

695SV SIDE SHIFT

CONSTRUCTION KING TOOL CARRIER BACKHOE LOADER

TIER 4 FINAL CERTIFIED



ENGINE	
Model	FPT F5BFL413A*B
Emissions Certification Tier 4	
Type Diesel 4-	-stroke, Turbocharged
Cylinders	4
Bore/Stroke	3.9 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 Rated speed – full load Low idle High idle – no load	RPM 2200 900 – 1100 2320 – 2440
Horsepower @ 2200 RPM: Gross Net	110 hp (82 kW) 108 hp (81 kW)
Maximum torque @ 1400 F Gross Net	RPM: 339 lb·ft (460 N·m) 338 lb·ft (459 N·m)
Torque rise at rated speed	30% +/- 5%
Radiator: Core type Core size area Rows of tubes	Square wave 486 in² (3 145 cm²) 5
39° fan: Style Diameter	9 blade suction 19.685 in (500 mm)

NOTE: Meets federal emission regulations.

*Viscous fan.

Pump operating angle ratings:

Ratio*

Side to side

Fore and aft

Oil filtration

DRIVETRAIN

Transmission – standard: 4F - 3R Powershift H-Type 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/—		

rraver speeds - n-rype	LOMEIZIIII I	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Forward	Reverse
	mph (kph)	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)
4th	26.3 (42.4)	_
Torque converter ratio		2.38
Limited Slip Differential		
Front/Rear axle:		
Differential ratio		2.75/2.75
Planetary hub ratio		6.92/6.92

Service brakes:

Total reduction ratio

Individually applied, power assisted, hydraulically actuated, maintenance-free, self-adjusting, outboard mounted, wet disc, 3 per side.

19.04/19.04

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

1.4:1

Rated 35°

Rated 35°

Replaceable, full flow cartridge

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

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:

Cab, HVAC, 15' in-line cylinder Extendahoe backhoe, 6-IN-1 bucket with cutting edge, 24" backhoe bucket, light counterweight, hydraulic side shift, auto ride control and 480/80 R28 wheels.

22,245 lb (10 090 kg)

HYDRAULICS

Pump:

Sauer Danfoss Variable Displacement Axial Piston Pump

iston Pump Flow Ratings

36 gpm @ 2,973 psi (136 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: 36 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 Standard front axle:	22 qt (20.8 L)
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:

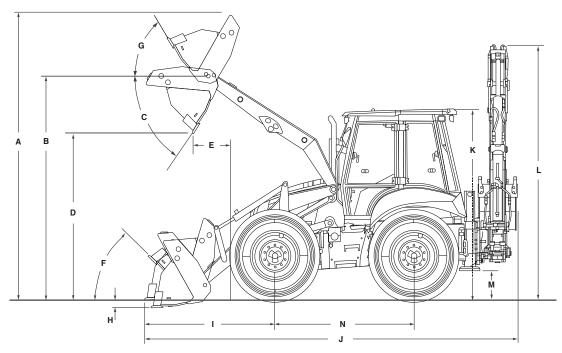
16.9-28 R4. 12-ply rating 440/80R-28 IT530 Michelin 440/80 R28 XMCL

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.

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

LOADER DIMENSIONS		
	6 IN 1 Bucket	4 IN 1® Bucket
A. Overall operating height – fully raised	14 ft 9 in (4.50 m)	14 ft 9 in (4.50 m
B. Bucket hinge pin fully raised	11 ft 5 in (3.48 m)	11 ft 5 in (3.48 m
C. Dump angle at full height	55°	55°
D. Dump clearance at full height, 45° dump:		
Bucket	8 ft 7 in (2.61 m)	8 ft 7 in (2.61 m)
E. 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 6 in (2.28 m)	7 ft 6 in (2.28 m
Bucket rollback:		
F. @ Groundline	45°	45°
G. @ Full height	56°	56°
H. Digging depth below grade:		
Bucket flat	5.5 in (139 mm)	5.5 in (139 mm)
I. Reach from front axle centerline – bucket on ground	6 ft 9 in (2.06 m)	6 ft 9 in (2.06 m
Lift capacity to full height – calculated values	6,779 lb (3 075 kg)	6,779 lb (3 075 kg
Breakout force:		
Lift cylinders	7,949 lbf (3 536 daN)	7,949 lbf (3 536 daN
Dump cylinders	12,358 lbf (5 497 daN)	12,358 lbf (5 497 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	
	Side Shift Backhoe with 440/80-R28 tires
J. Overall transport length	19 ft 5 in (5.90 m)
Overall transport width	8 ft 2 in (2.48 m)
Height:	
K. To top of cab	9 ft 9 in (2.96 m)
L. Transport	13 ft 2 in (4.01 m)
M. Ground clearance at backhoe frame	15.7 in (398 mm)
Angle of departure	27°
N. Wheelbase:	
440/80-R28 tires	7 ft 3 in (2.20 m)

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AXLE HATINGS		
	Rear	Front
Maximum static	56,202 lbf (22 500 daN)	56,202 lbf (22 500 daN)
Dynamic operating	20,232 lbf (9 000 daN)	20,232 lbf (9 000 daN)

LOADER BUCKET SIZES						
Туре	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)		

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

BACKHOE BUCKET SIZES			
Туре	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.			

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ΔCK				

	In-Line Cylind	In-Line Cylinder Backhoe		Overlapping Cylinder Backhoe	
	Retracted	Extended	Retracted	Extended	
Boom Lift	Lift Capacity	Lift Capacity	Lift Capacity	Lift Capacity	
	lb (kg)	lb (kg)	lb (kg)	lb (kg)	
+16 ft (4.87 m)	2,918 (1 326)	2,219 (1 008)	_	2,633 (1 197)	
+14 ft (4.27 m)	3,434 (1 561)	2,401 (1 091)	3,967 (1 803)	2,662 (1 210)	
+12 ft (3.66 m)	3,526 (1 603)	2,462 (1 119)	3,881 (1 764)	2,638 (1 199)	
+10 ft (3.05 m)	3,485 (1 584)	2,492 (1 133)	3,681 (1 673)	2,581 (1 173)	
+8 ft (2.44 m)	3,181 (1 446)	2,462 (1 119)	3,489 (1 586)	2,504 (1 138)	
+6 ft (1.83 m)	2,989 (1 358)	2,361 (1 073)	3,311 (1 505)	2,416 (1 098)	
+4 ft (1.22 m)	2,887 (1 312)	2,300 (1 045)	3,148 (1 431)	2,330 (1 059)	
+2 ft (0.61 m)	2,837 (1 289)	2,269 (1 032)	2,999 (1 363)	2,253 (1 024)	
Ground Level	2,857 (1 299)	2,269 (1 032)	2,860 (1 300)	2,198 (999)	
-2 ft (0.61 m)	2,928 (1 331)	2,310 (1 050)	2,730 (1 241)	2,171 (987)	
-4 ft (1.22 m)	2,867 (1 303)	2,330 (1 059)	2,611 (1 187)	2,189 (995)	
-6 ft (1.83 m)	2,827 (1 285)	2,320 (1 055)	2,501 (1 137)	2,281 (1 037)	
-8 ft (2.44 m)	2,806 (1 276)	2,330 (1 059)	2,400 (1 091)	2,372 (1 078)	
-10 ft (3.05 m)	2,867 (1 303)	2,361 (1 073)	2,306 (1 048)	2,521 (1 146)	
-12 ft (3.66 m)	3,303 (1 501)	2,452 (1 114)	2,295 (1 043)	2,739 (1 245)	
-14 ft (4.27 m)	_	2,685 (1 220)	_	_	
-15 ft (4.57 m)	_	3,870 (1 759)	_	_	
Dipper Lift					
+14 ft (4.27 m)	_	3,120 (1 418)	_	2,497 (1 135)	
+12 ft (3.66 m)	4,062 (1 846)	3,049 (1 386)	5,113 (2 324)	3,029 (1 377)	
+10 ft (3.05 m)	3,917 (1 780)	3,009 (1 368)	5,958 (2 708)	3,368 (1 531)	
+8 ft (2.44 m)	3,958 (1 799)	3,039 (1 382)	6,637 (3 017)	3,659 (1 663)	
+6 ft (1.83 m)	4,228 (1 922)	3,141 (1 428)	7,478 (3 399)	3,962 (1 801)	
+4 ft (1.22 m)	5,015 (2 280)	3,394 (1 543)	10,144 (4 611)	4,360 (1 982)	
+2 ft (0.61 m)	_	3,860 (1 755)	_	_	
Ground Level	_	4,559 (2 072)	_	_	

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 Backhoe		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)	22 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 (3.87 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	13,418 lb (5 971 daN)	13,418 lb (5 971 daN)	13,739 lb (6 114 daN)	13,739 lb (6 114 daN))			
Dipper cylinder – SAE rated 3,050 psi	7,547 lb (3 358 daN)	5,368 lb (2 389 daN)	7,555 lb (3 362 daN)	5,437 lb (2 420 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.

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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

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

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

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

Hydraulic Side Shift Backhoe

15' In-line cylinder curved boom with Extendahoe® Dirt stabilizer pads

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 - cab:

2 rear tail/stop

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

Front & rear fenders

Dual 12 volt batteries

Tool Box

TELEMATICS

CASE SiteWatch™ 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 **Drive Train Warranty**

OPTIONAL EQUIPMENT

LOADER

Hydraulic front quick coupler Tool portfolio of additional attachments Buckets - see page 2

BACKHOE

15' 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

Universal Footstreet stabilizer pads

Bucket quick coupler

Buckets - see page 4

OTHER

LED Working/Driving Light Package:

4 front

4 rear

Cold Weather Lubricants

SERVICE PARTS

3 inch seat belt

N Series compatible backhoe coupler for in-line cylinder backhoe

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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.

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