Bucket up 35°
Side to side 45°
Pump operating angle ratings:

Bucket Down

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 (24.5 bar)
System relief pressure 5,220 psi (360 bar)

Drive motors:
Max. displacement 3.10 in³ (50.9 cm³)
Displacement – optional: High speed 2.02 in³ (33.1 cm³)
Motor RPM @ high idle and 97% efficiency: 2-speed 156
Motor torque @ max. displacement and relief pressure, calculated @ 5,220 psi (360 bar):
4,654 lb·ft (6 310 N·m)

Final drive:
Planetary gearbox w/ 2-speed motor
Tractive effort 7,414 lb (3 370 kg)

OPERATING WEIGHT

Unit equipped w/ open cab; 165 lb operator; 72 in Dirt & Foundry bucket; full of fuel:
9,270 lb (3 750 kg)

Shipping weight 7,970 lb (3 615 kg)
Add-on weights:
Side cab glass 47 lb (21.3 kg)
Polycarbonate cab door 74 lb (33.6 kg)
Glass cab door w/ wiper 134 lb (60.8 kg)
Suspension seat 22 lb (10.0 kg)
Additional counterweight 140 lb (63.8 kg)

ELECTRICAL

Implement pump type Gear
Displacement:
Standard aux. 2.23 in³ (36.6 cm³)
High-flow aux. 0.76 in³ (12.5 cm³)
Standard flow @ rated engine RPM:
@ 100% efficiency 24.2 gpm (91.5 L/min)
Optional high-flow @ rated engine RPM:
@ 100% efficiency 32.4 gpm (122.6 L/min)

Band control valve:
Type 3 spool/open center/series - series
Relief pressure 3,050 psi (210 bar)

Hydraulic lines:
Tubing 37° JIC Flare
Loop hoses SAE 100 R19

Hydraulic oil cooler:
Number of fins 10 per inch (0.94 per cm)
Number of tube rows x columns 9 x 43
Area 136.5 in² (880 cm²)

Hydraulic filter Beta (4) = 75/spin-on
### Dimensions

**A.** Overall operating height:
- with foundry/excavating bucket: 154.3 in (3.92 m)
- with low profile bucket: 158.3 in (4.02 m)
- with low profile extended bucket: 163.2 in (4.15 m)

**Height to:**
- **B.** Bucket hinge pin: 123.0 in (3.12 m)
- **C.** Top of ROPS: 78.7 in (2.00 m)
- **D.** Bottom of level bucket, fully raised: 116.1 in (2.95 m)

**Overall length:**
- **E.** without attachment with coupler: 105.1 in (2.67 m)
- **F.** with foundry/excavating bucket on ground: 129.6 in (3.29 m)
- with low profile bucket: 133.7 in (3.40 m)
- with low profile extended bucket: 138.8 in (3.53 m)

**G.** Maximum dump angle: 39.6°

**H.** Dump height:
- with foundry/excavating bucket: 98.2 in (2.50 m) @ 39.6°
- with low profile bucket: 95.6 in (2.43 m) @ 39.6°

**L.** Dump reach at maximum height with low profile bucket: 25.4 in (0.65 m) @ 39.6°

**Maximum attachment rollback:**
- **J.** Bucket on ground: 31.0°
- **K.** Bucket at full height: 98.6°

**L.** Track on ground: 55.9 in (1.42 m)

**M.** Ground clearance – bottom of belly pan: 8.0 in (0.20 m)

**N.** Angle of departure: 32.0°

**Clearance circle:**
- **O.** without bucket: 50.7 in (1.29 m)
- **P.** with 72 in (1.83 m) foundry/excavating bucket in carry position:
  - with 72 in (1.83 m) low profile bucket on ground: 79.9 in (2.03 m)
  - with 72 in (1.83 m) extended low profile on ground: 83.1 in (2.11 m)
- **Q.** Clearance circle rear: 62.9 in (1.60 m)
- **R.** Track gauge: 53.4 in (1.36 m)
- **S.** Over the track width: 65.9 in (1.68 m)

---

### Hydraulics Cont.

**Lift cylinders:**
- Bore diameter: 2.50 in (63.5 mm)
- Rod diameter: 1.75 in (44.5 mm)
- Stroke: 31.69 in (804.9 mm)
- Closed length: 45.59 in (118.0 mm)

**Bucket cylinders:**
- Bore diameter: 2.75 in (69.9 mm)
- Rod diameter: 1.38 in (34.9 mm)
- Stroke: 16.14 in (410.0 mm)
- Closed length: 24.02 in (610.0 mm)

### Service Capacities

**Fuel Tank**: 19.5 gal (73.8 L)
- Engine oil w/ filter: 10.0 qt (9.4 L)

**Hydraulic system:**
- Reservoir: 7.0 gal (26.5 L)
- Total: 8.5 gal (32.2 L)

### Performance Specs

**Rated operating capacity – ROC:**
- 35% of tipping load: 1,890 lb (860 kg)
- 50% of tipping load: 2,700 lb (1,225 kg)
- w/ additional counterweight: 2,800 lb (1,270 kg)

**Tipping load**: 5,400 lb (2,449 kg)

**Breakout forces @ 3,150 psi (217 bar):**
- Bucket cylinders: 7,270 lb (32.3 kN)
- Lift cylinders – hydraulic limit: 6,260 lb (27.8 kN)

**Cycle times:**
- Raise: 3.6 sec
- Lower: 1.8 sec
- Dump: 2.2 sec
- Roll back: 1.7 sec

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

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Area</th>
<th>Ground Pressure</th>
<th>Width to Outside Track</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.6 in (320 mm)</td>
<td>1,408 in² (0.91 m²)</td>
<td>5.9 psi (40.5 kPa)</td>
<td>65.9 in (1.68 m)</td>
</tr>
</tbody>
</table>

**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 (230 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>585 lb (265 kg)</td>
<td>18.4 ft³ (0.52 m³)</td>
</tr>
<tr>
<td>Heavy-Duty with spillguard</td>
<td>72 in (1.83 m)</td>
<td>510 lb (230 kg)</td>
<td>14.1 ft³ (0.40 m³)</td>
</tr>
</tbody>
</table>

**STANDARD EQUIPMENT**

**OPERATOR ENVIRONMENT**

See page 1

**ENGINE**

FPT F5H FL463 A’F001
207 CID (3.4 L) Turbo
Tier 4 Final Certified
Particulate Matter Catalyst (PMC)
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
Dual element air cleaner
Organic Acid Technology (OAT)
Anti-freeze solution to -34°F
Fuel tank - 19.5 gal (U.S.)
Over and under radiator and oil cooler
3-stack after cooler/radiator/oil cooler configuration
Glow plugs
Integral engine oil cooler
Fuel filter with water trap
1,000 CCA 12V battery
Master electrical disconnect

**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

**DRIVETRAIN**

2-speed hydrostatic four wheel drive
SAHR disc parking brake

**LOADERS**

Manual attachment coupler
Radial lift geometry
Loader lift arm support strut
SAE operating load: 2,700 lbs
Tipping load: 5,400 lbs

**TRACKS**

HiQual S-Wave Tracks

**OTHER STANDARD FEATURES**

Halogen lights - 2 front, 2 side, 2 rear flood
Heavy duty front lights
Pre-wired for rotating beacon
Lockable service access hood
Single-point daily servicing
Rear tail lights
Remote oil drain
Remote oil and fuel filters
Block heater
Debris ingestion sealing
Mounting points for add-on counterweights
**OPTIONAL EQUIPMENT**

**OPERATOR ENVIRONMENT**

Enclosed cab:
- Fully sealed and pressurized – FSP
- Glass door with wiper and washer
- Sliding side windows – removable
- Ventilation system with integrated heater
- Heater and air conditioner
- AM/FM radio with 2 speakers
- Keyless start ignition

Electro-hydraulic controls:
- For drive/steering, loader functions
- Switchable between H and ISO patterns
- Adjustable sensitivity of controls

Mechanical hand controls

Hand and foot controls:
- Hand controls the loader drive function
- Foot controls the bucket and boom

Non suspension seat

Deluxe cloth, air suspension seat, with heater and lumbar support

Open cab interior trim package

Demolition cab door with polycarbonate FOPS Level 2

Heavy duty rear Door

**HYdraulics**

High-flow auxiliary hydraulics – combined:
- @ 3,050 psi (210 bar) – 32.4 gpm (122.6 L/min)
- Second auxiliary hydraulics

Hydraulic one-way self-leveling

Ride control

**Loader**

Auxiliary front electric control

Hydraulic attachment coupler

**Factory Supplied Attachments**

Add-on counterweights

Road lights

Rotating beacon

Four-corner LED strobe

Bolt-on heavy-duty bucket teeth

48 in (1.22 m) pallet forks

**Hydraulics**

- High-flow auxiliary hydraulics – combined:
  - @ 3,050 psi (210 bar) – 32.4 gpm (122.6 L/min)
  - Second auxiliary hydraulics

Hydraulic one-way self-leveling

Ride control

**Loader**

- Auxiliary front electric control

- Hydraulic attachment coupler

**Other**

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

**Service Parts**

- 3 inch (76.2 mm) retractable seat belt

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