CASE CONSTRUCTION

580SV CENTER PIVOT

CONSTRUCTION KING TOOL CARRIER BACKHOE LOADER

TIER 4 FINAL CERTIFIED



ENGINE

Model	FPT F5BFL413B*B
Emissions Certification	Tier 4 Final
Type	Diesel 4-stroke, Turbocharged
Cylinders	4
Bore/Stroke	3.90 × 4.33 in (99 × 110 mm)
Displacement	207 in³ (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	97 hp (72 kW)
Net	95 hp (71 kW)
Maximum torque @ 1400 RPM:	
Gross	334 lb ft (453 N·m)
Net	333 lb ft (452 N·m)
Torque rise at rated speed	45% +/- 5%
Radiator:	
Core type	Square wave
Core size area	486 in² (3 145 cm²)
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 Synchromesh 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	0.675

Travel speeds – Standard Power Shuttle Transmission:	Forward mph (kph)	Reverse 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-4R 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	0.667

Travel speeds – Optional PowerDrive Powershift Transmission:	Forward mph (kph)	Reverse 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)
3rd w/ DD*	22.1 (35.5)	14.5 (23.3)
4th	22.1 (35.5)	24.5 (39.4)
4th w/ DD*	23.2 (37.4)	24.5 (39.4)

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 × 24.0 tires.
*Direct Drive

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 coolant 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: 18,717 lb (8 490 kg)

Cab, HVAC, 15 ft in-line cylinder backhoe w/ Extendahoe, 4 in 1 loader bucket with cutting edge, medium counterweight, 24 in HD backhoe bucket, Front Wheels 14 × 17.5 Rear Wheels 21L × 24, ride control and operator.

Configuration 2: 19,600 lb (8 890 kg)

Cab, HVAC, 14 ft overlapping cylinder backhoe w/ Extendahoe, 6 in 1 loader bucket with cutting edge, large counterweight, 24 in HD backhoe bucket, Front Wheels 14 × 17.5, Rear Wheels 21L × 24, ride control and operator.

HYDRAULICS

Pump:
Sauer Danfoss Variable Displacement Axial Piston Pump
Flow Ratings: 36 gpm @ 2,973 psi (136 L/min @ 205 bar)

Main relief pressure:
2,973 +/- 44 psi (205 +/- 3 bar)
PowerLift/PowerBoost relief pressure:
3,480 +/- 44 psi (240 +/- 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:
36 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.
Actuation:
Left-hand joystick.

Combined auxiliary hydraulics:
Combined 1-way/2-way auxiliary hydraulics.

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)
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

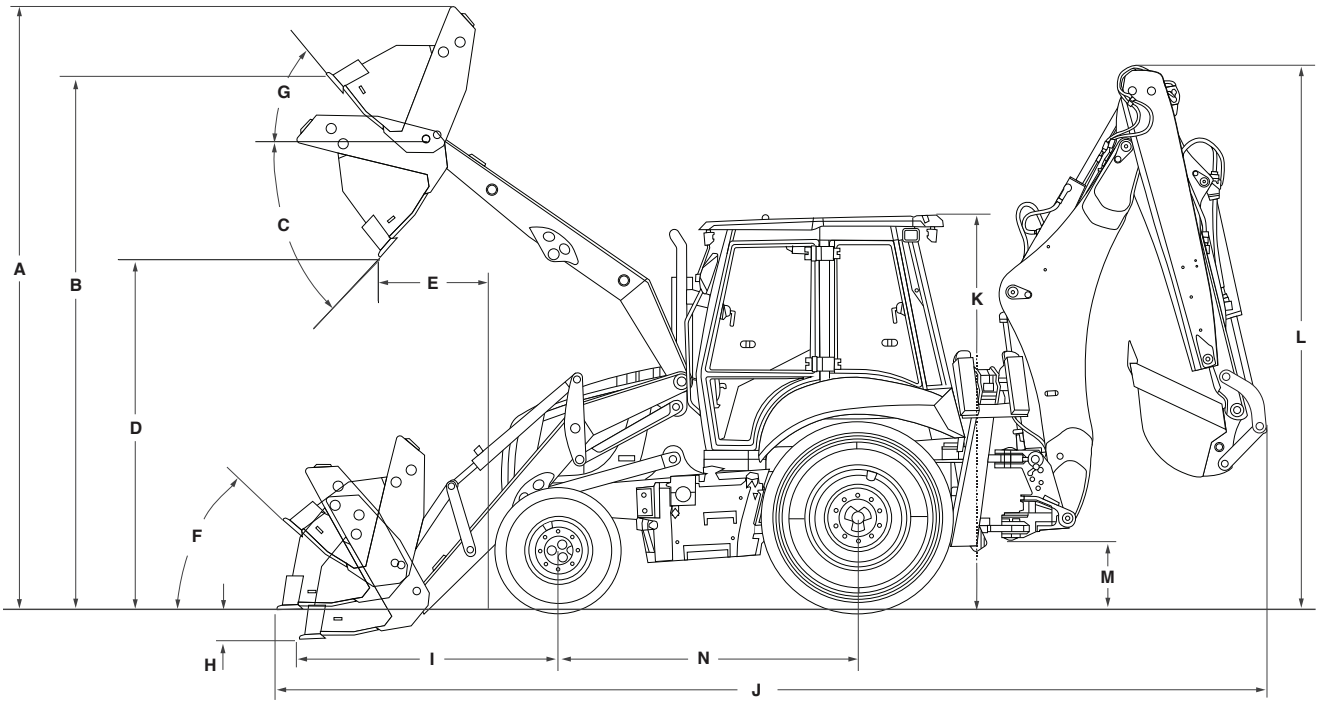
Front tires:
14 L × 17.5, 10-ply rating
12.5/80 × 18.0 10-ply rating

Rear tires:
19.5 L × 24.0, 10-ply rating
16.9 L × 28.0, 10-ply rating
21 L × 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 × 18.0 front tires and 18.4 × 26.0 R4 rear tires.



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 1 in (3.38 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	10 ft 7 in (3.22 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	44°	44°
G. @ Full height	60°	60°
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	7,606 lb (3 450 kg)	7,044 lb (3 195 kg)
Breakout force:		
Lift cylinders	8,014 lbf (3 565 daN)	8,041 lbf (3 577 daN)
Dump cylinders	14,711 lbf (6 544 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 × 17.5 front tires and 16.9 L × 28.0 rear tires.

DIMENSIONS

	Center Pivot Backhoe with 16.9 L × 28.0 tires
J. Overall transport length:	
Heavy Duty bucket	23 ft 7 in (7.19 m)
Overall width to outside edges of raised stabilizer pads	8 ft 0 in (2.44 m)
Overall width to outside edges of standard loader bucket	7 ft 5 in (2.30 m)
Height:	
K. To top of cab	9 ft 5 in (2.86 m)
L. Transport	13 ft 0 in (3.96 m)
M. Ground clearance at backhoe frame	13.4 in (341 mm)
Angle of departure	25°
N. Wheelbase:	
16.9 × 28.0 tires	7 ft 2 in (2.18 m)

AXLE RATINGS

	Rear	Front – 4WD
Maximum static	—	56,202 lbf (22 500 daN)
Dynamic operating	21,357 lbf (9 500 daN)	20,323 lbf (9 000 daN)
Static operating	53,392 lbf (23 750 daN)	46,367 lbf (20 625 daN)
Oscillation – front axle	—	22° total – 11° side to side

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)
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)

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*	
	Standard Lift Capacity lb (kg)	**Powerlift** Lift Capacity lb (kg)	**Standard** Lift Capacity lb (kg)	**Powerlift** Lift Capacity lb (kg)	**Standard** Lift Capacity lb (kg)	**Powerlift** Lift Capacity lb (kg)	**Standard** Lift Capacity lb (kg)	**Powerlift** Lift Capacity lb (kg)	**Standard** Lift Capacity lb (kg)	**Powerlift** Lift Capacity lb (kg)
Boom Lift										
+16 ft (4.87 m)	3,574 (1 624)	4,074 (1 851)	3,055 (1 389)	3,483 (1 583)	3,168 (1 440)	3,612 (1 642)	1,844 (838)	2,102 (955)	2,409 (1 095)	2,746 (1 248)
+14 ft (4.27 m)	4,023 (1 829)	4,586 (2 085)	3,516 (1 598)	4,008 (1 822)	3,729 (1 695)	4,251 (1 932)	2,513 (1 142)	2,865 (1 302)	2,607 (1 185)	2,972 (1 351)
+12 ft (3.66 m)	4,139 (1 881)	4,718 (2 144)	3,597 (1 635)	4,101 (1 864)	3,828 (1 740)	4,364 (1 984)	2,582 (1 174)	2,943 (1 338)	2,673 (1 215)	3,047 (1 385)
+10 ft (3.05 m)	4,069 (1 850)	4,639 (2 109)	3,539 (1 609)	4,034 (1 834)	3,784 (1 720)	4,314 (1 961)	2,594 (1 179)	2,957 (1 344)	2,706 (1 230)	3,085 (1 402)
+8 ft (2.44 m)	3,954 (1 797)	4,508 (2 049)	3,424 (1 556)	3,903 (1 774)	3,454 (1 570)	3,938 (1 790)	2,571 (1 169)	2,931 (1 333)	2,673 (1 215)	3,047 (1 385)
+6 ft (1.83 m)	3,816 (1 734)	4,350 (1 977)	3,309 (1 504)	3,772 (1 715)	3,245 (1 475)	3,699 (1 682)	2,536 (1 153)	2,891 (1 314)	2,563 (1 165)	2,922 (1 328)
+4 ft (1.22 m)	3,689 (1 677)	4,205 (1 912)	3,193 (1 451)	3,640 (1 654)	3,135 (1 425)	3,574 (1 625)	2,490 (1 132)	2,839 (1 290)	2,497 (1 135)	2,847 (1 294)
+2 ft (0.61 m)	3,574 (1 624)	4,074 (1 851)	3,078 (1 399)	3,509 (1 595)	3,080 (1 400)	3,511 (1 596)	2,455 (1 116)	2,799 (1 272)	2,464 (1 120)	2,809 (1 277)
Ground Level	3,470 (1 577)	3,956 (1 798)	2,986 (1 357)	3,404 (1 547)	3,102 (1 410)	3,536 (1 607)	2,409 (1 095)	2,746 (1 248)	2,464 (1 120)	2,809 (1 277)
-2 ft (0.61 m)	3,366 (1 530)	3,837 (1 744)	2,894 (1 315)	3,299 (1 499)	3,179 (1 445)	3,624 (1 647)	2,375 (1 079)	2,708 (1 230)	2,508 (1 140)	2,859 (1 300)
-4 ft (1.22 m)	3,297 (1 499)	3,759 (1 709)	2,813 (1 279)	3,207 (1 458)	3,113 (1 415)	3,549 (1 613)	2,352 (1 069)	2,681 (1 219)	2,530 (1 150)	2,884 (1 311)
-6 ft (1.83 m)	3,239 (1 472)	3,692 (1 678)	2,755 (1 252)	3,141 (1 427)	3,069 (1 395)	3,499 (1 590)	2,329 (1 058)	2,655 (1 206)	2,519 (1 145)	2,872 (1 305)
-8 ft (2.44 m)	3,228 (1 467)	3,680 (1 672)	2,732 (1 242)	3,114 (1 416)	3,047 (1 385)	3,474 (1 579)	2,329 (1 058)	2,655 (1 206)	2,530 (1 150)	2,884 (1 311)
-10 ft (3.05 m)	3,343 (1 520)	3,811 (1 733)	2,801 (1 273)	3,193 (1 451)	3,113 (1 415)	3,549 (1 613)	2,363 (1 074)	2,694 (1 224)	2,563 (1 165)	2,922 (1 328)
-12 ft (3.66 m)	3,574 (1 624)	4,074 (1 851)	3,090 (1 404)	3,523 (1 601)	3,586 (1 630)	4,088 (1 858)	2,467 (1 121)	2,812 (1 278)	2,662 (1 210)	3,035 (1 379)
-14 ft (4.27 m)	—	—	—	—	—	—	2,859 (1 300)	3,259 (1 482)	2,915 (1 325)	3,323 (1 511)
Dipper Lift										
+14 ft (4.27 m)	—	—	—	—	—	—	3,613 (1 642)	4,119 (1 872)	3,388 (1 540)	3,862 (1 756)
+12 ft (3.66 m)	5,545 (2 520)	6,321 (2 873)	4,998 (2 249)	5,641 (2 564)	4,312 (1 960)	4,916 (2 234)	3,935 (1 789)	4,486 (2 039)	3,311 (1 505)	3,775 (1 716)
+10 ft (3.05 m)	5,330 (2 423)	6,076 (2 762)	5,819 (2 645)	6,634 (3 015)	4,158 (1 890)	4,740 (2 155)	3,875 (1 762)	4,418 (2 009)	3,267 (1 485)	3,724 (1 693)
+8 ft (2.44 m)	5,437 (2 472)	6,198 (2 818)	5,819 (2 645)	6,634 (3 015)	4,202 (1 910)	4,790 (2 177)	3,923 (1 783)	4,472 (2 033)	3,300 (1 500)	3,762 (1 710)
+6 ft (1.83 m)	5,962 (2 710)	6,797 (3 089)	5,819 (2 645)	6,634 (3 015)	4,488 (2 040)	5,116 (2 326)	4,102 (1 864)	4,676 (2 125)	3,410 (1 550)	3,887 (1 767)
+4 ft (1.22 m)	—	—	—	—	5,324 (2 420)	6,069 (2 759)	4,495 (2 043)	5,124 (2 793)	3,685 (1 675)	4,201 (1 910)

	Overlapping Cylinder Backhoe with Extendahoe			
	Retracted		Extended	
	14 ft Backhoe		*14 ft Backhoe*	
	Standard Lift Capacity lb (kg)	**Powerlift** Lift Capacity lb (kg)	**Standard** Lift Capacity lb (kg)	**Powerlift** Lift Capacity lb (kg)
+14 ft (4.27 m)	—	—	2,604 (1 181)	2,969 (1 346)
+12 ft (3.66 m)	3,883 (1 761)	4,427 (2 008)	2,543 (1 153)	2,899 (1 314)
+10 ft (3.05 m)	3,625 (1 644)	4,133 (1 874)	2,459 (1 116)	2,803 (1 272)
+8 ft (2.44 m)	3,396 (1 540)	3,871 (1 756)	2,363 (1 072)	2,694 (1 222)
+6 ft (1.83 m)	3,193 (1 448)	3,640 (1 651)	2,261 (1 026)	2,578 (1 170)
+4 ft (1.22 m)	3,010 (1 365)	3,431 (1 556)	2,162 (984)	2,465 (1 122)
+2 ft (0.61 m)	2,844 (1 290)	3,242 (1 471)	2,075 (941)	2,366 (1 073)
Ground Level	2,693 (1 221)	3,070 (1 392)	2,006 (910)	2,287 (1 037)
-2 ft (0.61 m)	2,553 (1 158)	2,910 (1 320)	1,965 (891)	2,240 (1 016)
-4 ft (1.22 m)	2,421 (1 098)	2,760 (1 252)	1,960 (889)	2,234 (1 013)
-6 ft (1.83 m)	2,296 (1 041)	2,617 (1 187)	—	—
-8 ft (2.44 m)	2,170 (984)	2,474 (1 122)	2,088 (947)	2,380 (1 080)
-10 ft (3.05 m)	2,024 (918)	2,307 (1 047)	2,238 (1 015)	2,551 (1 157)
-12 ft (3.66 m)	—	—	2,457 (1 114)	2,801 (1 270)
Dipper Lift				
+14 ft (4.27 m)	4,767 (2 162)	5,434 (2 465)	2,328 (1 056)	2,654 (1 204)
+12 ft (3.66 m)	5,556 (2 520)	6,334 (2 873)	2,824 (1 281)	3,219 (1 460)
+10 ft (3.05 m)	6,189 (2 807)	7,055 (3 200)	3,141 (1 425)	3,581 (1 625)
+8 ft (2.44 m)	6,973 (3 163)	7,949 (3 606)	3,412 (1 548)	3,890 (1 765)
+6 ft (1.83 m)	9,459 (4 291)	10,783 (4 892)	3,694 (1 676)	4,211 (1 911)
+4 ft (1.22 m)	—	—	4,066 (1 844)	4,635 (2 102)

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®		Overlapping 14 ft Backhoe with Extendahoe	
		Retracted	Extended	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)	14 ft 7 in (4.49 m)	18 ft 1 in (5.51 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)	14 ft 6 in (4.42 m)	18 ft 0 in (5.48 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)	13 ft 4 in (4.07 m)	17 ft 1 in (5.21 m)
Overall reach from swing pivot	18 ft 4 in (5.58 m)	17 ft 6 in (5.32 m)	20 ft 9 in (6.31 m)	18 ft 7 in (5.66 m)	22 ft 0 in (6.67 m)
Loading height	11 ft 9 in (3.57 m)	12 ft 1 in (3.68 m)	14 ft 2 in (4.32 m)	12 ft 8 in (3.86 m)	15 ft 7 in (4.75 m)
Loading reach	6 ft 9 in (2.05 m)	7 ft 0 in (2.13 m)	9 ft 9 in (2.98 m)	2 ft 10 in (0.88 m)	4 ft 8 in (1.43 m)
Swing arc	180°	180°	180°	180°	180°
Bucket rotation – speed hole	204°	204°	204°	198°	198°
Digging force:					
Bucket cylinder – SAE rated 3,050 psi	13,423 lb (5 971 daN)	13,423 lb (5 971 daN)	13,423 lb (5 971 daN)	11,973 lb (5 326 daN)	11,973 lb (5 326 daN)
Bucket cylinder – PowerLift/PowerBoost	15,302 lb (6 807 daN)	15,302 lb (6 807 daN)	15,302 lb (6 807 daN)	13,649 lb (6 072 daN)	13,649 lb (6 072 daN)
Dipper cylinder – SAE rated 3,050 psi	8,469 lb (3 767 daN)	8,469 lb (3 767 daN)	5,827 lb (2 592 daN)	7,284 lb (3 240 daN)	5,339 lb (2 375 daN)
Dipper cylinder – PowerLift/PowerBoost	9,655 lb (4 294 daN)	9,655 lb (4 294 daN)	6,643 lb (2 955 daN)	8,304 lb (3 694 daN)	6,086 lb (2 708 daN)

NOTE: Lift capacities apply straight to the rear of prime mover. 4WD with 14 × 17.5 front tires, 16.9 × 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
- Brake Enabled Idle
- Glow Plugs

TELEMATICS

Telematics includes:
- Hardware and 5-yr advanced data subscription

DRIVETRAIN

- Power Shuttle 4F-4R synchromesh transmission
- Front axle:
  - 4WD mechanically driven front axle
- Rear axle:
  - 4WD heavy-duty outboard planetary drive
- 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
- Hydraulic diagnostic test ports

LOADER

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

BACKHOE

- Center Pivot Backhoe
- In-line cylinder curved boom backhoe design
- ProControl System
- Cleated dirt stabilizer pads
- 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 and Drivetrain Warranty

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

- Speed selectable Auto Ride Control
- ROPS/FOPS certified protective canopy

DRIVETRAIN

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

LOADER

- Auxiliary hydraulics for loader-mounted equipment with thumb-operated proportional control
- Hydraulic front quick coupler
- Tool portfolio of additional attachments
- Comfort Steering with two-speed steering pump and 3rd/4th gear cutout
- Buckets – see page 2

BACKHOE

- Overlapping Cylinder Boom with Extendahoe®
- 1-way auxiliary hydraulics
- 2-way auxiliary hydraulics
- Combined 1-way/2-way auxiliary hydraulics
- 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
- Flip over stabilizer pads
- Mechanical or hydraulic quick coupler
- Hydraulic transport lock
- Buckets – see page 2

OTHER

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

SERVICE PARTS

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

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IMPORTANT: CASE Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Availability of some models and equipment builds vary according to the country in which the equipment is used. The illustrations and text may include optional equipment and accessories and may not include all standard equipment. Your CASE dealer/distributor will be able to give you details of the products and their specifications available in your area.

Biodiesel Ready 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.

SAFETY™ NEVER HURTS 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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