



## 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 <sup>3</sup> (3.4 L)
Fuel injection	Direct high pressure common rail
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	68 hp (51 kW)
Maximum torque @ 1400 RPM:	
Gross	233 lb-ft (316 N-m)
Net	220 lb-ft (298 N-m)
Torque rise at rated speed	35% +/- 5%
Radiator:	
Core size area	486 in <sup>2</sup> (3 145 cm <sup>2</sup> )
Rows of tubes	5
33° fan:	
Style	7 blade suction
Ratio	1.1:1
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: \*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, hydraulically actuated,  
outboard mounted, wet 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.

## 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 (or  
optional CAB with heat and air conditioning);  
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 (with canopy option):**  
16,102 lb (7 304 kg)  
2WD, 15 ft Std. Mast, 48 in forks

**Configuration 2 – Heaviest (with cab option):**  
17,418 lb (7900 kg)  
4WD, cab, 22 ft Std. Mast, 48 in forks

## Add-on weights:

Cab:	440 lb (200 kg)
Masts:	
15 ft Std. Mast	2,468 lb (1 120 kg)
22 ft Std. Mast	3,183 lb (1 444 kg)
Carriage – 60 in	110 lb (50 kg)
Forks:	
Hook style	330 lb (150 kg)
Shaft style	302 lb (137 kg)

## 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)
<b>Transmission:</b>	
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)

## OTHER SPECIFICATIONS

### Mast:

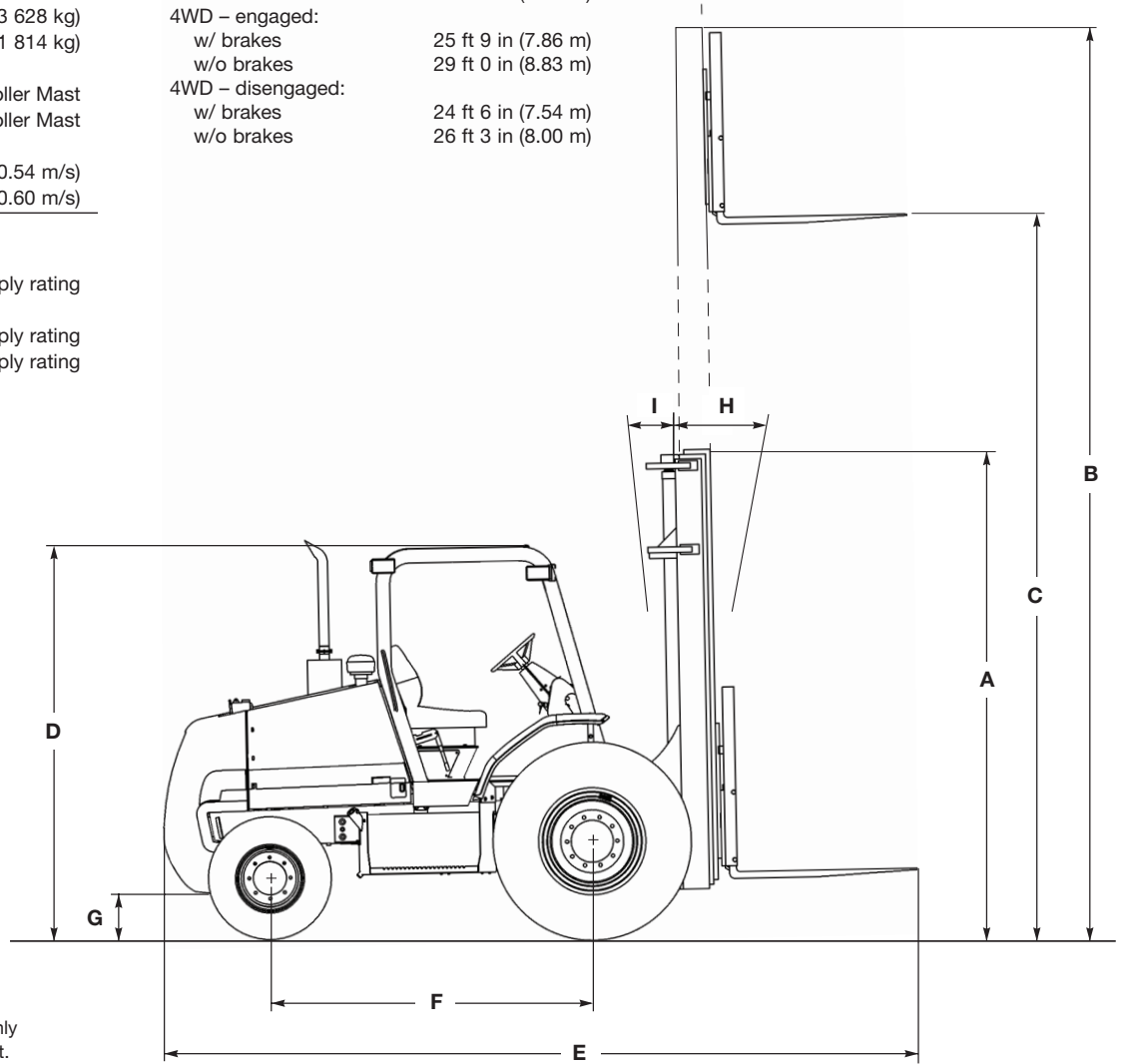
Lift capacity to full height w/ 24 in load center:	
15 ft Std. Mast	8,000 lb (3 628 kg)
22 ft Std. Mast	4,000 lb (1 814 kg)
Mast type:	
15 ft Std. Mast	2 Stage Roller Mast
22 ft Std. Mast	3 Stage Roller Mast
Lift speed:	
15 ft Std. Mast	106 ft/min (0.54 m/s)
22 ft Std. Mast	118 ft/min (0.60 m/s)

### Tires:

Front:	
2/4WD	19.5 L x 24, 12-ply rating
Rear:	
2WD	12 L x 16.5, 12-ply rating
4WD	12 L x 16.5, 10-ply rating

### Turning diameter:

2WD:	
w/ brakes	23 ft 8 in (7.19 m)
w/o brakes	25 ft 9 in (7.86 m)
4WD – engaged:	
w/ brakes	25 ft 9 in (7.86 m)
w/o brakes	29 ft 0 in (8.83 m)
4WD – disengaged:	
w/ brakes	24 ft 6 in (7.54 m)
w/o brakes	26 ft 3 in (8.00 m)



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
<b>A.</b> Overall height to top of mast – mast closed	10 ft 5 in (3.18 m)	10 ft 5 in (3.18 m)
<b>B.</b> Overall operating height – mast raised to full height	18 ft 4 in (5.59 m)	25 ft 5 in (7.75 m)
<b>C.</b> Maximum fork height – forks horizontal	15 ft 0 in (4.57 m)	22 ft 0 in (6.71 m)
<b>D.</b> Overall height to top of ROPS (19.5L x 24, 12-ply tires)		
Canopy	104.1 in (2 645 mm)	104.1 in (2 645 mm)
Cab	106.0 in (2,692 mm)	106.0 in (2,692 mm)
<b>E.</b> Overall length with 48 in forks	17 ft 1 in (5.21 m)	17 ft 2 in (5.23 m)
<b>F.</b> 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)
<b>G.</b> Ground clearance:		
2WD	10.3 in (260 mm)	10.3 in (260 mm)
4WD	10.3 in (260 mm)	10.3 in (260 mm)
<b>H.</b> Forward mast tilt	45°	45°
<b>I.</b> 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

### OPTIONAL MASTS/FORKS/CARRIAGES AVAILABLE

Straight and Freelift masts of varying heights  
(11- to 22-foot)  
Carriages and backrests of varying sizes  
(60-inch and 84-inch are most common)  
Fork lengths (most common is 48-inch, but  
longer versions are available)  
Hook and Shaft type forks  
Hydraulic fork positioning

### 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

4 section valve for auxiliary hydraulics

### OPERATOR ENVIRONMENT

Cab with heater and air conditioning, 2-door  
entry with 180-degree secured operation,  
tinted glass, LED front and rear working  
lights and signals, mechanical suspension  
seat, front and rear wipers, rear view mirrors,  
radio with bluetooth, USB power outlet, cup  
holder, phone holder, rubber floor mat, and  
full ROPS/FOPS certification  
Load control  
Deluxe suspension seat, with lumbar  
support and high adjustments

### 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  
Telematics with 5-yr customer portal  
subscription

### OTHER

Special paint

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