City of South Daytona

Office of the City Manager / Department of Finance

Post Office Box 214960 • South Daytona, FL 32121 • 386/322-3060 • FAX 386/322-3099



To: James L. Gillis, Jr., City Manager

From: Jason Oliva, Finance Director

Date: March 8, 2025

Re: Consideration of approving the purchase of a Backhoe for the Public Works

Department in the amount of \$155,124 as budgeted in the current fiscal year.

The City can utilize a cooperative purchase contract with the Florida Sherriff's Association to buy a CASE 580SN 4WD Backhoe Loader for \$155,124. The backhoe will be a valuable piece of equipment used for storm preparation, storm clean up, parks maintenance and right-of-way maintenance.

Funds are currently available in the General Fund since the actual purchase price for the street sweeper and the bucket truck were below the budgeted amounts.

Since the individual cost of the equipment exceeds the City Manager's spending authority of \$25,000, City Council approval is required for this purchase. Staff recommends approving the purchase of a much-needed backhoe in the Public Works Department.



Innovative Equipment Services 2 LLC D/b/s CASE Power Equipment of FL WHAN I Week

MIAMI - HEADQUARTERS 12601 W. OKEECHOBEE RD HIALEAH GARDENS, FL. 33018 FORT MYERS 3051 HANSON ST. FT. MYERS, FL 33916 ORLANDO 9481 BOGGY CREEK RD ORLANDO, FL. 32824 TAMPA 1504 TAMPA EAST BLVD TAMPA, FL 33619 WEST PALM BEACH 1150 BARNETT DRIVE LAKE WORTH, FL 33461 Jacksonville 9235 Busch Dr NORTH Jacksonville, FL 32218

ATTN	DANIEL O'FLAHERTY		
ORGANIZATION	CITY OF SOUTH DAYTONA		
DEPARTMENT			
ADDRESS:	1770 SEAGRAVE ST		
CITY, STATE, ZIP	SOUTH DAYTONA, FL, 32119		
	386-322-3084		
FAX	N/A		
EMAIL	DOFLAHERTY@SOUTHDAYTONA.ORG		
Contract# FSA23-EQ	U21.0, EQUIPMENT		
		Contract price	Item.#
Base Unit CASE 580S	N 4WD BACKHOE LOADER BASE PRICE	\$141,000.00	
Downgrad			
e 01.1	1.0 - to at Outions Assembling to Dage Build on		
State	ed Contract Options According to Base Build on Spec		
580SN 4WD T4 FINAL	580SN 4WD T4 FINAL 17,810- LB	STANDARD	
ENGINE	FPT 4 CYL, 95HP	STANDARD	
123059	4WD POWER SHUTTLE TRANSMISSION	STANDARD	
3201110	12x16.5, 10PR LUG TREAD	STANDARD	
3401140	19.5LX24, 10PR STD	STANDARD	
300015	STD 19.5L X 24, 12PR (586H)	STANDARD	
164071	NO AUX & STD DIP	STANDARD	
123010	HEAVY FRONT CWT, STD.	STANDARD	
142018	MECHANICAL QUICK COUPLER	STANDARD	
123069	24" UNIVERSAL BUCKET	STANDARD	
142056	FLIP OVER/STABILIZER PADS COMB	STANDARD	
164077	RIDE CTRL & CM STEER	STANDARD	
747539	93" HD LONG LIP W/ CUTTING EDGE (1.3 CUYD)	STANDARD	
142082	CANOPY, ROPS	STANDARD	
747851	MECH SUSP, VINYL, W/ ARMRESTS	STANDARD	
		STANDARD	
	BASE & EXTENDED COVERAGE: 1 YEAR / UNLIMITED-HOUR		
	FULL COVERAGE BASE LIMITED WARRANTY; 2YEAR/2000	INCLUDED	
	HOUR EXTENDED ENGINE WARRANTY	INCLUDED	
	AND SITEWATCH TELEMATICS	INCLUDED	
24.05.4.05.0	TOTAL INVESTMENT	141,000.00	1
<u>PAGE 1 OF 2</u>	TOTAL INVESTIGIENT	141,000.00	



POWER & Innovative Equipment Services 2 LLC Dybra CASE Power Equipment

		TOTAL FR	OMPAGE1	\$141,000.00	
STATE	ED CONTRACT OPTIONS			AMOUNT	<u>Item</u> Op
123062	POWERSHIFT H-TYPE TRANSMISSION			\$3,851.00	209
164074	1-WAY OR 2-WAY AUX & EHOE PKG			\$8,367.00	209
23078	PILOT CONTROLS W/ POWER LIFT			\$3,017.00	209
42018	BACKHOE MECHANICAL QUICK COUPLE	ER		\$998.00	209
42056	FLIP OVER/ STABILIZER PADS COMB			\$744.00	209
64078	RC & CS & 3SPL PKG			\$2,803.00	209
47855	CAB, LH DOOR W/ HEATER/AC	9		\$8,273.00	209
45161	PREMIUM AIR SUSP HEATED			\$773.00	209
45242	LED LIGHT PACKAGE			\$945.00	209
9172562:	5 93" BUCKET, PIN-ON, 4X1			\$10,306.00	209
NON-	STATED CONTRACT OPTIONS	MSRP	DISC%	AMOUNT	<u>Item</u>
45274	- HYDRAULIC THUMB	\$3,985.00	20%	\$3,188.00	209
				\$	
				\$	
				\$	
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				\$ -	
	SUBTOTAL	FOR COMPLETE	BUILD	\$184,265.00	
					_
TC	TAL MACHINE COST BEFORE CPE FLOR	RIDA DISCOUNT		\$184,265.00	-
01	NE-TIME CPE of FLORIDA, LOYALTY CUS' SCOUNT Valid Only Through March 31st,	TOMER ADDITIONAL	ADJUSTMENT IT DISCOUNT	-\$29,141.28	
TOTAL INVESTMENT PRICE FOB			\$155,123.72		
	New Orders ETA - APPROX. 60 - 120	DAYS, This is subject	t to change by the	manufacture.	

PAGE 2 OF 2





THANK YOU FOR THE OPPORTUNITY TO EARN YOUR BUSINESS!

Anthony.nieto@casepowered.com CELL (689) 323-7987



580SN

BACKHOE LOADER
TIER 3 CERTIFIED



ENGINE	
Model	FPT F4HE0484G
Emissions Certification	Tier 3
Type 4-	stroke, Turbocharged
Cylinders	4
Bore/Stroke	4.09 x 5.19 in (104 x 132 mm)
Displacement	274 in ³ (4.5 L)
Fuel injection	Direct, high pressure common rail – HPCR
Fuel	Diesel
Engine speeds* Rated speed – full load Low idle High idle – no load	RPM 2200 900 – 1000 2330 – 2430
Horsepower @ 2200 RPM: Gross Net w/ viscous fan** Net	97 hp (72 kW) 95 hp (71 kW) 92 hp (68 kW)
Maximum torque @ 1400 F Gross Net w/ viscous fan** Net	RPM: 334 lb·ft (453 N·m) 333 lb·ft (452 N·m) 328 lb·ft (445 N·m)
Torque rise at rated speed	45% +/- 5%
Radiator: Core type Core size area Rows of tubes	Square wave 486 in² (3 145 cm²) 3
Fan: Style Diameter Angle – std. Ratio	7 blade suction 19.65 in (499 mm) 33° 1.1:1

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

Pump operating angle ratings:

Side to side

Fore and aft

Oil filtration

DRIVETRAIN

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

Transmission – optional:
Powershift S-Type, 4F-3R Power Shuttle,
Synchromesh transmission w/ hydraulic
gear shifting

Specifications below apply to both Power Shuttle and Powershift S-Type transmission unless otherwise indicated.

Gear ratios	Fo	rward/Reverse
1st		5.603/4.643
2nd		3.481/2.884
3rd		1.584/1.313
4th		0.793/0.657*
Travel speeds	Forward	Reverse
	mph (kph)	mph (kph)
1st	3.8 (6.1)	4.5 (7.3)
2nd	6.0 (9.7)	7.2 (11.6)
3rd	12.8 (20.6)	15.4 (24.7)
4th	24.0 (38.6)	28.8 (46.3)*

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

Gear ratios		Forward/Reverse
1st		5.533/4.549
2nd		3.359/2.762
3rd		1.533/1.260
4th		0.811/—
Travel speeds	Forward	Reverse
	mph (kph)	mph (kph)
1st	3.9 (6.2)	4.6 (7.4)
2nd	6.3 (10.1)	7.5 (12.1)
3rd	13.3 (21.4)	16.0 (25.7)
4th	23.6 (38.0)	
Torque converter	ratio	2.6

Torque converter ratio 2.6

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

Front 4WD/Rear axle:

 Point 4WD/Hear axie:

 Differential ratio
 2.0/2.5

 Planetary hub ratio
 6.0/6.4

 Total reduction ratio
 12.0/16.0

Service brakes:

Rated 35°

Rated 35°

Replaceable.

full flow cartridge

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: *4R not available on Powershift S-Type.
Travel speeds at 2293 engine
RPM specified: w/ 19.5 x 24.0 tires.
Speeds decrease w/ 17.5 L x 24.0 rear tires.
Travel speeds at 2312 engine
RPM specified: w/ 19.5 x 24.0 tires.
Speeds decrease w/ 17.5 L x 24.0 rear tires.

Voltage 12 Volts, negative ground Alternator 120 amp Battery 850 cold-cranking amps Opt. batteries – 2 850 cold-cranking amps Power plugs – 2 30 amps total

OPERATOR ENVIRONMENT

ROPS/FOPS certified protective canopy; Anti-vandalism cover for dash – w/ canopy only; Rear fenders extensions; Coat hook w/ garment strap; Interior rearview mirror, convex 3.54 in (90 mm) wide x 10.83 in (275 mm) high; Non-suspension seat – 180° swivel – Vinyl; 2 in (50 mm) retractable seat belt; Cup holder/storage tray mounted on left-hand fender; Right-hand storage compartment w/ lid.

Gauges:

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

Warning lights:

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

Audible alarms w/ diagnostics:
Coolant temperature; Engine oil pressure;
Parking brake engagement; Converter oil
temperature; Shuttle engagement/seat
position; Backup alarm.

Horn Dual switched front and rear

OPERATING WEIGHT

Configuration 1 – SAE Transport:

82 in (2.08 m) LL bucket, 4WD, 19.5 L x 24.0 rear tires, standard dipper, 24 in HD bucket, flip stabilizer pads, ROPS cab, non-suspension seat, dual battery, no operator:

16,239 lb (7 366 kg)

Configuration 2 – SAE Transport:

82 in (2.08 m) loader bucket, 4WD, 19.5 L x 24.0 rear tires, Extendahoe®, 24 in HD bucket, flip stabilizer pad, 700 lb CWT, ROPS cab, cloth seat, dual battery, mechanical backhoe coupler, no operator, power synchro-transmission:

17,226 lb (7 814 kg)

Add-on weights:

Cab-over canopy	309 lb (140 kg)
Fabricated stabilizer pads	141 lb (64 kg)
Counterweights	700 lb (318 kg)
Extendahoe®	286 lb (130 kg)
4WD w/ driveshaft guard	283 lb (128 kg)

HYDRAULICS

Pump:

Bosch Rexroth Series 31 Variable Displacement Axial Piston Pump

Main relief pressure:

Standard 3,450 +/- 50 psi (238 +/- 3.5 bar)

Power Lift 3,625 +/- 50 psi (250 +/- 3.5 bar)

Filtration:

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

Oil cooler Heavy-duty

Loader flow @ rated engine RPM:

41 gpm @ 2,340 psi (156.2 L/min @ 161 bar)

Loader control valve w/ pilot or manual backhoe controls:

Two or three-spool closed center sectional control valve. Single lever manual control for lift and tilt functions. The three-spool valve uses a proportional Electro-Hydraulic control for the auxiliary function. The lift lever has a positive hold "Float" position and a "return-to-dig" feature.

Loader auxiliary hydraulics w/ proportional thumb switch w/ detent on loader control handle:

0 to 41 gpm @ 2,340 psi (0 to 156.2 L/min @ 161 bar)

Backhoe flow @ rated engine RPM:

41 gpm @ 3,100 psi (156.2 L/min @ 161 bar)

Manual backhoe control valve:

Six or seven-spool monoblock open center control valve. Features "Pro-Control" which includes custom designed spools for each individual function along w/ "swing cushioning" valve for zero-wag swing control. Basic control valve has an open center parallel circuit for all functions.

Pilot backhoe control valve:

Six, seven, or eight-spool sectional closed center control valve. Features "Pro-Control" which includes custom designed spools for each individual function along w/ "swing cushioning" valve for zero-wag swing control. Basic control valve is closed center, w/ circuits in parallel w/ a post-compensated, flow sharing feature for simultaneous operation of all circuits.

Unidirectional auxiliary hydraulics:

Unidirectional hydraulic valve is equipped w/ an adjustable LS relief valve to control attachment pressure and a 6 position flow control selector for 6 detented, distinct flow settings.

Actuation:

Manual backhoe controls – cab floor pedal Pilot controls – left-hand joystick

Bidirectional auxiliary hydraulics*:

Actuation:

Activate the bidirectional switch located on the rear console

Manual shift – bidirectional linkage on far right of backhoe tower

Pilot controls - left-hand joystick.

NOTE: *Available w/ Combo Aux. Hyd. option.

SER		

Fuel tank	42.0 gal (159.0 L)
Hydraulic system:	
Total	126 qt (119.2 L)
w/ Extendahoe®	132 qt (124.9 L)
Reservoir w/ filter	58 qt (54.5 L)
Reservoir w/o filter	56 qt (52.6 L)
Transmission - total system:	
2WD Standard	18 qt (17.0 L)
2WD Powershift S-Type	23 qt (21.7 L)
4WD Standard	21 qt (19.4 L)
4WD Powershift S-Type	22 qt (20.7 L)
4WD Powershift H-Type	19 qt (18.0 L)

Front axle:	
4WD Differential	8.1 qt (7.7 L)
4WD Planetaries - each	0.5 qt (0.5 L)
Rear axle:	
Differential and planetaries	14.4 qt (13.6 L)
Engine oil w/ filter	14.4 qt (13.6 L)

OTHER SPECIFICATIONS

Loader:

Bucket position indicator; Lifting lugs on standard bucket; Single lever control w/ self-leveling and return-to-dig; Hand operated clutch disconnects on loader and shift levers, single lever 4-function loader control: lift, dump, clutch cut-out, differential lock.

Turning radius*: Curb to Curb:

Turning radius*: Curb to	Curb:
2WD:	
Brakes on	10 ft 8 in (3.24 m)
Brakes off	12 ft 4 in (3.76 m)
4WD - engaged:	
Brakes on	11 ft 0 in (3.36 m)
Brakes off	14 ft 2 in (4.31 m)
4WD - disengaged:	
Brakes on	10 ft 12 in (3.35 m)
Brakes off	12 ft 8 in (3.85 m)
Backhoe:	

Backho

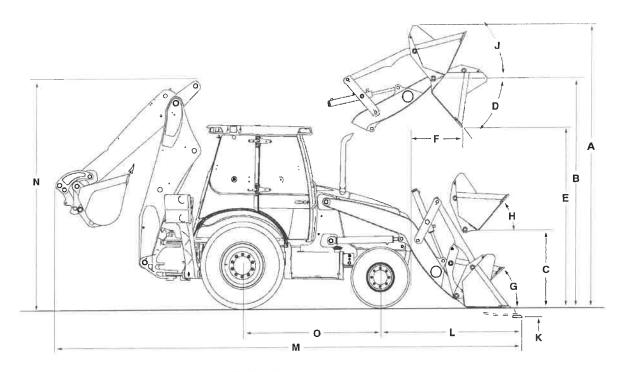
Over center design, Fabricated "S" boom; Pro Control System; Dipperstick integrated serrated gripper teeth; Case mechanical coupler.

NOTE: *Turning radius dimensions curb to curb w/ 17.5 L x 24.0 tires.

LOADER BUCKET SIZES					
Туре	Width	Weight	Struck	Heaped Capacity	
Long Lip Bucket:					
without bolt-on edge	82 in (2.08 m)	864 lb (392 kg)	0.88 yd³ (0.67 m³)	1.03 yd³ (0.79 m³)	
with bolt-on edge	93 in (2.36 m)	1,188 lb* (539 kg)	1.10 yd³ (0.89 m³)	1.29 yd ³ (0.99 m ³)	
4 IN 1® Bucket with bolt-on edge	82 in (2.08 m)	1,572 lb* (713 kg)	0.85 yd³ (0.65 m³)	1.04 yd³ (0.80 m³)	

NOTE: *Weight of 4 IN 1® bucket includes edges, cylinders and tube lines.

BACKHOE BUCKET SIZES	117.14	Mainte	Heaped Capacity
Type	Width	Weight	neaped Capacity
Universal Buckets	12 in (305 mm)	295 lb (134 kg)	3.40 ft ³ (0.10 m ³
Oniversal Backets	18 in (457 mm)	356 lb (162 kg)	5.30 ft ³ (0.15 m ³)
	24 in (610 mm)	427 lb (194 kg)	7.70 ft ³ (0.22 m ³)
	30 in (762 mm)	489 lb (222 kg)	10.20 ft ³ (0.29 m ³)
	36 in (914 mm)	552 lb (251 kg)	12.70 ft ³ (0.36 m ³)
High Capacity Buckets	24 in (610 mm)	447 lb (203 kg)	8.50 ft ³ (0.24 m ³)
Then Capacity Backets	30 in (762 mm)	502 lb (228 kg)	10.60 ft ³ (0.30 m ³



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

(2) 교육 - 시교육 (2) - (2) - (2) - (2) - (3) - (3) - (4)	Long Lip Bucket	4 IN 1® Bucket
A. Overall operating height – fully raised	13 ft 9 in (4.18 m)	13 ft 8 in (4.16 m
Height to:		
B. Bucket hinge pin fully raised	11 ft 3 in (3.42 m)	11 ft 3 in (3.42 m)
C. Bucket hinge pin at SAE carry	13.6 in (345 mm)	13.6 in (345 mm
D. Dump angle at full height	47°	47°
E. Dump clearance at full height, 45° dump:		
Bucket	8 ft 10 in (2.69 m)	8 ft 11 in (2.71 m
Clam open	<u> </u>	9 ft 8 in (2.96 m
F. Dump reach at full height, 45° dump – from bumper:		
Bucket	31.5 in (801 mm)	29.1 in (738 mm)
Clam open	<u> </u>	15.3 in (388 mm
Bucket rollback:		
G. @ Groundline	42°	42'
H. @ SAE carry	42°	42'
J. @ Full height	Adjustable	Adjustable
K. Digging depth below grade:	0.41 (455	4.0 % (400
Bucket flat	6.1 in (155 mm)	4.8 in (122 mm
Clam open – dozing		4.1 in (103 mm)
L. Reach from front axle centerline - bucket on ground	6 ft 10 in (2.07 m)	6 ft 8 in (2.03 m
Lift capacity to full height – calculated values	7,044 lb (3 195 kg)	6,703 lb (3 040 kg
Breakout force:		0.040 # /4.050 #.N
Lift cylinders	9,833 lb (4 460 daN)	9,610 lb (4 359 daN
Dump cylinders	10,947 lb (4 965 daN)	11,658 lb (5 288 daN
Bucket cutting edge width	82.5 in (2.09 m)	82.0 in (2.08 m
Maximum grading angle	114°	114
Maximum clam opening		38.3 in (972 mm
Moldboard height		36.8 in (934 mm
Raising time to full height – manual/pilot controls	3.4/3.6 sec	3.4/3.6 sec
Bucket dumping time	1.8/2.0 sec	1.8/2.0 sed
Lowering time:		
Power down	2.5/2.6 sec	2.5/2.6 se
Return-to-dig	3.6/2.8 sec	3.6/2.8 sec
Clam:		1.0
Open time	- -	1.3 se 1.1 se
Close time		1.1 Se

NOTE: Loader dimensions taken with 4WD, 19.5 L x 24.0 rear tires.

	2WD with 17.5 L x 24.0 rear tires	4WD with 19.5 L x 24.0 tires
M. Overall transport length:		
Long Lip bucket with Quick Coupler	23 ft 5 in (7.14 m)	23 ft 4 in (7.10 m)
4 IN 1® bucket with Quick Coupler	23 ft 3 in (7.07 m)	23 ft 1 in (7.04 m)
Long Lip bucket with Straight Links	23 ft 6 in (7.15 m)	23 ft 4 in (7.12 m)
4 IN 1® bucket with Straight Links	23 ft 3 in (7.09 m)	23 ft 2 in (7.06 m)
Overall transport width	7 ft 2 in (2.17 m)	7 ft 2 in (2.17 m)
Height:		
To top of canopy	8 ft 8 in (2.64 m)	8 ft 9 in (2.66 m)
To top of cab	8 ft 9 in (2.68 m)	8 ft 11 in (2.72 m)
To top of exhaust stack	8 ft 5 in (2.58 m)	8 ft 7 in (2.62 m)
N. Transport	10 ft 10 in (3.29 m)	11 ft 1 in (3.37 m)
Ground clearance at backhoe frame	12 in (304 mm)	15.0 in (381 mm)
Angle of departure	15.3°	19.0°
Front wheel tread:		
11.0 L x 16.0	67.5 in (1.72 m)	-
12.0 x 16.5	67.7 in (1.72 m)	-
19.5 x 24.0	61.2 in (1.55 m)	_
17.5 L x 24.0	63.1 in (1.60 m)	
Width over tires:		
11.0 L x 16.0	79.3 in (2.02 m)	-
12.0 x 16.5	81.1 in (2.06 m)	-
19.5 x 24.0	81.4 in (2.07 m)	
17.5 L x 24.0	81.7 in (2.07 m)	
O. Wheelbase:		
19.5 L x 24.0	84.0 in (2.13 m)	84.5 in (2.15 m)
17.5 L x 24.0	84.0 in (2.13 m)	84.5 in (2.15 m)

CYLINDERS (CALLED TO THE CALLED TO THE CALLE					
) \$1 128 141 12	Bore Diameter	Rod Diameter	Stroke	Closed Length	
Loader:					
Lift – 2	3.25 in (82.6 mm)	1.75 in (44.5 mm)	28.86 in (733.0 mm)	42.95 in (1 062.0 mm)	
Dump – 2	3.00 in (76.2 mm)	1.50 in (38.1 mm)	20.33 in (516.5 mm)	29.90 in (759.5 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:					
Boom	5.00 in (127.0 mm)	2.50 in (63.5 mm)	38.25 in (971.6 mm)	52.82 in (1 341.6 mm)	
Dipperstick	4.75 in (120.7 mm)	2.50 in (63.5 mm)	25.14 in (628.5 mm)	39.65 in (1 007.0 mm)	
Bucket	3.50 in (88.9 mm)	2.50 in (63.5 mm)	35.35 in (897.9 mm)	48.17 in (1 223.6 mm)	
Extendahoe®	3.00 in (76.2 mm)	1.75 in (44.5 mm)	42.05 in (1 068.0 mm)	56.22 in (1 428.0 mm)	
Swing – 2	4.00 in (101.6 mm)	2.00 in (50.8 mm)	11.50 in (292.0 mm)	24.44 in (620.8 mm)	
Stabilizer – 2	4.50 in (114.3 mm)	2.25 in (57.2 mm)	21.37 in (542.9 mm)	33.87 in (860.2 mm)	

AXLE RATINGS				
The Control of the Co	Front - 2WD	Rear	Front – 4WD	
Maximum static	70,821 lb (32 124 kg)	90,145 lb (40 889 kg)	64,613 lb (29 308 kg)	
Dynamic operating	44,261 lb (20 076 kg)	56,200 lb (25 492 kg)	39,328 lb (17 839 kg)	
Static operating	17,704 lb (8 030 kg)	22,480 lb (10 197 kg)	15,732 lb (7 136 kg)	
Oscillation – front axle	22° total – 11° side to side	<u>-</u>	22° total – 11° side to side	

	Standard Backhoe			Exten	dahoe®		
			Retracted		Ex	Extended	
	Standard	Power Lift	Standard	Power Lift	Standard	Power Lift	
Boom Lift	Lift Capacity	Lift Capacity	Lift Capacity	Lift Capacity	Lift Capacity	Lift Capacity	
	lb (kg)	lb (kg)	lb (kg)	lb (kg)	lb (kg)	lb (kg)	
+16 ft (4.87 m)			_	_	2,115 (959)	2,298 (1 043)	
+14 ft (4.27 m)	3,039 (1 378)	3,285 (1 490)	2,837 (1 287)	3,083 (1 398)	2,395 (1 086)	2,603 (1 181)	
+12 ft (3.66 m)	3,413 (1 548)	3,691 (1 674)	3,201 (1 452)	3,479 (1 578)	2,536 (1 151)	2,757 (1 250)	
+10 ft (3.05 m)	3,499 (1 587)	3,784 (1 716)	3,281 (1 488)	3,566 (1 618)	2,593 (1 176)	2,818 (1 278)	
+8 ft (2.44 m)	3,485 (1 581)	3,768 (1 709)	3,263 (1 480)	3,546 (1 608)	2,564 (1 163)	2,786 (1 264)	
+6 ft (1.83 m)	3,438 (1 559)	3,717 (1 686)	3,213 (1 457)	3,492 (1 584)	2,549 (1 156)	2,770 (1 257)	
+4 ft (1.22 m)	3,374 (1 530)	3,648 (1 655)	3,146 (1 427)	3,420 (1 551)	2,521 (1 144)	2,741 (1 243)	
+2 ft (0.61 m)	3,307 (1 500)	3,575 (1 622)	3,077 (1 396)	3,345 (1 517)	2,489 (1 129)	2,706 (1 227)	
Ground Level	3,251 (1 475)	3,513 (1 594)	3,018 (1 369)	3,280 (1 488)	2,489 (1 129)	2,706 (1 227)	
-2 ft (0.61 m)	3,201 (1 452)	3,459 (1 569)	2,965 (1 345)	3,223 (1 462)	2,466 (1 118)	2,680 (1 215)	
-4 ft (1.22 m)	3,175 (1 440)	3,430 (1 556)	2,935 (1 331)	3,190 (1 447)	2,446 (1 109)	2,659 (1 206)	
-6 ft (1.83 m)	3,182 (1 443)	3,437 (1 559)	2,938 (1 333)	3,193 (1 448)	2,443 (1 108)	2,656 (1 205)	
-8 ft (2.44 m)	3,258 (1 478)	3,520 (1 597)	3,007 (1 364)	3,269 (1 483)	2,465 (1 118)	2,679 (1 215)	
-10 ft (3.05 m)	3,441 (1 561)	3,717 (1 686)	3,175 (1 440)	3,451 (1 565)	2,530 (1 148)	2,750 (1 248)	
-12 ft (3.66 m)		_	_	_	2,707 (1 228)	2,943 (1 335)	
-14 ft (4.27 m)	_	_	_	_	3,239 (1 469)	3,521 (1 597)	
Dipper Lift							
+14 ft (4.27 m)		_	_	_	4,281 (1 942)	4,281 (1 942)	
+12 ft (3.66 m)	5,822 (2 641)	5,822 (2 641)	5,618 (2 548)	5,618 (2 548)	4,046 (1 835)	4,046 (1 835)	
+10 ft (3.05 m)	5,600 (2 540)	5,600 (2 540)	5,399 (2 449)	5,399 (2 449)	3,984 (1 807)	3,984 (1 807)	
+8 ft (2.44 m)	5,562 (2 523)	5,562 (2 523)	5,360 (2 431)	5,360 (2 431)	3,913 (1 775)	3,913 (1 775)	
+6 ft (1.83 m)	6,236 (2 829)	6,236 (2 829)	6,030 (2 735)	6,030 (2 735)	4,166 (1 889)	4,166 (1 889)	
+4 ft (1.22 m)	7,424 (3 368)	7,424 (3 368)	7,203 (3 267)	7,203 (3 267)	4,102 (1 861)	4,102 (1 861)	
+2 ft (0.61 m)	7,424 (0 000)	-, ()	_		4,850 (2 200)	4,850 (2 200)	

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			F. 38 1 L. 3 L. 3		
	Standard Backhoe	Exte	Extendahoe®		
		Retracted	Extended		
Digging depth:			47.0.44 := (5.47 ==)		
Maximum	14 ft 6 in (4.41 m)	14 ft 6 in (4.41 m)	17 ft 11 in (5.47 m)		
Maximum with hi-capacity bucket	15 ft 0 in (4.51 m)	15 ft 0 in (4.51 m)	18 ft 6 in (5.63 m)		
2 ft (610 mm) flat bottom	14 ft 4 in (4.37 m)	14 ft 4 in (4.37 m)	17 ft 10 in (5.43 m)		
8 ft (2.44 m) flat bottom	13 ft 4 in (4.06 m)	13 ft 4 in (4.06 m)	17 ft 1 in (5.19 m)		
Overall reach from:					
Rear axle centerline	21 ft 10 in (6.66 m)	21 ft 10 in (6.66 m)	25 ft 3 in (7.69 m)		
Swing pivot	18 ft 2 in (5.55 m)	18 ft 2 in (5.55 m)	21 ft 7 in (6.58 m)		
Loading height	12 ft 1 in (3.67 m)	12 ft 1 in (3.67 m)	14 ft 5 in (4.38 m)		
Loading reach	4 ft 7 in (1.41 m)	4 ft 7 in (1.41 m)	7 ft 3 in (2.20 m)		
Swing arc	180°	180°	180°		
Bucket rotation:					
Straight links	175.6°	175.6°	175.6°		
Mechanical coupler	198.0°	198.0°	198.0°		
Hydraulic coupler – Extendahoe® dipper	194.8°	194.8°	194.8°		
Hydraulic coupler - standard dipper	198.0°	198.0°	198.0°		
Stabilizer spread - operating:					
Flip pad	9 ft 3 in (2.82 m)	9 ft 3 in (2.82 m)	9 ft 3 in (2.82 m)		
Cast pad	9 ft 7.2 in (2.93 m)	9 ft 7.2 in (2.93 m)	9 ft 7.2 in (2.93 m)		
Digging force:					
Bucket cylinder - SAE rated 3,460 psi	13,576 lb (60 388 N)	13,576 lb (60 388 N)	13,576 lb (60 388 N)		
Bucket cylinder – Power Lift	14,223 lb (63 267 N)	14,223 lb (63 267 N)	14,223 lb (63 267 N)		
Dipper cylinder - SAE rated 3,460 psi	8,657 lb (38 508 N)	8,657 lb (38 508 N)	6,305 lb (28 045 N)		
Dipper cylinder – Power Lift	9,070 lb (40 345 N)	9,070 lb (40 345 N)	6,606 lb (29 382.7 N)		
Leveling angle:		11.00	14.00		
Flip pad	11.8°	11.8°	11.8°		
Cast pad	12.8°	12.8°	12.8°		

NOTE: Lift capacities apply straight to the rear of prime mover. 4WD with 19.5 L x 24.0 tires equipped with 24 in (610 mm) heavy-duty bucket and Case coupler except as noted.

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STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

FPT F4HE0484G diesel
Full flow engine oil filter
Air cleaner – replaceable dry type
with radial seal
Aspirated air cleaner
Muffler, non spark arresting
Fuel filter with water trap
Radiator with de-aeration bottle
Antifreeze to -34° F (-37° C)
Self-adjusting belt
Electronic throttles – foot and rotary hand
High Pressure Common Rail computer
controlled injection with diagnostic features

DRIVETRAIN

Standard Powershuttle, 4F-4R Power Shuttle Synchromesh transmission

Front axle:

2WD heavy-duty front axle with 11.0 L x 16.0 tires

4WD heavy-duty mechanically driven front axle with 12.0 x 16.5 tires and drive shaft guard

Rear axle:

2/4WD heavy-duty outboard planetary drive with 17.5 L x 24.0, 10 PR (R4) 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

Variable displacement axial piston pump Pump:

41 gpm @ 3,100 psi (156.2 L/min @ 207 bar)

Heavy-duty hydraulic oil cooler

7-micron, spin on oil filter

LOADER

See page 2

BACKHOE

See page 2

OTHER

Forward tilt engine hood

Replaceable, molded front bumpers

Front/Rear tie downs

Reflective logos

Lights - cab and canopy:

2 front driving

2 rear tail/stop

2 front flashers/turn

2 rear flashers/turn

Lights - cab only:

Adjustable halogen work lights - 55 W:

2 front

2 side - left and right

4 rear

Lights - canopy only:

Adjustable halogen work lights - 55 W:

2 front

2 side - left and right

4 rear

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Ride Control

Comfort Steering with momentary latching switch, two speed steering pump and 3rd/4th gear cutout

ROPS/FOPS certified protective cab with rear wipers and floor mat

Cab Convenience Package containing pull-down sun visor, window washer front and rear, left-hand storage tray, deluxe interior package, Sound Reduction Package for cab models - levels reduced to 72 dB (A), right-hand threshold storage box, viscous fan

Air-conditioning for cab models

Mechanical suspension seat with flip-up armrests, 180° swivel, cloth or vinvl. adjustable seat and weight, backrest angle, lumbar and cushion angle

Air Ride suspension seat with flip-up armrests, 180° swivel, electric height adjustment, adjustable back rest and lumbar support cab units cloth, canopy units vinyl

Pull-down sun visor for canopy models Radio, AM/FM Stereo/WB, MP3 auxiliary input - cab models

3 in (75 mm) seat belt for mechanical and air suspension seat

ENGINE

Cold Weather Starting Aid with dual 12 Volt batteries and grid heater

DRIVETRAIN

Powershift S-Type transmission, 4F-3R electronic transmission controller and kick down in loader control lever - 2WD or 4WD

Powershift H-Type transmission, 4F-3R hydraulic clutch shifting with auto function 4WD only

Rear axle heavy-duty outboard planetary drive with 19.5 L x 24.0 tires either 2WD or 4WD

LOADER

Auxiliary hydraulics for loader-mounted equipment with thumb-operated proportional control

Hydraulic front quick coupler Loader linkage without loader bucket Tool portfolio of additional attachments Buckets - see page 2

BACKHOE

Auxiliary backhoe unidirectional hydraulics Auxiliary backhoe combo hydraulics: Hand lever operated for manual controls Button operated for pilot controls includes unidirectional and bidirectional

Auxiliary hydraulics with flow from 0 to 41 gal/min (0 to 156.2 L/min)

Extendahoe®

Power Lift

Bolt-on hardened gripper teeth Two-lever control - backhoe or Extendahoe® Pilot operated control system:

Fingertip proportional Electro-Hydraulic stabilizer controls

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

Flip over stabilizer pads Cemetery pads Hydraulic bucket quick coupler

Buckets - see page 2

OTHER

Front:

11.0 x 16.0 or 12.0 x 16.5

Rear:

17.5 L x 24.0 or 19.5 L x 24.0

Special paint

Tool box - bolt-on, step-mounted

Front counterweights:

700 lb and 1,100 lb (318 kg and 500 kg)

Rotating beacon

Master disconnect switch and remote jump-start terminals

CaseCE.com

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



SAFETY" 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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