

F80C

ROUGH TERRAIN FORKLIFT



F80C ROUGH TERRAIN FORKLIFT SPECIFICATIONS

ENGINE	
Model	FPT F5HFL463D
Emissions certification	Tier 4 Final
Type	Diesel, 4-stroke, turbocharged
Cylinders	4
Bore/Stroke	3.9 x 4.33 in (99 x 110 mm)
Displacement	207 in³ (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 in² (3145 cm²)
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 Synchronesh 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.

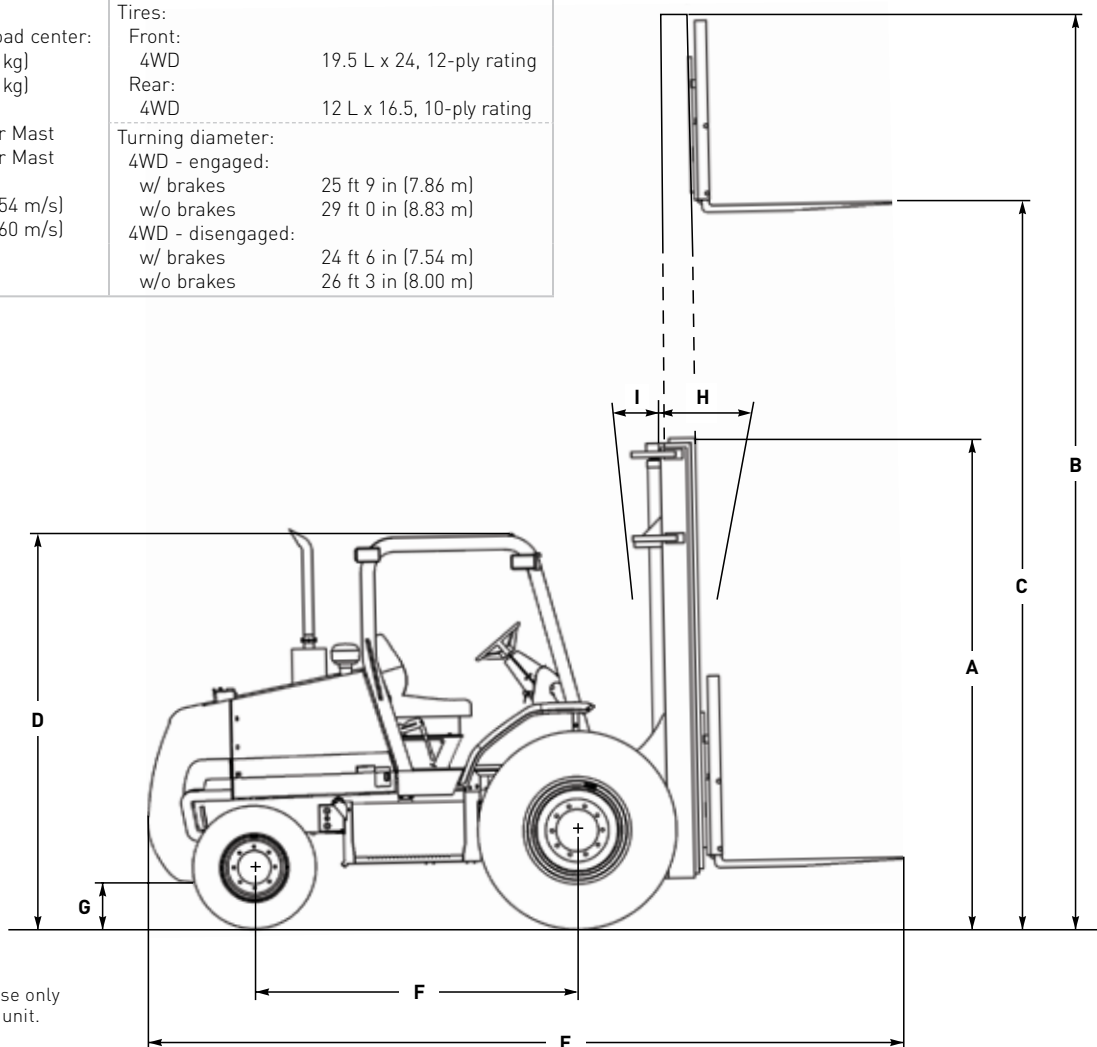
OPERATING WEIGHT	
Configuration 1 – Lightest (with canopy option):	16,102 lb (7304 kg) 4WD, 15 ft Std. Mast, 48 in forks
Configuration 2 – Heaviest (with cab option):	17,418 lb (7900 kg) 4WD, cab, 22 ft Std. Mast, 48 in forks
Add-on weights:	
Cab:	440 lb (200 kg)
Masts:	
15 ft Std. Mast	2468 lb (1120 kg)
22 ft Std. Mast	3183 lb (1444 kg)
Carriage – 60 in	110 lb (50 kg)
Forks:	
Hook style	330 lb (150 kg)

HYDRAULICS	
Pump	Gear pump
Capacity	24 gal/min @ 3000 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:	
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:		Tires:	
Lift capacity to full height w/ 24 in load center:		Front:	
15 ft Std. Mast	8000 lb (3628 kg)	4WD	19.5 L x 24, 12-ply rating
22 ft Std. Mast	4000 lb (1814 kg)	Rear:	
		4WD	12 L x 16.5, 10-ply rating
Mast type:		Turning diameter:	
15 ft Std. Mast	2 Stage Roller Mast	4WD - engaged:	
22 ft Std. Mast	3 Stage Roller Mast	w/ brakes	25 ft 9 in (7.86 m)
		w/o brakes	29 ft 0 in (8.83 m)
Lift speed:		4WD - disengaged:	
15 ft Std. Mast	106 ft/min (0.54 m/s)	w/ brakes	24 ft 6 in (7.54 m)
22 ft Std. Mast	118 ft/min (0.60 m/s)	w/o brakes	26 ft 3 in (8.00 m)



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 (19.5L x 24, 12-ply tires)		
Canopy	104.1 in (2645 mm)	104.1 in (2645 mm)
Cab	106.0 in (2692 mm)	106.0 in (2692 mm)
E Overall length with 48 in forks	17 ft 1 in (5.21 m)	17 ft 2 in (5.23 m)
F Wheelbase:		
4WD	84.5 in (2.15 m)	84.5 in (2.15 m)
G Ground clearance:		
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 (2236 mm)	7 ft 4 in (2236 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 2

Drivetrain

- Front axle, as selected:
 - 4WD heavy-duty outboard planetary drive, with 19.5 L x 24 tires
- Rear axle:
 - 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 2

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

- myNewHollandConstruction Telematics
 - includes hardware and a 7-year advanced data subscription

Optional Equipment

Masts/Forks/Carriages

- Light Guards
- Four mast options for all day lifting:
 - 15' Straight Lift
 - 22' Straight Lift
 - 16' Free-lift
 - 15' Straight lift w/ hydraulic fork positioning
- 60" Carriage with Hook Rail for Hook Type Forks
- Fork lengths (48" - Standard. 60" and 72" also available)
- Hook forks
- Hydraulic fork positioning available on 15' straight lift mast

Hydraulics

- 4 section valve for auxiliary hydraulics

Operator Environment

- Orchard Light Guarding
- 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

Other

- Special paint



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Learn more at www.newholland.com

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Safety begins with a thorough understanding of the equipment. Always make sure you and your operators read the Operator's Manual before using the equipment. Pay close attention to all safety and operating decals and never operate machinery without all shields, protective devices and structures in place. This is a one-person machine. Never allow riders in the cab, outside the machine, or in/on any bucket or attachment.

