



Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Centralized Request for Quote
 Equipment

Proc Folder: 1226210		Reason for Modification:	
Doc Description: ADDENDUM NO_2 Four Wheel Drive Loader w/backhoe		ADDENDUM NO_2 Vendor Questions and Responses Bid Opening Moves to 06/22/23	
Proc Type: Central Master Agreement			
Date Issued	Solicitation Closes	Solicitation No	Version
2023-06-09	2023-06-22 13:30	CRFQ 0803 DOT2300000135	3

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

06/22/23 11:03:30
 WV Purchasing Division

VENDOR

Vendor Customer Code: 000000205464

Vendor Name : STATE EQUIPMENT INC

Address : 560 NEW GOFF MOUNTAIN ROAD

Street :

City : CROSS LANES

State : WEST VIRGINIA **Country :** U.S.A. **Zip :** 25314

Principal Contact : EDDIE ROWAN, JR

Vendor Contact Phone: 304-776-4405 **Extension:** 1012

FOR INFORMATION CONTACT THE BUYER
 John W Estep
 304-558-2566
 john.w.estep@wv.gov

Vendor Signature X 

FEIN# 55 0658298 **DATE** 06/21/2023

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

ADDENDUM NO_2

Addendum No_2 issued to publish and distribute the attached information to the Vendor Community.

REQUEST FOR QUOTATION:

The West Virginia Purchasing Division is soliciting bids on behalf of West Virginia Division of Highways to establish an open-end contract for a Four-Wheel Drive Loader with Backhoe John Deere 320 P-Tier or equal. Per the Bid Requirements, Specifications, Terms and Conditions attached to this solicitation.

INVOICE TO**SHIP TO**

DIVISION OF HIGHWAYS
EQUIPMENT DIVISION RT 33
83 BRUSHY ROAD
CROSSING, PO BOX 610
BUCKHANNON WV
US

DIVISION OF HIGHWAYS
EQUIPMENT DIVISION
83 BRUSHY FORK RD
CROSSING
BUCKHANNON WV
US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Loader/Backhoe	20.00000	EA	\$83,243	\$1,664,860

Comm Code	Manufacturer	Specification	Model #
22101509	CASE	4WD LOADER W/BACKHOE	580SV+

Extended Description:

Four Wheel Drive Loader w/backhoe

SCHEDULE OF EVENTS

Line	Event	Event Date
1	Pre-Bid Meeting 9:00am - Equipment Div.	2023-06-01
2	Tech Questions due by 10:00am	2023-06-08

	Document Phase	Document Description	Page
DOT2300000135	Final	ADDENDUM NO_2 Four Wheel Drive Loader w/backhoe	3

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFO DOT2300000135

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

STATE EQUIPMENT INC

Company



Authorized Signature

JUNE 21, 2023

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) EDDIE ROWAN, JR GENERAL MANAGER
(Address) 560 NEW GOFF MT RD CROSS LANES WV 25314
(Phone Number) / (Fax Number) 304-776-4405 / 304-776-4409
(Email address) eddie@stateequipment.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through WYOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

STATE EQUIPMENT INC
(Company) _____
(Signature of Authorized Representative) _____
EDDIE ROWAN JR, GENERAL MANAGER 06/21/23
(Printed Name and Title of Authorized Representative) (Date)
304-776-4405/ 304-776-4409
(Phone Number) (Fax Number)
eddie@stateequipment.com
(Email Address) _____

REQUEST FOR QUOTATION
Class 352 Four Wheel Drive John Deere 320 P-Tier Loader With Backhoe or
Equal

8.2 Reports: Vendor shall provide quarterly reports and annual summaries to the Agency showing the Agency's items purchased, quantities of items purchased, and total dollar value of the items purchased. Vendor shall also provide reports, upon request, showing the items purchased during the term of this Contract, the quantity purchased for each of those items, and the total value of purchases for each of those items. Failure to supply such reports may be grounds for cancellation of this Contract.

8.3 Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: EDDIE ROWAN, JR
Telephone Number: 304-776-4405
Fax Number: 304-776-4409
Email Address: eddie@stateequipment.com


VENDOR: 000000205464 **Class 352 Loader w/Backhoe**

Item No.	Description:	Model & Part Number Being Bid	Estimated Unit Quantity	Unit Price	Item Total Cost
1	Four Wheel Drive John Deere 320 P-Tier Loader with backhoe or equal.	CASE 580SV+	20	\$83,243	\$1,664,860

Total Bid Cost  **\$1,664,860**

Bid Will Be Awarded To The Lowest Overall Bid Total For All Items

Vendor Information

Company Name: STATE EQUIPMENT INC
Contact Manager: EDDIE ROWAN JR
Address: 560 NEW GOFF MOUNTAIN RD CROSS LANES WV 25314
Phone: 304-776-4405
Fax: 304-776-4409
E-mail: eddie@stateequipment.com
Signature: 



ENGINE

Model	FPT F5BFL413B*B
Emissions Certification	Tier 4 Final
Type	Diesel 4-stroke, Turbocharged
Cylinders	4
Bore/Stroke	3.90 x 4.33 in (99 x 110 mm)
Displacement	207 in ³ (3.4 L)
Fuel injection	Direct, high pressure common rail – HPCR
Fuel	Diesel
Engine speeds*	RPM
Rated speed – full load	2200
Low idle	900 – 1000
High idle – no load	2330 – 2430
Horsepower @ 2200 RPM:	
Gross	110 hp (82 kW)
Net	108 hp (81 kW)
Maximum torque @ 1400 RPM:	
Gross	339 lb-ft (460 N·m)
Net	338 lb-ft (459 N·m)
Torque rise at rated speed	29% +/- 5%
Radiator:	
Core type	Square wave
Core size area	486 in ² (3 145 cm ²)
Rows of tubes	4
39° fan:	
Style	9 blade suction
Diameter	19.65 in (499 mm)
Ratio**	1.4:1
Pump operating angle ratings:	
Side to side	Rated 35°
Fore and aft	Rated 35°
Oil filtration	Replaceable, full flow cartridge

NOTE: *Engine speeds w/ standard transmission.
Meets federal emission regulations.
**Viscous fan.

DRIVETRAIN

Transmission – standard:
4F-4R Power Shuttle Synchronesh Transmission
manual gear shift, fully synchronized

Specifications below apply to the Power Shuttle
transmission.

Gear ratios	Forward/Reverse
1st	5.603/4.643
2nd	3.481/2.884
3rd	1.584/1.313
4th	0.793/0.657

Travel speeds – Standard Power Shuttle

Transmission	Forward	Reverse
	mph (kph)	mph (kph)
1st	3.4 (5.5)	4.1 (6.6)
2nd	5.5 (8.9)	6.6 (10.7)
3rd	11.8 (19)	14.2 (22.8)
4th	22.5 (36.2)	27 (43.4)

Transmission – optional:
Powershift H-Type, 4F-3R hydraulic clutch
shifting w/ auto shift mode

Gear ratios	Forward/Reverse
1st	5.533/4.549
2nd	3.359/2.762
3rd	1.533/1.260
4th	0.811/—

Travel speeds – Optional H-Type Powershift

Transmission:	Forward	Reverse
	mph (kph)	mph (kph)
1st	3.5 (5.6)	4.2 (6.7)
2nd	5.7 (9.1)	6.8 (10.9)
3rd	12.1 (19.4)	14.5 (23.3)
4th	22.1 (35.5)	—

Torque converter ratio 2.38

Differential-lock:
On-the-go push-button activation

Front/Rear axle:	
Differential ratio	2.29/2.75
Planetary hub ratio	6.0/6.4
Total reduction ratio	13.7/17.6

Service brakes:
Individually applied, power assisted,
hydraulically actuated, maintenance-free,
self-adjusting, outboard mounted, wet disc,
2 per side.
Total disc area 384 in² (0.25 m²)

Parking brakes Trans Mounted
spring-applied hydraulic release – SAHR

NOTE: Travel speeds w/ 19.5 L x 24.0 tires.

ELECTRICAL

Voltage	12 Volts, negative ground
Alternator	160 amp
Single Battery	900 amp
Power plugs – 1	20 amp

OPERATOR ENVIRONMENT

ROPS/FOPS certified protective cab; 2 door w/
heat, A/C, defroster, floor mat, Bluetooth radio,
front and rear wiper; Interior rearview convex
mirror; Mechanical suspension deluxe seat; 2 in
(50 mm) retractable seat belt; Cup holder and
storage trays positioned on the right side; and
enclosed storage compartment on left side.

Gauges:

Engine water temperature; Converter oil
temperature; Fuel level; Tachometer /
hourmeter; DEF level.

Warning lights:

Air cleaner restriction; Alternator; A/C high
pressure; Cold start; Engine oil pressure;
Hydraulic oil filter bypass; Parking brake
engagement; Low fuel; Water in fuel; Low DEF.

Audible alarms w/ diagnostics:

Coolant temperature; Engine oil pressure;
Parking brake engagement; Converter oil
temperature; Shuttle engagement/seat
position; Backup alarm; Low DEF.

Horn Dual switched front and rear

OPERATING WEIGHT

Configuration 1:

Cab, HVAC, 14' standard backhoe, standard
loader bucket with cutting edge, large
counterweight, 24" HD backhoe bucket, Front
Wheels 14 x 17.5 Rear Wheels 21L x 24, ride
control and operator.

18,695 lb (8 480 kg)

Configuration 2:

Cab, HVAC, 15' Extendahoe backhoe, standard
loader bucket with cutting edge, medium
counterweight, 24" HD backhoe bucket, Front
Wheels 14 x 17.5, Rear Wheels 21L x 24, ride
control and operator.

19,709 lb (8 940 kg)

HYDRAULICS

Pump:

Sauer Danfoss Variable Displacement Axial Piston Pump

Flow Ratings 43.6 gpm @ 2,973 psi
(165 L/min @ 205 bar)

Main relief pressure:

2,973 +/- 44 psi (205 +/- 3 bar)

Filtration:

7-micron, full flow replaceable cartridge on return line, condition indicator light for filter.

Oil cooler

Heavy-duty

Loader control valve:

Two or three spool sectional valve. The two spool valve has single lever control for lift and tilt. The three spool valve has a pilot controlled clam valve. The lift lever has positive hold "float" position and "return to dig" feature. Valve is post compensated with flow sharing. Valve allows simultaneous operation of loader lift and loader bucket.

Backhoe flow @ 2200 RPM:

Maximum backhoe flow for 1-way hydraulics:
35.9 gpm @ 2,973 psi
(136 L/min @ 205 bar)

Pilot backhoe control valve:

Six, seven, or eight spool sectional closed center control valve. Basic control valve is closed center, w/ circuits in parallel w/ a post-compensated, flow sharing feature for simultaneous operation of all circuits.

1-way flow auxiliary hydraulics:

1-way flow hydraulic valve is equipped with a variable flow feature adjustable at the valve.

Actuation:

Pilot controls – left-hand joystick/pedal.

2-way flow auxiliary hydraulics:

2-way flow hydraulic valve is equipped with a variable flow feature adjustable at the valve

Actuation:

Left-hand joystick.

Combo auxiliary hydraulics:

Incorporates both a 1-way flow control valve and a 2-way control valve, using only 2 hydraulic lines through the boom.

Actuation:

Activate the 2-way flow switch located on the rear console

Pilot controls – left-hand joystick

Standard front axle:

4WD Differential 1.7 gal (6.5 L)

Rear axle:

Differential and planetaries 5.6 gal (21.2 L)

Engine oil w/ filter

8.5 qt (8.0 L)

OTHER SPECIFICATIONS

Front tires:

14 L x 17.5, 10-ply rating
12.0 L x 16.5, 10-ply rating
12.5/80 x 18.0 10-ply rating

Rear tires:

19.5 L x 24.0, 10-ply rating
16.9 L x 28.0, 10-ply rating
21 L x 24.0, 10-ply rating

Turning radius: Curb to Curb:

4WD – disengaged*:

Turning Right 14 ft 7 in (4.44 m)
Turning Left 15 ft 5 in (4.70 m)

NOTE: *Turning radius dimensions curb to curb w/ 12.5/80 x 18.0 front tires and 18.4 x 26.0 R4 rear tires.

SERVICE CAPACITIES

Fuel tank 34.6 gal (131 L)

DEF tank 3.5 gal (13.2 L)

Hydraulic system:

Total 37 gal (142 L)

Transmission – total system:

4WD Standard 22 qt (20.8 L)

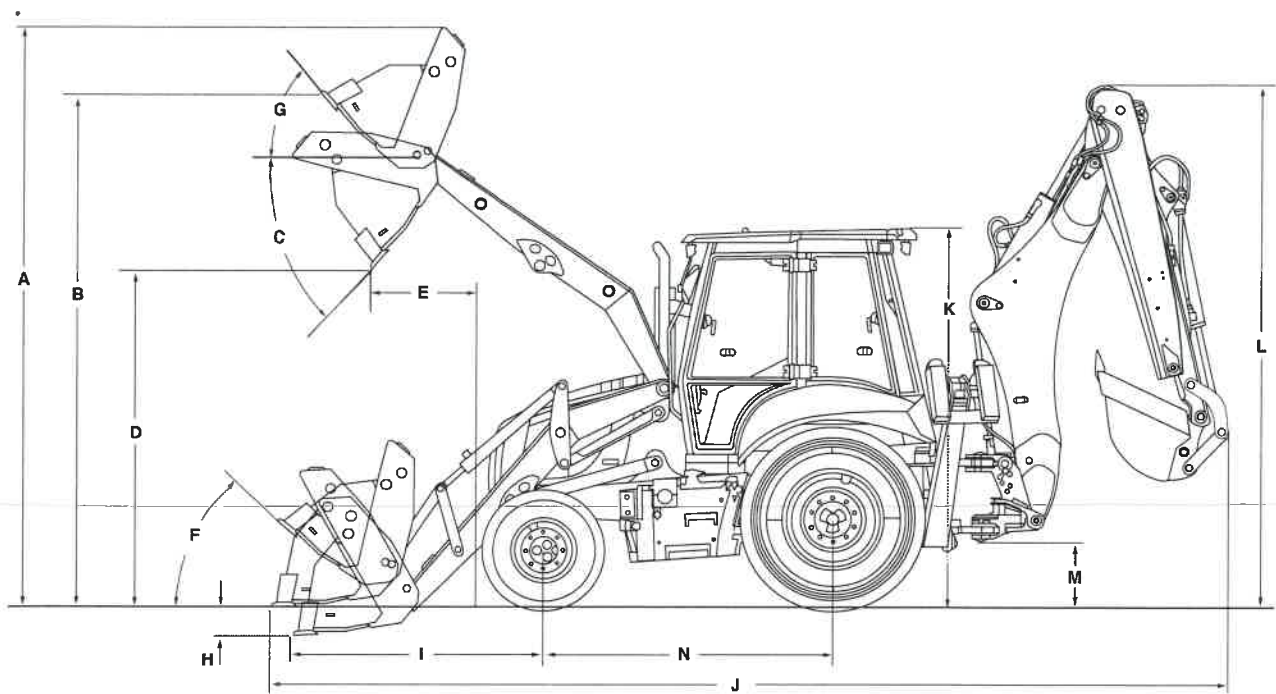
LOADER BUCKET SIZES

Type	Width	Weight	Struck	Heaped Capacity
Heavy Duty Bucket with bolt-on edge	89 in (2.30 m)	1,042 lb (473 kg)	1.05 yd ³ (0.80 m ³)	1.30 yd ³ (1.00 m ³)
	94 in (2.40 m)	1,115 lb (506 kg)	1.20 yd ³ (0.92 m ³)	1.50 yd ³ (1.15 m ³)
4 IN 1 [®] Bucket with bolt-on edge	89 in (2.30 m)	1,721 lb* (781 kg)	1.05 yd ³ (0.80 m ³)	1.30 yd ³ (1.00 m ³)

NOTE: *Weight of 4 IN 1[®] bucket includes cylinders and hoses.

BACKHOE BUCKET SIZES

Type	Width	Weight	Heaped Capacity
Heavy Duty	12 in (305 mm)	245 lb (111 kg)	2.8 ft ³ (0.08 m ³)
	18 in (457 mm)	302 lb (137 kg)	4.2 ft ³ (0.12 m ³)
	24 in (610 mm)	348 lb (158 kg)	6.0 ft ³ (0.17 m ³)
	30 in (762 mm)	388 lb (176 kg)	8.1 ft ³ (0.23 m ³)
	36 in (914 mm)	439 lb (199 kg)	9.9 ft ³ (0.28 m ³)
High Capacity Bucket	24 in (610 mm)	388 lb (176 kg)	7.1 ft ³ (0.20 m ³)



Line drawings are for illustrative purpose only and may not be exact representation of unit.

LOADER DIMENSIONS

	Heavy Duty Bucket	4 IN 1 [®] Bucket
A. Overall operating height – fully raised	13 ft 11 in (4.25 m)	14 ft 5 in (4.38 m)
Height to:		
B. Bucket hinge pin fully raised	11 ft 11 in (3.63 m)	11 ft 1 in (3.38 m)
C. Dump angle at full height	47°	47°
D. Dump clearance at full height, 45° dump: Bucket	9 ft 3 in (2.84 m)	8 ft 4 in (2.55 m)
E. Dump reach at full height, 45° dump – from bumper: Bucket	2 ft 9 in (829 mm)	2 ft 8 in (824 mm)
Bucket rollback:		
F. @ Groundline	42°	42°
G. @ Full height	50°	50°
H. Digging depth below grade: Bucket flat	5.0 in (120 mm)	8.6 in (219 mm)
I. Reach from front axle centerline – bucket on ground	—	6 ft 10 in (2.07 m)
Lift capacity to full height – calculated values	7,758 lb (3 520 kg)	7,044 lb (3 195 kg)
Breakout force:		
Lift cylinders	8,391 lbf (3 728 daN)	8,041 lbf (3 577 daN)
Dump cylinders	15,670 lbf (6 970 daN)	14,950 lbf (6 650 daN)
Raising time to full height	3.4 sec	3.4 sec
Bucket dumping time	2.3 sec	2.3 sec
Lowering time:		
Power down	2.8 sec	2.8 sec
Clam:		
Open time	—	1.9 sec
Close time	—	1.4 sec

NOTE: Loader dimensions taken with 4WD, 14 x 17.5 front tires and 16.9 L x 28.0 rear tires.

DIMENSIONS

	Center Pivot Backhoe with 16.9 L x 28.0 tires	Side Shift Backhoe with 16.9 L x 28.0 tires
J. Overall transport length: Heavy Duty bucket	23 ft 7 in (7.19 m)	19 ft 3 in (5.87 m)
Overall transport width	8 ft 2 in (2.48 m)	7 ft 10 in (2.39 m)
Height:		
K. To top of cab	9 ft 5 in (2.86 m)	9 ft 5 in (2.86 m)
L. Transport	13 ft 0 in (3.96 m)	12 ft 10 in (3.90 m)
M. Ground clearance at backhoe frame	13.4 in (341 mm)	11.3 in (286 mm)
Angle of departure	25°	20°
N. Wheelbase: 16.9 x 28.0 tires	7 ft 2 in (2.18 m)	7 ft 2 in (2.18 m)

CYLINDERS

	Bore Diameter	Rod Diameter	Stroke	Closed Length
Loader:				
Lift – 2	3.54 in (90 mm)	1.97 in (50 mm)	28.62 in (727 mm)	40.94 in (1 040 mm)
Dump – 2	3.25 in (82.6 mm)	1.75 in (44.5 mm)	30.59 in (777 mm)	40.16 in (1 020 mm)
4 IN 1° clam – 2	3.00 in (76.2 mm)	1.75 in (44.5 mm)	9.08 in (230.6 mm)	19.62 in (498.3 mm)
Backhoe:				
14 ft Boom	5.12 in (130 mm)	2.56 in (65 mm)	35.71 in (907 mm)	47.52 in (1 207 mm)
14 ft Dipperstick	4.92 in (125 mm)	2.56 in (65 mm)	27.60 in (701 mm)	39.72 in (1 009 mm)
Bucket	3.54 in (90 mm)	2.56 in (65 mm)	30.00 in (762 mm)	42.24 in (1 073 mm)
14 ft Extendahoe®	2.95 in (75 mm)	1.77 in (45 mm)	41.34 in (1 050 mm)	55.12 in (1 400 mm)
Swing – 2	4.33 in (110 mm)	1.97 in (50 mm)	9.40 in (238.5 mm)	5.40 in (137.1 mm)
Stabilizer – 2	3.94 in (100 mm)	2.20 in (56 mm)	24.8 in (630 mm)	37.01 in (940 mm)

AXLE RATINGS

	Rear	Front – 4WD
Maximum static	--	46,367 lbf (20 625 daN)
Dynamic operating	16,861 lbf (7 500 daN)	18,546 lbf (8 250 daN)
Static operating	42,152 lbf (18 750 daN)	46,367 lbf (20 625 daN)
Oscillation – front axle	--	22° total – 11° side to side

BACKHOE LIFT CAPACITIES

In-Line Cylinder Standard Backhoe		In-Line Cylinder Backhoe with Extendahoe®			
		Retracted		Extended	
	14 ft Backhoe	14 ft Backhoe	15 ft Backhoe	14 ft Backhoe	15 ft Backhoe
Boom Lift	Lift Capacity lb (kg)	Lift Capacity lb (kg)	Lift Capacity lb (kg)	Lift Capacity lb (kg)	Lift Capacity lb (kg)
+16 ft (4.87 m)	3,574 (1 624)	3,055 (1 389)	3,168 (1 440)	1,844 (838)	2,409 (1 095)
+14 ft (4.27 m)	4,023 (1 829)	3,516 (1 598)	3,729 (1 695)	2,513 (1 142)	2,607 (1 185)
+12 ft (3.66 m)	4,139 (1 881)	3,597 (1 635)	3,828 (1 740)	2,582 (1 174)	2,673 (1 215)
+10 ft (3.05 m)	4,069 (1 850)	3,539 (1 609)	3,784 (1 720)	2,594 (1 179)	2,706 (1 230)
+8 ft (2.44 m)	3,954 (1 797)	3,424 (1 556)	3,454 (1 570)	2,571 (1 169)	2,673 (1 215)
+6 ft (1.83 m)	3,816 (1 734)	3,309 (1 504)	3,245 (1 475)	2,536 (1 153)	2,563 (1 165)
+4 ft (1.22 m)	3,689 (1 677)	3,193 (1 451)	3,135 (1 425)	2,490 (1 132)	2,497 (1 135)
+2 ft (0.61 m)	3,574 (1 624)	3,078 (1 399)	3,080 (1 400)	2,455 (1 116)	2,464 (1 120)
Ground Level	3,470 (1 577)	2,986 (1 357)	3,102 (1 410)	2,409 (1 095)	2,464 (1 120)
-2 ft (0.61 m)	3,366 (1 530)	2,894 (1 315)	3,179 (1 445)	2,375 (1 079)	2,508 (1 140)
-4 ft (1.22 m)	3,297 (1 499)	2,813 (1 279)	3,113 (1 415)	2,352 (1 069)	2,530 (1 150)
-6 ft (1.83 m)	3,239 (1 472)	2,755 (1 252)	3,069 (1 395)	2,329 (1 058)	2,519 (1 145)
-8 ft (2.44 m)	3,228 (1 467)	2,732 (1 242)	3,047 (1 385)	2,329 (1 058)	2,530 (1 150)
-10 ft (3.05 m)	3,343 (1 520)	2,801 (1 273)	3,113 (1 415)	2,363 (1 074)	2,563 (1 165)
-12 ft (3.66 m)	3,574 (1 624)	3,090 (1 404)	3,586 (1 630)	2,467 (1 121)	2,662 (1 210)
-14 ft (4.27 m)	—	—	—	2,859 (1 300)	2,915 (1 325)
Dipper Lift					
+14 ft (4.27 m)	—	—	—	3,613 (1 642)	3,388 (1 540)
+12 ft (3.66 m)	5,545 (2 520)	4,948 (2 249)	4,312 (1 960)	3,935 (1 789)	3,311 (1 505)
+10 ft (3.05 m)	5,330 (2 423)	5,819 (2 645)	4,158 (1 890)	3,875 (1 762)	3,267 (1 485)
+8 ft (2.44 m)	5,437 (2 472)	5,819 (2 645)	4,202 (1 910)	3,923 (1 783)	3,300 (1 500)
+6 ft (1.83 m)	5,962 (2 710)	5,819 (2 645)	4,488 (2 040)	4,102 (1 864)	3,410 (1 550)
+4 ft (1.22 m)	—	5,819 (2 645)	5,324 (2 420)	4,495 (2 043)	3,685 (1 675)
+2 ft (0.61 m)	—	—	—	5,390 (2 450)	4,191 (1 905)

NOTE: Boom and Dipper Lift Capacities are rated per SAE J31 and are 87% of the maximum hydraulic lift force available with the specified options.

BACKHOE OPERATIONAL DATA

	In-Line Cylinder 14 ft Standard Backhoe	In-Line Cylinder 15 ft Backhoe with Extendahoe®	
		Retracted	Extended
Digging depth:			
Maximum	14 ft 5 in (4.40 m)	15 ft 1 in (4.60 m)	18 ft 6 in (5.63 m)
Maximum with 15 ft standard backhoe	15 ft 0 in (4.51 m)	—	—
2 ft (610 mm) flat bottom	14 ft 3 in (4.34 m)	14 ft 11 in (4.55 m)	18 ft 4 in (5.58 m)
8 ft (2.44 m) flat bottom	13 ft 1 in (3.99 m)	13 ft 9 in (4.19 m)	17 ft 5 in (5.30 m)
Overall reach from swing pivot	18 ft 7 in (5.66 m)	19 ft 5 in (5.91 m)	23 ft 0 in (7.00 m)
Loading height	11 ft 9 in (3.57 m)	12 ft 1 in (3.68 m)	14 ft 2 in (4.32 m)
Loading reach	6 ft 9 in (2.05 m)	7 ft 0 in (2.13 m)	9 ft 9 in (2.98 m)
Swing arc	180°	180°	180°
Bucket rotation – speed hole	204°	204°	204°
Stabilizer spread – in up position	7 ft 6 in (2.30 m)	7 ft 6 in (2.30 m)	7 ft 6 in (2.30 m)
Digging force:			
Bucket cylinder – SAE rated 3,050 psi	13,795 lb (6 136 daN)	12,933 lb (5 755 daN)	12,933 lb (5 755 daN)
Dipper cylinder – SAE rated 3,050 psi	9,146 lb (4 070 daN)	8,100 lb (3 605 daN)	5,782 lb (2 573 daN)

NOTE: Lift capacities apply straight to the rear of prime mover. 4WD with 14 x 17.5 front tires, 16.9 x 28 rear tires, and equipped with 24 in (610 mm) heavy-duty bucket except as noted.

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

FPT F5 diesel
Selective Catalytic Reduction – SCR
Full flow engine oil filter
Aspirated air cleaner – replaceable dual element dry type with radial seal
Fuel filter with water trap
Radiator with de-aeration bottle
Antifreeze to -34° F (-37° C)
Electronic throttles – foot and rotary hand
Self-adjusting belt
High Pressure Common Rail computer controlled injection with diagnostic features
ECO Power Mode
Auto Engine Idle
Auto Engine Shutdown
Auto Protection Shutdown
Electronic Fuel Priming
Glow Plugs

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Speed selectable Auto Ride Control
ROPS/FOPS certified protective canopy

DRIVETRAIN

H-Type Powershift transmission, 4F-3R, hydraulic clutch shifting, kick down, transmission disconnect and FNR switch in loader control lever, includes auto shift mode

LOADER

Auxiliary hydraulics for loader-mounted equipment with thumb-operated proportional control
Hydraulic front quick coupler
Tool portfolio of additional attachments
Buckets – see page 2

DRIVETRAIN

Power Shuttle 4F-4R synchromesh transmission
Front axle:
4WD mechanically driven front axle with 14.0 L x 17.5 tires
Rear axle:
4WD heavy-duty outboard planetary drive, with 16.9 L x 28.0 tires
Torque converter – 11.8 in (300 mm)
On-the-go electric 4WD control
Electric F/R shuttle control
Electric differential lock control, push-button
Park brake, spring-applied, hydraulic release – SAHR

HYDRAULICS

Load Sensing Closed Center with Variable Volume Pump
Heavy-duty hydraulic oil cooler
7-micron, spin on oil filter

LOADER

Tool carrier loader arms with self leveling in both directions and return to dig; Single lever 4-function loader control: lift, dump, clutch cut-out, differential lock

BACKHOE

In-line cylinder curved boom backhoe design
Cleated dirt stabilizer pads (center pivot)
Mechanical Transport Lock

OTHER

Forward tilt engine hood
Front/Rear tie downs
Reflective logos
Signal Lights – cab and canopy:
2 rear tail/stop
2 front flashers/turn
2 rear flashers/turn
Working/Driving Lights – cab and canopy:
Adjustable halogen work lights – 55 W:
4 front
4 rear
Master disconnect switch and remote jump-start terminals
Hydrostatic steering
Backup alarm
Vertical spin-on engine oil, fuel and hydraulic filters
Tool Box

WARRANTY

1-Year/Unlimited-Hour Full-Coverage Base Limited Warranty
2-Year/2,000-Hour Extended Engine Warranty

BACKHOE

Backhoe design styles:
Side Shift
Center Pivot
Overlapping Cylinder Boom with Extendahoe®
1-way Auxiliary backhoe hydraulics for hammers, plate compactors or similar 1-way flow attachments
1-way/2-way Auxiliary backhoe hydraulics for hammers, plate compactors or similar 1-way flow attachments or switch to 2-way flow for augers or similar 2-way flow attachments
Backhoe Booms:
14 ft Standard Boom
14 ft Extendahoe®
15 ft Extendahoe®
Pilot operated control system:
Thumb-operated proportional Electro-Hydraulic Extendahoe® control
Thumb-operated horn button
Thumb-operated auxiliary hydraulic control
Infinitely adjustable towers
In-cab switchable “excavator to backhoe” control pattern change

Dirt stabilizer pads (side shift)
Universal Footstreet stabilizer pads (side shift)
Flip over stabilizer pads (center pivot)
Bucket quick coupler
Buckets – see page 2

OTHER

LED Working/Driving Light Package:
4 front
4 rear
Dual 12 volt batteries
Cold Weather Lubricants

TELEMATICS

CASE SiteWatch™ Telematics

SERVICE PARTS

3 inch seat belt
N Series compatible backhoe coupler for in-line cylinder backhoe

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CASE Construction Equipment is biodiesel-friendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.

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