



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

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 halogen work
lights; Wide walk through platform; Vinyl seat;
2 in (51 mm) seat belt; Molded front fenders.

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:
13,682 lb (6 206 kg)
2WD, 15 ft Std. Mast, 48 in forks

Configuration 2 – Heaviest:
14,621 lb (6 632 kg)
4WD, 22 ft Std. Mast, 48 in forks

Add-on weights:

Masts:	
15 ft Std. Mast	1,863 lb (845 kg)
22 ft Std. Mast	2,608 lb (1 183 kg)
16 ft Freelif Mast	2,188 lb (993 kg)
Carriage – 60 in	110 lb (50 kg)
Forks:	
Hook style	322 lb (146 kg)
Shaft style	298 lb (135 kg)

HYDRAULICS

Pump	Gear pump
Capacity	18 gal/min @ 3,000 psi (68 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)

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*	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 ² (3 145 cm ²)
Rows of tubes	5

33° fan:	
Style	7 blade suction
Ratio	1.1:1

Engine oil	CJ-4 – semi-synthetic 10W40
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Pump operating angle ratings:	
Side-to-side	Rated 35°
Fore and aft	Rated 35°
Oil filtration	Replaceable, spin-on

NOTE: *Meets federal emission regulations.

OTHER SPECIFICATIONS

Mast:

Lift capacity to full height w/ 24 in load center:

15 ft Std. Mast	6,000 lb (2 722 kg)
22 ft Std. Mast	3,000 lb (1 361 kg)
16 ft Freelif Mast	6,000 lb (2 722 kg)

Mast type:

15 ft Std. Mast	2 Stage Roller Mast
22 ft Std. Mast	3 Stage Roller Mast
16 ft Freelif Mast	3 Stage Roller Mast

Lift speed:

15 ft Std. Mast	107 ft/min (0.55 m/s)
22 ft Std. Mast	112 ft/min (0.57 m/s)
16 ft Freelif Mast	107 ft/min (0.55 m/s)

Turning diameter:

2WD:

w/ brakes	21 ft 8 in (6.57 m)
w/o brakes	26 ft 1 in (7.93 m)

4WD – engaged:

w/ brakes	20 ft 5 in (6.21 m)
w/o brakes	27 ft 10 in (8.47 m)

4WD – disengaged:

w/ brakes	21 ft 6 in (6.61 m)
w/o brakes	26 ft 1 in (7.95 m)

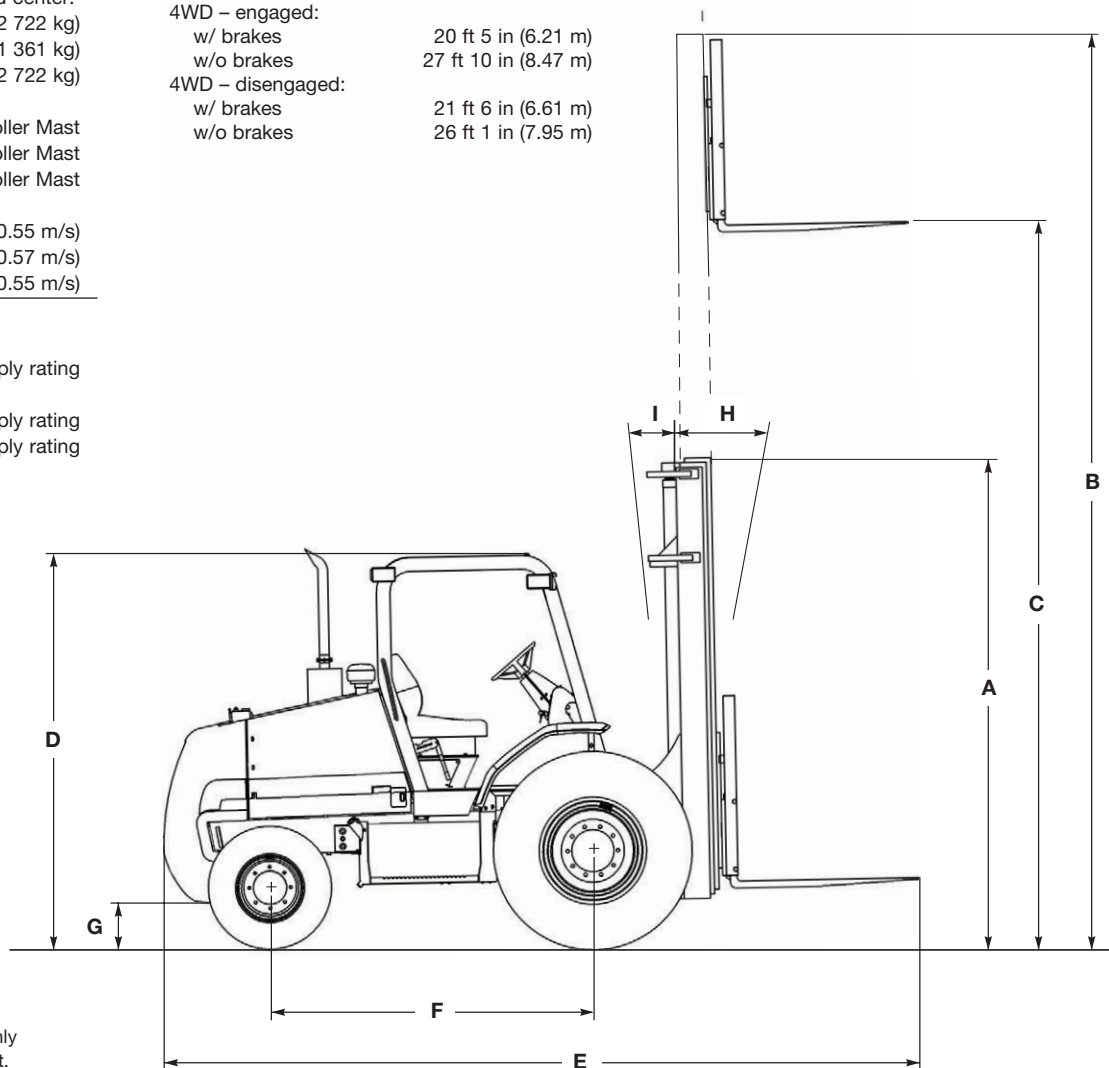
Tires:

Front:

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

2WD	11 L x 16, 10-ply rating
4WD	12 L x 16.5, 8-ply rating



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	16 ft (4.88 m) Freelif Mast
A. Overall height to top of mast – mast closed	10 ft 7 in (3.23 m)	10 ft 7 in (3.23 m)	8 ft 7 in (2.62 m)
B. Overall operating height – mast raised to full height	18 ft 0 in (5.49 m)	25 ft 2 in (7.67 m)	19 ft 0 in (5.79 m)
C. Maximum fork height – forks horizontal	15 ft 0 in (4.57 m)	22 ft 0 in (6.71 m)	16 ft 0 in (4.88 m)
Maximum Freelif mast height	3 in (76 mm)	2 in (51 mm)	5 ft 7 in (1.70 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)	104.1 in (2 645 mm)
E. Overall length with 48 in forks	16 ft 2 in (4.93 m)	16 ft 3 in (4.95 m)	16 ft 3 in (4.95 m)
F. Wheelbase:			
2WD	84 in (2.13 m)	84 in (2.13 m)	84 in (2.13 m)
4WD	84.5 in (2.15 m)	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)	10.3 in (260 mm)
4WD	10.3 in (260 mm)	10.3 in (260 mm)	10.3 in (260 mm)
H. Forward mast tilt	45°	45°	45°
I. Backward mast tilt	15°	15°	15°
Overall width – outside tires	7 ft 0 in (2 117 mm)	7 ft 0 in (2 117 mm)	7 ft 0 in (2 117 mm)
Mast side shift – right	3 in (76 mm)	3 in (76 mm)	3 in (76 mm)
Mast side shift – left	3 in (76 mm)	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

MAST

See page 1

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 11 L x 16 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

Gear pump – 18 gal/min @ 3,000 psi (68 L/min @ 207 bar)
Heavy-duty hydraulic oil cooler
7 micron, spin-on oil filter

OPERATOR ENVIRONMENT

See page 1

OTHER

Swing out side panel engine access
Front/rear tie downs
Reflective logos
Canopy only:
2 front driving lights
2 rear halogen work lights

OPTIONAL EQUIPMENT

ENGINE

Cold Weather Starting Aid:
Dual 12 Volt batteries with glow plugs
Block heater
Master disconnect switch and remote
Jump start terminals
Pre-Cleaner

MAST/FORKS/CARRIAGE

15 ft Standard Mast
22 ft Standard Mast
16 ft Freelif Mast
Power Positioning Mast and Forks
48 in Pallet Forks, ITA Class 3 hook type
48 in Pallet Forks, shaft type
60 in Backrest

HYDRAULICS

Front auxiliary hydraulics

OPERATOR ENVIRONMENT

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

OTHER

Slow moving vehicle emblem
Special paint
Lock-up covers
Light Package:
Turn signals
Hazard warning
Combination flashers
Tool box
Sitewatch Telematics

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CASE Construction Equipment is biodiesel-friendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



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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