**LIFT GEOMETRY**

Radial Lift

**DRIVETRAIN**

Drive pump controls
- Servo-assist mechanical
  - Pump to engine ratio: 1:1
  - Displacement: 2.81 in³ (46 cm³)
  - Flow @ rated engine RPM:
    - @ 97% efficiency: 29.4 gpm (111 L/min)
  - Charge pressure: 360 psi (24.5 bar)
  - System relief pressure: 5,220 psi (360 bar)

Drive pump controls
- Electro-hydraulic
  - Pump to engine ratio: 1:1
  - Displacement: 2.75 in³ (45 cm³)
  - Flow @ rated engine RPM:
    - @ 97% efficiency: 28.8 gpm (109 L/min)
  - Charge pressure: 362 psi (25 bar)
  - System relief pressure: 5,220 psi (360 bar)

Drive motors:
- Max. displacement: 28.7 in³ (470 cm³)
- Displacement – optional:
  - High speed: 17.2 in³ (282 cm³)
  - Motor RPM @ high idle and 97% efficiency: 237
- Optional 2-speed: 355
- Motor torque @ max. displacement and relief pressure, calculated @ 5,220 psi (360 bar):
  - 1,987 lb·ft (2,694 N·m)

Travel speed:
- Low range: 7.0 mph (11.3 kph)
- High range – optional: 10.5 mph (16.9 kph)

Final drive
- Single-reduction chain drive

**HYDRAULICS**

Implement pump type
- Gear

**ELECTRICAL**

Alternator
- 120 amp

**OPERATOR ENVIRONMENT**

Enclosed Cab w/ Heater and AC; Fully sealed and pressurized – FSP; Glass door w/ washer and washer; Sliding side windows – removable; Heater and air conditioner; AM/FM radio w/ 2 speakers; Keyless start ignition; Tilt ROPS/FOPS; Rear window w/ emergency escape; Deluxe cloth, air suspension seat, w/ 2 in (51 mm) retractable 3 point lap seat belt, w/ heater and lumbar support; Hand and foot throttle; Alarm package – back-up and horn; Headliner; Dome Light; Top window; Cup holder; 12V Power plug socket; Foot rest; Seat Pocket; Padded seat bar w/ integral armrests; Loader control lockout system; Electric parking brake control; Operator’s compartment floor cleanout; Proportional auxiliary hydraulic control – on joystick; Advanced Instrument Cluster w/ digital hour meter, tachometer, fuel level LCD bar graph w/ alarm, diagnostic features and security lockout.

**OPERATING WEIGHT**

Unit equipped w/ open cab: 165 lb operator; 72 in Dirt & Foundry bucket; full of fuel: 12 x 16.5 tires: 7,400 lb (3 350 kg)

Shipping weight: 7,065 lb (3 200 kg)

Add-on weights:
- Side cab glass: 47 lb (21.3 kg)
- Polycarbonate cab door: 75 lb (34.0 kg)
- Glass cab door w/ wiper: 75 lb (34.0 kg)
- Suspension seat: 22 lb (10.0 kg)
- Additional counterweight: 300 lb (136.0 kg)

**ENGINE**

Model: FPT F5H FL463 A’F001

Emissions Certification: Tier 4 Final

Type: Diesel 4-stroke, Turbo. DI

Cylinders: 4

Bore/Stroke: 3.9 x 4.3 in (99 x 110 mm)

Displacement: 207 in³ (3.4 L)

Fuel injection: Direct, high pressure common rail – HPCR

Fuel: #2 Diesel

Fuel filter:
- Pre-filter Beta (30) = 200/spin-on
- Main filter Beta (4) = 20/spin-on

Air intake: Turbocharged w/ external EGR

Exhaust aftertreatment: Particulate Matter
- Catalyst – PM Catalyst

Cooling: Liquid

Engine speeds RPM
- High idle – no load: 2500 +/- 25
- Rated – full load: 2500
- Low idle: 1150 +/- 25

Horsepower @ 2500 RPM – SAE J1349:
- Gross: 74 hp (55 kW)
- Net: 68 hp (51 kW)

Peak torque @ 1400 RPM: 232 lb·ft (314 N·m)

Radiator:
- Core type: All aluminum
- Core size area: 2.05 ft² (0.191 m²)
- Rows of tubes x columns: 31 x 4
- Cap pressure: 13 +/- 2 psi
- (0.90 +/- 0.14 bar)

Fan:
- Diameter: 20.4 in (518 mm)
- Ratio: 0.96:1 standard, 1.1:1 high flow

Water pump:
- Style: Centrifugal
- Flow: 29 gpm (110 L/min)

Engine lubrication pump:
- Rotor pump w/ deep sump pan, plate cooler and pressurized under-piston nozzles

Pump operating angle ratings:
- Side to side: 45°
- Bucket up: 35°
- Bucket Down: 45°
**HYDRAULICS CONT.**

**Dimensions**

A. Overall operating height:
   - with foundry/excavating bucket: 156.3 in (3.97 m)
   - with low profile bucket: 160.3 in (4.07 m)
   - with low profile extended bucket: 165.3 in (4.20 m)

B. Bucket hinge pin: 125.1 in (3.18 m)
C. Top of ROPS: 78.8 in (2.00 m)
D. Bottom of level bucket, fully raised: 118.0 in (3.00 m)

E. Maximum dump angle: 38.1°

**Performance Specs**

Rated operating capacity – ROC*:
- 50% of tipping load: 2,400 lb (1,088 kg)
- with additional counterweight: 2,500 lb (1,134 kg)

Tipping load*:
- 4,800 lb (2,177 kg)

Breakout forces @ 3,150 psi (217 bar)*:
- Bucket cylinders: 8,680 lb (39.4 kN)
- Lift cylinders – tip limit: 5,530 lb (25.0 kN)

Cycle times:
- Raise: 3.6 sec
- Lower: 2.0 sec
- Dump: 2.6 sec
- Roll back: 2.0 sec

NOTE: *Measured using 72 in (1.83 m) foundry/excavating bucket.

**Service Capacities**

Fuel tank: 25.5 gal (96.5 L)
Engine oil w/ filter: 8.9 qt (8.5 L)

**Hydraulic System**

- Reservoir: 7.0 gal (26.5 L)
- Total: 11.99 gal (45.4 L)
- Chain tanks – per side: 5.8 gal (22.2 L)

**Chain tanks – per side: 5.8 gal (22.2 L)**

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Tread Gauge</th>
<th>Over Tires Width</th>
<th>Each Tire Weight*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy-Duty</td>
<td>12 L x 16.5</td>
<td>56.9 in (1.45 m)</td>
<td>69.6 in (1.77 m)</td>
<td>110 lb (50 kg)</td>
</tr>
<tr>
<td>Premium</td>
<td>12 L x 16.5</td>
<td>56.9 in (1.45 m)</td>
<td>69.6 in (1.77 m)</td>
<td>119 lb (54 kg)</td>
</tr>
<tr>
<td>Premium-Lined</td>
<td>12 L x 16.5</td>
<td>56.9 in (1.45 m)</td>
<td>69.6 in (1.77 m)</td>
<td>119 lb (54 kg)</td>
</tr>
<tr>
<td>Severe-Duty</td>
<td>12 L x 16.5</td>
<td>56.9 in (1.45 m)</td>
<td>69.6 in (1.77 m)</td>
<td>135 lb (61 kg)</td>
</tr>
<tr>
<td>Non-Pneumatic – Solid</td>
<td>12 L x 16.5</td>
<td>56.9 in (1.45 m)</td>
<td>69.6 in (1.77 m)</td>
<td>280 lb (127 kg)</td>
</tr>
<tr>
<td>Mining</td>
<td>12 L x 16.5</td>
<td>56.9 in (1.45 m)</td>
<td>69.6 in (1.77 m)</td>
<td>380 lb (173 kg)</td>
</tr>
<tr>
<td>Flotation</td>
<td>33 L x 15.5 x 16.5</td>
<td>59.0 in (1.50 m)</td>
<td>76.0 in (1.93 m)</td>
<td>143 lb (65 kg)</td>
</tr>
<tr>
<td>Premium</td>
<td>14 L x 17.5</td>
<td>62.0 in (1.58 m)</td>
<td>76.0 in (1.93 m)</td>
<td>148 lb (67 kg)</td>
</tr>
</tbody>
</table>

**NOTE:** *Tire weight does not include the wheel weight.*

## OPTIONAL BUCKETS

<table>
<thead>
<tr>
<th>Type</th>
<th>Width</th>
<th>Weight</th>
<th>Heaped Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dirt &amp; Foundry</td>
<td>72 in (1.83 m)</td>
<td>420 lb (190 kg)</td>
<td>16.2 ft³ (0.46 m³)</td>
</tr>
<tr>
<td></td>
<td>78 in (1.98 m)</td>
<td>440 lb (200 kg)</td>
<td>17.7 ft³ (0.50 m³)</td>
</tr>
<tr>
<td>Low Profile</td>
<td>72 in (1.83 m)</td>
<td>480 lb (218 kg)</td>
<td>14.8 ft³ (0.42 m³)</td>
</tr>
<tr>
<td>Low Profile Extended</td>
<td>72 in (1.83 m)</td>
<td>510 lb (232 kg)</td>
<td>17.7 ft³ (0.50 m³)</td>
</tr>
<tr>
<td></td>
<td>78 in (1.98 m)</td>
<td>540 lb (245 kg)</td>
<td>19.1 ft³ (0.54 m³)</td>
</tr>
<tr>
<td></td>
<td>84 in (2.13 m)</td>
<td>575 lb (262 kg)</td>
<td>20.5 ft³ (0.58 m³)</td>
</tr>
<tr>
<td>Light Material</td>
<td>72 in (1.83 m)</td>
<td>475 lb (216 kg)</td>
<td>23.3 ft³ (0.66 m³)</td>
</tr>
<tr>
<td></td>
<td>84 in (2.13 m)</td>
<td>540 lb (245 kg)</td>
<td>27.5 ft³ (0.78 m³)</td>
</tr>
<tr>
<td>Manure &amp; Slurry</td>
<td>72 in (1.83 m)</td>
<td>480 lb (218 kg)</td>
<td>19.1 ft³ (0.54 m³)</td>
</tr>
<tr>
<td></td>
<td>84 in (2.13 m)</td>
<td>545 lb (248 kg)</td>
<td>22.6 ft³ (0.64 m³)</td>
</tr>
<tr>
<td>Heavy-Duty</td>
<td>72 in (1.83 m)</td>
<td>510 lb (232 kg)</td>
<td>14.1 ft³ (0.40 m³)</td>
</tr>
<tr>
<td></td>
<td>78 in (1.98 m)</td>
<td>530 lb (240 kg)</td>
<td>15.5 ft³ (0.44 m³)</td>
</tr>
<tr>
<td></td>
<td>84 in (2.13 m)</td>
<td>550 lb (250 kg)</td>
<td>17.0 ft³ (0.48 m³)</td>
</tr>
<tr>
<td>Heavy-Duty with spillguard</td>
<td>72 in (1.83 m)</td>
<td>585 lb (265 kg)</td>
<td>18.4 ft³ (0.52 m³)</td>
</tr>
<tr>
<td></td>
<td>78 in (1.98 m)</td>
<td>605 lb (275 kg)</td>
<td>19.8 ft³ (0.56 m³)</td>
</tr>
<tr>
<td></td>
<td>84 in (2.13 m)</td>
<td>640 lb (290 kg)</td>
<td>21.5 ft³ (0.61 m³)</td>
</tr>
</tbody>
</table>
STANDARD EQUIPMENT

ENGINE
FPT F5H FL463 A*F001
207 CID (3.4 L) Turbo
Tier 4 Final Certified
Particulate Matter Catalyst
Charged Air Cooler (CAC)
High Pressure Common Rail (HPCR) fuel injection

Horsepower:
- Gross: 74 hp (55 kW)
- Net: 68 hp (51 kW)
- Peak torque 232 lb-ft (314 N·m)
- 120 amp alternator

Integral engine oil cooler
Fuel filter with water trap
1,000 CCA 12V battery
Master electrical disconnect

DRIVETRAIN
2-speed hydrostatic four wheel drive
ASA #100HS drive chain
SAHR disc parking brake

HYDRAULICS
Auxiliary hydraulics:
@ 3,050 psi (210 bar) – 24.2 gpm
(91.5 L/min)
6 micron oil filtration system
3-spool loader control valve
Auxiliary hydraulic disconnects, ISO flat-face – connect-under-pressure with case drain
Hydraulic circuit pedal lock
Auxiliary function lockout override
Loader lift lockout override
Heavy-duty hydraulic oil cooler
Loader arm float position
Loader function lockout system
Hydraulic one-way self-leveling
Ride control

DRIVETRAIN
1-speed hydrostatic four wheel drive

OTHER STANDARD FEATURES
Language decals
Factory-installed tires – see page 3
Buckets – see page 3
Bolt-on bucket cutting edges
Bolt-on heavy-duty bucket spill guard
Special paint
Offsite service arrangement
Telematics

FACTORY SUPPLIED ATTACHMENTS
Interior mirror
Add-on counterweights
Road lights
Rotating beacon
Four-corner LED strobe
Bolt-on heavy-duty bucket teeth
48 in (1.22 m) pallet forks

SERVICE PARTS
3 inch (76.2 mm) retractable seat belt

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