315SK Tractor Loader Backhoe

- Net Peak Power: 70 kW
- Net Peak Torque: 384 Nm
- Operating Weight: 2WD - 7 609 kg
  4WD - 7 829 kg
  WORK PRO - 8 543 kg
Shift Productivity into a higher gear

Powerful and responsive hydraulics deliver generous lift capacity and breakout to both working ends – along with impressive backhoe crowd power and swing torque. As always, our PowerShift™ transmission provides smooth on-the-go clutch-less gear changes. What’s more, a fifth gear makes it even more nimble and quick, providing transport speeds up to 40 km/h. Add Autoshift, and you’ll have the smoothest-shifting backhoe available.

Limited-slip mechanical-front-wheel drive delivers up to 65 percent of available power to the wheel with the best traction. Engage it "on the fly", for true all-wheel drive when and where you need it.

Ride-control (optional) functions as a shock absorber, smoothing moves over rough terrain. So full loads are more likely to arrive at their destination – instead of somewhere in-between. Helps reduce operator fatigue, too.

Extendable dipperstick (optional) adds digging depth and reach. Outer-box design firmly clamps cumbersome objects such as timber and concrete slabs between the bucket and gripper teeth while extending or retracting.

Redesigned cooling package allows coolers to tilt away from the radiator for convenient core clean-out.

Already own our J-Series Backhoes? Loader, backhoe buckets, as well as front and rear attachments, are compatible with the K-Series.
Reduced maintenance

From the increased bonnet tilt that allows more engine access, to the tilt-out coolers that open up the cores – the K-Series is loaded with features that make it as easy to maintain as it is to operate. Same-side ground-level service points help daily checks and top-ups go more quickly. Other features such as quick-change filters, extended service intervals, simple-to-read sight gauges, and easy-access grease nipples help increase uptime and lower daily operating costs. And because no maintenance beats low maintenance, self-adjusting serpentine belts, park brakes, and wet-disc brakes seldom, if ever, require attention.

With the K-Series, you’ll spend less time and expense getting ready for work – and more time getting work done.
Big Productivity begins here

Who wouldn't be more productive in the spacious cab of a K-Series Backhoe?
Its wide expanse of tinted glass provides a virtually unobstructed panoramic view of the work at hand and surrounding job site. The enhanced automatic high-velocity climate-control system’s repositioned vents direct air more efficiently to keep the view clear and operator comfortable. You will also find more storage space, with more lockable compartments for securing carry-ons. And there’s a new sealed-switch module that provides convenient, low-effort push-button operation of numerous functions including keyless start. More comfort, more convenience, and more efficiency – that’s our K-Series.


2. In addition to the expected cup holders, there’s more lockable storage, as well as plenty of side-console and overhead compartments.

3. Advanced monitor provides a wealth of vital and general operating info, plus onboard diagnostics of most sensors and switches for quick troubleshooting and maximum uptime.

4. Ergonomically designed loader control utilizes a rotary-switch-actuated electro-hydraulic (EH) controller for third-function loader hydraulics. Push buttons and a trigger provide fingertip operation of clutch disconnect, as well as on/off(momentary) front-wheel-drive engagement.

Mechanical armchair seats adjust as required for daylong operator comfort and support.

Solid-state electrical system eliminates numerous relays and connectors for enhanced reliability.
1. You’ve got cruise control in your car – why not add it to your backhoe? Rotary throttle lets you dial-in the speed you need.

2. Enabled through the monitor, differential lock protection prevents engagement at high travel speeds and the resulting wear and tear on axle components.

3. To conserve fuel and comply with regional air and bystander noise regulations, auto-shutdown turns off the engine after an operator-selected period of inactivity.

4. Split floor mats and a large removable panels provide convenient, top-side access to internal components.

5. With convenient handholds, self-cleaning steps, and wide doors, getting to work has never been easier. Separate service and park brake systems provide an extra measure of security.

12-volt power ports on both sides of the console provide convenient power for cell phones and other devices.

Completely redesigned HVAC system directs heated or cooled air where it’s needed most – on the operator.
### ENGINE
- **Manufacturer and Model:** John Deere PowerTech™4045T
- **Non-Road Emission Standards:** EPA Tier 2 / EU Stage II emissions
- **Displacement:** 6.5 L
- **Net Peak Power (ISO 9249):** 110 kW @ 2,000 rpm
- **Net Torque (ISO 9249):** 387 Nm @ 1,300 rpm

### COOLING
- **Fan Type:** Suction
- **Engine Coolant Rating:** -40°C Oil to water

### POWERTRAIN
- **Torque Converter:** 5-speed, helical-cut gears, full PowerShift™ transmission with hydraulic reverser lever.
- **Maximum Travel Speeds:**
  - **Forward:**
    - Gear 1: 5.9 km/h
    - Gear 2: 10.8 km/h
    - Gear 3: 22.1 km/h
    - Gear 4: 34.7 km/h
    - Gear 5: 40.0 km/h
  - **Reverse:**
    - Non-powered: 2.2 deg.
    - Rear: 22 deg.

### ELECTRICAL
- **Voltage:** 12 volt
- **Alternator Rating:** 90 amp
- **Lights:**
  - Headlights (32, 500 candlepower each), turn signals and flashers, 2 front and 2 rear, stop and taillights and 2 rear reflectors.

### OVERALL VEHICLE
- **Mainframe:** Unitised one-piece construction

### TYRES
- **Front:** 11L-16 SL F-3 (12)
- **Rear:** 12.5/80-18 R-4 (10)

###-serviceability
- **Hydraulic Oil Filter, Spin-On:** 6-micron filtration

### REFILL CAPACITIES
- **Cooling System:** 32.9 L
- **Rear Axle:** 18 L
- **Engine Oil:** 13 L
- **Torque Converter and Transmission Fuel Tank:** 155.2 L
- **Hydraulic System:** 89.3 L
- **Hydraulic Reservoir:** 37.1 L
- **Mechanical-Front-Wheel-Drive Housing:**
  - Axle: 6.5 L
  - Planetary (each): 0.9 L

### OPERATING WEIGHTS
- **With Full Fuel Tank, 79 kg Equipment:**
  - 2WD: 7,609 kg
  - 4WD: 7,829 kg
  - WORK PRO: 8,543 kg

### OPTIONS
- **Extendable Dipperstick:** 222 kg
- **Front Loader Coupler:** 286 kg
- **Backhoe Bucket Coupler:** 65 kg

### HYDRAULICS
- **Main Pump:** Open center, gear type, tandem with unloader
- **Pump Flow @ 2,200 rpm:** 136 L/min
- **Backhoe Loader:**
  - System Relief Pressure: 387 Nm
  - Backhoe Loader: 24 993 kPa
  - Backhoe Controls: 24 993 kPa

### OPTIONS
- **Backhoe Stabiliser Standard:** (2)
- **Non-Powered Axle:** (1)
- **Backhoe Boom:** (1)
- **Backhoe Crowd:** (1)
- **Backhoe Swing:** (2)
- **Backhoe Bucket:** (1)
- **Loader Bucket:** (1)
- **Loader Controls:**
  - Extendable Dipperstick
  - Front Loader Coupler
  - Backhoe Bucket Coupler

### CYLINDERS
- **Type:** Heat-treated, chrome-plated, polished rods; hardened-steel (replaceable bushings) pivot pins
- **Bore:**
  - Loader Boom: 80 mm
  - Loader Bucket: 90 mm
  - Backhoe Boom: 120 mm
- **Rod: Diameter**
  - Loader Boom: 50 mm
  - Loader Bucket: 50 mm
  - Backhoe Boom: 56 mm
- **Stroke:**
  - Loader Boom: 790 mm
  - Loader Bucket: 744 mm
  - Backhoe Boom: 795 mm

### OPERATOR STATION
- **Type:** (SAE J1040)
  - Cab, isolated mounting, ROPS / FOPS, left/right access, with molded roof.
  - Airconditioner (optional).

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### OVERVIEW
- **Mobile Cylindrical Tanks:**
  - Fuel: 32,9 L
  - Coolant: 18 L
  - Engine Oil: 13 L
  - Transmission Oil: 155.2 L
  - Hydraulic Oil: 89.3 L
  - Reservoir: 37.1 L

### SERVICEABILITY
- **Hydraulic Filter:** 6-micron filtration

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### SAFETY FEATURES
- **cab:** isolation
  - ROPS / FOPS, mounted, with side roof
  - Left and right access, with molded roof.
OVERALL DIMENSIONS

| A | Ground Clearance (minimum) | 351 mm |
| B | Overall Length (transport) | 5,26 m |
| C | Stabiliser Spread | 2,4 m |
| D | Height to Top of ROPS/Cab0 | 3,48 m |
| E | Length from Axle to Axle Non-Powered Front axle Mechanical-Front Wheel-Drive Axle | 2,11 m 2,14 m |

LOADING DIMENSIONS/PERFORMANCE

| P | Bucket Dump Angle (maximum) | 45 deg. |
| Q | Rollback Angle at Ground | 40 deg. |

| Bucket Capacity | Heavy-Duty | 1,00 m³ |
| Width | 2,400 mm |
| Weight | 552 kg |
| Breakout Force | 45,8 kN 42,9 kN |
| Lift Capacity (full height) | 3,286 kg 2,994 kg |
| R | Height to Bucket Hinge Pin (maximum) | 3,40 m 3,40 m |
| S | Dump Clearance (bucket at 45 deg.) | 2,64 m 2,62 m |
| T | Reach at Full Height (bucket at 45 deg.) | 765 mm 818 mm |
| U | Digging Depth Below Ground (bucket level) | 206 mm 185 mm |
| V | Length From Front Axle Centreline to Bucket Cutting Edge | 2,03 m 2,15 m |

LIFT CAPACITY WITH QUICK-COUPLER/FORKS

| A | Maximum Height | 2073 kg |
| B | Maximum Reach | 3162 kg |
| C | At Ground Line | 4145 kg |
| D | Below Ground Line | 211 mm |
| E | Lift Force (full height) (SAE maximum) | 53,3 kN |
| F | Reach from Centre of Swing Pivot | 67,8 kN |
| G | Reach from Centre of Rear Axle | 36,0 kN |
| H | Swing Arc | 180 deg. |
| I | Breakout Force (full height) (less loader bucket) | 3,96 m 4,09 m 5,22 m |
| J | Side-Shift from Centreline | 2,49 m 2,49 m - |
| K | Overall Width | 542 mm 542 mm 542 mm |
| L | Bucket Rotation | 620 mm 620 mm 620 mm |
| M | Transport Height | 3,48 m 3,48 m 3,48 m |

BACKHOE DIMENSIONS/PERFORMANCE

Backhoe specifications are with 610 mm x 0.21 m³ bucket

| Bucket Range | 305-915 mm |
| Digging Force | 53,3 kN |
| Bucket Cylinder | 67,8 kN |
| With Heavy-Duty Cylinder Option | 36,0 kN |
| Crowd Cylinder | 180 deg. |
| Swing Arc | Two levers |

With Optional Dipperstick

| With Standard Dipperstick | Extended Dipperstick |
| Retracted | Extended |
| 3,58 m | 4,34 m |
| 3,58 m 4,42 m 5,49 m |

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

Engine
- Meets EPA Tier 2 / EU Stage II emissions
- John Deere Model 4045T - 4.5 litre, net peak power (70 kW) turbocharged, isolation mounted
- Vertical spin-on engine oil filter
- Vertical spin-on fuel filter with water separator
- 2 micron Ultra Fine Diesel Filter
- Oil-to-water engine oil cooler
- Anti-freeze, -40°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
- Mechanical fuel lift pump

Powertrain
- Powershift transmission: Torque converter with Transmission Control Lever (TCL) twist grip F-N-R, with neutral safety switch interlock (1 through 4 gears)
- 5th gear over-drive
- Transmission oil cooler
- Vertical spin-on transmission filter
- Differential lock, electric foot-actuated
- Planetary final drives
- Power assisted hydraulic service brakes (conform to ISO 3450): Inboard, wet multi-disc, self-adjusting and self equalising
- 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 / Driveshaft guard / Sealed axle
- Auto-shift transmission

Backhoe
- Standard dipperstick, 4.29 m digging depth
-Extendable dipperstick, 1.07 m extension
-Heavy-duty backhoe bucket cylinder
-Two-lever mechanical backhoe controls
-Backhoe transport lock lever
-Swing lock pin stored in operator’s station
-Stabilisers with two-direction anti-drift valves
-Heavy-duty backhoe bucket
-Auxiliary backhoe valve for hammers, compactors with auxiliary plumbing

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

Hydraulic System
- 136 L/min tandem gear pump, open-centre 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
- Positive terminal battery cover
- Blade-type multi-fused circuits
- By-pass start safety cover on starter
- Battery disconnect switch

Lights
- Halogen work lights (6), 32 500 candlepower each (2 front, 2 rear, and 2 side docking)
- Turn signal/flasher (2 front and 2 rear)
- Rear stop and tail (2)
- Rear reflectors (2)
- Additional halogen work lights (4), 2 front and 2 rear

Operator’s Station
- Modular-design ROPS/FOPS level 2, 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 in cab
- Built-in beverage holders
- Built-in Operator’s Manual storage compartment
- Interior rearview mirror
- 2 outside rearview mirrors
- Rotary-dial hand throttle
- Suspended foot throttle
- Horn
- Sealed switch module
- Keyless start
- Machine security (enabled through monitor)

- Engine coolant temperature guage, illuminated electronic, with audible warning
- Oil temperature guage, illuminated electronic, with audible warning
- Fuel guage, illuminated electronic
- Digital display of engine hours, engine rpm, and system voltage
- Monitor system with audible and visual warnings: Engine air restriction / Low alternator voltage / Engine oil pressure / Hydraulic filter restriction / Parking brake on/off / Seat belt / Low brake pressure / Machine diagnostic information via 4-pushbutton / LCD operator interface
- Mechanical suspension deluxe fabric swivel seat with lumbar adjustment and armrests (fully adjustable)
- Air suspension deluxe fabric swivel seat with lumbar adjustment
- Seat belt, 76 mm, 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 / pressuriser (40,000 Btu/hr. [11.7kW] heater), and 12 volt outlets (2)
- Air conditioner (26,000 Btu/hr. [7.6kW] output and CFC-free R134a refrigerant)

Overall Vehicle
- One-piece unisited construction mainframe
- Vehicle tie-downs (2 front and 2 rear)
- Remote grease bank for front axle
- 204 kg front counterweight
- Heavy duty front bumper
- Rubber grille bumpers
- Fuel tank, 155 L, ground-level fueling
- Two-position easy tilt hood
- Extended grille frame
- Removable toolbox with padlock latch
- Vandal protection for locking, engine hood, hydraulic reservoir, and fuel tank
- Reverse warning alarm
- Sound reduction package
- Dent-resistant full-coverage rear fenders

Standard Equipment ▲ Optional Equipment

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