



## ENGINE

Model	FPT F5HFL463D
Emissions Certification	Tier 4 Final
Type	Diesel 4-stroke, Turbocharged
Cylinders	4
Bore/Stroke	3.90 x 4.33 in (99 x 110 mm)
Displacement	207 in3 (3.4 L)
Fuel injection	Direct, high pressure common rail – HPCR
Fuel	Diesel
Cooling	Charged air
Engine speeds	RPM
Rated speed – full load	2200
Low idle	900 – 1000
High idle – no load	2330 – 2430
Horsepower @ 2200 RPM:	
Gross	74 hp (55 kW)
Net*	72 hp (54 kW)
Maximum torque @ 1400 RPM:	
Gross	235 lb-ft (316 N-m)
Net*	228 lb-ft (310 N-m)
Torque rise at rated speed	35% +/- 5%
Radiator:	
Core size area	486 in2 (3 145 cm2)
Rows of tubes	5
33 Degree fan:	
Style	7 blade suction
Ratio	1.1:1
Water pump style	Integral
Engine oil	CJ-4 – semi-synthetic 10W40
Pump operating angle ratings:	
Side to side	Rated 35°
Fore and aft	Rated 35°
Oil filtration	Replaceable, spin on

NOTE: \*with viscous fan.

## DRIVETRAIN

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

Gear ratios	Forward/Reverse
1st	5.603/5.603
2nd	3.481/3.481
3rd	1.584/1.584
4th	0.793/0.793
Travel speeds*	mph (kph)
1st	3.8 (6.1)
2nd	6.1 (9.8)
3rd	12.8 (20.6)
4th	24.0 (38.6)

Torque converter ratio*	3.01
Differential-lock	On-the-go push-button activation

Front 4WD/Rear axle*:	
Differential ratio	2.0/2.5
Planetary hub ratio	6.0/6.4
Total reduction ratio	12.0/16.0

Axles rating:	
Maximum static – lb (kg):	
70,821 (32 124)/90,145 (40 889)/	
58,448 (26 511)	
Dynamic operating – lb (kg):	
44,261 (20 076)/56,200 (25 492)/	
35,575 (16 136)	
Static operating – lb (kg):	
17,704 (8 030)/22,480 (10 197)/	
14,230 (6 455)	

Service brakes:  
Individually applied, hydraulically actuated,  
maintenance-free, outboard mounted,  
wet disc, 2 per side.

Parking brakes	Trans Mounted spring-applied hydraulic release – SAHR
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NOTE: Travel speeds at 2293 engine RPM  
w/ 19.5 L x 24.0 rear tires.  
\*Specs listed will differ w/ PTO option.

## ELECTRICAL

Voltage	12 Volts
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;  
2 halogen headlights; 2 rear flood lights; 2 rear  
tail and stop lights; 2 front flashers/turn lights;  
2 rear flashers/turn lights; Anti-vandalism cover  
for dash and front console – w/ canopy only;  
Pre-wired for radio – cab only; Rear fenders w/  
storage tray and molded beverage and thermos  
holder; Coat hook w/ garment strap; Interior  
rearview mirror; non-suspension seat – 15 degree  
and 30 degree swivel to the right; 2 in (51 mm)  
retractable seat belt; Cup holder/storage tray  
mounted on LH fender.

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  
low; Hydraulic oil filter bypass; Parking brake  
engagement; Low fuel; Water in fuel.

Audible alarms:  
Coolant temperature; Engine oil pressure;  
Parking brake engagement; Shuttle  
engagement/seat position; Backup; Horn.

## OPERATING WEIGHT

**Configuration 1 – Lightest:**  
82 in (2.08 m) Standard bucket, 4WD,  
19.5 L x 24.0 rear tires, ROPS canopy,  
suspension seat, dual batteries, no operator:  
11,134 lb (5 051 kg)

**Configuration 2 – Heaviest:**  
82 in (2.08 m) 4 IN 1® bucket, 4WD,  
19.5 L x 24.0 rear tires, enclosed cab,  
suspension seat, dual batteries, no operator,  
440 lb front weight, 3-point hitch, box scraper:  
14,508 lb (6 581 kg)

Attachments:	
82 in (2.08 m) buckets:	
4 IN 1®	1,451 lb (658 kg)
General purpose	686 lb (311 kg)
Box scraper	1,592 lb (722 kg)
Cab – over canopy	646 lb (293 kg)
Driveshaft guard	218 lb (99 kg)

Weights:  
Counterweight 3,000 lb (1 360 kg)  
Rear weight 500 lb (227 kg)  
Front weight 440 lb (200 kg)

## HYDRAULICS

Pump	Gear pump
Capacity	28.5 gal/min @ 3,000 psi (108 L/min @ 207 ba)

## SERVICE CAPACITIES

Fuel tank	30 gal (114.0 L)
Hydraulic system:	
Total	72 qt (68.0 L)
Reservoir w/ filter	58 qt (55.0 L)
Reservoir w/o filter	56 qt (53.0 L)
Transmission:	
2WD – total	18 qt (17.0 L)
Reservoir	11 qt (10.4 L)
4WD – total	21 qt (20.0 L)
Reservoir	14 qt (13.2 L)
Front axle:	
Differential	5.8 qt (5.5 L)
Planetaries – each	0.7 qt (0.7 L)
Rear axle:	
Differential	14.4 qt (13.6 L)
Engine oil w/ filter	8.5 qt (8.0 L)
Cooling system	18.3 qt (17.3 L)

### Turning radius - curb to curb, no bucket:

2WD:	
Brakes on	12 ft 2 in (3.70 m)
Brakes off	12 ft 10 in (3.91 m)
4WD – engaged:	
Brakes on	11 ft 7 in (3.52 m)
Brakes off	13 ft 9 in (4.18 m)
4WD – disengaged:	
Brakes on	12 ft 3 in (3.72 m)
Brakes off	12 ft 11 in (3.92 m)

## OTHER SPECIFICATIONS

### 3-point hitch:

Category I & II 3-point hitch

Hydraulic lift, pitch, tilt and 2 auxiliary remotes

Vertical lift force:

Lowest point	2,500 lb (11 121 N)
1/5	3,247 lb (14 444 N)
2/5	3,400 lb (15 125 N)
3/5	3,501 lb (15 574 N)
4/5	3,297 lb (14 666 N)
Highest point	2,984 lb (13 274 N)

Front tires:

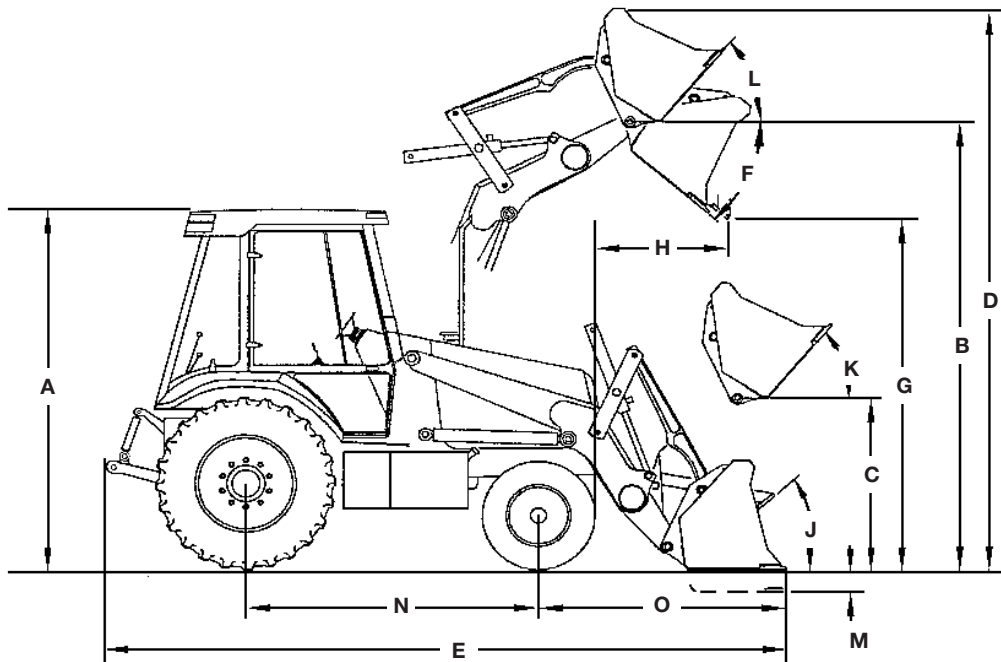
2WD – 11.0 L x 16.0, 10-ply rating

4WD – 12.0 L 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



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

#### LOADER DIMENSIONS

	19.5 L x 24.0 Tires	17.5 L x 24.0 Tires
<b>A.</b> Height to:		
Top of canopy	9 ft 0 in (2.74 m)	8 ft 9 in (2.67 m)
Height to top of canopy – Low profile ROPS	8 ft 9 in (2.65 m)	8 ft 6 in (2.59 m)
Top of cab	9 ft 0 in (2.74 m)	8 ft 10 in (2.68 m)
	<b>Long Lip Bucket</b>	<b>4 IN 1® Bucket</b>
<b>B.</b> Bucket hinge pin fully raised	11 ft 3 in (3.41 m)	11 ft 3 in (3.41 m)
<b>C.</b> Bucket hinge pin at SAE carry	1 ft 1 in (0.33 m)	1 ft 3 in (0.37 m)
<b>D.</b> Overall operating height – fully raised	13 ft 8 in (4.17 m)	14 ft 3 in (4.35 m)
<b>E.</b> Overall length with 3-point hitch	16 ft 11 in (5.15 m)	16 ft 9 in (5.09 m)
Width over tires:		
11.0 L x 16.0	6 ft 8 in (2.02 m)	6 ft 8 in (2.02 m)
12.0 L x 16.5	6 ft 10 in (2.06 m)	6 ft 10 in (2.06 m)
19.5 L x 24.0	6 ft 10 in (2.07 m)	6 ft 10 in (2.07 m)
17.5 L x 24.0	6 ft 10 in (2.07 m)	6 ft 10 in (2.07 m)
<b>F.</b> Dump angle at full height	46°	45°
<b>G.</b> Dump clearance at full height, 45° dump:		
Bucket	8 ft 8 in (2.63 m)	8 ft 11 in (2.71 m)
Clam open	—	9 ft 8 in (2.93 m)
<b>H.</b> Dump reach at full height, 45° dump:		
Bucket	2 ft 2 in (0.66 m)	2 ft 2 in (0.64 m)
Clam open	—	11.9 in (0.3 m)
Bucket rollback:		
<b>J.</b> at Groundline	40°	40°
<b>K.</b> at SAE carry	45°	45°
<b>L.</b> at Full height	Adjustable	Adjustable
<b>M.</b> Digging depth below grade:		
Bucket flat	7.5 in (0.19 m)	6.8 in (0.17 m)
Clam open – dozing	—	4.1 in (0.10 m)
Ground clearance at front axle	10.9 in (0.28 m)	10.9 in (0.28 m)
<b>N.</b> Wheelbase	7 ft 0 in (2.13 m)	7 ft 0 in (2.13 m)
<b>O.</b> Reach from front axle centerline – bucket on ground	6 ft 3 in (1.89 m)	6 ft 1 in (1.85 m)
Maximum clam opening	—	3 ft 3 in (0.97 m)
Moldboard height	—	3 ft 1 in (0.93 m)
Lift capacity to full height	6,503 lb (2 950 kg)	6,537 lb (2 965 kg)
Breakout force:		
Lift cylinders	9,271 lb (41 239 N)	8,766 lb (38 993 N)
Dump cylinders	9,607 lb (42 734 N)	10,325 lb (45 928 N)

NOTE: Loader dimensions taken with 4WD, 19.5 L x 24.0 rear tires and 82 in (2.08 m) general purpose bucket except as noted.

## STANDARD EQUIPMENT

### OPERATOR ENVIRONMENT

See page 1

### ENGINE

FPT 3.4 L diesel  
Cooled EGR  
Diesel Oxidation Catalyst  
Full flow engine oil filter  
Air cleaner – replaceable dry type with radial seal  
Radiator with de-aeration bottle  
Antifreeze to -34° F (-37° C)  
Foot throttle  
Self adjusting belt  
Fuel filter with water trap

### DRIVETRAIN

Front axle, as selected:  
2WD heavy-duty front axle with 11.0 L x 16.0 tires  
4WD heavy-duty mechanically driven rear axle, with 12.0 L x 16.5 tires  
Rear axle:  
2/4WD heavy-duty outboard planetary drive, with 17.5 L x 24.0 tires  
4F-4R Power Shuttle  
Synchronesh transmission  
Torque converter  
On-the-go electric 4WD control  
Electric F/R shuttle control  
Electric differential lock control, with push-button activation; Located on the loader control lever and side console  
Park brake, spring-applied, hydraulic release

### HYDRAULICS

Gear pump:  
28.5 gal/min @ 3,000 psi  
(108 L/min @ 207 bar)  
Heavy-duty hydraulic oil cooler  
7 micron, spin on oil filter

### LOADER

Bucket position indicator  
Lifting lugs on standard bucket  
Single lever control, with Self-Leveling and Return-to-Dig  
Hand-operated clutch disconnects on loader and shift levers  
Single lever 5-function loader control: Lift; Dump; Auxiliary function; Clutch cut-out; Differential-lock

## OPTIONAL EQUIPMENT

### OPERATOR ENVIRONMENT

Manual Ride Control  
Comfort Steer  
ROPS and FOPS certified protective canopy: Short and standard height  
ROPS certified cab with heater, defroster, front and rear wipers and floor mat  
Cab Convenience Package containing: Flip forward sun visor; Window washer – front and rear; Radio Ready kit, including wiring, speakers and DIN radio mounting; Deluxe Interior Package  
Air-conditioning for cab models  
Mechanical suspension seat: With armrests – 15° and 30° swivel to the right; Cloth or vinyl; Adjustable seat height, backrest angle; Lumbar and thigh support  
Wide seat belt – 3 in (75 mm)

### ENGINE

Cold Weather Starting Aid with dual 12 Volt batteries and glow plugs  
Block heater  
Master disconnect switch and remote jump-start terminals

### TRACTOR

Chaff screen – dealer installed option  
Auxiliary work lights: 2 front and 2 rear flood for tall canopy and cab  
Canopy sun visor – tall canopy only  
440 lb (200 kg) front counterweight  
Hand throttle – electric  
500 lb (227 kg) counterweight, bolted to hitch frame  
5th spool auxiliary circuit for 3-point hitch valve  
Tool portfolio of additional attachments  
3-point hitch with 600 lb (272 kg) Plug in counterweight – cannot be used with PTO  
Driveshaft guard  
3,000 lb (1 360 kg) rear counterweight  
Drawbar  
Rear wheel weights 564 lb (256 kg)  
PTO: 540 RPM, hydraulically powered rear PTO Ready. PTO hydraulic pump only, no motor

### LOADER

Auxiliary hydraulics for loader-mounted equipment  
Hydraulic front quick coupler  
Mechanical front quick coupler  
Buckets – less teeth:  
82 in (2.08 m) general purpose Long Lip, with bolt-on cutting edge – includes lift eyes  
82 in (2.08 m) general purpose Long Lip, without bolt-on cutting edge – includes lift eyes  
82 in (2.08 m) 4 IN 1®, includes 3 Bolt-on cutting edges; Unit must be equipped with auxiliary loader hydraulics  
93 in (2.36 m) light duty loader bucket  
Loader linkage without loader bucket

### OTHER

Tool box – bolt-on step-mounted  
Special paint  
Spare tires

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