

**BID SUBMITTAL FORM**  
**Alabama County Joint Bidding Program**  
**Heavy Equipment – BID ITEM HEAVY DUTY BACKHOE – OPTION B**

Company Name: Warrior Tractor & Equipment Company, Inc.

Address: 6801 McFarland Blvd, Northport, AL 35476

Bid Submitted by: David Schafer  
(Name of company representative)

Title: Sales Manager E-mail address: dschafer@warriortractor.com

Phone: 205-339-0300 Fax: 205-333-0101

By submitting this bid, we agree:

Initials

The equipment model number identified below meets the bid specs for this bid item.

DRS

That the bid price will be honored for all counties for the period from **January 1, 2026** to **June 30, 2026**.

DRS

The equipment will be delivered at the bid price to all counties participating in the joint bid program.

DRS

The company acknowledges the freight preparation and delivery price is to be included in the total bid price for the standard machine.

DRS

The company representative listed above will be the contact person for purchasing this bid item under the joint bid program.

DRS

The bid is accompanied by a current catalog or model specification document for the model number identified below.

DRS

The bid is accompanied by a copy of the manufacturer's standard warranty as required in the bid specifications.

DRS

The bid includes the E-Verify documentation required by Alabama law.

DRS

We comply with, and if awarded the contract, we will comply with, the requirements of Section 41-16-50 and Sections 41-16-160 to -166, Code of Alabama 1975.

DRS

If awarded the bid, a performance bond will be provided upon request.

DRS

The bid documents include the **Manufacturer's Suggested Retail Price Sheet (MSRP) for the Standard Machine**.

DRS

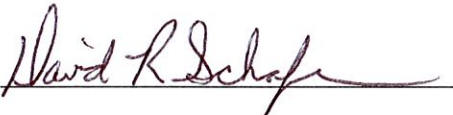
Total Bid Price for Standard Machine: \$ 132,287.00  
(Total Bid Price for Standard Machine Includes Freight Preparation, Delivery and Standard Warranty Costs) \*

Freight Preparation and Delivery: \$ 5,450.00  
(Included in Standard Machine Bid Price)

Manufacturer's Suggested Retail Price for Standard Machine: \$ 203,697.00

Equipment Model #: 320 P-Tier Backhoe Heavy Lift

Description: Heavy Duty Backhoe Option B

Signature of company representative submitting bid: 

Title: Sales Manager

\* **NOTE:** Award will be made based on the total cost of the **Standard Machine**. The total cost of the standard machine is to include freight preparation, delivery and standard warranty cost. Freight preparation and delivery will be excluded from the total bid price of the standard machine in determining the percentage discount for any available options.

## BID SUBMITTAL FORM: OPTION COST SHEET

By submitting this bid, we agree:

To offer any available options at the percent difference between the Manufacturer's Suggested Retail Price Sheet and the actual bid price on the Standard Machine\*

10.28

The bid documents include the **Manufacturer's Suggested Retail Price Sheet (MSRP)** for the Standard Machine

10.28

Equipment Model #: 320 P-Tier Backhoe Heavy Lift

Description: Heavy Duty Backhoe Option B

Signature of company representative submitting bid: David B. Schaffer

Title: Sales Manager

**\*Note:** The percent difference between the **Manufacturer's Suggested Retail Price Sheet (MSRP)** for the standard machine as specified by these **Bid Specifications** and the actual price bid by the vendor will be calculated to determine the percentage discount to be applied to any available options. The bid price of the freight preparation and delivery cost shall be excluded in determining the percentage discount to be applied to available options. Any individual county may choose to add any available option to the standard machine at the percentage discount at the time of purchase.



# **BID SPECIFICATIONS FOR HEAVY DUTY BACKHOE-OPTION B**

## **GENERAL**

These specifications shall be construed as the minimum acceptable standards for a heavy-duty backhoe. Should the manufacturer's current published data or specifications exceed these standards, the manufacturer's standards shall be considered minimum and shall be furnished. All integral parts not specifically mentioned in the scope of these specifications that are necessary to provide a complete working unit shall be furnished. Additionally, the machine offered for bid shall include all standard manufacturers' equipment. The heavy-duty loader/backhoes must be a new current production model and shall meet all EPA and other applicable standards at the time of manufacture.

The use of specific names or numbers in the specifications is not intended to restrict the bidder or any seller or manufacturer but is intended solely for the purpose of indicating the type, size and quality of equipment considered best adapted to the uses of counties participating in this joint bid.

## **BID SUBMITTAL FORM**

Each bidder must submit his or her bid on the Bid Submittal Form included in the invitation to bid package. All written warranties to be submitted shall be attached to the Bid Submittal Form.

## **BID PRICE**

The price bid shall include all destination charges, delivery charges, title fees, rebates and all other applicable costs and refunds.

## **MANUALS**

Each unit shall be provided with one (1) copy of the operator's manual and one (1) copy of the current parts manual. Units will not be accepted for delivery until manuals as outlined above are received by the purchaser.

## **REPLACEMENT PARTS AVAILABILITY**

Parts must be available for 5 years or 7,500 hours of use for the piece of equipment bid. If replacement parts are not delivered within three (3) working days of an order being placed, the bidder will deliver an equivalent machine for the County to use at no cost to the county until such time as the parts are delivered to the County so it can affect repairs to its machine.

## **WARRANTY**

Bidders shall submit a copy of the manufacturer's standard warranty. Warranty shall include service response time of maximum of 36 hours within notification by county.

Yes X No       
Page#       
or  
Attachment X



## **ENGINE**

Four-cylinder, four stroke cycle, minimum 207 cubic inch diesel engine, capable of developing a minimum of 95 NET flywheel horsepower with turbo charger.

Yes ☒ No ☐  
Page # 6

## **TRANSMISSION**

Power shuttle/Power Shift transmission.

Yes ☒ No ☐  
Page # 6

Minimum of four (4) speeds forward and four (3) reverse speeds.

Yes ☒ No ☐  
Page # 6

## **CONTROLS AND HYDRAULICS**

Excavator style pilot-operated joystick controls with closed center, variable displacement load sensing hydraulic system.

Yes ☒ No ☐  
Page # 6

Adjustable steering column.

Yes ☒ No ☐  
Page # 6

Air suspension seat.

Yes ☒ No ☐  
Page # 11

## **FRONTEND LOADER**

Loader Bucket -- 1.05 min. cu yd. heavy-duty

Yes ☒ No ☐  
Page # 9

Loader breakout force (lbs.) -- 8,000 lbs.

Yes ☒ No ☐  
Page # 9

Loader lift capacity max. Height (lbs.) -- 7,000 lbs.

Yes ☒ No ☐  
Page # 9

Loader pin height -- 11 ft. 1 in.

Yes ☒ No ☐  
Page # 9

Loader dump height -- 8 ft. 4 in.

Yes ☒ No ☐  
Page # 9

## **BACKHOE -- TWO LEVEL CONTROL SYSTEM (FIXED LENGTH DIPPER STICK)**

Backhoe Bucket -- 24 in. heavy duty bucket (5 teeth)

Yes ☒ No ☐

Bucket breakout force (lbs.) – 14,700 lbs.

Page # 9

Yes X No       
Page # 8

Backhoe stick digging force (lbs.) – 8,500 lbs.

Yes X No       
Page # 8

Boom Lift @ 12 ft. (lbs.) – 3,200 lbs.

Yes X No       
Page # 10

Backhoe maximum digging depth -- 14 ft. 5 in.

Yes X No       
Page # 8

Backhoe maximum dumping height 11 ft. 9in. **\*\*11'8"\*\*\***

Yes      No X  
Page # 9

### **BRAKES**

Service brakes – hydraulic wet disk.

Yes X No       
Page # 6

Parking brake.

Yes X No       
Page # 6

All wheel braking shall be available.

Yes      No X  
Page #     

### **FRONT AXLE**

Standard 2-wheel drive

Yes X No       
Page # 11

### **TIRES AND OUTRIGGERS**

Reversible type for use on both paved and non-paved surfaces.

Yes X No       
Page # 11

Minimum 19.5L – 24/10 PR rear tires and wheels.

Yes X No       
Page # 7

Minimum 12.5/80 – 18/10 PR front tires and wheels.

Yes X No       
Page # 7

### **FUEL TANK**

Minimum Capacity -- 34 Gallons

Yes X No       
Page # 7

**ROPS/FOPS Cab**

Yes ☒ No ☐

**Heat/AC**

Page # 11

**WEIGHT (STANDARD OPERATING)**

The factory specified operating weight only without options. No additional weights may be added for the purpose of meeting these specifications. Minimum 18,695 lbs. SAE standard.

Yes ☒ No ☐

Page # 7

**SAFETY DEVICES**

Include a fire extinguisher that meets current minimum OSHA requirements complete with Mounting hardware installed on the machine.

Yes ☒ No ☐

Page # 11

Include a rotating or flashing safety beacon installed on top of the cab.

Yes ☒ No ☐

Page # 11



320 P-Tier Backhoe Loader



04-Nov-2025

Code	Description	QTY	List Price
17C1T	320 P-Tier Backhoe Loader	1	US\$187,508.00 USD

320 P-Tier Standard EquipmentENGINE:John Deere PowerTech™ EWL 4.5L turbocharged 4-cylinder engineSerpentine belt with automatic belt tensionerVertical spin-on engine oil filterPrimary and secondary spin-on fuel filter with water separatorDual safety element dry-type air cleaner with evacuator valveVertical curved exhaust stackEconomy modeAuto idleAuto shut-offCOOLING SYSTEM:Engine radiatorEngine coolant -40 degrees F (-40C)Coolant recovery tank with low level indicatorCooling fan with fan guardOil to water engine oil coolerOil to air hydraulic oil coolerOil to water transmission oil coolerFold-out hinged cooling systemHigh ambient temperature engine coolantPOWERTRAIN:Powershift transmission with torque converterAuto-shift feature (on/off)Vertical spin-on transmission filterSingle electric transmission control lever (forward/neutral/reverse) with integrated gear selection & hornElectronic transmission controller with on-board diagnosticsRigid mounted rear axle with 4-planet final driveDifferential lock, protection on/offMechanical limited slip front wheel driveHydrostatic power steering with emergency manual mode power-assisted hydraulic service brakes inboard, wet disc, self-adjusting and self-equalizing (conforms to ISO 3450)Power-assisted hydraulic service brakes inboard, wet disc, self-adjusting and self-equalizing (conforms to ISO 3450)Parking/emergency brake: independent of service brakes (conforms to ISO 3450) spring applied, hydraulically released, wet multi-discHYDRAULICS:43 GPM (163 L/m) axial piston pump - closed center / PCLS hydraulics systemDedicated hydraulic reservoir4 micron vertical spin-on filter"O" ring face seal connectorsCircuit relief valve protectionLift mode provides up to 15% additional craning capacityBACKHOE:14 ft. 3 in. (4.33 m) digging depth (standard dipperstick)Backhoe transport lock leverSwing locking pin stored in operator stationISO (Deere) 2 lever mechanical backhoe controlsReversible pad stabilizer feet with integrated lockStabilizer two-direction anti-drift valvesLess bucket with bucket pinsBackhoe boom includes mounting hole for optional boom protection plate.LOADER:Return-to-dig featureBucket level indicatorHydraulic self-leveling (anti-spill)Single lever control with electric clutch cut-off switch, momentary MFWD control, rear differential lock, integrated gear selection, and hornLess bucket with bucket pinsLoader boom service lockHigh-visibility loader armsELECTRICAL:12 volt system145 amp alternatorHalogen: (4) front drive/work, (4) rear work and (2) side docking halogen lights LED: (4) turn signal/flashing, (2) rear stop and tail(2) rear reflectorsSingle battery with 175 minute reserve capacity and 950 CCABlade type multi-fused circuitsBy-pass start safety cover on starterPositive terminal battery coverOPERATOR STATION:Modular-design ROPS/FOPS (level 2) canopy with molded roof (meets ISO 3471 and ISO 3449): isolation mountedLeft and right side accessLeft hand side console with lockable storage and vertical B post coveringVertical mobile phone holder with rubber insertOne front and two side trays with rubber insertsSlip resistant steps and ergonomically located handholds (conforms to SAE J185)Seat, deluxe deep foam, vinyl cover, high back with adjustable:- Suspension for weight/height- Fore-aft- Lumbar adjustments- Flip-up arm rests- 3 in. orange seat belt with retractorTilt steeringEngine coolant temperature gaugeFuel gaugeTransmission oil temperature gaugeElectric monitor system with audible and visual warning:- Air cleaner restriction- Low alternator voltage- Engine coolant temperature- Engine oil pressure & temperature- Hydraulic filter restriction- Low brake pressure- Seat belt indicator- Transmission oil temperature- Fuel level- Hourmeter / tachometer / voltmeterMachine diagnosticsKeyless startSealed switch moduleMachine securityHorn controls (1- loader control, 1- RH side console)Interior rearview mirrorRotary hand throttleSuspended foot throttle12 volt outlets (1)Operator's manual storage compartmentIntegrated cup holders with form fitting rubber insertsCoat hookOVERALL VEHICLE:(2) front and (2) rear built-in tie downsOne piece unitized construction mainframeExtended grille frameDent resistant rear fendersVandal protection locking for:- Engine hood- Monitor- Tool box- Fuel tank- Hydraulic reservoir- 34 gal. (128.7 L) fuel tankReverse warning alarm19.5L - 24 in. 12 PR (R4) tubeless rear and12.5/80 - 18 in. 12 PR traction front sure grip lug tiresGround level fuelingRemote grease bank for front axleTilt hood with (2) service positionsJDLINK connectivity in approved countries

Basic Factory Options - Required



#### Destination Codes

0202	United States	No Added Cost
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#### Labels

0351	Translated Text Labels	No Added Cost
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Vehicle labels translated to selected language with English labels. Includes labels for operator station, engine and backhoe controls options.

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#### Operator's Manual and Language

0259	English	No Added Cost
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English language for operator's manual and electronic content. Includes operator's manual and 4G OM packet.

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0263	French	No Added Cost
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French language for operator's manual and electronic content. Includes French machine label kit, 4G OM packet, and operator's manuals in French and English.

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0287	Spanish	No Added Cost
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Spanish language for operator's manual and electronic content. Includes Spanish machine label kit, 4G OM packet, and operator's manuals in Spanish and English.

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#### Trim Packages

0601	Level 1 Canopy	(US\$14,503.00)
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Includes:  
- Canopy  
- Halogen work lights  
- Mechanical suspension seat  
- Fixed steering column

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0602	Level 2 Canopy	(US\$12,022.00)
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Includes:

- Canopy
- LED work lights
- Air suspension vinyl seat
- Tilt steering column
- Headliner

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0605	Level 1 Cab	No Added Cost
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- Includes:
- Enclosed cab
  - Halogen work lights
  - Mechanical suspension seat

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0606	Level 2 Cab	US\$1,703.00
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- Includes:
- Enclosed cab
  - LED work lights
  - Air suspension cloth seat

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0607	Level 3 Cab	US\$3,587.00
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- Includes:
- Enclosed cab
  - LED work lights
  - Premium seat (air suspension, heat, and vented)
  - Pull-down front sunshade

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#### Performance Packages

0650	Less Performance Package	No Added Cost
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0651	Level 1 Performance Package	US\$1,749.00
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- Includes:
- MFWD guard
  - Boom protection plate
  - Stabilizer guards

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0652	Level 2 Performance Package	US\$2,863.00
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- Includes:
- MFWD guard
  - Boom protection plate



- Stabilizer guards
- Heavy duty stabilizer pads
- Heavy duty front grille screen

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#### Vision System

0950	Less Vision System	No Added Cost
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0952	Rear Camera System (with Secondary Display)	US\$3,599.00
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For enhanced operator visibility. Two cameras are mounted on rear roof corners that enable the operator to 'overlay the view' and virtually remove rear structure. Includes the wiring harness, cameras, dedicated 8" touch screen display, and mounting bracket.

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#### Radio

1200	Less Radio	(US\$620.00)
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1205	Basic Package Radio	No Added Cost
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AM/FM/Weather Radio

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1210	Premium Package Radio	US\$527.00
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AM/FM/Weather Radio, Bluetooth capable with microphone, and 3.5mm auxiliary input

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#### Connectivity Hardware

183N	JDLINK™	No Added Cost
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Includes integrated cab wiring harness, antenna, and JDLINK™ Modem's (MTG).

JDLINK™ connectivity is enabled separately through the JDLINK™ website.  
Connectivity service is subject to country availability.

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183Q	JDLINK™ Satellite	US\$3,462.00
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Includes integrated cab wiring harness, antenna, JDLINK™ Modem's (Cellular MTG & Satellite MTG).

JDLINK™ connectivity is enabled separately through the JDLINK™ website.  
Connectivity service is subject to country availability.

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#### Transmission

3009	Autoshift Transmission - Mechanical Front Wheel Drive (MFWD) with Limited Slip Differential	No Added Cost
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5F/3R autoshift transmission.

A single electric transmission control lever is mounted on the left side of steering column (forward/neutral/reverse). Powershift configurations include gear up and down buttons integrated into the loader lever handle. Autoshift can be turned on/off from the sealed switch module. When autoshift is off, the transmission will operate as a powershift.

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#### Engine

4006	John Deere 4.5L - FT4/Stage IV	No Added Cost
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Net peak power of 113 Hp.

For use only in areas where EPA final tier 4/EU stage IV is required.

Turbocharged.

Wet sleeve cylinder liners.

2 valves / cylinder.

Electronically controlled HPCR fuel delivery system, B20 biodiesel compatible .

Serpentine belt with automatic belt tensioner.

Enclosed safety fan guard.

Vertical spin-on engine oil filter.

Spin-on fuel filter with water separator.

Dual safety element dry-type air cleaner with evacuator valve.

Underhood catalysts with vertical curved exhaust stack.

Passive flow-through exhaust aftertreatment system with grid heater.

Electronically controlled, variable-speed cooling fan.

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#### Wheels and Tires

5241	Galaxy 16.9-28 12PR Rear & 12.5/80 10PR Front	US\$367.00
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Rear tire chains require wheel spacers (AT347522).

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5245	Galaxy 19.5L-24 12PR Rear & 12.5/80-18 10PR Front	No Added Cost
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Rear tire chains require wheel spacers (AT347522).

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5250	Galaxy 21L-24 12PR Rear & 12.5/80-18 10PR Front	US\$1,521.00
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Rear tire chains require wheel spacers (AT347522).

5255	Galaxy 550 Radial - 500/70R24 Rear & 340/80R18 Front	US\$3,396.00
	Rear tire chains require wheel spacers (AT347522). Tire designed for hard surface roading and snow.	
5256	Galaxy 580 Radial - 500/70R24 Rear & 340/80R18 Front	US\$2,460.00
	Rear tire chains require wheel spacers (AT347522). Tire designed for hard surface roading and snow.	
54D1	Custom Code - Goodyear 16.9-28 10PR R-4 TL IT525 Rear & 12.5/80-18 14PR I-3 Front	US\$1,324.00
	Rear tire chains require wheel spacers (AT347522).	
54J5	Custom Code - Galaxy 21-24 12PR Rear on HD Rim & 12.5/80-18 10PR Front	US\$1,365.00
	Rear tire chains require wheel spacers (AT347522).	
<b>Batteries</b>		
6152	Single Battery with Disconnect and Jump Post	No Added Cost
	175 minute reserve capacity (950 CCA) Recommended for use in ambient temperatures above 32 degrees F (0 degrees C).	
6155	Dual Batteries with Disconnect and Jump Post	US\$314.00
	350 minute reserve capacity (1900 CCA). Recommended for use in ambient temperatures below 32 degrees F (0 degrees C).	
<b>Backhoe Dipperstick</b>		
6751	Standard Dipperstick	No Added Cost
	Standard stabilizer legs; stabilizer overall width, operating: 11 ft. 7 in. (3.53 m.)	
6753	Heavy Lift - Standard Dipperstick	US\$3,921.00



The heavy lift option includes larger rear structures and hydraulic cylinders that provides up to 25% increase in lifting capacities and break out forces. Includes heavy duty bucket cylinder (code 8125 not orderable).  
Requires code 7028.

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6752	Extendible Dipperstick	US\$9,161.00
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Extended stabilizer legs; stabilizer overall width, operating: 13 ft. 3 in. (4.03 m.). When configured with mechanical controls (option 7026) extendible dipperstick is controlled by a foot pedal. When configured with pilot controls (option 7028) extendible dipperstick is controlled by roller on joystick.

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6754	Heavy Lift - Extendible Dipperstick	US\$13,082.00
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The heavy lift option includes larger rear structures and hydraulic cylinders that provides up to 25% increase in lifting capacities and break out forces. Includes heavy duty bucket cylinder (code 8125 not orderable).  
Requires code 7028.

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#### Counterweight

6571	Front Cover - For Machines without a Front Counterweight	No Added Cost
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6572	Heavy-Duty Bumper - For Machines without a Front Counterweight	US\$245.00
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Mounted to the lower section of the machine's front (under the grille) for added protection when climbing piles or over rough terrain.

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6573	450 lb. (204 kg.) Front Counterweight	US\$690.00
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6575	750 lb. (340 kg.) Front Counterweight	US\$1,120.00
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6576	1000 lb. (454 kg.) Front Counterweight	US\$1,542.00
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6577	1250 lb. (567 kg.) Front Counterweight	US\$1,972.00
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#### Backhoe Auxiliary Hydraulics

7000	No Auxiliary	No Added Cost
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7001	Auxiliary Hydraulics with One Way Flow (Hammer)	US\$3,453.00
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Auxiliary plumbing to bulkhead (mid-point of dipperstick). Includes hydraulic quick disconnect fittings KV11305 and AT312681 rated for full auxiliary circuit flow capacity. Quick disconnects require connection without pressure and are identical to the couplings provided with the front loader 3rd function hydraulic option.

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7002	Auxiliary Hydraulics with One & Two Way Flow (Hammer & Thumb/Swinger)	US\$5,407.00
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Includes factory installed plumbing to bulkhead (mid-point of dipperstick) for one and two way flow valves (selective flow and proportional). Includes hydraulic quick disconnect fittings KV11305 and AT312681 for one-way flow circuit rated for full auxiliary circuit flow capacity. Quick disconnects require connection without pressure and are identical to the couplings provided with the front loader 3rd function hydraulic option.

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#### Backhoe Controls

7026	Mechanical Controls, Two Lever, ISO (Deere)	No Added Cost
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7028	Pilot Controls, Two Lever, with Pattern Selection	US\$3,050.00
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Proportional auxiliary control and extendable dipperstick control integrated into pilot control levers.

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#### Loader Controls

7037	Two-Function Loader Hydraulics, Single Lever	No Added Cost
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Single-lever control with horn, rear differential lock, electric clutch cutoff switch, MFWD (momentary), and gear selection buttons.

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7038	Loader Coupler, Two-Function Hydraulics, Single Lever	US\$7,479.00
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Includes auto ride control, option 8165.

Single-lever control with horn, rear differential lock, electric clutch cutoff switch, MFWD (momentary), and gear selection buttons.

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7040	Three-Function Loader Hydraulics, Single Lever	US\$3,579.00
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Single-lever control with horn, rear differential lock, electric clutch cutoff switch, MFWD (momentary), gear selection buttons, and electrohydraulic (EH) proportional auxiliary roller.

For multi-purpose bucket and front attachments.

Includes valve with circuit relief and .5 in. (12.7 mm) hoses and steel lines to loader cross tube.

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7041	Loader Coupler, Three-Function Hydraulics, Single Lever	US\$10,923.00
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Includes auto ride control, option 8165.

Single-lever control with horn, rear differential lock, electric clutch cutoff switch, MFWD (momentary), gear selection buttons, and electrohydraulic (EH) proportional auxiliary roller.

For multi-purpose coupler bucket and front attachments.

Includes valve with circuit relief and .5 in. (12.7 mm) hoses and steel lines to loader cross tube.

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704A	Custom Code - Loader Coupler Configuration, 3-Function Hydraulics, Single Lever (Less Coupler)	US\$9,254.00
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Includes auto ride control, option 8165.

Single-lever control with horn, rear differential lock, electric clutch cutoff switch, MFWD (momentary), gear selection buttons, and electrohydraulic (EH) proportional auxiliary roller.

Does not include the coupler.

For multi-purpose coupler bucket and front attachments.

Includes valve with circuit relief and .5 in. (12.7 mm.) hoses and steel lines are capped at the cross tube.

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#### Backhoe Buckets

7800	Less Backhoe Bucket with Bucket Pins	No Added Cost
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7801	12 in. (309 mm.) Heavy-Duty Bucket, 3.1 cu. ft. (0.09 cu. m.)	US\$1,872.00
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Pin-on bucket includes 3 teeth, TK-system Fanggs

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7804	18 in. (457 mm.) Heavy-Duty Bucket, 4.9 cu. ft. (0.14 cu. m.)	US\$2,136.00
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Pin-on bucket includes 4 teeth, TK-system Fanggs

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7806	24 in. (611 mm.) Heavy-Duty Bucket, 6.9 cu. ft. (0.20 cu. m.)	US\$2,326.00
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Pin-on bucket includes 5 teeth, TK-system Fanggs

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7808	24 in. (611 mm.) Severe-Duty Bucket, 6.9 cu. ft. (0.20 cu. m.)	US\$3,103.00
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Pin-on bucket includes 5 teeth, TK-system Fanggs

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7809	24 in. (610 mm.) Top Hook Heavy-Duty Bucket, 7.4 cu. ft. (0.21 cu. m.)	US\$2,506.00
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Top hook coupler bucket includes 5 teeth, TK-system Fanggs

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7810	24 in. (611 mm.) Heavy-Duty Bucket, 8.1 cu. ft. (0.23 cu. m.)	US\$2,551.00
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Pin-on bucket includes 5 teeth, TK-system Fanggs

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7811	24 in. (611 mm.) Severe-Duty Bucket, 8.1 cu. ft. (0.23 cu. m.)	US\$3,203.00
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Pin-on bucket includes 5 teeth, TK-system Fanggs

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#### Backhoe Quick Couplers

7700	Less Coupler - Less Thumb	No Added Cost
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If ordering with thumb, must order option code 7701.

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7701	Less Coupler - Thumb Ready	No Added Cost
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Includes factory installed thumb cylinder mounting ears installed onto dipper.  
If factory installed thumb option required, order code 8025 - 37 inch tine.

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7702	Deere Standard Quick Coupler - Less Thumb	US\$1,808.00
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If ordering thumb, must order option 7703 or 7704.  
For use with 310SE, SG, SJ, SK, SL; 410E, G, J, K, L backhoe buckets.  
Not compatible with 310E, G, J, K, L series backhoe buckets.

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7703	Deere Standard Quick Coupler - 37 in. Thumb Ready	US\$1,808.00
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Includes factory installed thumb cylinder mounting ears installed onto dipper.  
If factory installed thumb option required, order code 8025 - 37 inch tine.  
For use with 310SE, SG, SJ, SK, SL; 410E, G, J, K, L backhoe buckets.  
Not compatible with 310E, G, J, K, L series backhoe buckets.

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7704                      Deere Standard Quick Coupler - 42 in. Thumb Ready                      US\$1,808.00

Includes factory installed thumb cylinder mounting ears installed onto dipper.  
If factory installed thumb option required, order code 8027 - 42 inch tine.  
For use with 310SE, SG, SJ, SK, SL; 410E, G, J, K, L backhoe buckets.  
Not compatible with 310E, G, J, K, L series backhoe buckets.

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7705                      Multi-Brand Quick Coupler - Less Thumb                      US\$2,020.00

If ordering coupler with thumb, requires option code 7706 or 7707.  
For use with Deere C, D, SE, SG, SJ, SK, SL & SL HL series buckets and with Case K, L, M and Cat C series buckets.  
Not for use with 710 buckets.  
Not compatible with Case N-series.

Spacers are recommended for Cat and Case buckets, see bulletin 07BH08 for details.

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7706                      Multi-Brand Quick Coupler - 37 in. Thumb Ready                      US\$2,020.00

Includes factory installed thumb cylinder mounting ears installed onto dipper.  
If factory installed thumb option required, order code 8025 - 37 inch tine.  
For use with Deere C, D, SE, SG, SJ, SK, SL & SL HL series buckets and with Case K, L, M and Cat C series buckets.  
Not for use with 710 buckets.  
Not compatible with Case N-series.

Spacers are recommended for Cat and Case buckets, see bulletin 07BH08 for details.

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7707                      Multi-Brand Quick Coupler - 42 in. Thumb Ready                      US\$2,020.00

Includes factory installed thumb cylinder mounting ears installed onto dipper.  
If factory installed thumb option required, order code 8027 - 42 inch tine.  
For use with Deere C, D, SE, SG, SJ, SK, SL & SL HL series buckets and with Case K, L, M and Cat C series buckets.  
Not for use with 710 buckets.  
Not compatible with Case N-series.

Spacers are recommended for Cat and Case buckets, see bulletin 07BH08 for details.

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7708                      Top Hook Quick Coupler - Less Thumb                      US\$1,518.00

If ordering with thumb, requires option code 7709.  
For use with Deere top hook coupler bucket option code 7809 and CP or pre-XLS Wain Roy top hook



bucket.

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7709	Top Hook Quick Coupler - 42 in. Thumb Ready	US\$1,518.00
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Includes factory installed thumb cylinder mounting ears installed onto dipper.  
If factory installed thumb option required, order code 8027 - 42 inch tine.  
Only compatible with Deere top hook coupler bucket option code 7809 and CP or pre-XLS Wain Roy top hook bucket.

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7710	New Series Multi-Brand Quick Coupler - Less Thumb	US\$2,078.00
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If ordering with thumb, requires option code 7711 or 7712.  
For use with Cat D,E, F, Case K-L-M, and Deere SE, SG, SJ, SK, SL & SL HL series backhoe buckets except high-capacity buckets and 710 buckets.  
Not compatible with Case N-series.

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7711	New Series Multi-Brand Quick Coupler - 37 in. Thumb Ready	US\$2,078.00
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Includes factory installed thumb cylinder mounting ears installed onto dipper.  
If factory installed thumb option required, order code 8025 - 37 inch tine.  
For use with Cat D,E, F, Case K-L-M, and Deere SE, SG, SJ, SK, SL & SL HL series backhoe buckets except high-capacity buckets and 710 buckets.  
Not compatible with Case N-series.

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7712	New Series Multi-Brand Quick Coupler - 42 in. Thumb Ready	US\$2,078.00
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Includes factory installed thumb cylinder mounting ears installed onto dipper.  
If factory installed thumb option required, order code 8027 - 42 inch tine.  
For use with Cat D,E, F, Case K-L-M, and Deere SE, SG, SJ, SK, SL & SL HL series backhoe buckets except high-capacity buckets and 710 buckets.  
Not compatible with Case N-series.

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7713	Rear Hydraulic Coupler for Pin-on Buckets - Less Thumb	US\$9,525.00
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If ordering coupler with thumb, requires code 7714.  
For use on 310SL, 310SL HL, and 410L with a serial number of 303524 and higher. For use with Deere SE, SG, SJ, SK, SL & SL HL series pin-on buckets and 410E, G, J, K, and L series pin-on buckets.  
Not for use with top hook buckets. Reference bulletins 17BH09 and 16BH17 for bucket compatibility and SSM information.

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7714	Rear Hydraulic Coupler for Pin-on Buckets - 42 in. Thumb Ready	US\$9,525.00
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Includes factory installed thumb cylinder mounting ears installed onto dipper.  
If factory installed thumb option required, order code 8027 - 42 inch tine.  
For use on 310SL, 310SL HL, and 410L with a serial number of 303524 and higher. For use with Deere SE,



SG, SJ, SK, SL & SL HL series pin-on buckets and 410E, G, J, K, and L series pin-on buckets.  
Not for use with top hook buckets. Reference bulletins 17BH09 and 16BH17 for bucket compatibility and SSM information.

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7715	Rear Spring Type Quick Coupler - Less Thumb	US\$4,148.00
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If ordering coupler with thumb, requires code 7716.  
For use with Deere SE, SG, SJ, SK, SL & SL HL series pin-on buckets and 410E, G, J, K, and L series pin-on buckets. Not for use with top hook buckets. Reference bulletin 17BH09 for bucket compatibility information.

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7716	Rear Spring Type Quick Coupler - 42 in. Thumb Ready	US\$4,148.00
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Includes factory installed thumb cylinder mounting ears installed onto dipper.  
If factory installed thumb option required, order code 8027 - 42 inch tine.  
For use with Deere SE, SG, SJ, SK, SL & SL HL series pin-on buckets and 410E, G, J, K, and L series pin-on buckets. Not for use with top hook buckets. Reference bulletin 17BH09 for bucket compatibility information.

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#### Loader Buckets

7853	86 in. (2.18 m.) General Purpose Bucket, 1.13 cu. yd. (0.86 cu. m.)	US\$4,745.00
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Pin-on bucket includes reversible bolt-on cutting edge and skid plates

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7870	86 in. (2.18 m.) General Purpose Bucket, 1.31 cu. yd. (1.00 cu. m.)	US\$4,774.00
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Pin-on bucket includes reversible bolt-on cutting edge and skid plates

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7859	92 in. (2.35 m.) General Purpose Bucket, 1.39 cu. yd. (1.06 cu. m.)	US\$5,484.00
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Pin-on bucket includes reversible bolt-on cutting edge and skid plates

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7861	92 in. (2.35 m.) Multi-Purpose Bucket, 1.31 cu. yd. (1.00 cu. m.)	US\$12,770.00
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Pin-on bucket includes reversible bolt-on cutting edges and skid plates. Requires third function hydraulics.  
Pre-drilled for 8 teeth

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7862	92 in. (2.35 m.) Multi-Purpose Bucket, 1.23 cu. yd. (0.94 cu. m.) Capacity, Flip-over Fork Ready	US\$10,781.00
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Pin-on bucket includes welded-in front cutting edge, skid plates, and 8 bolt-on teeth. Requires third function

hydraulics. Requires field kit AT366494 for flip over forks.

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785F	Custom Code - 92 in. (2.35 m.) Multi-Purpose Bucket, 1.31 cu. yd. (1.0 cu. m.) Capacity, Flip-over Fork Ready	US\$11,099.00
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Pin-on bucket includes reversible bolt-on cutting edges and skid plates. Requires third function hydraulics. Requires field kit AT366494 for flip over forks. Pre-drilled for 8 teeth

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7860	92 in. (2.35 m.) General Purpose Coupler Bucket, 1.39 cu. yd. (1.06 cu. m.)	US\$5,938.00
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Coupler bucket includes reversible bolt-on cutting edge and skid plates. Requires loader coupler.

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7863	92 in. (2.35 m.) Multi-Purpose Coupler Bucket, 1.31 cu. yd. (1.00 cu. m.)	US\$11,530.00
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Requires code 7041.

Coupler bucket includes reversible bolt-on cutting edges and skid plates. Requires third function hydraulics. Pre-drilled for 8 teeth - order teeth from parts.

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786A	Custom Code - 86 in. (2.18 m.) General Purpose Coupler Bucket, 1.12 cu. yd. (0.86 cu. m.)	US\$5,538.00
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Coupler bucket includes reversible bolt-on cutting edge and skid plates. Requires loader coupler.

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7850	Less Loader Bucket with Pins for Buckets or Front Attachments	No Added Cost
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Old style pins will be necessary with older buckets and attachments.

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7851	Less Coupler Bucket	No Added Cost
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### Basic Factory Options - Optional

#### Operator's Station-Order As Desired

8030	Fire Extinguisher Bracket	US\$111.00
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Allows for securely mounting a multi-purpose (ABC) Dry Chemical Fire Extinguisher within the cab.

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8096	Premium Mirrors - Exterior Rear View Mirrors (2) and Front View Mirror (1)	US\$203.00
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8109	Flip-down Front Sun Visor	US\$104.00
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Engine - Order As Desired

8089	Engine Coolant Heater	US\$188.00
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110 Volt (1000 Watts). Requires Dual Batteries code 6155.

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8213	Chrome Exhaust Extension	US\$319.00
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Oil Sampling Ports - Order As Desired

8075	Diagnostic Oil Sampling Ports	US\$499.00
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Includes 4 ports:  
Engine oil  
Engine coolant  
Transmission oil  
Hydraulic oil

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Lighting - Order as Desired

8226	LED 4-Corner Beacon Lights	US\$644.00
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Four-corner, low profile LED beacon system brings greater awareness of the machine operating on the jobsite.

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Stabilizers - Order As Desired

8296	Standard (Reduced Length) Stabilizer Legs	No Added Cost
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Requires option code 6752.  
Shortened length stabilizer legs to minimize machine footprint when deployed.  
Stabilizer overall width, operating: 11 ft. 7 in. (3.53 m.)



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8031	Stabilizer Position Warning System with Transport Locks	US\$2,669.00
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Provides the operator with an audio and visual alert when the transmission is engaged while stabilizers are deployed. Sensors are utilized to determine the position of both stabilizer cylinders for added system robustness and accuracy. Also includes manual stabilizer lock-outs to quickly secure during transport or to eliminate cylinder rod drift during extended machine storage.

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Hydraulics/Controls - Order as desired

8125	Heavy-Duty Backhoe Bucket Cylinder	US\$299.00
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Increases backhoe bucket breakout force by 27%.

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8165	Auto Ride Control	US\$2,557.00
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8135	Hydrau XR - Synthetic Hydraulic Fluid	US\$399.00
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Intended for colder climates with extreme cold ambient temperatures down to -40C (-40F). Provides all-season capability in ambient temperatures ranging from -40C to 40C (-40F to 104F).

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80A3	Custom Code - Accu-Swing	US\$807.00
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Swing cushioning valve to help reduce rear boom wag. Provides operators more precise control when returning to trench.

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Implements/Attachments - Order As Desired

8025	Thumb - 37 in. 4 Tine	US\$7,043.00
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Reference thumb compatibility matrix link in resources section of sales manual for use with couplers and buckets, and to determine necessary thumb length. Requires two-way auxiliary hydraulics, code 7002 or 7004. It does include plumbing for two-way auxiliary valve.

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8027	Thumb - 42 in. 4 Tine	US\$7,043.00
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Reference thumb compatibility matrix link in resources section of sales manual for use with couplers and buckets, and to determine necessary thumb length. Requires two-way auxiliary hydraulics, code 7002 or 7004. It does include plumbing for two-way auxiliary valve.

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#### Miscellaneous - Order As Desired

8101	Finish Paint - Decals Not Installed	US\$180.00
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8039	Non-Export Rust Preventive Coating	US\$188.00
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Coating protects exposed unpainted surfaces from road salt during shipment.

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#### Field Installed Attachments - Optional

##### Engine

BYT11589	Fluid Sampling Ports	US\$498.00
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BYT13825	Environmental Drain Kit	US\$439.00
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BYT11568	Engine Air Intake, Debris Scavenging System	US\$1,183.00
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##### Lighting

BYT13521	LED Beacon Light Kit	US\$267.00
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BYT13516	Boom Light Kit	US\$209.00
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BYT13515	LED Flood Light Kit	US\$223.00
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BYT13709	Roof Mounted Bracket for Beacon Warning Light	US\$189.00
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**Miscellaneous**

BYT10312	Stop Kit, Field Kit - Pilot Tower Stow	US\$26.00
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BYT10330	Rear Wiring Harness for Hammer, Auto Greaser	US\$232.00
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BYT13710	Mounting kit for multi-purpose (ABC) Dry Chemical Fire Extinguisher	US\$89.00
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**G.R.Mfg.**

BYT13597	Guard, Transmission Bottom	US\$2,460.00
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**Guards**

BYT13626	Stabilizer Cylinder Guards (Set of Two)	US\$385.00
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AT371257	MFWD Wheel Fender Kit for 18 in. tires only	US\$759.00
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AT438402	KIT, FULL MFWD GUARD	US\$423.00
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AT333753	Backhoe Boom Protection Plate	US\$608.00
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AT434236	Rubber Bumper for Grille Frame	US\$248.00
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BYT11926	Heavy-Duty Grille Screen Kit	US\$765.00
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	Hydraulics	
AT431340	Accu-Swing Kit for Backhoe	US\$517.00
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AT450466	Auxiliary Backhoe Hydraulics for Auger, Extendible Dipperstick	US\$384.00
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AT455624	Sixth Function Manual Valve Kit (2 way flow for thumb swinger or grapple)	US\$1,270.00
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AT456673	Auxiliary Plumbing for Selective Flow - Extendible Dipperstick	US\$687.00
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BYT11018	Auxiliary Backhoe Hydraulic Plumbing Kit, Two-Way Proportional Flow - Extendable Dipperstick	US\$688.00
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BYT11014	Auxiliary Backhoe Hydraulic Plumbing Kit, Two-Way Proportional Flow - Standard Dipperstick	US\$688.00
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BYT11011	Hydraulic Plumbing, Bulk Head to Deere Thumb Cylinder - Extendable Dipperstick	US\$115.00
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BYT11010	Hydraulic Plumbing, Bulk Head to Deere Thumb Cylinder - Standard Dipperstick	US\$128.00
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BYT11691	Auxiliary Plumbing for Selective Flow - Standard Dipperstick	US\$610.00

BYT11692	Auxiliary Plumbing for Selective Flow - Extendible Dipperstick	US\$687.00
BYT11693	Auxiliary Backhoe Hydraulic Plumbing Kit, Two-Way Proportional Flow - Standard Dipperstick	US\$834.00
BYT11694	Auxiliary Backhoe Hydraulic Plumbing Kit, Two-Way Proportional Flow - Extendable Dipperstick	US\$870.00
BYT13697	Hand Held Hydraulics	US\$464.00
BYT13684	Auxiliary Loader Control Valve with 3 Function Hydraulics - Single Lever	US\$4,966.00
BYT13689	Sixth Function Valve Kit (2 way flow for thumb swinger or grapple)	US\$3,048.00
BYT13685	Selective Flow Control Kit (1 way flow for use with hammer or compactor)	US\$1,902.00
BYT13699	Loader Coupler, Hydraulic	US\$8,904.00
BYT12205	Auxiliary Backhoe Hydraulic Selective Flow Plumbing Kit - Standard Dipperstick	US\$610.00

BYT11079	Auxiliary Hydraulics Bulkhead - Bucket Cylinder Mounted for 1-way Select Flow	US\$216.00
BYT13224	CLLD Kit, Backhoe Loader Boom and Bucket	US\$3,398.00
Loader Buckets		
AT336927	Loader Coupler Attachment Adapter Hook Plates (2) Standard	US\$2,128.00
AT308071	86 in (2.18 m) General Purpose Bucket, 1.13 cu. yd. (0.86 cu. m.)	US\$4,058.00
AT308970	86 in (2.18 m) General Purpose Coupler Bucket, 1.13 cu. yd. (0.86 cu. m.)	US\$4,557.00
BYT12306	86 in (2.18 m) General Purpose Bucket, 1.31 cu. yd. (1.00 cu. m.)	US\$4,246.00
BYT10700	82 in (2.08 m) Multi-Purpose Bucket, 1.15 cu. yd. (0.88 cu. m.)	US\$8,815.00
BYT10701	86 in (2.18 m) Multi-Purpose Bucket, 1.22 cu. yd. (0.93 cu. m.)	US\$9,546.00
AT308966	92 in (2.35 m) General Purpose Coupler Bucket, 1.39 cu. yd. (1.06 cu. m.)	US\$5,079.00
BYT10707	86 in (2.18 m) Multi-Purpose Coupler Bucket, 1.22 cu. yd. (0.93 cu. m.)	US\$9,882.00



AT308080	92 in (2.35 m) General Purpose Bucket, 1.39 cu. yd. (1.06 cu. m.)	US\$4,689.00
BYT10705	92 in (2.35 m) Multi-Purpose Bucket, 1.23 cu. yd. (0.94 cu. m.) Capacity, Flip-over Fork Ready	US\$10,189.00
BYT10703	92 in (2.35 m) Multi-Purpose Bucket, 1.31 cu. yd. (1.00 cu. m.)	US\$9,611.00
AT308968	86 in (2.18 m) General Purpose Coupler Bucket, 1.26 cu. yd. (0.96 cu. m.)	US\$4,291.00
BYT10708	92 in (2.35 m) Multi-Purpose Coupler Bucket, 1.31 cu. yd. (1.00 cu. m.)	US\$10,255.00
AT308188	82 in (2.08 m) General Purpose Bucket, 1.20 cu. yd. (0.92 cu. m.)	US\$3,681.00
Loader Controls		
BYT11542	Multi-Purpose Bucket Anti-Drift Valve Kit	US\$1,050.00
BYT13695	Ride Control Plumbing Kit	US\$780.00
BYT13694	Auto Ride Control Valve Kit	US\$739.00

#### Stabilizer Legs

AT376409	Standard Stabilizer Street Pads	US\$234.00
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AT376410	Heavy Duty Stabilizer Pads	US\$490.00
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#### Backhoe Controls

AT301434	SAE Excavator Style Two Lever Controls	US\$260.00
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BYT13686	ISO (Deere) Two Lever Mechanical Controls	US\$759.00
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BYT13691	Sixth Function Pedal for Lever Controls	US\$399.00
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BYT13687	Ford Four Lever Controls for Standard and Extendible Dipperstick	US\$3,088.00
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AT309740	Case Three Lever Controls 5th Function Lever Kit	US\$322.00
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#### Attachments & Accessories

AT366494	Multi-Purpose Flip-Over Forks	US\$5,127.00
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BYT10287	42 Inch Hydraulic Backhoe Thumb - 4 Tine	US\$6,529.00
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BYT10285	37 Inch Hydraulic Backhoe Thumb - 4 Tine	US\$6,529.00
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AT308139	Forks, Pallet (2) 60 in.(1.52m) with 60 in. (1.52m) Coupler Fork Carriage	US\$5,853.00
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AT308138	Forks, Pallet (2) 48 in.(1.22m) with 60 in. (1.52m) Coupler Fork Carriage	US\$5,500.00
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#### Backhoe Quick Couplers

AT336316	Coupler, Deere Backhoe Bucket	US\$1,947.00
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BYT13823	Coupler, Rear Hydraulic Kit	US\$2,271.00
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AT393558	Backhoe New Series Multi-Brand Quick Coupler	US\$2,358.00
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AT324292	Coupler, Top Hook Backhoe Bucket	US\$1,306.00
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AT343629	Coupler, Universal - Pin-grabber style (non-hydraulic)	US\$7,516.00
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BYT10333	Coupler, Rear Spring Type Quick Coupler	US\$5,103.00
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AT336315	Coupler, Multi-Brand Universal Backhoe Bucket	US\$2,358.00
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BYT10288	Coupler, Rear Hydraulic for Pin-On Buckets, Standard Dipperstick	US\$9,552.00
BYT10289	Coupler, Rear Hydraulic for Pin-on Buckets, Extendable Dipperstick	US\$9,552.00
Backhoe Buckets		
AT437338	12 in (309 mm) Heavy Duty Bucket, 3.1 cu. ft. (0.09 cu. m.)	US\$1,688.00
AT437343	24 in (611 mm) Heavy Duty Bucket, 6.9 cu. ft. (0.20 cu. m.)	US\$2,177.00
AT437342	24 in (611 mm) Standard Duty Bucket, 6.9 cu. ft. (0.20 cu. m.)	US\$2,017.00
AT436333	36 in (919 mm) Heavy Duty Bucket, 10.9 cu. ft. (0.31 cu. m.)	US\$3,336.00
AT437700	18 in (457 mm) Severe Duty Bucket, 4.9 cu. ft. (0.14 cu. m.)	US\$2,286.00
AT437701	24 in (611 mm) Severe Duty Bucket, 6.9 cu. ft. (0.20 cu. m.)	US\$2,654.00
AT437702	24 in (611 mm) Severe Duty Bucket, 8.1 cu. ft. (0.23 cu. m.)	US\$2,740.00
AT437703	30 in (765 mm) Severe Duty Bucket, 8.9 cu. ft. (0.25 cu. m.)	US\$2,907.00

AT437361	12 in (304 mm) Top Hook Heavy Duty Bucket, 3.0 cu. ft. (0.09 cu. m.)	US\$1,866.00
AT437362	18 in (460 mm) Top Hook Heavy Duty Bucket, 5.3 cu. ft. (0.15 cu. m.)	US\$2,228.00
AT437363	24 in (610 mm) Top Hook Heavy Duty Bucket, 7.4 cu. ft. (0.21 cu. m.)	US\$2,529.00
AT437340	18 in. (457 mm) Heavy Duty Bucket, 4.9 c. ft. (0.14 c. m.)	US\$1,926.00
AT437344	24 in. (611 mm) Heavy Duty Bucket, 8.1 c. ft. (0.23 c. m.)	US\$2,341.00
AT437345	30 in. (765 mm) Heavy Duty Bucket, 8.9 c. ft. (0.25 c. m.)	US\$2,448.00
AT437616	36 in. (919 mm) Ditching Bucket, Standard Duty, 10.9 c. ft. (0.31 c. m.)	US\$2,190.00
Operator's Station		
BYT13705	(2) External Rear View Mirrors	US\$179.00
BYT13706	Slow Moving Vehicle Emblem	US\$115.00
BYT13707	Sun Visor	US\$96.00

BYT13711	License Plate Bracket	US\$59.00
BYT13714	Canopy (ROPS/FOPS) to Quarter Cab Conversion Kit	US\$899.00
BYT13716	Mechanical to Air Seat Conversion	US\$2,099.00
BYT13708	License Plate Bracket and Light	US\$155.00
BYT13718	Tilt Steering Kit	US\$339.00
BYT13719	Interior Front View Mirror	US\$89.00
BYT13717	Sun Shade	US\$159.00
BYT14198	Mechanical to Air Seat Conversion, Vinyl Covering	US\$2,099.00
BYT13715	Mechanical to Premium Air Seat Conversion, Heated and Vented	US\$3,999.00
AT192032	Operator Manual Tether Cables for ROPS or Cab	US\$29.00



BYT13712	Basic Package Radio	US\$739.00
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BYT13713	Premium Package Radio	US\$1,099.00
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Counterweight		
BYT10255	Counterweight, Front, 1,000 lbs (454 kg)	US\$1,683.00
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BYT10256	Counterweight, Front, 1,250 lbs (567 kg)	US\$2,176.00
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BYT10251	Counterweight, Front, 450 lbs (204 kg)	US\$821.00
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BYT10254	Counterweight, Front, 750 lbs (340 kg)	US\$1,334.00
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Wheels and Tires		
AT347522	Rear Wheel Spacers for Rear Tire Chains	US\$1,190.00
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Manufacturer's Suggested List Price shown. Retail prices may vary by dealer. Unless stated otherwise, taxes, freight, setup, delivery and other dealer specific charges not included in the pricing. Options/items noted with anything other than price will have additional costs. Pricing, availability, and specifications subject to change without notice. Special program pricing may be available on certain models. See dealer for details. Prices are shown in USD unless otherwise noted.





## STANDARD WARRANTY FOR NEW JOHN DEERE CONSTRUCTION, COMPACT CONSTRUCTION (CCE), FORESTRY AND UTILITY PRODUCTS US & CANADA

- **Construction & Forestry Products:** 12 months/unlimited hours (whichever occurs first) Full Machine Standard Warranty
- **Compact Construction Equipment (CCE) Products:** 24 months or 2000 hours (whichever occurs first) Full Machine Standard Warranty
- **C&E Series Pull-Type Scrapers:** 6 months Full Machine Standard Warranty
- **DC & DE Pull-Type Scrapers:** (Model year 2024 and newer) 12 months Full Machine Standard Warranty; 36 months or 10,000 hours (whichever comes first) StructurALL Warranty
- **Scraper Tractors:** 24 Months or 2000 Hours (whichever occurs first) Full Machine Standard Warranty
- **Forestry Attachments:** 12 Months or 2000 Hours (whichever occurs first) Full Machine Standard Warranty

The "Standard Warranty" is part of the warranty protection package available from John Deere Construction & Forestry Company (John Deere Limited in Canada) ("John Deere") to purchasers of new John Deere products ("product"):

**STANDARD Warranty** is John Deere's standard new product warranty, described in this document, provided at no additional charge to the purchaser.

**EXTENDED Warranty** is a separate repair contract made available by John Deere for purchasers who wish to complement their Standard Warranty coverage. Complete Extended Warranty details, including coverage options and limitations, are set forth in the Application for Extended Warranty, which is available from authorized John Deere dealers.

**STRUCTURALL Warranty** applies to certain structural components as listed below and as described in this document.

**FACTORY-INSTALLED UNDERCARRIAGE Warranty** applies to certain undercarriage components as listed below and as described in this document.

### A. STANDARD WARRANTY - GENERAL PROVISIONS

John Deere will repair or replace, at its option, any parts (except those specified below) of a new John Deere product that, as delivered to the original retail purchaser(s), are defective in material or workmanship. Performance of this warranty will be free of charge for parts and labor, except as otherwise stated below. Standard Warranty applies only to purchases from John Deere and authorized John Deere dealers and, except as otherwise provided in the next sentence and section L below, is extended only to the original retail purchaser of the product. Remaining Standard Warranty applicable to a used John Deere product is transferred to a subsequent purchaser of the product only if the subsequent purchaser requests a transfer from an authorized John Deere dealer before the product's Standard Warranty expires. Coverage begins on the date of delivery of the product to the original retail purchaser. For purposes of this warranty, a product that has been rented, used for demonstration purposes for 150 or more hours, or otherwise used prior to its original retail purchase has been "used" for the total duration of such use. Warranty statements required by law covering engine emissions-related parts and components are found on a separate written warranty certificate provided to the purchaser at the time of the original retail purchase.

### B. WHAT IS COVERED BY STANDARD WARRANTY

All parts of a new John Deere product (except those noted in Sections D and E below) are covered during the Standard Warranty period set out above.

### C. EXCLUSIVE REMEDY

The repair or replacement of covered parts or components that are defective, as provided in Sections A, B, D.2 and D.3 herein, shall be the purchaser's exclusive remedy for any defect in the product. However, if after repeated attempts such repair or replacement fails to correct the performance problem caused by the defect, the purchaser's sole remedy shall be a refund of the amount paid for the product (in exchange for a return of the product), excluding any transportation charges, license fees, taxes and insurance premiums, and less a reasonable allowance for use of



the product prior to its return. In no event will the dealer, John Deere or any company affiliated with John Deere be liable for any incidental or consequential damages, including but not limited to loss of profits, rental of substitute equipment or other commercial loss. Correction of defects in the manner provided above shall constitute fulfillment of all liabilities of the Dealer, John Deere, or any company affiliated with John Deere to the purchaser or any other person, whether based upon contract, tort, strict liability, or otherwise. This limitation does not apply to claims for personal injury.

#### A. ITEMS COVERED SEPARATELY -

1. Standard Warranty does not apply to batteries, radios, tires, cameras, or to Cummins, MTU or Detroit Diesel Engines installed in John Deere products, which are covered by separate written warranties.
2. Factory-Installed Undercarriage Warranty covers all non-rubberized factory-installed undercarriage wear components for 3 years or 4,000 hours from the date of delivery to the original retail purchaser, whichever occurs first (unless terminated earlier under Section F, below). For purposes of this warranty, a product that has been rented, used for demonstration purposes for 150 or more hours, or otherwise used prior to its original retail purchase has been "used" for the total duration of such use. In addition to the items listed in section E below, Factory-Installed Undercarriage Warranty does not cover: failures due to wear, machine application, maintenance practices, or improper machine configuration; removal and installation labor; transportation or hauling costs; unapproved parts; non-wear items; and rubberized undercarriage components such as rubber tracks. Warranty claims will be pro-rated based upon wear of the failed component and whether track shoe width is approved by John Deere. Factory-Installed Undercarriage Warranty does not apply to Scraper Tractors.
3. StructurALL Warranty for new John Deere Products (except Compact Excavators & Loaders, Skid-Steer Loaders, Compact Track Loaders, Scraper Tractors, Pull-Type Scrapers, and Forestry Attachments, which are not eligible for StructurALL Warranty) begins at the date of delivery to the original retail purchaser and ends (unless terminated earlier under Section F, below) after three (3) years, or 10,000 hours (whichever occurs first). For purposes of this warranty, a product that has been rented, used for demonstration purposes for 150 or more hours, or otherwise used prior to its original retail purchase has been "used" for the total duration of such use. **StructurALL Warranty applies only to the following structural components listed below as installed on the product at the time of original manufacture. If a particular component is not listed below it is not covered by StructurALL Warranty.**

Arm; Articulation Joint (incl. pins & bushings); Bin Frame; Boom; Carbody; C-Frame\*; Circle Frame; Coupler (John Deere built ONLY); Dipperstick; Draft Frame; Engine Frame; Equipment Frame; Grapple Arch and Grapple Boom; Loader Arm; Loader Frame; Mainframe; Moldboard Lift Arm; NeverGrease™ Pin Joints [Includes steering pin and bushing joints (standard equipment), roller elements (roller bearings) in bucket to boom joints and sliding elements (bushing) for boom and linkage joints (optional equipment)]; Rollover Protection Structure (ROPS); Side Frame; Swing Frame; Track Frame; Undercarriage Frame; X-Frame; Z-bar loader linkage (including bell crank and bucket driver link); Specialty booms and arms marketed as "heavy duty" by John Deere.

*Items Covered by StructurALL for Cut-to-Length Forestry Machines:* Front frame (welded assembly); Rear frame (welded assembly); Crane king post with basement; Middle joint frame; Cabin swing frame; Main Boom

StructurALL Warranty does not apply to:

1. Any product used primarily in extreme duty or severe duty applications such as but not limited to: demolition and wrecking, chemical plant (including fertilizer plants), salt mines, steel mill, land fill and transfer stations, scrap handling, scarifying and other applications that are similarly destructive or similarly heavy duty except specialty booms and arms as stated in Section D.3 above.
2. C-Frames on Crawlers equipped with root rakes or used in forestry applications unless equipped with an "extreme duty" reinforcement package.
3. Cut-to-Length Forestry Heads and Slash Bundler Units.
4. Crawlers equipped with optional side booms.
5. Cut-to-Length Forestry, Excavator, and Log Loader swing bearings.
6. Motor Graders equipped with front- or rear-mounted snow wings.



## **A. ITEMS NOT COVERED -**

John Deere is NOT responsible for the following:

1. Freight.
2. Adjustments to compensate for wear, for periodic maintenance or adjustments that result from normal wear and tear.
3. Damage caused by unapproved adjustments (electronic or mechanical) to machine or machine components outside of published specifications including but not limited to engine, hydraulic components and relief valves.
4. Program updates, calibrations, and pressure adjustments.
5. Additional Labor Time - Above Dealer Labor Rate.
6. Additional Cleaning - Above Dealer Labor Rate.
7. Rental Fees.
8. Depreciation or damage caused by normal wear or application, lack of reasonable and proper maintenance, failure to follow operating instructions, misuse, lack of proper protection during storage, vandalism, negligence, collision, expenses to seek reinstatement of warranty following theft or loss of Product, or other accidents.
9. Premiums charged for Overtime Labor.
10. Transportation to and from the dealership.
11. Travel time, mileage, or service calls by the dealer.
12. Non-John Deere components or modifications, Rotobec grapples, and attachments installed aftermarket.
13. Shop supplies and maintenance items such as, but not limited to: filters, fuels, oil, hydraulic fluid, lubricants, coolants, conditioners, shop towels, cleaners and degreasers.
14. Torn, cut, or worn hoses.
15. Wear items, such as, but not limited to: body liner, belts, blades, bulbs, lubricated joints (including pins and bushings), dry brakes, brake linings, dry clutch linings, saw blades, chains, skidder grapple shocks, color marking nozzles, and articulation bumpers.
16. Items such as cutting-edge parts, delimbing knives, bucket teeth and rubber track are not warranted for depreciation or damage caused by normal wear, lack of proper maintenance, misuse, failure to follow operating instructions, the elements or accident.
17. Any defect in a non-covered component, or damage to or failure of a covered component caused by a defect in a non-covered component.
18. Secondary damage which occurs from continued operation of a product after recognition of the occurrence of a failure.
19. Parts supplied by or repairs, maintenance or modifications performed by someone other than an authorized John Deere dealer, including any damage caused by such use of parts, repairs, maintenance, or modifications not performed by an authorized John Deere dealer.
20. The use of "track type" tire chains on Feller Bunchers and Skidders is an unapproved modification. Warranty will be void on these machines using "track type" tire chains.
21. Topping off fluids when fluid levels fall in the range between low and full
22. Parts/Kits not ordered on machine and installed aftermarket. These parts will be covered by any applicable parts warranty.
23. Attachments installed aftermarket – i.e., Winch not installed at factory.
24. Custom options installed outside the factory – i.e., G.R. Manufacturing option packages.
25. Used Products (except as otherwise provided in section L below).
26. Lost or stolen Products.

## **B. TERMINATION OF WARRANTY-**

John Deere is relieved of its obligations under Standard Warranty, StructurALL Warranty, Factory-Installed Undercarriage Warranty and/or Extended Warranty if:

1. The product is modified or altered in ways not approved by John Deere; or
2. Any unapproved or improperly sized attachment is installed on the product. Approval and attachment size shall be at John Deere's sole discretion. (Consult dealer prior to installing attachments or product modification).
3. The product is moved outside the US and/or Canada.



**A. PARTS REPLACED UNDER WARRANTY -**

Only new or remanufactured parts or components furnished or approved by John Deere, will be used if John Deere elects to repair the product. If any such part or component is defective in material or workmanship when installed in the product, John Deere will repair or replace, as it elects, such defective part or component, provided the defect is reported to an authorized John Deere dealer within 90 days of installation or before expiration of the applicable Standard Warranty, Factory-Installed Undercarriage Warranty and/or StructurALL Warranty whichever is later.

**B. TELEMATICS**

*NOTICE: Products may be equipped with telematics hardware and software ("Telematics") that transmit data to John Deere/ Dealer. Purchaser may deactivate Telematics at [www.jdlink.com](http://www.jdlink.com).*

Notwithstanding Purchaser's right, title or interest in the Products, Purchaser agrees that John Deere and Dealer (their affiliates, successors and assigns), without further notice to Purchaser have the right to:

1. Access, use, collect and disclose any data generated by, collected by, or stored in, Products or any hardware or devices interfacing with Products ("Machine Data");
2. Access Machine Data directly through data reporting devices integrated within, or attached to, Products, including Telematics ("Data Reporting Systems"); and
3. Update the Data Reporting Systems software from time to time. Machine Data will only be used in accordance with John Deere's Machine Data Policy, located at [www.JohnDeere.com/MachineDataPolicy](http://www.JohnDeere.com/MachineDataPolicy).

**C. OBTAINING WARRANTY SERVICE -**

To obtain warranty service, the purchaser must request warranty service from a John Deere dealer authorized to sell the product to be serviced. When making such a request, the purchaser must present evidence of the product's delivery date, make the product available at the dealer's place of business, and inform the dealer in what way the purchaser believes the product to be defective. Standard Warranty, Factory-Installed Undercarriage Warranty and/or StructurALL Warranty repairs may be made in the field if the purchaser and servicing dealer so desire. However, John Deere will not be responsible for any charges (such as dealer travel time, mileage or extra labor) that would not have been incurred had the product been repaired at the dealer's place of business.

**D. NO IMPLIED WARRANTY, CONDITIONS OR OTHER REPRESENTATION -**

Where permitted by law, neither John Deere nor any company affiliated with it makes any warranties, representations, conditions or promises, express or implied, as to the quality, performance, or freedom from defect of its products, other than those set forth in this document and **NO IMPLIED WARRANTY OF MERCHANTABILITY, CONDITIONS OR FITNESS IS MADE.**

**E. NO DEALER WARRANTY -**

The selling dealer makes no warranty of its own on any item covered by this warranty and makes no warranty on other items unless the dealer delivers to the purchaser a separate written warranty certificate specifically warranting the item. The dealer has no authority to make any representation or promise on behalf of John Deere, or to modify the terms or limitations of this warranty in any way.

**F. USED JOHN DEERE PRODUCTS ONLY -**

John Deere will transfer remaining Standard Warranty, Factory-Installed Undercarriage Warranty and/or StructurALL Warranty to the purchaser of a used John Deere construction and/or forestry product that has been used for less than the full warranty period provided at the product's original retail purchase. This transfer is not effective until change of ownership is registered by a John Deere dealer. **ALL THE TERMS, INCLUDING LIMITATIONS AND EXCLUSIONS, OF THE JOHN DEERE STANDARD WARRANTY, FACTORY-INSTALLED UNDERCARRIAGE WARRANTY, AND/OR STRUCTURALL WARRANTY ORIGINALLY PROVIDED FOR THE PRODUCT REMAIN IN EFFECT AND APPLICABLE.**





Company ID Number: 513478

## THE E-VERIFY PROGRAM FOR EMPLOYMENT VERIFICATION MEMORANDUM OF UNDERSTANDING

### ARTICLE I

#### PURPOSE AND AUTHORITY

This Memorandum of Understanding (MOU) sets forth the points of agreement between the Department of Homeland Security (DHS) and Warrior Tractor & Equipment Co., Inc. (Employer) regarding the Employer's participation in the Employment Eligibility Verification Program (E-Verify). This MOU explains certain features of the E-Verify program and enumerates specific responsibilities of DHS, the Social Security Administration (SSA), and the Employer. E-Verify is a program that electronically confirms an employee's eligibility to work in the United States after completion of the Employment Eligibility Verification Form (Form I-9). For covered government contractors, E-Verify is used to verify the employment eligibility of all newly hired employees and all existing employees assigned to Federal contracts or to verify the entire workforce if the contractor so chooses.

Authority for the E-Verify program is found in Title IV, Subtitle A, of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (IIRIRA), Pub. L. 104-208, 110 Stat. 3009, as amended (8 U.S.C. § 1324a note). Authority for use of the E-Verify program by Federal contractors and subcontractors covered by the terms of Subpart 22.18, "Employment Eligibility Verification", of the Federal Acquisition Regulation (FAR) (hereinafter referred to in this MOU as a "Federal contractor with the FAR E-Verify clause") to verify the employment eligibility of certain employees working on Federal contracts is also found in Subpart 22.18 and in Executive Order 12989, as amended.

### ARTICLE II

#### FUNCTIONS TO BE PERFORMED

##### A. RESPONSIBILITIES OF SSA

1. SSA agrees to provide the Employer with available information that allows the Employer to confirm the accuracy of Social Security Numbers provided by all employees verified under this MOU and the employment authorization of U.S. citizens.
2. SSA agrees to provide to the Employer appropriate assistance with operational problems that may arise during the Employer's participation in the E-Verify program. SSA agrees to provide the Employer with names, titles, addresses, and telephone numbers of SSA representatives to be contacted during the E-Verify process.
3. SSA agrees to safeguard the information provided by the Employer through the E-Verify program procedures, and to limit access to such information, as is appropriate by law, to individuals responsible for the verification of Social Security Numbers and for evaluation of the E-Verify program or such other persons or entities who may be authorized by SSA as governed





Company ID Number: 513478

To be accepted as a participant in E-Verify, you should only sign the Employer's Section of the signature page. If you have any questions, contact E-Verify at 888-464-4218.

**Employer Warrior Tractor & Equipment Co., Inc.**

**Stanley McCracken**

Name (Please Type or Print)

Title

**Electronically Signed**

**03/01/2012**

Signature

Date

**Department of Homeland Security – Verification Division**

**USCIS Verification Division**

Name (Please Type or Print)

Title

**Electronically Signed**

**03/01/2012**

Signature

Date

**Information Required for the E-Verify Program**

**Information relating to your Company:**

Company Name:	Warrior Tractor & Equipment Co., Inc.
Company Facility Address:	6801 McFarland Blvd
	Northport, AL 35476
Company Alternate Address:	P O Box 412
	Northport, AL 35476
County or Parish:	TUSCALOOSA
Employer Identification Number:	630588737



**Company ID Number: 513478**

North American Industry Classification Systems Code:	423
Administrator:	Warrior Tractor and Equipment Co., Inc.
Number of Employees:	100 to 499
Number of Sites Verified for:	1
<b>Are you verifying for more than 1 site? If yes, please provide the number of sites verified for in each State:</b>	
<ul style="list-style-type: none"><li>ALABAMA 1 site(s)</li></ul>	

**Information relating to the Program Administrator(s) for your Company on policy questions or operational problems:**

Name:	Stanley N McCracken		
Telephone Number:	(205) 339 - 0300	Fax Number:	(205) 333 - 0101
E-mail Address:	wte024@warriortractor.com		



# 320 P

## Backhoe Loader



JOHN DEERE







## ***READY TO RUN IN THE REAL WORLD***

When owners and operators just like you — the people who know what customers need for their operations to succeed — weighed in on our latest backhoe loaders, we heeded the real-world feedback. You asked for one machine that capably completes the work of two. A powerful overachiever with outstanding loader performance, backhoe capability, and multifunction versatility. And packed with productivity-elevating options including Heavy Lift (HL) to match the application. Meet the 320 P-Tier Backhoe Loader, a standout multitasker ready to run — and get more done — in any corner of the working world.



### Powerful engine technology

Rugged EPA Final Tier 4 (FT4)/EU Stage IV John Deere PowerTech EWL engine boosts power, torque, and reliability compared to previous models. Simple two-valve cylinder-head, wet-sleeve design with replaceable cylinder liners provides uniform cooling and aids in reducing oil breakdown and ring wear. Filters have been redesigned and relocated for easier servicing over earlier models.

### Elevated experience

Pressure-compensated, load-sensing (PCLS) hydraulics provide excellent multi-functioning, smooth machine control, and up to 15-percent greater craning capacity with Lift Mode, collectively providing a distinctive operator experience and unmatched machine performance. Trenching operation can be conducted at a lower engine rpm, reducing fuel consumption and jobsite noise.

### Forward thinking

When enabled on the sealed-switch module, AutoShift automatically shifts the PowerShift™ transmission to the appropriate gear. Simply set the control lever to the highest gear desired, and the transmission will optimally shift based on engine rpm and ground speed. Included in the base machine configuration, AutoShift enhances operator ease of use during extended transport or load-and-carry applications.

### Always on the move

Limited-slip mechanical-front-wheel drive (MFWD) delivers sure-footed traction in any ground condition. Engage momentary MFWD "on the fly" with a touch of a button on the loader control.

### Do some heavy lifting

New Heavy Lift (HL) option includes larger rear structures and hydraulic cylinders that increase lifting capacities and breakout forces up to 25 percent.



**POWERTECH™ EWL ENGINE**  
FEATURES RELOCATED FILTERS  
FOR EASY SERVICE ACCESS



### **Control the ride and the load**

Auto ride control eliminates the need to manually turn the feature on and off during load-and-carry applications, enhancing the operator's ease of use. When activated, front loader cylinders function as a shock absorber, smoothing the ride over rough terrain and reducing material spillage. On/Off functionality is controlled by ground speed and can be adjusted by the operator in the cab's display monitor.

### **Save fuel with economy mode**

Standard economy mode can be configured separately between loader and backhoe functions. Activate economy mode for backhoe functions while retaining full power for loader functions. This helps maximize fuel usage in lighter-work applications with minimal effect on machine performance.

### **It all looks good from here**

Spacious operator station is loaded with creature comforts including an efficient HVAC system, choice of adjustable mechanical or air-suspension seat, and optional premium radio with Bluetooth® and auxiliary input. Sightlines to the loader bucket corners over the sloped hood are clear.

### **Take it easy**

Enhanced "palm-on-top" loader-control grip is intuitive and easy to use. Redesigned loader-lever linkage reduces resistance and improves its throw and feel, decreasing lever travel by up to 15 percent.

### **Hit the ground running**

Same-side ground-level service points speed daily checks and fills. Other commonsense features such as quick-change filters, extended service intervals, simple-to-read sight gauges, and easy-access grease zerks help increase uptime.





## 320 P-TIER BACKHOE LOADER



**AUTO RIDE CONTROL**  
IMPROVES THE RIDE &  
MATERIAL RETENTION

### Precision Construction

From grade management and obstacle detection to product automation features and jobsite intelligence, this suite of construction technology delivers productivity solutions to help you get more done, more efficiently.

John Deere construction equipment comes with in-base connectivity — free from subscriptions or annual renewals. Analyze critical machine data, track utilization, review diagnostic alerts, and more from **the John Deere Operations Center™**. The Operations Center also enables **John Deere Connected Support™**, which uses data from thousands of connected machines to proactively address issues before they arise. Your dealer can also remotely monitor machine health, diagnose problems, and even update machine software without a trip to the jobsite.\*

\*Availability varies by region and product. Options not available in every country.







While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Engine		320 P-TIER	
Manufacturer and Model		John Deere PowerTech™ EWL 4.5L turbocharged	
Non-Road Emission Standard		EPA Final Tier 4/EU Stage IV	
Displacement		4.5 L (276 cu. in.)	
Gross Peak Power		86 kW (115 hp) at 1,900 rpm	
Net Peak Power (ISO 9249)		84 kW (113 hp) at 1,900 rpm	
Net Peak Torque (ISO 9249)		459 Nm (339 lb.-ft.) at 1,600 rpm	
Net Torque Rise		30%	
Lubrication		Pressure system with spin-on filter and cooler	
Air Cleaner		Dual-stage dry type with safety element and evacuator valve	
Cooling			
Fan Type		Electronically controlled, variable-rate, suction-type cooling fan standard	
Engine Coolant Rating		-40 deg. C (-40 deg. F)	
Engine Oil Cooler		Oil to water	
Powertrain			
Transmission		5-speed, helical-cut gears, full PowerShift™ transmission with hydraulic reverser standard; electric clutch cutoff on loader lever; AutoShift transmission standard	
Torque Converter		Single stage, dual phase with 2.63:1 stall ratio, 280 mm (11 in.)	
PowerShift Standard Transmission			
Maximum Travel Speeds With Standard Engine, With 19.5L-24 Rear Tires		<i>Forward</i>	<i>Reverse</i>
Gear 1		5.4 km/h (3.4 mph)	6.8 km/h (4.2 mph)
Gear 2		10.0 km/h (6.2 mph)	12.6 km/h (7.8 mph)
Gear 3		20.5 km/h (12.7 mph)	20.2 km/h (12.6 mph)
Gear 4		37.3 km/h (23.2 mph)	—
Gear 5		40.0 km/h (24.9 mph)	—
Axles			
Axle Oscillation, Stop to Stop, Front Axle		22 deg.	
Axle Ratings		<i>Front</i>	<i>Rear</i>
SAE J43		5500 kg (12,100 lb.)	7000 kg (15,400 lb.)
Dynamic		9000 kg (19,800 lb.)	10 000 kg (22,000 lb.)
Static		26 500 kg (58,400 lb.)	26 500 kg (58,400 lb.)
Ultimate		43 500 kg (95,900 lb.)	43 500 kg (95,900 lb.)
Differentials			
Mechanical-Front-Wheel-Drive (MFWD) Axle		Automatic, limited-slip traction control	
Rear Axle		Foot actuated, hydraulically engaged 100% mechanical lock	
Steering (ISO 5010)		Hydrostatic power steering and emergency steering	
Axle		<i>MFWD</i>	<i>Non-Powered Front</i>
Curb-Turning Radius			
With Brakes		3.52 m (11 ft. 7 in.)	3.45 m (11 ft. 4 in.)
Without Brakes		4.02 m (13 ft. 2 in.)	3.90 m (12 ft. 10 in.)
Bucket-Clearance Circle			
With Brakes		10.10 m (33 ft. 0 in.)	10.00 m (32 ft. 9 in.)
Without Brakes		10.80 m (35 ft. 6 in.)	10.70 m (35 ft. 0 in.)
Steering Wheel Turns (lock to lock)		2.6 to 3.6	3.1 to 4.3
MFWD Axle		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 (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			
Main Pump		Pressure compensated load sensing (PCLS), axial-piston pump	
Pump Flow at 2,200 rpm, Backhoe and Loader		163 L/m (43 gpm)	
System Relief Pressure			
Backhoe		24 993 kPa (3,625 psi)	
Lift Mode		27 579 kPa (4,000 psi)	
Loader		24 993 kPa (3,625 psi)	
Controls			
Backhoe		2-lever mechanical standard; pilot controls with pattern select with electrohydraulic (EH) auxiliary functions optional	
Loader		Single-lever control with electric clutch cutoff switch and MFWD (momentary) standard; single-lever control with electric clutch cutoff switch, EH proportional auxiliary roller, MFWD (momentary), and transmission quick-shift optional	



## 320 P-TIER BACKHOE LOADER SPECIFICATIONS

# 320

# P

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

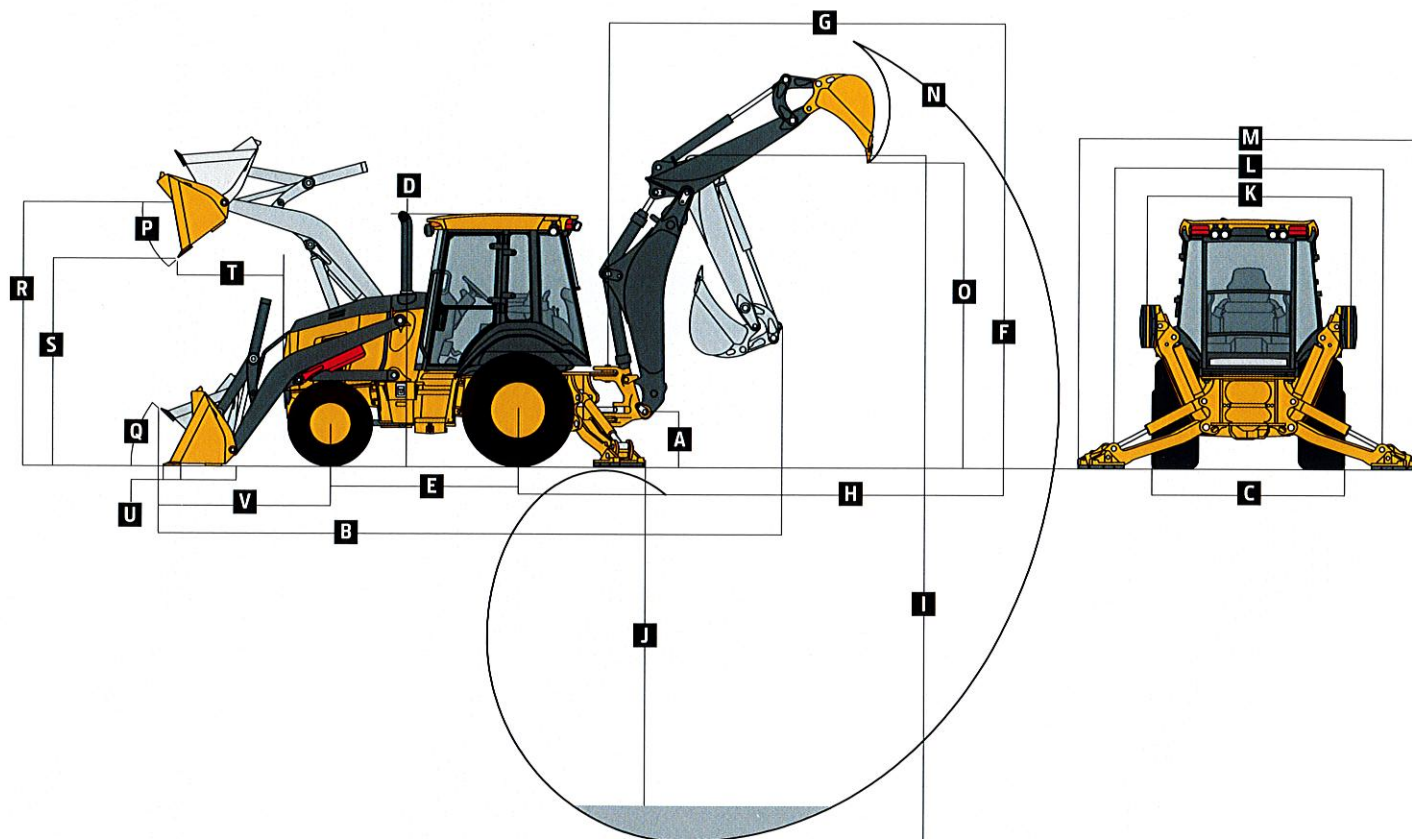
Cylinders		320 P-TIER	
Heat-treated, chrome-plated, polished rods; hardened steel (replaceable bushings) pivot pins			
	<i>Bore</i>	<i>Rod Diameter</i>	<i>Stroke</i>
Loader Boom (2)	80 mm (3.15 in.)	50 mm (1.97 in.)	789 mm (31.08 in.)
Loader Bucket (1)	90 mm (3.54 in.)	50 mm (1.97 in.)	744 mm (29.29 in.)
Backhoe Boom (1)	120 mm (4.72 in.)	56 mm (2.20 in.)	794 mm (31.26 in.)
Heavy-Lift (HL) Option	125 mm (4.92 in.)	63 mm (2.48 in.)	887 mm (34.92 in.)
Backhoe Crowd (1)	115 mm (4.53 in.)	63 mm (2.48 in.)	602.5 mm (23.72 in.)
HL Option	120 mm (4.72 in.)	63 mm (2.48 in.)	591 mm (23.27 in.)
Backhoe Bucket (1)	90 mm (3.54 in.)	56 mm (2.20 in.)	810 mm (31.89 in.)
Heavy-Duty Option	100 mm (3.94 in.)	63 mm (2.48 in.)	810 mm (31.89 in.)
HL Option	100 mm (3.94 in.)	63 mm (2.48 in.)	810 mm (31.89 in.)
Backhoe Swing (2)	90 mm (3.54 in.)	50 mm (1.97 in.)	278 mm (10.94 in.)
Backhoe Extendable Dipperstick (1)	70 mm (2.76 in.)	40 mm (1.57 in.)	1062 mm (41.81 in.)
HL Option	80 mm (3.15 in.)	45 mm (1.77 in.)	1062 mm (41.81 in.)
Backhoe Stabilizer (2)			
Standard	90 mm (3.54 in.)	50 mm (1.97 in.)	500 mm (19.69 in.)
Extended Optional	100 mm (3.94 in.)	50 mm (1.97 in.)	500 mm (19.69 in.)
HL Option Extended	100 mm (3.94 in.)	50 mm (1.97 in.)	500 mm (19.69 in.)
Non-Powered Axle (1)	70 mm (2.76 in.)	42 mm (1.65 in.)	210 mm (8.27 in.)
MFWD (1)	65 mm (2.56 in.)	40 mm (1.57 in.)	210 mm (8.27 in.)
Electrical			
Voltage	12 volt		
Alternator Rating	145 amp		
Lights	10 halogen: 4 front, 4 rear, and 2 side docking (32,500 candlepower each); turn signals and flashers: 2 front and 2 rear; stop- and taillights; and 2 rear reflectors; factory-installed option for 2 LED spotlights and 8 LED floodlights in lieu of standard halogen light package		
Operator Station			
Type (ISO 3471)	Fully enclosed cab, isolation mounted, ROPS/FOPS, left/right access, with molded roof; optional quarter cab (front glass only) and canopy		
Tires/Wheels			
	<i>Front</i>	<i>Rear</i>	
Non-Powered Front Axle	12.5/80-18 F3 (12)	19.5L-24 R4 (12)	
	14.5/75-16.1 F3 (16)	19.5L-24 R4 (12)	
With MFWD	12.5/80-18 I3 (12)	19.5L-24 R4 (10)	
	12.5/80-18 R4 (10)	19.5L-24 R4 (12)	
	12.5/80-18 I3 (12)	21L-24 R4 (12)	
	12.5/80-18 R4 (10)	21L-24 R4 (12)	
	340/80R18 XMCL	500/70R24 XMCL	
	340/80R18 550	500/70R24 550	
	340/80R18 580	500/70R24 580	
Serviceability			
Refill Capacities		Refill Capacities (continued)	
Cooling System		Diesel Exhaust Fluid (DEF) Tank	13.7 L (3.6 gal.)
Cab	27.5 L (29.1 qt.)	Hydraulic System	126.8 L (33.5 gal.)
Canopy	25.7 L (27.2 qt.)	Hydraulic Reservoir	45.0 L (11.9 gal.)
Rear Axle	18.0 L (19.0 qt.)	MFWD Axle	
Engine Oil (including vertical spin-on filter)	13.0 L (13.7 qt.)	Differential Housing	6.5 L (6.9 qt.)
Torque Converter and Transmission	15.1 L (16.0 qt.)	Planetary (each)	0.9 L (1.0 qt.)
Fuel Tank (with ground-level fueling)	128.7 L (34.0 gal.)		
Operating Weights		320 P-TIER HEAVY-LIFT (HL) OPTION	
With Full Fuel Tank, 75-kg (165 lb.) Operator, Standard Equipment, Canopy, and Bumper	7146 kg (15,754 lb.)	7375 kg (16,571 lb.)	
Typical With Cab and Extendable Dipperstick			
340-kg (750 lb.) Counterweight	7908 kg (17,434 lb.)	—	
454-kg (1,000 lb.) Counterweight	—	8320 kg (18,342 lb.)	
Optional Components (weight difference between base equipment and option)			
Cab	284 kg (626 lb.)	284 kg (626 lb.)	
MFWD With Tires	137 kg (302 lb.)	137 kg (302 lb.)	
Extendable Dipperstick	138 kg (304 lb.)	207 kg (456 lb.)	
Front Loader Coupler	145 kg (320 lb.)	145 kg (320 lb.)	
Backhoe Bucket Coupler	120 kg (265 lb.)	120 kg (265 lb.)	



# 320 P-TIER

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Overall Dimensions	320 P-TIER	320 P-TIER HEAVY-LIFT (HL) OPTION
A Ground Clearance, Minimum	330 mm (13 in.)	310 mm (12 in.)
B Overall Length, Transport	7.28 m (23 ft. 11 in.)	7.37 m (24 ft. 2 in.)
C Width Over Tires	2.20 m (7 ft. 3 in.)	2.34 m (7 ft. 8 in.)
D Height to Top of ROPS/Cab	2.79 m (9 ft. 2 in.)	2.81 m (9 ft. 3 in.)
E Length From Axle to Axle		
Non-Powered Front Axle	2.16 m (7 ft. 1 in.)	2.16 m (7 ft. 1 in.)
MFWA Axle	2.19 m (7 ft. 2 in.)	2.19 m (7 ft. 2 in.)



Backhoe Dimensions and Performance		320 P-TIER		320 P-TIER HL OPTION			
Backhoe specifications are with 610-mm x 0.21-m³ (24 in. x 7.5 cu. ft.) bucket; dipper lift specs are with a boom angle of 65 deg.							
Bucket Range		305–610 mm (12–24 in.)		305–610 mm (12–24 in.)			
Digging Force							
Bucket Cylinder		55.0 kN (12,356 lb.)		69.9 kN (15,723 lb.)			
Lift Mode		60.6 kN (13,634 lb.)		77.2 kN (17,349 lb.)			
With Heavy-Duty Cylinder Option		67.9 kN (15,254 lb.)		—			
Lift Mode		74.9 kN (16,832 lb.)		—			
Crowd Cylinder		36.6 kN (8,229 lb.)		38.2 kN (8,581 lb.)			
Lift Mode		40.4 kN (9,080 lb.)		42.1 kN (9,468 lb.)			
Swing Arc		180 deg.		180 deg.			
Operator Control		2 levers		2 levers			
		With Optional Extendable Dipperstick		With Optional Extendable Dipperstick			
		With Standard		With Standard			
		Backhoe	Retracted	Extended	Backhoe	Retracted	Extended
F	Loading Height, Truck Loading Position	3.42 m (11 ft. 3 in.)	3.54 m (11 ft. 7 in.)	4.16 m (13 ft. 8 in.)	3.63 m (11 ft. 11 in.)	3.62 m (11 ft. 10 in.)	4.24 m (13 ft. 11 in.)
G	Reach From Center of Swing Pivot	5.52 m (18 ft. 1 in.)	5.61 m (18 ft. 5 in.)	6.62 m (21 ft. 9 in.)	5.68 m (18 ft. 8 in.)	5.62 m (18 ft. 5 in.)	6.61 m (21 ft. 8 in.)
H	Reach From Center of Rear Axle	6.58 m (21 ft. 7 in.)	6.68 m (21 ft. 11 in.)	7.68 m (25 ft. 2 in.)	6.74 m (22 ft. 1 in.)	6.68 m (21 ft. 11 in.)	7.67 m (25 ft. 2 in.)
I	Digging Depth (SAE maximum)	4.35 m (14 ft. 3 in.)	4.50 m (14 ft. 9 in.)	5.55 m (18 ft. 2 in.)	4.59 m (15 ft. 1 in.)	4.53 m (14 ft. 10 in.)	5.53 m (18 ft. 2 in.)
J	Digging Depth (SAE)						
	610-mm (2 ft.) Flat Bottom	4.32 m (14 ft. 2 in.)	4.45 m (14 ft. 7 in.)	5.51 m (18 ft. 1 in.)	4.55 m (14 ft. 11 in.)	4.49 m (14 ft. 9 in.)	5.50 m (18 ft. 0 in.)
	2440-mm (8 ft.) Flat Bottom	3.99 m (13 ft. 1 in.)	4.13 m (13 ft. 7 in.)	5.25 m (17 ft. 3 in.)	4.25 m (13 ft. 11 in.)	4.18 m (13 ft. 8 in.)	5.28 m (17 ft. 4 in.)
K	Stabilizer Width, Transport	2.18 m (7 ft. 2 in.)	2.18 m (7 ft. 2 in.)	2.18 m (7 ft. 2 in.)	2.18 m (7 ft. 2 in.)	2.18 m (7 ft. 2 in.)	2.18 m (7 ft. 2 in.)
L	Stabilizer Spread, Operating						
	Standard Stabilizers	3.10 m (10 ft. 2 in.)	3.10 m (10 ft. 2 in.)	3.10 m (10 ft. 2 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)
	Extended Stabilizers	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	—	—	—
M	Stabilizer Overall Width, Operating						
	Standard Stabilizers	3.53 m (11 ft. 7 in.)	3.53 m (11 ft. 7 in.)	3.53 m (11 ft. 7 in.)	4.03 m (13 ft. 3 in.)	4.03 m (13 ft. 3 in.)	4.03 m (13 ft. 3 in.)
	Extended Stabilizers	4.03 m (13 ft. 3 in.)	4.03 m (13 ft. 3 in.)	4.03 m (13 ft. 3 in.)	—	—	—



## Backhoe Dimensions and Performance (continued) 320 P-TIER

## 320 P-TIER HEAVY-LIFT (HL) OPTION

	With Optional Extendable Dipperstick			With Optional Extendable Dipperstick		
	With Standard Backhoe	Retracted	Extended	With Standard Backhoe	Retracted	Extended
N Bucket Rotation	190 deg.	190 deg.	190 deg.	190 deg.	190 deg.	190 deg.
O Transport Height	3.48 m (11 ft. 5 in.)	3.49 m (11 ft. 5 in.)	3.49 m (11 ft. 5 in.)	3.56 m (11 ft. 8 in.)	3.56 m (11 ft. 8 in.)	3.56 m (11 ft. 8 in.)

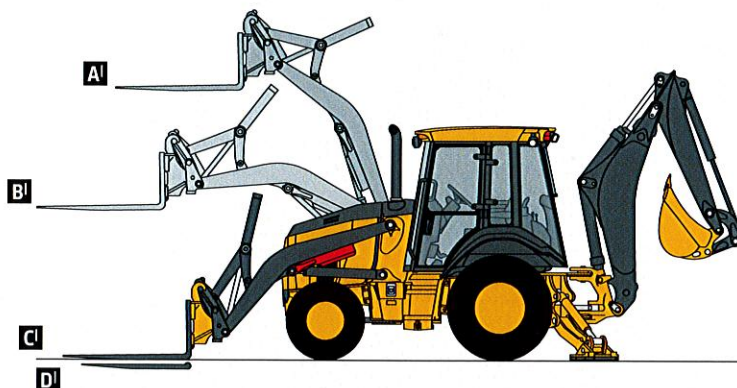
### Loader Dimensions and Performance [see line art on page 8]

P Bucket Dump Angle, Maximum	45 deg.			45 deg.		
Q Rollback Angle at Ground Level	40 deg.			40 deg.		

	Heavy-duty				Heavy-duty			
	long lip	Heavy-duty	Multipurpose		long lip	Heavy-duty	Multipurpose	
Bucket Capacity	0.86 m <sup>3</sup> (1.12 cu. yd.)	0.96 m <sup>3</sup> (1.25 cu. yd.)	1.00 m <sup>3</sup> (1.31 cu. yd.)	1.00 m <sup>3</sup> (1.31 cu. yd.)	0.86 m <sup>3</sup> (1.12 cu. yd.)	0.96 m <sup>3</sup> (1.25 cu. yd.)	1.00 m <sup>3</sup> (1.31 cu. yd.)	1.00 m <sup>3</sup> (1.31 cu. yd.)
Width	2184 mm (86 in.)	2184 mm (86 in.)	2337 mm (92 in.)	2337 mm (92 in.)	2184 mm (86 in.)	2184 mm (86 in.)	2337 mm (92 in.)	2337 mm (92 in.)
Weight	390 kg (860 lb.)	405 kg (892 lb.)	521 kg (1,148 lb.)	863 kg (1,902 lb.)	390 kg (860 lb.)	405 kg (892 lb.)	521 kg (1,148 lb.)	863 kg (1,902 lb.)
Breakout Force	49.2 kN (11,052 lb.)	46.4 kN (10,442 lb.)	46.9 kN (10,541 lb.)	43.2 kN (9,722 lb.)	49.4 kN (11,116 lb.)	46.7 kN (10,503 lb.)	47.1 kN (10,598 lb.)	43.5 kN (9,778 lb.)
Lift Capacity, Full Height	3492 kg (7,698 lb.)	3224 kg (7,108 lb.)	3352 kg (7,390 lb.)	2862 kg (6,309 lb.)	3425 kg (7,552 lb.)	3166 kg (6,980 lb.)	3286 kg (7,244 lb.)	2801 kg (6,175 lb.)
R Height to Bucket Hinge Pin, Maximum	3.47 m (11 ft. 5 in.)	3.47 m (11 ft. 5 in.)	3.47 m (11 ft. 5 in.)	3.47 m (11 ft. 5 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)
S Dump Clearance, Bucket at 45 deg.	2.76 m (9 ft. 1 in.)	2.66 m (8 ft. 9 in.)	2.70 m (8 ft. 10 in.)	2.67 m (8 ft. 9 in.)	2.75 m (9 ft. 0 in.)	2.65 m (8 ft. 8 in.)	2.69 m (8 ft. 10 in.)	2.66 m (8 ft. 9 in.)
T Reach at Full Height, Bucket at 45 deg.	678 mm (26.7 in.)	804 mm (31.7 in.)	675 mm (26.6 in.)	716 mm (28.2 in.)	724 mm (28.5 in.)	850 mm (33.5 in.)	720 mm (28.4 in.)	762 mm (30.0 in.)
U Digging Depth Below Ground, Bucket Level	83 mm (3.3 in.)	64 mm (2.5 in.)	128 mm (5.0 in.)	124 mm (4.9 in.)	101 mm (4.0 in.)	81 mm (3.2 in.)	145 mm (5.7 in.)	141 mm (5.6 in.)
V Length From Front Axle Centerline to Bucket Cutting Edge	1.96 m (6 ft. 5 in.)	2.10 m (6 ft. 11 in.)	2.03 m (6 ft. 8 in.)	2.08 m (6 ft. 10 in.)	1.97 m (6 ft. 6 in.)	2.11 m (6 ft. 11 in.)	2.04 m (6 ft. 8 in.)	2.09 m (6 ft. 10 in.)

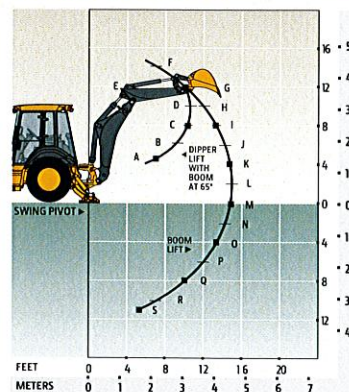
### Lift Capacity With Quick-Coupler Forks [see line art below]

Hydraulic Capacity	1219-mm (48 in.) Tines	1524-mm (60 in.) Tines	1219-mm (48 in.) Tines	1524-mm (60 in.) Tines
A <sup>1</sup> Maximum Height	2067 kg (4,558 lb.)	1932 kg (4,260 lb.)	2028 kg (4,472 lb.)	1896 kg (4,180 lb.)
B <sup>1</sup> Maximum Reach	3183 kg (7,017 lb.)	3001 kg (6,617 lb.)	3163 kg (6,974 lb.)	2982 kg (6,575 lb.)
C <sup>1</sup> At Ground Line	4020 kg (8,863 lb.)	3768 kg (8,306 lb.)	3997 kg (8,812 lb.)	3781 kg (8,335 lb.)
D <sup>1</sup> Below Ground Line	198 mm (7.8 in.)	198 mm (7.8 in.)	216 mm (8.5 in.)	216 mm (8.5 in.)

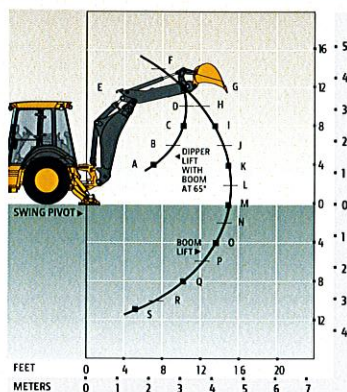


### Lift Capacities [see charts on page 10]

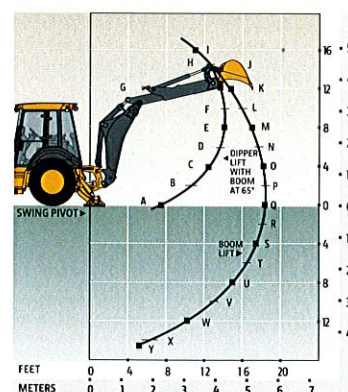
### 320 P-TIER



With Standard Dipperstick



With Extendable Dipperstick, Retracted



With Extendable Dipperstick, Extended



# 320 P-TIER

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

## Lift Capacities (continued) [see line art on page 9]

## 320 P-TIER

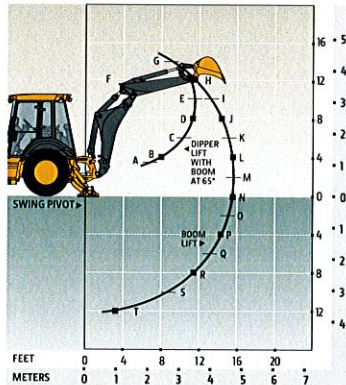
Lift capacities are over-end values in kg (lb.). Figures listed are 100% of the maximum lift force available.

With Standard Dipperstick		With 1.06-m (3 ft. 6 in.) Extendable Dipperstick, Retracted		With 1.06-m (3 ft. 6 in.) Extendable Dipperstick, Extended	
Standard Lift	Lift Mode	Standard Lift	Lift Mode	Standard Lift	Lift Mode
A 4782 kg (10,543 lb.)	4858 kg (10,710 lb.)	4604 kg (10,151 lb.)	4604 kg (10,151 lb.)	3554 kg (7,834 lb.)	3946 kg (8,699 lb.)
B 3673 kg (8,097 lb.)	3673 kg (8,097 lb.)	3251 kg (7,166 lb.)	3251 kg (7,166 lb.)	2480 kg (5,468 lb.)	2758 kg (6,081 lb.)
C 3236 kg (7,135 lb.)	3236 kg (7,135 lb.)	2913 kg (6,423 lb.)	2913 kg (6,423 lb.)	2156 kg (4,753 lb.)	2399 kg (5,290 lb.)
D 3168 kg (6,985 lb.)	3168 kg (6,985 lb.)	2859 kg (6,302 lb.)	2859 kg (6,302 lb.)	2012 kg (4,436 lb.)	2185 kg (4,817 lb.)
E 3038 kg (6,698 lb.)	3364 kg (7,415 lb.)	2619 kg (5,775 lb.)	2912 kg (6,420 lb.)	1918 kg (4,228 lb.)	2087 kg (4,601 lb.)
F 1839 kg (4,054 lb.)	2051 kg (4,522 lb.)	1488 kg (3,281 lb.)	1678 kg (3,699 lb.)	1830 kg (4,034 lb.)	2038 kg (4,493 lb.)
G 1768 kg (3,897 lb.)	2165 kg (4,773 lb.)	1635 kg (3,604 lb.)	1846 kg (4,070 lb.)	1715 kg (3,782 lb.)	1912 kg (4,214 lb.)
H 1918 kg (4,228 lb.)	2147 kg (4,734 lb.)	1652 kg (3,643 lb.)	1869 kg (4,120 lb.)	1525 kg (3,362 lb.)	1701 kg (3,749 lb.)
I 1873 kg (4,128 lb.)	2099 kg (4,628 lb.)	1633 kg (3,599 lb.)	1850 kg (4,078 lb.)	1059 kg (2,334 lb.)	1198 kg (2,641 lb.)
J 1820 kg (4,013 lb.)	2043 kg (4,504 lb.)	1599 kg (3,526 lb.)	1815 kg (4,001 lb.)	1187 kg (2,616 lb.)	1344 kg (2,962 lb.)
K 1768 kg (3,897 lb.)	1986 kg (4,379 lb.)	1562 kg (3,443 lb.)	1775 kg (3,913 lb.)	1236 kg (2,726 lb.)	1401 kg (3,089 lb.)
L 1717 kg (3,786 lb.)	1932 kg (4,259 lb.)	1524 kg (3,360 lb.)	1735 kg (3,825 lb.)	1253 kg (2,763 lb.)	1422 kg (3,137 lb.)
M 1671 kg (3,685 lb.)	1882 kg (4,150 lb.)	1489 kg (3,283 lb.)	1698 kg (3,743 lb.)	1254 kg (2,765 lb.)	1425 kg (3,141 lb.)
N 1630 kg (3,594 lb.)	1838 kg (4,053 lb.)	1458 kg (3,214 lb.)	1665 kg (3,671 lb.)	1247 kg (2,749 lb.)	1418 kg (3,127 lb.)
O 1596 kg (3,518 lb.)	1802 kg (3,972 lb.)	1443 kg (3,160 lb.)	1640 kg (3,615 lb.)	1236 kg (2,724 lb.)	1407 kg (3,102 lb.)
P 1571 kg (3,463 lb.)	1776 kg (3,916 lb.)	1419 kg (3,128 lb.)	1626 kg (3,585 lb.)	1223 kg (2,696 lb.)	1394 kg (3,073 lb.)
Q 1563 kg (3,447 lb.)	1771 kg (3,904 lb.)	1424 kg (3,140 lb.)	1635 kg (3,605 lb.)	1210 kg (2,667 lb.)	1381 kg (3,044 lb.)
R 1609 kg (3,547 lb.)	1827 kg (4,027 lb.)	1486 kg (3,276 lb.)	1710 kg (3,769 lb.)	1198 kg (2,642 lb.)	1369 kg (3,019 lb.)
S 1735 kg (3,824 lb.)	1975 kg (4,353 lb.)	1604 kg (3,537 lb.)	1849 kg (4,076 lb.)	1190 kg (2,622 lb.)	1361 kg (3,001 lb.)
T —	—	—	—	1186 kg (2,614 lb.)	1359 kg (2,995 lb.)
U —	—	—	—	1190 kg (2,623 lb.)	1365 kg (3,009 lb.)
V —	—	—	—	1208 kg (2,664 lb.)	1388 kg (3,061 lb.)
W —	—	—	—	1261 kg (2,780 lb.)	1451 kg (3,199 lb.)
X —	—	—	—	1446 kg (3,188 lb.)	1666 kg (3,674 lb.)
Y —	—	—	—	1986 kg (4,377 lb.)	2289 kg (5,047 lb.)

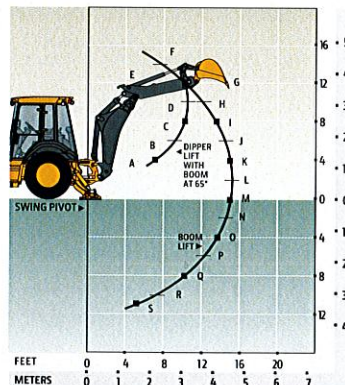
Lift capacities are over end with stabilizers down and tires tangent to ground.

## Lift Capacities (continued) [see line art and charts below]

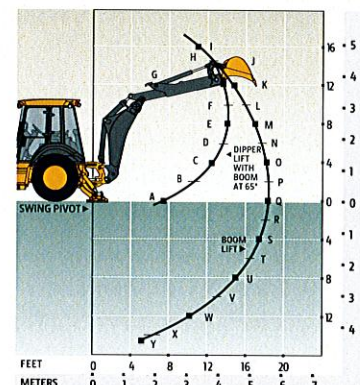
## 320 P-TIER HEAVY-LIFT (HL) OPTION



With Standard Dipperstick



With Extendable Dipperstick, Retracted



With Extendable Dipperstick, Extended

Lift capacities are over-end values in kg (lb.). Figures listed are 100% of the maximum lift force available.

With Standard Dipperstick		With 1.06-m (3 ft. 6 in.) Extendable Dipperstick, Retracted		With 1.06-m (3 ft. 6 in.) Extendable Dipperstick, Extended	
Standard Lift	Lift Mode	Standard Lift	Lift Mode	Standard Lift	Lift Mode
A 5625 kg (12,402 lb.)	5625 kg (12,402 lb.)	5350 kg (11,795 lb.)	5350 kg (11,795 lb.)	4082 kg (8,999 lb.)	4537 kg (10,003 lb.)
B 4697 kg (10,356 lb.)	4697 kg (10,356 lb.)	3613 kg (7,966 lb.)	3613 kg (7,966 lb.)	2709 kg (5,972 lb.)	3018 kg (6,653 lb.)
C 3547 kg (7,819 lb.)	3547 kg (7,819 lb.)	3204 kg (7,064 lb.)	3204 kg (7,064 lb.)	2366 kg (5,216 lb.)	2638 kg (5,817 lb.)
D 3220 kg (7,098 lb.)	3220 kg (7,098 lb.)	3122 kg (6,883 lb.)	3122 kg (6,883 lb.)	2231 kg (4,918 lb.)	2412 kg (5,317 lb.)
E 3164 kg (6,976 lb.)	3164 kg (6,976 lb.)	3117 kg (6,871 lb.)	3282 kg (7,235 lb.)	2153 kg (4,747 lb.)	2295 kg (5,059 lb.)
F 3095 kg (6,823 lb.)	3327 kg (7,336 lb.)	1317 kg (2,903 lb.)	1496 kg (3,297 lb.)	2088 kg (4,604 lb.)	2268 kg (5,000 lb.)
G 1472 kg (3,244 lb.)	1645 kg (3,627 lb.)	1649 kg (3,636 lb.)	1871 kg (4,125 lb.)	2004 kg (4,418 lb.)	2236 kg (4,931 lb.)
H 1801 kg (3,971 lb.)	2016 kg (4,445 lb.)	1744 kg (3,845 lb.)	1980 kg (4,365 lb.)	1851 kg (4,080 lb.)	2067 kg (4,557 lb.)
I 1907 kg (4,204 lb.)	2136 kg (4,710 lb.)	1767 kg (3,896 lb.)	2008 kg (4,428 lb.)	904 kg (1,992 lb.)	1031 kg (2,273 lb.)
J 1940 kg (4,278 lb.)	2176 kg (4,798 lb.)	1761 kg (3,883 lb.)	2004 kg (4,418 lb.)	1152 kg (2,540 lb.)	1312 kg (2,892 lb.)
K 1944 kg (4,285 lb.)	2182 kg (4,810 lb.)	1743 kg (3,843 lb.)	1986 kg (4,378 lb.)	1267 kg (2,793 lb.)	1442 kg (3,179 lb.)
L 1933 kg (4,262 lb.)	2172 kg (4,789 lb.)	1720 kg (3,792 lb.)	1962 kg (4,326 lb.)	1326 kg (2,923 lb.)	1509 kg (3,327 lb.)
M 1918 kg (4,228 lb.)	2156 kg (4,754 lb.)	1698 kg (3,743 lb.)	1939 kg (4,275 lb.)	1356 kg (2,989 lb.)	1545 kg (3,405 lb.)
N 1902 kg (4,192 lb.)	2140 kg (4,719 lb.)	1679 kg (3,702 lb.)	1921 kg (4,235 lb.)	1370 kg (3,021 lb.)	1562 kg (3,444 lb.)
O 1889 kg (4,166 lb.)	2129 kg (4,693 lb.)	1669 kg (3,680 lb.)	1912 kg (4,215 lb.)	1376 kg (3,033 lb.)	1570 kg (3,461 lb.)
P 1886 kg (4,157 lb.)	2126 kg (4,688 lb.)	1674 kg (3,691 lb.)	1920 kg (4,234 lb.)	1377 kg (3,035 lb.)	1573 kg (3,467 lb.)
Q 1897 kg (4,183 lb.)	2142 kg (4,722 lb.)	1711 kg (3,773 lb.)	1965 kg (4,333 lb.)	1376 kg (3,034 lb.)	1574 kg (3,470 lb.)
R 1941 kg (4,279 lb.)	2194 kg (4,836 lb.)	2057 kg (4,535 lb.)	2119 kg (4,671 lb.)	1376 kg (3,034 lb.)	1576 kg (3,474 lb.)
S 2077 kg (4,578 lb.)	2350 kg (5,181 lb.)	2057 kg (4,535 lb.)	2365 kg (5,213 lb.)	1380 kg (3,042 lb.)	1582 kg (3,487 lb.)
T 3270 kg (7,210 lb.)	3709 kg (8,176 lb.)	—	—	1390 kg (3,065 lb.)	1595 kg (3,516 lb.)
U —	—	—	—	1412 kg (3,113 lb.)	1622 kg (3,575 lb.)
V —	—	—	—	1457 kg (3,212 lb.)	1674 kg (3,691 lb.)
W —	—	—	—	1556 kg (3,430 lb.)	1789 kg (3,944 lb.)
X —	—	—	—	1873 kg (4,130 lb.)	2154 kg (4,748 lb.)
Y —	—	—	—	2846 kg (6,274 lb.)	3266 kg (7,200 lb.)

Lift capacities are over end with stabilizers down and tires tangent to ground.



# Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

## 320 P Engine

- Coolant recovery tank with low-level indicator
- Foldout, hinged cooling system
- Serpentine belt with automatic belt tensioner
- Electronically controlled, variable-rate suction-type cooling fan
- Self-cleaning exhaust aftertreatment system
- ▲ Chrome exhaust extension
- Grid heat
- ▲ 1,000-watt electric engine coolant heater
- Electronic fuel lift pump

## Powertrain

- PowerShift™ transmission: Torque converter with twist-grip TCL and neutral safety switch interlock (1st through 5th gears)
- 5th-gear overdrive
- AutoShift transmission
- Transmission oil cooler
- ▲ Transmission remote oil-sampling port
- Differential lock, electric foot actuated, protection on/off (software enabled)
- Auto shutdown
- Planetary final drives
- Power-assisted hydraulic service brakes (conform to ISO 3450): Inboard, wet multi-disc, 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 (MFWD) with traction-control limited-slip differential: Electric on/off control / Sealed axle
- Automatic MFWD braking
- ▲ MFWD driveshaft guard

## Backhoe

- Lift mode
- Precision mode
- Standard dipperstick digging depth
- 4.35 m (14 ft. 3 in.) [4.59 m (15 ft. 1 in.) for Heavy-Lift (HL) configuration]
- Extendable dipperstick extension
- ▲ 1.06 m (3 ft. 6 in.)
- ▲ Heavy-duty (HD) backhoe bucket cylinder (standard for HL configuration)
- ISO (Deere) 2-lever mechanical backhoe controls (not available for HL configuration)
- ▲ 2-lever pilot controls with pattern-selection feature (standard for HL configuration)
- Backhoe transport lock lever
- Swing lock pin stored in operator's station
- Stabilizers with 2-direction anti-drift valves
- ▲ Extended (long) stabilizers with reversible pads (standard for HL configuration)
- ▲ Severe-duty backhoe bucket with lift loops
- ▲ Backhoe couplers for John Deere, Case, and Cat buckets

## 320 P Backhoe (continued)

- ▲ Auxiliary backhoe valve with 1-way flow for hammers and compactors with plumbing
- ▲ Auxiliary backhoe valve with 1- and 2-way flow for swingers, thumbs, augers, etc. with plumbing
- ▲ Hydraulic thumb
- ▲ Rear hydraulic coupler
- ▲ Spring-type coupler

## Loader<sup>1</sup>

- Loader bucket anti-spill (rollback)
- Return-to-dig feature
- Single-lever control with electric clutch disconnect
- Bucket-level indicator
- Loader boom service lock
- Loader valve with integrated anti-drift checks for hydraulic cylinders controlling loader boom up and bucket dump
- ▲ Auxiliary loader hydraulics with single control lever with EH auxiliary control (MFWD and clutch disconnect)
- ▲ Hydraulic coupler for buckets, forks, etc.
- ▲ Auto ride control

## Hydraulic System

- 163-L/m (43 gpm) axial-piston pump, pressure-compensated load-sensing (PCLS) system
- Auto-idle
- Economy mode
- Dedicated hydraulic reservoir

## Electrical System

- 12-volt system
- 145-amp alternator
- Single battery with 175-min. reserve capacity and 950 CCA
- ▲ Dual batteries with 350-min. reserve capacity and 1,900 CCA
- ▲ Remote jump posts and battery disconnect

## Lights

- Halogen lights (10), 32,500 candlepower each (4 front driving/working, 4 rear working, and 2 side docking)
- Turn signal/flashing (2 front and 2 rear)
- Rear stop and tail (2)
- ▲ LED light package
- ▲ Boom-light field kit (2 LED floods)

## Operator's Station

- Modular-design ROPS/FOPS (Level 2) canopy with molded roof (meets ISO 3449 and ISO 3471/SAE J1040): Isolation mounted
- Molded floor mats (with pilot controls only)
- 12-volt outlet
- Lockable right-side storage
- ▲ Lockable left-hand storage with cup holders
- ▲ Interior front-view mirror
- ▲ Outside rearview mirrors
- Rotary-dial hand throttle
- Suspended foot throttle
- Mechanical-suspension seat, cloth cover
- ▲ Air-suspension heated seat (with cab only)
- ▲ Air-suspension vinyl seat

## 320 P Operator's Station (continued)

- Tilt steering, infinitely adjustable (with cab only)
- ▲ Tilt steering, infinitely adjustable (with canopy and quarter cab)
- Keyless start
- Machine security (enabled through monitor)
- Digital display of engine hours, engine rpm, and system voltage
- Sealed-switch module (SSM)
- Multi-function lever: Turn signals / Windshield wipers / Some light functionality
- Monitor system with audible and visual warnings: Engine air restriction / Low alternator voltage / Engine oil pressure / Hydraulic filter restriction / Parking brake on/off / Aftertreatment temperature / Transmission fluid temperature / Fuel / Hour meter / Machine diagnostic information via 4-push-button/LCD operator interface
- Canopy: Mechanical-suspension deluxe vinyl swivel seat with lumbar adjustment and armrests (fully adjustable)
- ▲ Quarter Cab: Mechanical-suspension deluxe vinyl swivel seat with lumbar adjustment and armrests (fully adjustable), front windshield, and windshield wiper (1 front)
- ▲ Cab With Dual Doors and A/C: Mechanical-suspension deluxe fabric swivel seat with lumbar adjustment / Headliner, dome light, left and right cab doors, tinted safety glass, windshield wipers (1 rear and 1 front), front windshield washer, fresh-air intake, and heater/defroster/pressurizer (11.7-kW [40,000 Btu/h] heater) / A/C (7.6-kW [26,000 Btu/h] output and CFC-free R134a refrigerant)
- ▲ AM/FM/weather-band (WB) radio (with cab only)
- ▲ Premium radio package (with cab only; includes additional 12-volt and USB outlets)

## Overall Vehicle

- 1-piece unitized construction mainframe
- Vehicle tie-downs (2 front and 2 rear)
- Remote grease bank for front axle
- Front bumper cover
- ▲ HD front bumper
- ▲ Front counterweight – 204 kg (450 lb.), 340 kg (750 lb.), 454 kg (1,000 lb.), or 567 kg (1,250 lb.)
- ▲ Rubber grille bumpers
- Fuel tank, 128.7 L (34 gal.), ground-level fueling
- 2-position easy-tilt hood
- Extended grille frame
- Toolbox with padlock hasp
- Vandal protection for locking monitor, engine hood, toolbox, hydraulic reservoir, and fuel tank
- Reverse warning alarm
- Dent-resistant full-coverage rear fenders
- ▲ Backhoe boom-protection plate
- JDLink™ wireless communication system (available in specific countries; see your dealer for details)
- ▲ HD front grille screen
- ▲ HD stabilizer pads

<sup>1</sup>See dealer for range of HD, multipurpose, and coupler buckets and forks.

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions specified per ISO 9249. Specifications and design are subject to change without notice. Wherever applicable, specifications are in accordance with ISO standards. Except where otherwise noted, these specifications are based on a 320 P-Tier unit with 19.5L-24-in. 12PR (R4) tubeless rear and 12.5-80/18 10PR (R4) front tires, and 1.00-m<sup>3</sup> (1.31 cu. yd.) loader bucket; and a 320 P-Tier Heavy-Lift configuration with lift mode, 19.5L-24-in. 12 PR (R4) tubeless rear and 12.5/80-18 12PR (R4) front tires, and 1.00-m<sup>3</sup> (1.31 cu. yd.) loader bucket.





MB320PAU (23-03)



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