



ENGINE	
Model	FPT F5HFL463D
Emissions Certification	Tier 4 Final
Type Diesel, 4-	-stroke, turbocharged
Cylinders	4
Bore/Stroke	3.9 in x 4.33 in (99 mm x 110 mm)
Displacement	207 in ³ (3.4 L)
Fuel injection	Direct high pressure common rail
Fuel	Diesel
Cooling	Charged air
Engine speeds* Rated speed, full load Low idle High idle, no load	RPM 2200 900 - 1000 2330 - 2430
Horsepower @ 2200 RPM: Gross Net	74 hp (55 kW) 68 hp (51 kW)
Maximum torque @ 1400 R Gross Net	
Torque rise at rated speed	35% +/- 5%
Radiator: Core size area Rows of tubes	486 in² (3 145 cm²) 5
33° fan: Style Ratio	7 blade suction 1.1:1
Engine oil CJ-4 – semi-synthetic 10W40	
Pump operating angle ratin Side-to-side Fore and aft Oil filtration	Rated 35° Rated 35° Replaceable, spin-on

NOTE: *Meets federal emission regulations.

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
Drive/steer axle:	
Differential ratio	2.5/2.0
Planetary hub ratio	6.4/6.0
Total reduction ratio	16.0/12.0
Service brakes:	
Individually applied, h	nydraulically actuated,
outboard mounted, w	vet disc, 2 per side
Parking brakes	Transmission Mounted
	spring applied hydraulic
	release – SAHR

NOTE: *Travel speeds at 2330 engine RPM w/ 19.5 L x 24 tires.

/ 10.0 L X Z +

ELECTRICAL	
Voltage	12 Volts
Alternator	120 amp
Battery	950 cold-cranking amps
Power plugs – 2	30 amps total

OPERATOR ENVIRONMENT

ROPS/FOPS certified protective canopy; Wide walk through platform; Vinyl seat; 3 in (76 mm) seat belt; Molded front fenders; Rearview mirrors, left and right.

Gauges:

Hour meter; Engine RPM; Engine coolant temperature; Transmission oil temperature; Job timer; Fuel level.

Warning lights:

Air cleaner restriction; Alternator; Cold start; Engine oil pressure; Hydraulic oil filter bypass; Parking brake engagement; Engine coolant temp; Battery voltage.

Audible alarms:

Coolant temperature; Engine oil pressure; Parking brake engagement; Converter oil temperature; Backup; Horn.

OPERATING WEIGHT

Configuration 1 – Lightest:

16,102 lb	(7	304	kg
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2WD, 15 ft Std. Mast, 48 in forks

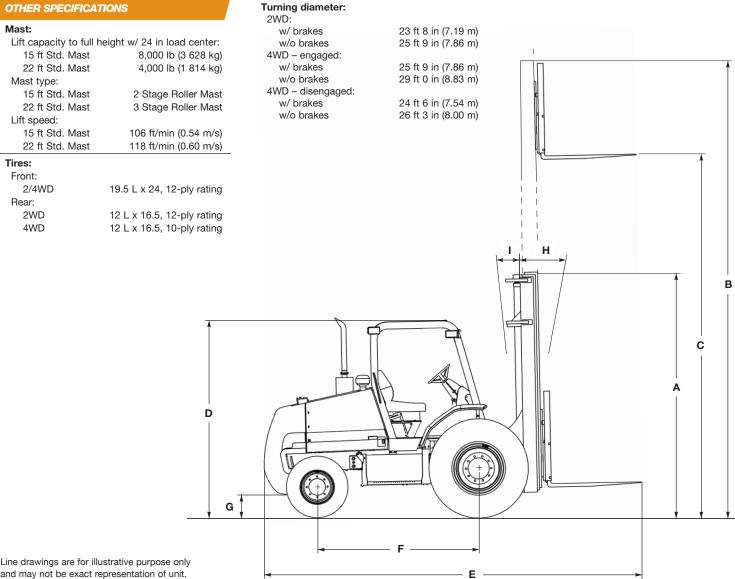
Configuration 2 – Heaviest:		
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HYDRAULICS	
Pump	Gear pump
Capacity	24 gal/min @ 3,000 psi (91 L/min @ 207 bar)

SERVICE CAPACITIES

Fuel tank	31 gal (119 L)
Hydraulic system:	
Total	74 qt (70 L)
Reservoir w/ filter	58 qt (55 L)
Reservoir w/o filter	56 qt (53 L)
Transmission:	
2WD:	
Total	19.5 qt (18.5 L)
Reservoir	12.6 qt (11.9 L)
4WD:	
Total	22.0 qt (20.8 L)
Reservoir	15.2 qt (14.4 L)
Front axle:	
Differential and Planetaries	14.4 qt (13.6 L
Rear axle:	
Differential and Planetaries	5.8 qt (5.5 L)
	0.7 qt (0.7 L)
Engine oil w/ filter	8.5 qt (8.0 L)
Cooling system	18.3 qt (17.3 L)





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

DIMENSIONS		
	15 ft (4.57 m) Std. Mast	22 ft (6.71 m) Std. Mast
A. Overall height to top of mast – mast closed	10 ft 5 in (3.18 m)	10 ft 5 in (3.18 m)
B. Overall operating height – mast raised to full height	18 ft 4 in (5.59 m)	25 ft 5 in (7.75 m)
C. Maximum fork height – forks horizontal	15 ft 0 in (4.57 m)	22 ft 0 in (6.71 m)
D. Overall height to top of ROPS:		
19.5 L x 24, 12-ply	104.1 in (2 645 mm)	104.1 in (2 645 mm)
E. Overall length with 48 in forks	17 ft 1 in (5.21 m)	17 ft 2 in (5.23 m)
F. Wheelbase:		
2WD	84 in (2.13 m)	84 in (2.13 m)
4WD	84.5 in (2.15 m)	84.5 in (2.15 m)
G. Ground clearance:		
2WD	10.3 in (260 mm)	10.3 in (260 mm)
4WD	10.3 in (260 mm)	10.3 in (260 mm)
H. Forward mast tilt	45°	45°
I. Backward mast tilt	15°	15°
Overall width – outside tires	7 ft 4 in (2 236 mm)	7 ft 4 in (2 236 mm)
Mast side shift - right	3 in (76 mm)	3 in (76 mm)
Mast side shift – left	3 in (76 mm)	3 in (76 mm)

STANDARD EQUIPMENT

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 Insulated CCV hose **Glow Plugs** Block Heater Pre Cleaner Master Disconnect Switch Remote Jump Start Terminals for Battery

MAST

See page 1

OPTIONAL EQUIPMENT

MAST/FORKS/CARRIAGE

15 ft Standard Mast 22 ft Standard Mast 48 in Pallet Forks, ITA Class 3 hook type 48 in Pallet Forks, shaft type 60 in Backrest Other mast/fork/carriage combinations available through Special Feature

DRIVETRAIN

Front axle, as selected: 2/4WD heavy-duty outboard planetary drive, with 19.5 L x 24 tires Rear axle: 2WD heavy-duty front axle with 12 L x 16.5 tires 4WD heavy-duty mechanically driven rear axle, with 12 L x 16.5 tires 4F-4R Power Shuttle Synchromesh Transmission Torque converter On-the-Go electric 4WD control Electric F/R shuttle control Electric differential lock control, with push-button activation Park brake, spring applied, hydraulic release

HYDRAULICS

Heavy-duty hydraulic oil cooler 7 micron, spin-on oil filter

OPERATOR ENVIRONMENT

See page 1

OTHER

Storage Compartment, lockable Swing out side panel engine access Front/rear tie downs **Reflective logos** Light Package: 2 front halogen driving lights 2 rear halogen work lights 1 rear tail/stop light 2 front turn signals 2 rear turn signals Hazard warning

HYDRAULICS

4 section valve for auxiliary hydraulics

OPERATOR ENVIRONMENT

Load control Deluxe suspension seat, with lumbar support and high adjustments

OTHER

Special paint Sitewatch Telematics

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