ROUGH TERRAIN FORKLIFT

F50C





LIFT AND LOAD FASTER AND MORE SMOOTHLY

The NEW F50C rough terrain forklift lives up to its billing. You'll load materials with greater speed and ease on uneven, rutted or stony terrain. Its high-performing lift capacity, comfortable operator's platform and outstanding dual-mast visibility will increase your productivity in a wide range of work.

Any job, any terrain

Standard 4WD and a power shuttle synchromesh transmission with four forward and four reverse gears put you in control of nearly any job or terrain. Standard differential lock features on-the-go, push-button activation and over 10 inches of ground clearance to let you tackle any terrain with ease.

Fuel-efficient power

A simple, cost-effective Tier 4 Final solution, the 74-HP, 3.4-liter FPT engine features a Diesel Oxidation Catalyst (DOC) for increased fuel efficiency and faster response times. No fluids to add or diesel particulate filters to replace means simplified maintenance.

Industry's first load control system

A 12-ft. standard mast delivers a 5,000-lb. lift capacity. Automatic load control—an industry first—provides on-thego mast cushioning to stabilize your load when traveling over bumpy terrain and reduce shock for a more comfortable ride.

F50C ROUGH TERRAIN FORKLIFT SPECIFICATIONS

| Engine | | |
|-----------------------------|-------------|----------------------------------|
| Model | | FPT F5HFL463D |
| Emissions Certification | | Tier 4 Final |
| Туре | | Diesel, 4-stroke, turbocharged |
| Cylinders | | 4 |
| Bore/Stroke | in (mm) | 3.9 x 4.33 (99 x 110) |
| Displacement | in³ (L) | 207 (3.4) |
| Fuel injection | | Direct high pressure common rail |
| Fuel | | Diesel |
| Cooling | | Charged air |
| Engine speeds* | | |
| Rated - full load | rpm | 2,200 |
| Low idle | rpm | 900 - 1,000 |
| High idle - no load | rpm | 2,330 - 2,430 |
| Horsepower @ 2200 RPM | | |
| Gross | hp (kW) | 74 (55) |
| Net | hp (kW) | 68 (51) |
| Maximum torque @ 1400 RP | М | |
| Gross | lb-ft (N∙m) | 233 (316) |
| Net | lb-ft (N∙m) | 220 (298) |
| Torque rise at rated speed | | 35% +/- 5% |
| Radiator | | |
| Core size area | in² (cm²) | 486 (3145) |
| Rows of tubes | | 5 |
| 33° fan: | | |
| Style Ratio | | 7 blade suction |
| Engine oil | | CJ-4 – semi-synthetic |
| Engine oit | | 10W40 |
| Pump operating angle rating | gs | |
| Side-to-side | | Rated 35° |
| Fore and aft | | Rated 35° |
| Oil filtration | | Replaceable, spin-on |

| 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 | | |
| 1st | mph (kph) | 3.8 (6.1) |
| 2nd | mph (kph) | 6.1 (9.8) |
| 3rd | mph (kph) | 13.0 (20.9) |
| 4th** | mph (kph) | 24.1 (38.8) |
| Torque converter ratio | Torque converter ratio | |
| 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 |

^{*}Meets federal emission regulations.

| 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; Rearview mirrors, left and right; 2 rear LED work lights; Wide walk through platform; 3 in (76mm) seat belt; Molded front fenders; Non-suspension vinyl seat.

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

| Hydraulics | | |
|------------------------------|-----------|--------------------------------|
| Gear pump | gpm (Lpm) | 18 @ 3,000 psi 68 @ 207 bar |
| Heavy-duty hydraulic oil co | oler | |
| 7 micron, spin-on oil filter | | |

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

^{**}Travel speeds at 2330 engine RPM w/ 16.9 x 24 tires.

F50C ROUGH TERRAIN FORKLIFT SPECIFICATIONS Other Specifications Mast (12 ft Standard) Lift capacity to full height 5000 (2268) lb (kg) w/ 24 in load center 2 stage roller mast Mast type ft/min (m/s) 107 (.55) Lift speed Tires 16.9 L x 24, 12 ply rating Front (4WD) Rear (4WD) 12 L x 16.5, 8-ply rating **Turning Diameter** 4WD - engaged: ft in (m) 20' 5" (6.21) w/ brakes w/o brakes ft in (m) 27' 10" (8.47) 4WD – disengaged: ft in (m) 21' 6" (6.61) w/ brakes ft in (m) 26' 1" (7.95) w/o brakes В

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

| Dir | Dimensions Control of the Control of | | | |
|-----|--|-----------|--------------------------|--|
| | | | 12 ft (3.66 m) Std. Mast | |
| A. | Overall height to top of mast – mast closed | in (m) | 110 (2.8) | |
| В. | Overall operating height – top of bin clamp w/ mast fully raised | in (m) | 225 (5.7) | |
| C. | Maximum fork height – forks horizontal | in (m) | 144 (3.7) | |
| D. | Overall height to top of ROPS: 19.5 L x 24, 12-ply | in (m) | 104 (2.6) | |
| E. | Overall length with 48 in forks | ft in (m) | 16' 2" (4.93) | |
| F. | Wheelbase: 4WD | in (m) | 84.5 (2.15) | |
| G. | Ground clearance: 4WD | in (mm) | 10.3 (260) | |
| н. | Forward mast tilt | degrees | 45 | |
| I. | Backward mast tilt | degrees | 15 | |
| | Overall width – outside tires | in (mm) | 80.7 (2050) | |
| | Mast side shift – right | in (mm) | 3 (76) | |
| | Mast side shift – left | in (mm) | 3 (76) | |

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 |

| Drive | train |
|------------------|---|
| 4WD | axle, as selected: heavy-duty outboard planetary drive, with L x 24 tires |
| | axle: heavy-duty mechanically driven rear axle, 12 L x 16.5 tires |
| | Power Shuttle hromesh Transmission |
| Torqu | e converter |
| On-th | e-Go electric 4WD control |
| Electr | ic F/R shuttle control |
| Electr activa | ic differential lock control, with push-button tion |
| Park I | orake, spring applied, hydraulic release |

| Mast |
|---|
| See page 3 |
| 48 in Pallet Forks, ITA Class 2 hook type |

Load control

Hydraulics See page 2 Operator Environment See page 2 Other Swing out side panel engine access Front/rear tie downs Reflective logos Light Package: Turn signals Hazard warning

Combination flashers

2 front LED work lights 2 rear LED work light Brake and turn signals

OPTIONAL EQUIPMENT

Other 4 2 2

FleetForce™ Telematics





Learn more at www.newholland.com

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