in.)</td>
<td>40 mm (1.57 in.)</td>
<td>1067 mm (42.01 in.)</td>
</tr>
<tr>
<td>Backhoe Stabilizer, Standard (2)</td>
<td>70 mm (2.76 in.)</td>
<td>45 mm (1.77 in.)</td>
<td>716 mm (28.19 in.)</td>
</tr>
<tr>
<td>Non-Powered Axle (1)</td>
<td>70 mm (2.76 in.)</td>
<td>42 mm (1.65 in.)</td>
<td>213 mm (8.39 in.)</td>
</tr>
<tr>
<td>Mechanical-Front-Wheel Drive (1)</td>
<td>67 mm (2.64 in.)</td>
<td>42 mm (1.65 in.)</td>
<td>210 mm (8.27 in.)</td>
</tr>
</tbody>
</table>

Electrical

Voltage: 12 volt
Alternator Rating: 90 amp

Operator Station

Type (SAE J1040): cab, isolation mounted, ROPS/FOPS, left/right access, with molded roof

Tires/Wheels

<table>
<thead>
<tr>
<th>Type</th>
<th>Front</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Powered Front Axle</td>
<td>11L-16 SL F-3 (12)</td>
<td>16.9-28 R-4 (10)</td>
</tr>
<tr>
<td>Mechanical-Front-Wheel Drive</td>
<td>12.5/80-18 I-3 (10)</td>
<td>340/80R18 XMCL</td>
</tr>
<tr>
<td></td>
<td>19.5L-24 R-4 (10)</td>
<td>500/70R24 XMCL</td>
</tr>
<tr>
<td></td>
<td>19.5L-24 R-4 (10)</td>
<td>100 mm (3.94 in.)</td>
</tr>
<tr>
<td></td>
<td>16.9-28 R-4 (10)</td>
<td>16.9-28 R-4 (10)</td>
</tr>
</tbody>
</table>

Serviceability

Hydraulic Oil Filter, Spin-On Enclosed Replaceable Element, Vertically Mounted: 6-micron filtration / 1,000 service hours

Refill Capacities

<table>
<thead>
<tr>
<th>System</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling System</td>
<td>25 L (26 qt.)</td>
</tr>
<tr>
<td>Rear Axle</td>
<td>18 L (19 qt.)</td>
</tr>
<tr>
<td>Engine Oil (including vertical spin-on filter)</td>
<td>13 L (14 qt.)</td>
</tr>
<tr>
<td>Torque Converter and Transmission</td>
<td>16 L (16.9 qt.)</td>
</tr>
<tr>
<td>Fuel Tank (with ground-level fueling)</td>
<td>155 L (41 gal.)</td>
</tr>
<tr>
<td>Hydraulic System</td>
<td>91 L (24 gal.)</td>
</tr>
<tr>
<td>Hydraulic Reservoir</td>
<td>39 L (10.2 gal.)</td>
</tr>
<tr>
<td>Mechanical-Front-Wheel-Drive Housing</td>
<td>6.6 L (7 qt.)</td>
</tr>
<tr>
<td>Planetary (each)</td>
<td>1 L (1 qt.)</td>
</tr>
</tbody>
</table>

Operating Weights

Typical with Cab, Mechanical-Front-Wheel Drive, Extendable Dipperstick, and 567-kg (1,250 lb.) Counterweight: 8437 kg (18,600 lb.)

Optional Components

- Cab: 263 kg (580 lb.)
- Mechanical-Front-Wheel Drive with Tires: 220 kg (495 lb.)
- Extendable Dipperstick: 222 kg (490 lb.)
- Front Loader Coupler: 286 kg (630 lb.)
- Backhoe Bucket Coupler: 63 kg (138 lb.)
### Backhoe Dimensions / Performance 315SJ

Backhoe specifications are with 610-mm x 0.21-m³ (24 in. x 7.5 cu. ft.) bucket

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Description</th>
<th>Retracted</th>
<th>Extended</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong> Ground Clearance</td>
<td>Minimum</td>
<td>351 mm (14 in.)</td>
<td></td>
</tr>
<tr>
<td>B Overall Length (transport)</td>
<td>5.26 m (17 ft. 3 in.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C Stabilizer Spread</td>
<td>2.40 m (7 ft. 10 in.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D Height from Axle to Axle</td>
<td>Non-Powered Front Axle</td>
<td>2.11 m (6 ft. 11 in.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mechanical-Front-Wheel-Drive Axle</td>
<td>2.14 m (7 ft. 0 in.)</td>
<td></td>
</tr>
<tr>
<td><strong>F</strong> Loading Height</td>
<td>Truck loading position</td>
<td>3.58 m (11 ft. 9 in.)</td>
<td>4.34 m (14 ft. 3 in.)</td>
</tr>
<tr>
<td>G Reach from Center of Swing Pivot</td>
<td>5.61 m (18 ft. 5 in.)</td>
<td>6.63 m (21 ft. 9 in.)</td>
<td></td>
</tr>
<tr>
<td>H Reach from Center of Rear Axle</td>
<td>7.01 m (23 ft. 0 in.)</td>
<td>8.03 m (26 ft. 4 in.)</td>
<td></td>
</tr>
<tr>
<td>I Digging Depth (SAE maximum)</td>
<td>4.42 m (14 ft. 6 in.)</td>
<td>5.49 m (18 ft. 0 in.)</td>
<td></td>
</tr>
<tr>
<td>J Digging Depth (SAE)</td>
<td>610-mm (2 ft.) Flat Bottom</td>
<td>4.40 m (14 ft. 5 in.)</td>
<td>5.44 m (17 ft. 10 in.)</td>
</tr>
<tr>
<td></td>
<td>2440-mm (8 ft.) Flat Bottom</td>
<td>4.09 m (13 ft. 5 in.)</td>
<td>5.22 m (17 ft. 2 in.)</td>
</tr>
<tr>
<td>K Overall Width (less loader bucket)</td>
<td>2.49 m (8 ft. 2 in.)</td>
<td>2.49 m (8 ft. 2 in.)</td>
<td></td>
</tr>
<tr>
<td>L Side-Shift from Tractor Centerline</td>
<td>584 mm (23 in.)</td>
<td>584 mm (23 in.)</td>
<td></td>
</tr>
<tr>
<td>M Wall-to-Swing Centerline</td>
<td>620 mm (24.4 in.)</td>
<td>620 mm (24.4 in.)</td>
<td></td>
</tr>
<tr>
<td>N Bucket Rotation</td>
<td>190 deg.</td>
<td></td>
<td>190 deg.</td>
</tr>
<tr>
<td>O Transport Height</td>
<td>3.48 m (11 ft. 5 in.)</td>
<td></td>
<td>3.48 m (11 ft. 5 in.)</td>
</tr>
</tbody>
</table>
### Loader Dimensions / Performance 315SJ

<table>
<thead>
<tr>
<th>Description</th>
<th>Heavy-duty</th>
<th>Heavy-duty long lip</th>
<th>Heavy-duty</th>
<th>Multipurpose</th>
<th>Multipurpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket Dump Angle (maximum)</td>
<td>45 deg.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rollback Angle at Ground Level</td>
<td>40 deg.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bucket Capacity</td>
<td>0.77 m³</td>
<td>0.86 m³</td>
<td>0.96 m³</td>
<td>1.00 m³</td>
<td>0.96 m³</td>
</tr>
<tr>
<td>(1.00 cu. yd.)</td>
<td>(1.12 cu. yd.)</td>
<td>(1.25 cu. yd.)</td>
<td>(1.31 cu. yd.)</td>
<td>(1.25 cu. yd.)</td>
<td>(1.31 cu. yd.)</td>
</tr>
<tr>
<td>Width</td>
<td>2184 mm (86 in.)</td>
<td>2184 mm (86 in.)</td>
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<td>2373 mm (92 in.)</td>
<td>2184 mm (86 in.)</td>
</tr>
<tr>
<td>Weight</td>
<td>363 kg (800 lb.)</td>
<td>390 kg (860 lb.)</td>
<td>405 kg (892 lb.)</td>
<td>521 kg (1,148 lb.)</td>
<td>795 kg (1,750 lb.)</td>
</tr>
<tr>
<td>Breakout Force</td>
<td>49.6 kN (11,160 lb.)</td>
<td>49.2 kN (10,151 lb.)</td>
<td>45.4 kN (10,210 lb.)</td>
<td>45.8 kN (10,300 lb.)</td>
<td>43.1 kN (9,700 lb.)</td>
</tr>
<tr>
<td>Lift Capacity (full height)</td>
<td>3368 kg (7,419 lb.)</td>
<td>3332 kg (7,340 lb.)</td>
<td>3269 kg (7,200 lb.)</td>
<td>3042 kg (6,700 lb.)</td>
<td>2996 kg (6,600 lb.)</td>
</tr>
<tr>
<td>Height to Bucket Hinge Pin (maximum)</td>
<td>3.40 m (11 ft. 2 in.)</td>
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</tr>
<tr>
<td>Dump Clearance (bucket at 45 deg.)</td>
<td>2.69 m (8 ft. 10 in.)</td>
<td>2.69 m (8 ft. 10 in.)</td>
<td>2.64 m (8 ft. 8 in.)</td>
<td>2.62 m (8 ft. 7 in.)</td>
<td>2.62 m (8 ft. 7 in.)</td>
</tr>
<tr>
<td>Reach at Full Height (bucket at 45 deg.)</td>
<td>767 mm (30.7 in.)</td>
<td>911 mm (35.9 in.)</td>
<td>765 mm (30.1 in.)</td>
<td>818 mm (32.2 in.)</td>
<td>818 mm (32.2 in.)</td>
</tr>
<tr>
<td>Digging Depth Below Ground (bucket level)</td>
<td>175 mm (6.9 in.)</td>
<td>147 mm (5.8 in.)</td>
<td>206 mm (8.1 in.)</td>
<td>185 mm (7.3 in.)</td>
<td>185 mm (7.3 in.)</td>
</tr>
<tr>
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<td>349 kg (770 lb.)</td>
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</tr>
</tbody>
</table>

### Lift Capacity with Quick-Coupler / Forks

- **A**: Maximum Height: 2073 kg (4,570 lb.)
- **B**: Maximum Reach: 3162 kg (6,972 lb.)
- **C**: At Ground Line: 4145 kg (9,138 lb.)
- **D**: Below Ground Line: 211 mm (8.3 in.)

Lift capacities are over-end values in kg (lb.) according to SAE J31. Figures listed are 87% of the maximum lift force available. Base vehicle includes counterweight.

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For more detailed spec information and available options, log on to [www.JohnDeere.com](http://www.JohnDeere.com).
315SJ BACKHOE LOADER

**Key:** ● Standard equipment ▲ Optional equipment

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**315SJ Engine**
- Meets EPA Tier 3/EU Stage III A emissions
- John Deere Model 4045HT054 – 4.5 liter, 69 net peak kW (93 hp) turbocharged, isolation mounted
- Vertical spin-on engine oil filter
- Vertical spin-on fuel filter with water separator
- Oil-to-water engine oil cooler
- Antifreeze, −34 deg. F (~−37 deg. C)
- Coolant recovery tank
- Serpentine belt with automatic belt tensioner
- Suction-type cooling fan
- Enclosed safety fan guard
- High ambient temperature engine cooling
- Dual-element dry-type air cleaner
- Muffler, under hood with curved-end exhaust stack

**Powertrain**
- PowerShift™ transmission: Torque converter with electronically actuated twist grip F-N-R with neutral safety switch interlock (1st through 4th gears)
- Transmission oil cooler
- Vertical spin-on transmission filter
- Transmission remote oil-sampling port
- Differential lock, electrically actuated
- Planetary final drives
- Power-assisted hydraulic service brakes (conform to ISO 3450): Inboard, wet multi-disc, self-adjusting self-adjusting and self-equalizing
- Parking/emergency brake with electric switch control (conforms to ISO 3450): Spring applied, hydraulically released wet multi-disc / Independent of service brakes
- Hydrostatic power steering with emergency manual mode
- Non-powered front axle
- Mechanical-front-wheel-drive with traction control limited-slip differential: Electric on/off control / Sealed axle
- Rear wheel spacers for use with chains
- MPWD drive shaft guard

**Backhoe**
- Extendable dipperstick, 4.42-m (14 ft. 6 in.) digging depth
- Heavy-duty backhoe bucket cylinder option
- 2-lever pilot controls with pattern-selection feature
- Backhoe transport lock lever
- Swing lock pin stored in operator’s station
- Stabilizers with 2-direction anti-drift valves
- Less bucket, with bucket pins
- Standard-duty backhoe bucket with lift loops
- Heavy-duty backhoe bucket with lift loops
- Severe-duty backhoe bucket with lift loops
- Backhoe coupler for “C,” “D,” “E,” and “G” Series John Deere, Case, and Cat buckets
- Auxiliary backhoe valve for swingers, thumbs, etc. with auxiliary plumbing
- Auxiliary backhoe valve for hammers and compactors with auxiliary plumbing

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**315SJ Loader**
- Loader bucket anti-spill (rollback)
- Return-to-dig feature
- Single-lever control with electric clutch cutoff switch
- Bucket-level indicator
- Loader boom service lock
- Ride control
- Auxiliary loader hydraulics with 2-lever control
- Front loader hydraulic coupler for buckets, forks, etc.
- Less bucket, with bucket pins
- High-visibility loader arms

**Hydraulic System**
- 136-L/min. (36 gpm) tandem gear pump, open-center system
- Independent hydraulic reservoir
- “O”-ring face seal connectors
- 6-micron vertical spin-on filter

**Electrical System**
- 12-volt system
- 90-amp alternator
- Single battery with 190-min. reserve capacity and 950 CCA
- Dual batteries with 380-min. reserve capacity and 1,900 CCA
- Positive terminal battery cover
- Blade-type multi-fused circuits
- By-pass start safety cover on starter
- Master disconnect switch
- Jump/auxiliary start terminal

**Lights**
- Additional halogen work lights (6), 32,500 candlepower each (2 front, 2 rear, and 2 side docking)
- Turn signal/flash (2 front and 2 rear)
- Rear stop and tail (2)
- Rear reflectors (2)

**Operator’s Station**
- Modular-design ROPS/FOPS cab with molded roof (conforms to SAE J1040): Isolation mounted
- Left and right access
- Slip-resistant steps and ergonomically located handholds (conform to SAE J185)
- Molded floor mats
- Headliner
- Coat hook
- 12-volt outlets (2 cab, 1 canopy)
- Built-in beverage and Thermos bottle holders
- Built-in Operator’s Manual storage compartment with manual
- Interior rearview mirror
- Outside rearview mirrors
- Rotary hand throttle
- Suspended foot throttle
- Tilt steering
- Horn
- Key start switch with electric fuel shutoff
- Electronic anti-theft enabled through monitor
- Engine coolant temperature gauge, illuminated electronic, with audible warning

**315SJ Operator’s Station (continued)**
- Oil temperature gauge, illuminated electronic, with audible warning
- Fuel gauge, illuminated electronic
- Digital display of engine hours, engine rpm, and system voltage
- Monitor system with audible and visual warnings: Engine air restriction indicator / Low alternator voltage indicator / Engine oil pressure indicator with audible warning / Hydraulic filter restriction indicator / Parking brake on/off indicator with audible warning / Seat belt indicator / Low brake pressure / Machine diagnostic information via 4-pushbutton/LCD operator interface
- Mechanical suspension deluxe vinyl swivel seat with lumbar adjustment and armrests (fully adjustable)
- Mechanical suspension deluxe fabric swivel seat with lumbar adjustment and armrests (fully adjustable)
- Air suspension deluxe fabric swivel seat with lumbar adjustment and armrests
- Seat belt, 51 mm (2 in.), with retractor
- Seat belt, 76 mm (3 in.), with retractor
- Cab: Headliner, dome light, left and right cab doors, tinted safety glass, windshield wiper (one rear and one front), front windshield washer, fresh-air intake, heater/defroster/pressurizer (11.7-kW [40,000 Btu/hr.]) heater, and 12-volt outlets (2)
- Air conditioner (7.6-kW [26,000 Btu/hr.]) output and CFC-free R134a refrigerant
- AM/FM/weather-band radio
- AM/FM/weather-band radio with CD player

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*See your John Deere dealer for further information.

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**Overall Vehicle**
- One-piece unitized construction mainframe
- Vehicle tie-downs (2 front and 2 rear)
- Remote grease bank for front axle
- Heavy-duty front bumper
- 204-kg (450 lb.) front counterweight
- 317-kg (700 lb.) front counterweight
- 454-kg (1,000 lb.) front counterweight
- 567-kg (1,250 lb.) front counterweight
- 657-kg (1,450 lb.) front counterweight
- Rubber grille bumpers
- Fuel tank, 155 L (41 gal.), ground-level fueling
- 2-position easy-tilt hood
- Extended grille frame
- Removable toolbox with padlock hasp
- Vandal protection for locking monitor, engine hood, hydraulic reservoir, and fuel tank
- Reverse warning alarm
- Sound-reduction package
- Dent-resistant full-coverage rear fenders
- JDLink™ wireless communication system (available in specific countries; see your dealer for details)

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*See dealer for range of heavy-duty, multipurpose, and coupler buckets and forks.