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
Drive chain:
Size ASA #100
Tensile strength 30,000 lb (133.4 kN)
Axles:
Torque @ max. displacement and relief pressure 5,957 lb·ft (8,077 N·m)
Diameter 2.44 in (62 mm)
Length 15.6 in (396 mm)
Parking brake:
Type Spring-applied, hydraulic
Release multiple disc.
Engagement Depress on/off brake button
on handle or instrument panel, raise seat bar, get off seat or stop engine.

ELECTRICAL
Alternator 120 amp
Starter 4.29 hp (3.2 kW)
Battery 12-volt low-maintenance
1,000 cold-cranking amps @ 0°F (-18°C)

OPERATOR ENVIRONMENT
Enclosed Cab w/ Heater and AC; Fully sealed and pressurized – FSP; Glass door w/ wiper and washer; Sliding side windows – removable; Heater and air conditioner; AM/FM radio w/ 2 speakers; Keyless start ignition; Tilt ROPS/FOPS;

HYDRAULICS
Implement pump type Gear
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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)

Height to:

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)

Overall length:

E. without attachment with coupler 117.4 in (2.98 m)
F. with foundry/excavating bucket on ground 142.2 in (3.61 m)
   - with low profile bucket 146.2 in (3.71 m)
   - with low profile extended bucket 151.3 in (3.84 m)

G. Maximum dump angle 38.1°

H. Dump height:
   - with foundry/excavating bucket 100.9 in (2.56 m) @ 38.1°
   - with low profile bucket 98.3 in (2.50 m) @ 38.1°

L. Dump reach at maximum height with low profile bucket 22.6 in (0.57 m) @ 38.1°

Maximum attachment rollback:

J. Bucket on ground 30.7°
K. Bucket at full height 99.7°

L. Wheelbase 52.0 in (1.32 m)
M. Ground clearance – bottom of belly pan 8.0 in (0.20 m)
N. Angle of departure 23.5°

Clearance circle:

O. without bucket 55.1 in (1.40 m)
P. with 72 in (1.83 m) foundry/excavating bucket in carry position 83.5 in (2.12 m)
   - with 72 in (1.83 m) low profile bucket on ground 87.2 in (2.22 m)
   - with 72 in (1.83 m) extended low profile bucket on ground 91.9 in (2.33 m)

Q. Clearance circle rear 70.4 in (1.79 m)
R. Rear axle to bumper 40.7 in (1.03 m)
S. Tread over gauge with spec tires 56.9 in (1.45 m)
T. Over the tire width spec tires 69.6 in (1.77 m)
<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</td>
<td>420 lb (190 kg)</td>
<td>16.2 ft³ (0.46 m³)</td>
</tr>
<tr>
<td></td>
<td>78 in</td>
<td>440 lb (200 kg)</td>
<td>17.7 ft³ (0.50 m³)</td>
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<tr>
<td>Low Profile</td>
<td>72 in</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</td>
<td>510 lb (232 kg)</td>
<td>17.7 ft³ (0.50 m³)</td>
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<tr>
<td></td>
<td>78 in</td>
<td>540 lb (245 kg)</td>
<td>19.1 ft³ (0.54 m³)</td>
</tr>
<tr>
<td></td>
<td>84 in</td>
<td>575 lb (262 kg)</td>
<td>20.5 ft³ (0.58 m³)</td>
</tr>
<tr>
<td>Light Material</td>
<td>72 in</td>
<td>475 lb (216 kg)</td>
<td>23.3 ft³ (0.66 m³)</td>
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<tr>
<td></td>
<td>84 in</td>
<td>540 lb (245 kg)</td>
<td>27.5 ft³ (0.78 m³)</td>
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<tr>
<td>Manure &amp; Slurry</td>
<td>72 in</td>
<td>480 lb (218 kg)</td>
<td>19.1 ft³ (0.54 m³)</td>
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<tr>
<td></td>
<td>84 in</td>
<td>545 lb (248 kg)</td>
<td>22.6 ft³ (0.64 m³)</td>
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<tr>
<td>Heavy-Duty</td>
<td>72 in</td>
<td>510 lb (232 kg)</td>
<td>14.1 ft³ (0.40 m³)</td>
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<tr>
<td></td>
<td>78 in</td>
<td>530 lb (240 kg)</td>
<td>15.5 ft³ (0.44 m³)</td>
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<tr>
<td></td>
<td>84 in</td>
<td>550 lb (250 kg)</td>
<td>17.0 ft³ (0.48 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
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
Dual element air cleaner
Organic Acid Technology (OAT)
Anti-freeze solution to -34º F
Fuel tank – 25.5 gal (U.S.)
Over and under radiator and oil cooler
3-stack after cooler/radiator/oil cooler configuration
Glow plugs

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

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT
ROPS/FOPS Level 1 canopy
with side screens
Keyed 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
Suspension Seat, vinyl
Demolition cab door with polycarbonate FOPS level 2
Integral engine oil cooler
Fuel filter with water trap
1,000 CCA 12V battery
Master electrical disconnect

HYDRAULICS
High-flow auxiliary hydraulics – combined:
- @ 3,050 psi (210 bar) – 37.6 gpm (142.5 L/min)
Second auxiliary hydraulics
Hydraulic one-way self-leveling
Ride control

LOADERS
Auxiliary front electric control
Heavy duty hydraulic attachment coupler
Radial lift geometry
Loader lift arm support strut

TIRES
12 X 16.5 Heavy duty

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 service
Rear tail lights
Remote oil drain
Remote oil and fuel filters
Block heater
Debris ingress sealing
Mounting points for add-on counterweights
Heavy duty rear door

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