



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 <sup>3</sup> (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
Pump operating angle ratin Side to side Fore and aft Oil filtration	igs: Rated 35° Rated 35° Replaceable, full flow cartridge

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

Convenience package.

# 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		Forward/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 – o	ptional:	
Powershift H-Ty	/pe, 4F-3R hyd	raulic clutch
shifting w/ auto	function	
Gear ratios		Forward/Reverse

5.533/4.549 1st 3.359/2.762 2nd 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 Differential-lock On-the-go push-button activation Front 4WD/Rear axle: Differential ratio 2.0/2.5 Planetary hub ratio 6.0/6.4Total reduction ratio 12.0/16.0 Service brakes: Individually applied, power assisted, hydraulically actuated, maintenance-free, self-adjusting, outboard mounted, wet disc, 2 per side. Total disc area 384 in<sup>2</sup> (0.25 m<sup>2</sup>) 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.

# 5805 **BACKHOE LOADER**

**TIER 3 CERTIFIED** 

#### ELECTRICAL 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

Loader flow @ rated engine RPM:

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

Heavy-duty

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 "returnto-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.

SERVICE CAPACITIES	
Fuel tank	42.0 gal (159.0 L)
Hydraulic system: Total w/ Extendahoe <sup>®</sup> Reservoir w/ filter	126 qt (119.2 L) 132 qt (124.9 L) 58 qt (54.5 L)
Reservoir w/o filter Transmission – total system:	56 qt (52.6 L)
2WD Standard 2WD Powershift S-Type 4WD Standard 4WD Powershift S-Type	18 qt (17.0 L) 23 qt (21.7 L) 21 qt (19.4 L) 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)
Cooling system:	
w/ heater	19.0 qt (18.0 L)
w/o heater	18.3 qt (17.3 L)
Window washer reservoir	3.0 qt (2.8 L)

# **OTHER SPECIFICATIONS**

Front tires:	
2WD	11.0 L x 16.0, 10-ply rating
4WD	12.0 x 16.5, 8-ply rating
Rear tires:	
2/4WD	19.5 L x 24.0, 10-ply rating
2/4WD	17.5 L x 24.0, 10-ply rating

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:		
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:		
Over center design, Fabricated "S" boom;		
Pro Control System; Dipperstick integrated		

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

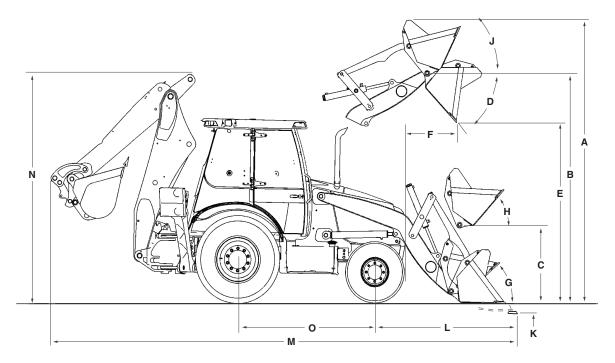
NOTE: \*Turning radius dimensions curb to curb w/ 17.5 L x 24.0 tires.

# 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 yd <sup>3</sup> (0.67 m <sup>3</sup> )	1.03 yd <sup>3</sup> (0.79 m <sup>3</sup> )
with bolt-on edge	93 in (2.36 m)	1,188 lb* (539 kg)	1.10 yd <sup>3</sup> (0.89 m <sup>3</sup> )	1.29 yd <sup>3</sup> (0.99 m <sup>3</sup> )
4 IN 1 <sup>®</sup> Bucket with bolt-on edge	82 in (2.08 m)	1,572 lb* (713 kg)	0.85 yd <sup>3</sup> (0.65 m <sup>3</sup> )	1.04 yd <sup>3</sup> (0.80 m <sup>3</sup> )

NOTE: \*Weight of 4 IN 1<sup>®</sup> bucket includes edges, cylinders and tube lines.

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



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

Long Lip Bucket 13 ft 9 in (4.18 m) 11 ft 3 in (3.42 m) 13.6 in (345 mm) 47° 8 ft 10 in (2.69 m)	13 ft 8 in (4.16 m) 11 ft 3 in (3.42 m) 13.6 in (345 mm) 47°
13.6 in (345 mm) 47°	13.6 in (345 mm) 47°
13.6 in (345 mm) 47°	13.6 in (345 mm) 47
47°	47'
8 ft 10 in (2.69 m)	
8 ft 10 in (2.69 m)	
	8 ft 11 in (2.71 m
_	9 ft 8 in (2.96 m
31.5 in (801 mm)	29.1 in (738 mm
_	15.3 in (388 mm
100	10
	42° 42°
	Adjustable
Agustusio	/ ajustable
6 1 in (155 mm)	4.8 in (122 mm
	4.1 in (103 mm
6 ft 10 in (2.07 m)	6 ft 8 in (2.03 m
7,044 lb (3 195 kg)	6,703 lb (3 040 kg
9,833 lb (4 460 daN)	9,610 lb (4 359 daN
10,947 lb (4 965 daN)	11,658 lb (5 288 daN)
82.5 in (2.09 m)	82.0 in (2.08 m)
114°	1149
_	38.3 in (972 mm
_	36.8 in (934 mm
3.4/3.6 sec	3.4/3.6 sec
1.8/2.0 sec	1.8/2.0 sec
2.5/2.6 sec	2.5/2.6 sec
3.6/2.8 sec	3.6/2.8 sec
_	1.3 sec 1.1 sec

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

DIMENSIONS		
	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 <sup>®</sup> 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 <sup>®</sup> 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					
	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 <sup>®</sup> 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			
	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	_	22° total – 11° side to side

	Standard	l Backhoe	Extendahoe®				
			Retracted		Ext	Extended	
	Standard	Power Lift	Standard	Power Lift	Standard	Power Lift	
Boom Lift	Lift Capacity						
	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)	_	_	-	_	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

	Standard Backhoe	Exter	Extendahoe®		
		Retracted	Extended		
Digging depth:					
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 <sup>®</sup> 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:					
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.

# 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 vinyl, 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 vinvl

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

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CASE Construction Equipment is biodieselfriendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAF 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.