

UTILITY PLUS 575N EP

BACKHOE LOADER

TIER 4 FINAL CERTIFIED



Radiator: Core type

Core size area Rows of tubes

ENGINE	
Model	FPT F5HFL463A*W
Emissions Certification	Tier 4B Final
Type Diesel 4-	-stroke, Turbocharged
Cylinders	4
Bore/Stroke	3.90 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 – 1000 2330 – 2430
Horsepower @ 2200 RPM: Gross Net w/ viscous fan** Net	74 hp (55 kW) 72 hp (54 kW) 68 hp (51 kW)
Maximum torque @ 1400 F Gross Net w/ viscous fan Net	RPM: 233 lb·ft (316 N·m) 228 lb·ft (310 N·m) 220 lb·ft (298 N·m)
Torque rise at rated speed	35% +/- 5%

NOTE: *Meets federal emission regulations.

**Viscous fan available as DIA

w/ High Ambient Kit.

Square wave 490.3 in² (3 163 cm²)

DRIVETRAIN

Gear ratios

Transmission – standard:

4F-4R Power Shuttle Synchromesh Transmission manual gear shift, fully synchronized

Forward/Reverse

1st	5	.603/4.643
2nd	3	.481/2.884
3rd	1	.585/1.313
4th	0	.793/0.657
Travel speeds - Standard	d Power Shu	ttle
Transmission	Forward	Reverse
	mnh (knh)	mnh (knh)

Hansmission	rorward	neverse
	mph (kph)	mph (kph)
1st	3.5 (5.7)	4.3 (7.0)
2nd	5.7 (9.1)	6.9 (11.2)
3rd	12.1 (19.5)	14.8 (23.8)
4th	21.1 (34.0)	-
Torque converter ratio		3.0

Torque converter ratio	3.0
Front/Rear axle:	
Differential ratio	2.29/2.47
Planetary hub ratio	6.0/6.9
Total reduction ratio	13.7/17.0

Service brakes:

Hydraulic foot operated 2 per side.

Total disc area 228 in² (0.15 m²)

Parking brakes Trans Mounted

Mechanically actuated caliper type brake
pack on rear axle input shaft

NOTE: Travel speeds at 2200 engine RPM specified: w/ 16.9-28 tires. Speeds decrease w/ 14.0-25 rear tires.

ELECTRICAL

Voltage	12 Volts, negative ground
Alternator	120 amp
Battery	800 cold-cranking amps
Power plugs	10 amps total

OPERATOR ENVIRONMENT

ROPS/FOPS certified protective canopy; Rear fenders extensions; Interior rearview convex mirror; Mechanical suspension seat – 180° swivel – Vinyl; 2 in (51 mm) retractable seat belt.

Gauges:

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

Warning lights:

Air cleaner restriction; A/C Low or High Pressure; Cold start; Engine oil pressure; Hydraulic oil filter bypass; Parking brake engagement; Low fuel; Water in fuel; Battery Charging; Transmission Oil Temperature; Brake Oil Level; High Coolant Temperature; Master Warning; Master Stop.

Audible alarms:

Coolant temperature; Engine oil pressure; Parking brake engagement; Backup alarm; Cold Start; Transmission Oil Temperature; Brake Oil Level; Hydraulic oil filter bypass.

Horn Dual switched front and rear

OPERATING WEIGHT

Operating Weight 18,298 lb (8 300 kg)

HYDRAULICS

Pump:

Parker Twin Section Gear Pump

Flow Ratings 32.5 gpm @ 2200 RPM (123 L/min @ 152 bar)

Main relief pressure:

Standard

3,045 +/- 72.5 psi (210 +/- 5 bar)

Filtration:

10 micron, return line, full flow, spin on element.

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 two lever control of which first lever is for lift and tilt and second lever is for clam and tilt. The lift lever has positive hold "float" position.

Maximum backhoe flow for 1-way

auxiliary hydraulics

42 gpm @ 3,045 psi (160 L/min @ 210 bar)

Backhoe control valve:

Six-spool monoblock open center control valve w/ optional seventh spool.

Basic control valve has an open center parallel circuit for all functions.

1-way flow auxiliary hydraulics:

1-way flow 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

SERVICE CAPACITIES Fuel tank 34 gal (129 L) Hydraulic system: 113 qt (107 L) Total 113 qt (107 L) Reservoir w/ filter 58 qt (55.0 L)

Transmission - total system:

Reservoir w/o filter

4WD Standard 21 qt (20 L)

56 qt (53.0 L)

Front axle:

4WD Differential 9.3 qt (8.9 L) 4WD Planetaries – each 0.7 qt (0.7 L)

Rear axle:

Differential and planetaries 15.2 qt (14.5 L)

Window washer reservoir 1.5 qt (1.4 L)

OTHER SPECIFICATIONS

Front tires:

4WD 16.9-28 12-ply rating

Rear tires:

4WD 12.5/80 - 18 12-ply rating

Turning radius: Curb to Curb:

4WD - engaged:

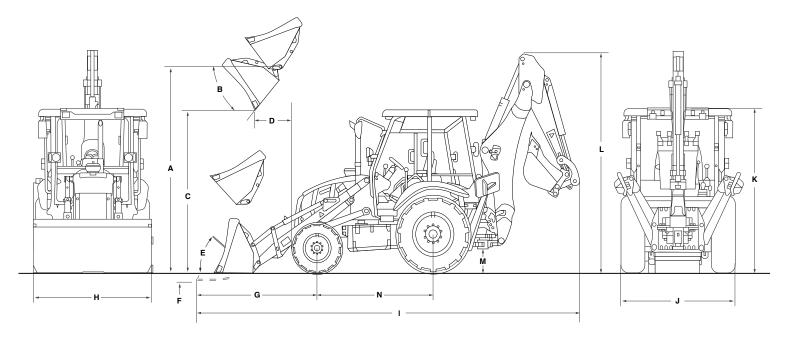
Brakes on 11 ft 4 in (3.45 m) Brakes off 13 ft 10 in (4.21 m)

LOADER BUCKET SIZES			
Туре	Width	Weight	Capacity
Standard Bucket without bolt-on edge	89 in (2.28 m)	1,014 lb (460 kg)	1.20 yd ³ (0.92 m ³)
4 IN 1® Bucket with bolt-on edge	89 in (2.30 m)	1,235 lb* (560 kg)	1.00 yd ³ (0.76 m ³)

NOTE: *Weight of 4 IN 1® bucket only.

BACKHOE BUCKET SIZES					
Туре	Width	Weight	Heaped Capacity		
Heavy Duty Buckets	12 in (305 mm)	295 lb (134 kg)	3.40 ft ³ (0.10 m ³)		
	18 in (457 mm)	232 lb (105 kg)	4.70 ft ³ (0.13 m ³)		
	24 in (610 mm)	272 lb (123 kg)	6.26 ft ³ (0.18 m ³)		
Universal Buckets	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)		

575N EP 2 of 6



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

ight to: Bucket hinge pin fully raised Dump angle at full height Dump clearance at full height, 45° dump: Bucket Dump reach at full height, 45° dump – from bumper:	Standard Bucket 11 ft 9 in (3.58 m)
Bucket hinge pin fully raised Dump angle at full height Dump clearance at full height, 45° dump: Bucket	11 ft 9 in (3.58 m)
Dump angle at full height Dump clearance at full height, 45° dump: Bucket	11 ft 9 in (3.58 m)
Dump clearance at full height, 45° dump: Bucket	
Bucket	45°
Dump reach at full height, 45°, dump – from humper:	9 ft 0 in (2.73 m)
Bucket	3 ft 9 in (1.15 m)
icket rollback: @ Groundline	33°
Digging depth below grade: Bucket flat	4.3 in (110 mm)
Reach from front axle centerline – bucket on ground	6 ft 6 in (1.98 m)
t capacity to full height	8,157 lb (3 700 kg)
eakout force:	
Lift cylinders	11,277 lb (5 115 kgf)
Dump cylinders	13,788 lb (6 250 kgf)
Bucket cutting edge width	89.6 in (2.27 m)
ising time to full height	5.9 sec
cket dumping time	1.8 sec
Overall transport length with standard loader bucket	23 ft 1 in (7.03 m)
Overall machine width with standard loader bucket	7 ft 6 in (2.28 m)
abilizer width – in raised position	7 ft 7 in (2.30 m)
ight:	
To top of cab	9 ft 3 in (2.83 m)
Overall transport height	12 ft 7 in (3.84 m)
Ground clearance at backhoe frame	19.7 in (500 mm)
Wheelbase	85.6 in (2.18 m)

NOTE: Loader dimensions taken with 4WD, 12.5-18 front tires and 16.9-28 rear tires.

575N EP 3 of 6

CYLINDERS				
	Bore Diameter	Rod Diameter	Stroke	Closed Length
Loader:				
Lift – 2	3.54 in (90 mm)	1.97 in (50 mm)	28.62 in (727 mm)	40.94 in (1 040 mm)
Dump – 2	3.15 in (80 mm)	1.57 in (40 mm)	26.97 in (685 mm)	36.42 in (925 mm)
4 IN 1 [®] clam - 2	3.15 in (80 mm)	1.97 in (50 mm)	9.65 in (245 mm)	18.39 in (467 mm)
Backhoe:				
Boom	5.12 in (130 mm)	2.56 in (65 mm)	35.71 in (907 mm)	47.52 in (1 207 mm)
Dipperstick	4.92 in (125 mm)	2.56 in (65 mm)	27.36 in (695 mm)	39.72 in (1 009 mm)
Bucket	3.54 in (90 mm)	2.56 in (65 mm)	30.00 in (762 mm)	42.24 in (1 073 mm)
Extendahoe®	2.95 in (75 mm)	1.77 in (45 mm)	41.34 in (1 050 mm)	55.12 in (1 400 mm)
Swing – 2	4.33 in (110 mm)	2.36 in (60 mm)	9.37 in (238 mm)	5.35 in (136 mm)
Stabilizer – 2	3.94 in (100 mm)	2.36 in (60 mm)	24.80 in (630 mm)	37.01 in (940 mm)

AXLE RATINGS		
	Rear	Front
Maximum static	58,264 lb (26 429 kg)	61,146 lb (27 735 kg)
Dynamic operating	39,368 lb (17 857 kg)	37,283 lb (16 911 kg)
Static operating	15,747 lb (7 143 kg)	14,913 lb (6 764 kg)

575N EP 4 of 6

BACKHOE LIFT CAPACITIE			

	Standard Backhoe	Extendahoe [®]	Extendahoe [®]	
		Retracted	Extended	
Boom Lift	Lift Capacity	Lift Capacity	Lift Capacity	
	lb (kg)	lb (kg)	lb (kg)	
+16 ft (4.87 m)	_	_	2,512 (838)	
+14 ft (4.27 m)	4,024 (1 829)	3,516 (1 598)	2,583 (1 142)	
+12 ft (3.66 m)	4,138 (1 881)	3,597 (1 635)	2,594 (1 174)	
+10 ft (3.05 m)	4,070 (1 850)	3,540 (1 609)	2,572 (1 179)	
+8 ft (2.44 m)	3,953 (1 797)	3,423 (1 556)	2,537 (1 169)	
+6 ft (1.83 m)	3,815 (1 734)	3,309 (1 504)	2,490 (1 153)	
+4 ft (1.22 m)	3,689 (1 677)	3,192 (1 451)	2,455 (1 132)	
+2 ft (0.61 m)	3,573 (1 624)	3,078 (1 399)	2,455 (1 116)	
Ground Level	3,469 (1 577)	2,985 (1 357)	2,409 (1 095)	
-2 ft (0.61 m)	3,366 (1 530)	2,893 (1 315)	2,374 (1 079)	
-4 ft (1.22 m)	3,298 (1 499)	2,814 (1 279)	2,352 (1 069)	
-6 ft (1.83 m)	3,238 (1 472)	2,754 (1 252)	2,328 (1 058)	
-8 ft (2.44 m)	3,227 (1 467)	2,732 (1 242)	2,328 (1 058)	
-10 ft (3.05 m)	3,344 (1 520)	2,801 (1 273)	2,363 (1 074)	
-12 ft (3.66 m)	_	-	2,466 (1 121)	
-14 ft (4.27 m)	_	_	2,860 (1 300)	
Dipper Lift				
+14 ft (4.27 m)	_	_	3,612 (1 642)	
+12 ft (3.66 m)	5,544 (2 520)	4,948 (2 249)	3,936 (1 789)	
+10 ft (3.05 m)	5,331 (2 423)	5,819 (2 645)	3,876 (1 762)	
+8 ft (2.44 m)	5,438 (2 472)	5,819 (2 645)	3,923 (1 783)	
+6 ft (1.83 m)	5,962 (2 710)	5,819 (2 645)	4,101 (1 864)	
+4 ft (1.22 m)	_	5,819 (2 645)	4,495 (2 043)	
+2 ft (0.61 m)	_	_	5,390 (2 450)	

	Standard Backhoe	Extendahoe®	
		Retracted	Extended
Digging depth:			
Maximum	14 ft 5 in (4.40 m)	14 ft 11 in (4.55 m)	18 ft 4 in (5.58 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)
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)
Overall reach from swing pivot	18 ft 7 in (2.66 m)	19 ft 0 in (5.79 m)	22 ft 1 in (6.74 m)
Loading height	11 ft 11 in (3.64 m)	12 ft 4 in (3.75 m)	14 ft 5 in (4.39 m)
Loading reach with bucket closed	6 ft 5 in (1.96 m)	6 ft 9 in (2.05 m)	9 ft 6 in (2.89 m)
Swing arc	180°	180°	180°
Bucket rotation:			
Using Bucket Economy Hole	204°	204°	204°
Using Bucket Power Hole	160°	160°	160°
Stabilizer spread	10 ft 7 in (3.23 m)	10 ft 7 in (3.23 m)	10 ft 7 in (3.23 m)
Digging force:			
Bucket cylinder	12,359 lb (5 606 kg)	12,381 lb (5 616 kg)	12,381 lb (5 616 kg)
Dipper cylinder	9,449 lb (4 286 kg)	8,885 lb (4 030 kg)	6,462 lb (2 931 kg)

575N EP 5 of 6

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

FPT F5 diesel

Full flow engine oil filter

Aspirated air cleaner - replaceable dual element dry type with radial seal

Fuel filter with water trap

Diesel Oxidation Catalyst (DOC) - Spark Arresting

Radiator with de-aeration bottle Antifreeze to -34° F (-37° C)

Throttles, both hand rotary and foot

Self adjusting belt

High Pressure Common Rail

DRIVETRAIN

Front axle:

4WD mechanically driven front axle, with 12.5/80-18 tires

Rear axle:

4WD heavy-duty outboard planetary drive, with 16.9-28 tires

4F-4R Power Shuttle Synchromesh transmission

Torque converter - 11.8 in (300 mm)

On-the-go electric 4WD control

Electric F/R shuttle control

No differential lock

HYDRAULICS

Heavy-duty hydraulic oil cooler 10-micron, spin on oil filter

BACKHOE

Center pivot design

1-way Auxiliary backhoe hydraulics for hammers, plate compactors or similar 1-way flow attachments - pedal switch activated

2-lever mechanical backhoe controls Flip over stabilizer pads

OTHER

Forward tilt engine hood Replaceable, molded front bumpers Front/Rear tie downs Reflective logos

Working/Driving/Signal Lights - halogen Master disconnect switch and remote jump-start terminals

Backup alarm

Vertical spin-on engine oil, fuel and hydraulic filters

WARRANTY

- 1-Year/Unlimited-Hour Full-Coverage Base Limited Warranty
- 2-Year/2.000-Hour Extended Engine Warranty

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

ROPS/FOPS certified protective cab 2 Door with heat, A/C, defroster, door activated dome light, 4 front and 4 rear lights, floor mat, tinted glass, radio ready, front and rear wiper and front fenders

Mechanical suspension seat with flip-up armrests, 180° swivel, adjustable seat and weight, backrest angle, lumbar and cushion angle - cab units cloth or vinyl, canopy units vinyl only

LOADER

3-spool auxiliary hydraulics valve for loader mounted equipment - 2-lever loader control Buckets - see page 2

BACKHOE

Pilot Backhoe Controls Extendahoe® Buckets - see page 2

OTHER

Front Fenders

SERVICE PARTS

Bluetooth Radio 3 inch seat belt CASE SiteWatch™ Telematics Rotating Beacon

CaseCE.com

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575N EP 6 of 6