CASE CONSTRUCTION

695SV CENTER PIVOT

CONSTRUCTION KING TOOL CARRIER BACKHOE LOADER

TIER 4 FINAL CERTIFIED



ENGINE

Model	FPT F5BFL413A*B
Emissions Certification	Tier 4 Final
Type	Diesel 4-stroke, Turbocharged
Cylinders	4
Bore/Stroke	3.9 × 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	900–1100
High idle–no load	2320–2440
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	30% +/- 5%
Radiator:	
Core type	Square wave
Core size area	486 in² (3 145 cm²)
Rows of tubes	5
39° fan:	
Style	9 blade suction
Diameter	19.685 in (500 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: Meets federal emission regulations.
*Viscous fan.

DRIVETRAIN

Transmission – standard:
4F—4R PowerDrive Powershift transmission

Speed adjustable Auto Ride Control

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 – PowerDrive Powershift Transmission

	Forward mph (kph)	Reverse mph (kph)
1st	4.3 (6.9)	5.1 (8.3)
2nd	7.1 (11.4)	8.5 (13.7)
3rd	15.2 (24.5)	18.3 (29.4)
3rd w/ DD*	16.4 (26.4)	18.3 (29.4)
4th	26.3 (42.4)	—
4th w/ DD*	27.0 (43.5)	—

Torque converter ratio	2.38
Limited Slip Differential	
Front/Rear axle:	
Differential ratio	2.75/2.75
Planetary hub ratio	6.92/6.92
Total reduction ratio	19.04/19.04

Service brakes:
Individually applied, power assisted, hydraulically actuated, maintenance-free, self-adjusting, outboard mounted, wet disc, 3 per side.
Total disc area 339 in² (1 092 cm²)

Parking brakes:
Mechanically actuated wet brake pack on transmission output shaft.

NOTE: Travel speeds w/ 16.9-28 tires.

ELECTRICAL

Voltage	12 Volts, negative ground
Alternator	120 amp
Dual Batteries	600 amp each
Power plugs – 1	30 amp

*Direct Drive

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

Operating Weight: 19,930 lb (9 040 kg)
Cab, HVAC, 15 ft in-line cylinder Extendahoe® backhoe, 4-IN-1 bucket with cutting edge, 24 inch backhoe bucket, light counterweight, ride control and 480/80 R28 wheels.

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:
35.9 gpm @ 2,973 psi (136 L/min @ 205 bar)

Manual or Pilot backhoe:
Six, seven or eight spool sectional valve. Basic control valve is closed center type with circuits in parallel and flow sharing feature. Flow sharing created by compensator. Stabilizer circuit may have an external pilot operated check valves in lowering direction (safety valve).

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

Tires:
16.9-28 R4. 12-ply rating
440/80R-28 IT530
Michelin 440/80 R28 XMCL

Turning radius* Curb to Curb:

2 wheel steer mode	26 ft 10 in (8.18 m)
4 wheel steer mode	15 ft 9 in (4.81 m)

NOTE: *Turning radius dimensions curb to curb w/ 440/80 R28 tires.

LOADER DIMENSIONS

	6-IN-1 Bucket	4-IN-1 Bucket
Overall operating height — fully raised	14 ft 9 in (4.50 m)	14 ft 9 in (4.50 m)
Height to:		
Bucket hinge pin fully raised	11 ft 5 in (3.49 m)	11 ft 5 in (3.49 m)
Dump angle at full height	55°	55°
Dump clearance at full height, 45° dump:		
Bucket	8 ft 7 in (2.62 m)	8 ft 7 in (2.62 m)
Dump reach at full height, 45° dump — from bumper:		
Bucket	1 ft 11 in (0.59 m)	1 ft 11 in (0.59 m)
Forks for 6-IN-1 bucket	7 ft 5 in (2.27 m)	7 ft 5 in (2.27 m)
Bucket rollback:		
@ Groundline	45°	45°
@ Full height	59°	59°
Digging depth below grade:		
Bucket flat	5 in (127 mm)	5 in (127 mm)
Reach from front axle centerline – bucket on ground	6 ft 9 in (2.05 m)	6 ft 9 in (2.05 m)
Lift capacity to full height – calculated values	6,779 lb (3 075 kg)	6,779 lb (3 075 kg)
Breakout force:		
Lift cylinders	9,062 lbf (4 031 daN)	9,062 lbf (4 031 daN)
Dump cylinders	14,459 lbf (6 431 daN)	14,459 lbf (6 431 daN)
Raising time to full height	3.3 sec	3.3 sec
Bucket dumping time	2.3 sec	2.3 sec
Lowering time:		
Power down	2.7 sec	2.7 sec
Clam:		
Open time	1.9 sec	1.9 sec
Close time	1.4 sec	1.4 sec

NOTE: Loader dimensions taken with 440/80-R28 tires.

DIMENSIONS

	Center Pivot Backhoe with 440/80-R28 tires
Overall transport length	23 ft 11 in (7.29 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 10 in (2.40 m)
Height:	
To top of cab	9 ft 9 in (2.96 m)
Transport	13 ft 3 in (4.04 m))
Ground clearance at backhoe frame	19.0 in (483 mm)
Angle of departure	27°
Wheelbase:	
440/80-R28 tires	7 ft 3 in (2.20 m)

AXLE RATINGS

	Rear	Front
Static operating	44,962 lbf (20 000 daN)	44,962 lbf (20 000 daN)
Dynamic operating	17,985 lbf (8 000 daN)	17,985 lbf (8 000 daN)

LOADER BUCKET SIZES

Type	Width	Weight	Struck	Heaped Capacity
6-IN-1 Bucket with forks and bolt-on edge	94 in (2.40 m)	2,209 lb* (1 002 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	94 in (2.40 m)	1,785 lb* (810 kg)	1.20 yd^3 (0.92 m^3)	1.50 yd^3 (1.15 m^3)
Heavy-duty Bucket with bolt-on edge	94 in (2.40 m)	1,034 lb (469 kg)	1.20 yd^3 (0.92 m^3)	1.50 yd^3 (1.15 m^3)

NOTE: *Weight of 6-IN-1 and 4-IN-1 bucket includes cylinders and hoses.

BACKHOE BUCKET SIZES

Type	Width	Weight	Heaped Capacity
Heavy Duty (SV Series Bucket)	24 in (610 mm)	348 lb (158 kg)	6.4 ft^3 (0.18 m^3)
Heavy Duty (N Series Bucket)	24 in (610 mm)	427 lb (194 kg)	7.7 ft^3 (0.22 m^3)

Various widths of backhoe buckets are available.

BACKHOE LIFT CAPACITIES

	15 ft In-Line Cylinder Backhoe				15 ft Overlapping Cylinder Backhoe			
	Retracted		Extended		Retracted		Extended	
Boom Lift	**Standard Power** Lift Capacity lb (kg)	**Powerlift** Lift Capacity lb (kg)	**Standard Power** Lift Capacity lb (kg)	**Powerlift** Lift Capacity lb (kg)	**Standard Power** Lift Capacity lb (kg)	**Powerlift** Lift Capacity lb (kg)	**Standard Power** Lift Capacity lb (kg)	**Powerlift** Lift Capacity lb (kg)
+16 ft (4.87 m)	2,918 (1 326)	3,327 (1 512)	2,219 (1 008)	2,530 (1 149)	—	—	2,633 (1 197)	3,002 (1 365)
+14 ft (4.27 m)	3,434 (1 561)	3,915 (1 780)	2,401 (1 091)	2,737 (1 244)	3,967 (1 803)	4,522 (2 055)	2,662 (1 210)	3,035 (1 379)
+12 ft (3.66 m)	3,526 (1 603)	4,020 (1 827)	2,462 (1 119)	2,807 (1 276)	3,881 (1 764)	4,424 (2 011)	2,638 (1 199)	3,007 (1 367)
+10 ft (3.05 m)	3,485 (1 584)	3,973 (1 806)	2,492 (1 133)	2,841 (1 292)	3,681 (1 673)	4,196 (1 907)	2,581 (1 173)	2,942 (1 337)
+8 ft (2.44 m)	3,181 (1 446)	3,626 (1 648)	2,462 (1 119)	2,807 (1 276)	3,489 (1 586)	3,977 (1 808)	2,504 (1 138)	2,855 (1 297)
+6 ft (1.83 m)	2,989 (1 358)	3,407 (1 548)	2,361 (1 073)	2,692 (1 223)	3,311 (1 505)	3,775 (1 716)	2,416 (1 098)	2,754 (1 252)
+4 ft (1.22 m)	2,887 (1 312)	3,291 (1 496)	2,300 (1 045)	2,622 (1 191)	3,148 (1 431)	3,589 (1 631)	2,330 (1 059)	2,656 (1 207)
+2 ft (0.61 m)	2,837 (1 289)	3,234 (1 469)	2,269 (1 032)	2,587 (1 176)	2,999 (1 363)	3,419 (1 554)	2,253 (1 024)	2,568 (1 167)
Ground Level	2,857 (1 299)	3,257 (1 481)	2,269 (1 032)	2,587 (1 176)	2,860 (1 300)	3,260 (1 482)	2,198 (999)	2,506 (1 139)
-2 ft (0.61 m)	2,928 (1 331)	3,338 (1 517)	2,310 (1 050)	2,633 (1 197)	2,730 (1 241)	3,112 (1 415)	2,171 (3 987)	2,475 (4 545)
-4 ft (1.22 m)	2,867 (1 303)	3,268 (1 485)	2,330 (1 059)	2,656 (1 207)	2,611 (1 187)	2,977 (1 353)	2,189 (995)	2,495 (1 134)
-6 ft (1.83 m)	2,827 (1 285)	3,223 (1 465)	2,320 (1 055)	2,645 (1 203)	2,501 (1 137)	2,851 (1 296)	2,281 (1 037)	2,600 (1 182)
-8 ft (2.44 m)	2,806 (1 276)	3,199 (1 455)	2,330 (1 059)	2,656 (1 207)	2,400 (1 091)	2,736 (1 244)	2,372 (1 078)	2,704 (1 229)
-10 ft (3.05 m)	2,867 (1 303)	3,268 (1 485)	2,361 (1 073)	2,692 (1 223)	2,306 (1 048)	2,629 (1 195)	2,521 (1 146)	2,874 (1 306)
-12 ft (3.66 m)	3,303 (1 501)	3,765 (1 711)	2,452 (1 114)	2,795 (1 270)	2,295 (1 043)	2,616 (1 189)	2,739 (1 245)	3,122 (1 419)
-14 ft (4.27 m)	—	—	2,685 (1 220)	3,061 (1 391)	—	—	—	—
-15 ft (4.57 m)	—	—	3,870 (1 759)	4,412 (2 005)	—	—	—	—
Dipper Lift								
+14 ft (4.27 m)	—	—	3,120 (1 418)	3,557 (1 617)	—	—	2,497 (1 135)	2,847 (1 294)
+12 ft (3.66 m)	4,062 (1 846)	4,631 (2 104)	3,049 (1 386)	3,476 (1 580)	5,113 (2 324)	5,829 (2 649)	3,029 (1 377)	3,453 (1 570)
+10 ft (3.05 m)	3,917 (1 780)	4,465 (2 029)	3,009 (1 368)	3,430 (1 560)	5,958 (2 708)	6,792 (3 087)	3,368 (1 531)	3,840 (1 745)
+8 ft (2.44 m)	3,958 (1 799)	4,512 (2 051)	3,039 (1 382)	3,464 (1 575)	6,637 (3 017)	7,566 (3 489)	3,659 (1 663)	4,171 (1 896)
+6 ft (1.83 m)	4,228 (1 922)	4,820 (2 191)	3,141 (1 428)	3,581 (1 628)	7,478 (3 399)	8,525 (3 875)	3,962 (1 801)	4,517 (2 053)
+4 ft (1.22 m)	5,015 (2 280)	5,717 (2 999)	3,394 (1 543)	3,869 (1 759)	10,144 (4 611)	11,564 (5 257)	4,360 (1 982)	4,970 (2 259)
+2 ft (0.61 m)	—	—	3,860 (1 755)	4,400 (2 001)	—	—	—	—
Ground Level	—	—	4,559 (2 072)	5,197 (2 362)	—	—	—	—

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

	15 ft In-Line Cylinder Backhoe		15 ft Overlapping Cylinder Backhoe	
	Retracted	Extended	Retracted	Extended
Digging depth:				
Maximum	15 ft 4 in (4.67 m)	19 ft 4 in (5.88 m)	15 ft 7 in (4.75 m)	19 ft 7 in (5.97 m)
2 ft (610 mm) flat bottom	15 ft 2 in (4.63 m)	19 ft 2 in (5.85 m)	15 ft 6 in (4.72 m)	19 ft 6 in (5.93 m)
8 ft (2.44 m) flat bottom	14 ft 1 in (4.29 m)	18 ft 4 in (5.59 m)	14 ft 5 in (4.38 m)	18 ft 8 in (5.68 m)
Overall reach from swing pivot	19 ft 2 in (5.83 m)	23 ft 10 in (6.97 m)	19 ft 5 in (5.93 m)	23 ft 3 in (7.09 m)
Loading height	12 ft 8 in (3.86 m)	15 ft 1 in (4.60 m)	13 ft 5 in (4.10 m)	16 ft 10 in (5.12 m)
Loading reach	6 ft 3 in (1.90 m)	9 ft 5 in (2.88 m)	2 ft 10 in (0.88 m)	4 ft 8 in (1.43 m)
Swing arc	180°	180°	180°	180°
Bucket rotation – speed hole	203°	203°	198°	198°
Digging force:				
Bucket cylinder – SAE rated 3,050 psi	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)	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)	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)	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 440/80-R28 tires and equipped with 36 in (914 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

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
- Front axle:
  - 4WD limited slip outboard planetary drive
- Rear axle:
  - 4WD limited slip outboard planetary drive
- Torque converter – 11.8 in (300 mm)
- On-the-go electric 4WD control
- Electric F/R shuttle control
- Mechanically actuated wet parking brake pack on transmission output shaft

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 self leveling in both directions and return to dig; Single lever 4-function loader control: lift, dump, clutch cut-out
- Auxiliary hydraulics for loader-mounted equipment with thumb-operated proportional control

BACKHOE

- Center Pivot Backhoe
- 15 ft In-line cylinder curved boom with Extendahoe®
- Flip over stabilizer pads (center pivot)
- 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
- Hydraulic Transport Lock

OTHER

- Forward tilt engine hood
- Front/Rear tie downs
- Reflective logos
- Signal Lights:
  - 2 rear tail/stop
  - 2 front flashers/turn
  - 2 rear flashers/turn
- Working/Driving Lights:
  - 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
- Front & rear fenders
- Dual 12 volt batteries
- Tool Box

TELEMATICS

- Telematics – includes hardware and 5-yr advanced data subscription

WARRANTY

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

OPTIONAL EQUIPMENT

LOADER

- 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

- 15 ft Overlapping cylinder boom w/ Extendahoe
- Hydraulic Thumb for Overlapping Cylinder Boom
- 1-way auxiliary hydraulics
- 2-way auxiliary hydraulics
- Combined 1-way/2-way auxiliary hydraulics
- Mechanical or Hydraulic quick coupler
- Buckets – see page 2

OTHER

- LED Working/Driving Light Package:
  - 4 front
  - 4 rear
- Cold Weather Lubricants

SERVICE PARTS

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

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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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