2050M
CRAWLER DOZER
XLT/WT/LGP
TIER 4 FINAL CERTIFIED

DRIVETRAIN

Dual path hydrostatic:
- Pump: Variable axial piston
- Motor: Variable bent axis piston

Max. drawbar pull: 81,000 lb (360 kN)

Transmission:
- Single lever control - electronic straight tracking

Transmission oil filter: 4 micron at beta 75, replaceable w/ 100 mesh suction screen

Travel speeds:
- Forward: 6.1 mph (9.8 kph)
- Reverse: 6.1 mph (9.8 kph)

Parking brakes: Heavy-duty, spring-applied, hydraulic pressure release

Steering brakes: Hydrostatic

Final drive: 2 helical gear reduction to planetary output

Ratio: 48.75:1

Transmission cooling:
- Type: Tube and fin
- Core size: 510.1 in² (3.3 m²)

ELECTRICAL

Alternator: 120 amp

Battery: (2) 12-volt, low-maintenance
1200 cold-cranking amps @ 0° F (-18° C)

Electrical System: 24 Volts

OPERATOR ENVIRONMENT

Fully enclosed ROPS cab; Single lever control for speed, steering and direction; Cloth air suspension seat w/ back adjustment; Retractable 2 in (51 mm) seat belt; Adjustable armrest; Two foot rest; Rearview mirror; Two door windshield wipers; Dome light; 12-volt accessory outlet; Headliner; Floor mat.

Warning lights:
- Air filter; Alternator; Diagnostic fault indicator; Engine coolant temperature; Engine oil pressure; Hydraulic filter; Low fuel level; Park brake engaged; Service soon indicator; Transmission filter; Transmission charge pressure.

Gauges:
- Battery voltage; Fuel level; Digital hour meter/tachometer/diagnostic/service reminder; Transmission oil temperature; Transmission speed indicator; Water temperature; Diesel Exhaust Fluid (DEF) level.

Audible warnings:
- Engine coolant temperature; Engine oil pressure; Low fuel level; Transmission charge pressure; Temperature/hydraulic temperature.

OPERATING WEIGHT

Unit equipped w/ cab, full fuel tank, 170 lb (77 kg) operator, rear retrieval hitch, track guides, PAT blade.

- Extra long track: 45,414 lb (20,599 kg)
- Wide track: 46,891 lb (21,269 kg)
- Low ground pressure: 48,773 lb (22,123 kg)

Add-on weights:
- Drawbar: 146 lb (66 kg)
- Ripper – 3 shank: 4,145 lb (1,880 kg)
- Winch: 5,512 lb (2,500 kg)
- Ultra-Life chain: 146 lb (66 kg)
- Ripper – 5 shank: 4,145 lb (1,880 kg)
- Winch: 5,512 lb (2,500 kg)

HYDRAULICS

Pump flow @ 2200 RPM @ 2,830 psi (19,512 kPA): 40.4 gpm (153 L/min)

Lift cylinder w/ PAT:
- Two (2)
  - Bore diameter: 4.50 in (114.3 mm)
  - Rod diameter: 2.50 in (63.5 mm)
  - Stroke: 19.21 in (488.0 mm)

Angle cylinder w/ PAT:
- Two (2)
  - Bore diameter: 4.50 in (114.3 mm)
  - Rod diameter: 2.50 in (63.5 mm)
  - Stroke: 19.79 in (502.7 mm)

Tilt cylinder w/ PAT:
- One (1)
  - Bore diameter: 5.00 in (127.0 mm)
  - Rod diameter: 2.50 in (63.5 mm)
  - Stroke: 19.79 in (502.7 mm)

Lift cylinder – Bulldozer:
- Two (2)
  - Bore diameter: 3.68 in (93.5 mm)
  - Rod diameter: 2.25 in (57.2 mm)
  - Stroke: 35.67 in (906 mm)

Tilt cylinder – Bulldozer:
- One (1)
  - Bore diameter: 4.50 in (114.3 mm)
  - Rod diameter: 2.50 in (63.5 mm)
  - Stroke: 3.89 in (98.9 mm)

SERVICE CAPACITIES

Fuel tank: 107.0 gal (405.0 L)

Engine oil w/ filter: 17.3 qt (16.4 L)

Engine oil w/o filter: 16.5 qt (15.6 L)

Engine cooling system: 8.0 gal (30.28 L)

Hydraulic reservoir: 55.0 gal (210.0 L)

Final drive – per side: 26.4 qt (25.0 L)

Track rollers – each: 0.376 qt (0.356 L)

Front idlers – each: 0.349 qt (0.330 L)

Carrier rollers – each: 0.328 qt (0.310 L)

DEF tank: 14.0 gal (52.0 L)
OTHER SPECIFICATIONS

Undercarriage:
- Track adjustment: Hydraulic
- Frame: Pivot shaft and oscillating equalizer beam suspension
- Length of track on ground: 128 in (3.25 m)
- Track link pitch: 7.99 in (202.9 mm)
- Track shoe height: 2.81 in (71.5 mm)
- Pin diameter: 1.75 in (44.5 mm)
- Bushing diameter:
  - SALT HD track: 2.87 in (72.9 mm)
  - Ultra Life track: 2.87 in (72.9 mm)
- Track shoes per side: 45
- Track rollers per side: 8
- Carrier rollers per side: 2
- Track roller rail diameter: 8.94 in (227 mm)

Track on ground:
- Shoe area:
  - 24 in (610 mm): 5,233 in² (33 760 cm²)
  - 28 in (711 mm): 7,157 in² (46 171 cm²)
  - 30 in (762 mm): 7,686 in² (49 469 cm²)
  - 36 in (914 mm): 9,201 in² (59 363 cm²)

Track:
- Extra long track:
  - 24 in (610 mm) closed grousers and SALT HD
  - 24 in (610 mm) open grousers and Ultra Life
- Wide track:
  - 28 in (711 mm) closed grousers and SALT HD
  - 28 in (711 mm) open grousers and Ultra Life
  - 30 in (762 mm) closed grousers and SALT HD
  - 30 in (762 mm) open grousers and Ultra Life

Low ground pressure:
- 36 in (914 mm) closed grousers and SALT HD
- 36 in (914 mm) open grousers and Ultra Life

DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>Extra Long Track (XLT) with Semi-U</th>
<th>Extra Long Track (XLT) with PAT</th>
<th>Low Ground Pressure (LGP) with Straight PT</th>
<th>Low Ground Pressure (LGP) with PAT</th>
<th>Low Ground Pressure (LGP) with Semi-U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blade width</td>
<td>134.7 in (3,422 mm)</td>
<td>142 in (3,607 mm)</td>
<td>154 in (3,900 mm)</td>
<td>157.5 in (4,064 mm)</td>
<td>157 in (3,988 mm)</td>
</tr>
<tr>
<td>SAE blade capacity</td>
<td>7.29 yd³ (5.57 m³)</td>
<td>6.32 yd³ (4.83 m³)</td>
<td>4.94 yd³ (3.78 m³)</td>
<td>7.12 yd³ (5.54 m³)</td>
<td>7.98 yd³ (6.10 m³)</td>
</tr>
<tr>
<td>A. Blade height</td>
<td>56 in (1,418 mm)</td>
<td>53.8 in (1,366 mm)</td>
<td>43.5 in (1,051 mm)</td>
<td>53.9 in (1,369 mm)</td>
<td>53 in (1,349 mm)</td>
</tr>
<tr>
<td>Blade lift above ground</td>
<td>49 in (1,237.7 mm)</td>
<td>44.5 in (1,130 mm)</td>
<td>46 in (1,169 mm)</td>
<td>44.5 in (1,130 mm)</td>
<td>48.4 in (1,228 mm)</td>
</tr>
<tr>
<td>B. Blade depth below ground</td>
<td>21.5 in (546.8 mm)</td>
<td>21.4 in (542.8 mm)</td>
<td>20.0 in (507.8 mm)</td>
<td>21.4 in (542.8 mm)</td>
<td>21.6 in (548 mm)</td>
</tr>
<tr>
<td>C. Blade angle both directions</td>
<td>–</td>
<td>25°</td>
<td>–</td>
<td>–</td>
<td>25°</td>
</tr>
<tr>
<td>D. Cast reach</td>
<td>17.3 in (438.9 mm)</td>
<td>22.7 in (578.4 mm)</td>
<td>14.3 in (363 mm)</td>
<td>18.6 in (472.1 mm)</td>
<td>16.2 in (411 mm)</td>
</tr>
<tr>
<td>E. Cut reach</td>
<td>17.3 in (438.9 mm)</td>
<td>5.7 in (145.7 mm)</td>
<td>14.3 in (363 mm)</td>
<td>1.7 in (43.0 mm)</td>
<td>16.2 in (411 mm)</td>
</tr>
<tr>
<td>Blade tilt, each end</td>
<td>17 in (433 mm)</td>
<td>21.7 in (550 mm)</td>
<td>16.2 in (411 mm)</td>
<td>21.7 in (550 mm)</td>
<td>15.7 in (400 mm)</td>
</tr>
<tr>
<td>Track gauge</td>
<td>76 in (1,914 mm)</td>
<td>76 in (1,914 mm)</td>
<td>89 in (2,267 mm)</td>
<td>89 in (2,267 mm)</td>
<td>89 in (2,267 mm)</td>
</tr>
<tr>
<td>Maximum shoe width</td>
<td>24 in (609 mm)</td>
<td>24 in (609 mm)</td>
<td>36 in (914 mm)</td>
<td>36 in (914 mm)</td>
<td>36 in (914 mm)</td>
</tr>
<tr>
<td>F. Length of track on ground</td>
<td>128 in (3,255 m)</td>
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</tr>
<tr>
<td>Area of track on ground</td>
<td>7,161 in² (46.62 m²)</td>
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<td>9,107 in² (58.84 m²)</td>
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</tr>
<tr>
<td>Ground pressure</td>
<td>7.33 psi (0.51 bar)</td>
<td>7.33 psi (0.51 bar)</td>
<td>5.35 psi (0.36 bar)</td>
<td>5.35 psi (0.36 bar)</td>
<td>5.35 psi (0.36 bar)</td>
</tr>
<tr>
<td>G. Height to top of ROPS cab</td>
<td>10 ft 3 in (3,150 mm)</td>
<td>10 ft 3 in (3,150 mm)</td>
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<td>10 ft 3 in (3,150 mm)</td>
<td>10 ft 3 in (3,150 mm)</td>
</tr>
<tr>
<td>Height to top of exhaust</td>
<td>9 ft 4 in (2,870.7 mm)</td>
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<td>9 ft 4 in (2,870.7 mm)</td>
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</tr>
<tr>
<td>H. Ground clearance</td>
<td>16.1 in (408.2 mm)</td>
<td>16.1 in (408.2 mm)</td>
<td>16.1 in (408.2 mm)</td>
<td>16.1 in (408.2 mm)</td>
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<tr>
<td>Length:</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>I. Blade straight with drawbar</td>
<td>17 ft 7 in (5,359 mm)</td>
<td>19 ft 4 in (5,902 mm)</td>
<td>19 ft 3 in (5,867 mm)</td>
<td>19 ft 4 in (5,902 mm)</td>
<td>19 ft 6 in (5,980 mm)</td>
</tr>
<tr>
<td>J. Blade angled</td>
<td>22 ft 5 in (6,833 mm)</td>
<td>24 ft 2 in (7,366 mm)</td>
<td>24 ft 2 in (7,366 mm)</td>
<td>24 ft 1 in (7,353 mm)</td>
<td></td>
</tr>
<tr>
<td>K. Over track</td>
<td>8 ft 3 in (2,515 mm)</td>
<td>8 ft 3 in (2,515 mm)</td>
<td>10 ft 4 in (3,150 mm)</td>
<td>10 ft 4 in (3,150 mm)</td>
<td>10 ft 4 in (3,166 mm)</td>
</tr>
</tbody>
</table>

Blade:
- Variable blade pitch: 55° – 60°
- Lift speed – per second: 19.0 in (483 mm)
- Cutting edge – PAT: Reversible, replaceable
- Width: 10.0 in (254 mm)
- Thickness: 0.8 in (20 mm)
- Ripper:
  - Max. penetration: 18.6 in (472.5 mm)
  - Width: 76.3 in (1,937 mm)
  - Cut width: 74.4 in (1,890 mm)
  - Max. ground clearance: 23.7 in (601.7 mm)
  - Max. number of shanks: 3
  - Tooth spacing:
    - w/ 3 teeth: 33.6 in (854.3 mm)
- Hydraulic cylinder: Double-acting
- Diameter: 6.14 in (156 mm)
- Stroke: 23.5 in (597 mm)
- Rod: 2.75 in (70 mm)

NOTE: Ground clearance and overall height dimensions are with the grousers fully penetrated. Add 2.19 in (56 mm) if unit is on solid surface.
STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

F4HFE613J
Tier 4 Final Certified
V-Shape Cooling package with hydraulic-driven reversing fan
Integral engine oil cooling
Fuel filter
Dual element radial seal air cleaner
120 amp alternator
(2) 950 CCA 12-volt batteries
Engine side panels

DRIVETRAIN

Dual path infinitely variable, single-lever controlled hydrostatic drive, with electronic straight tracking and counter-rotation
Final drive:
Triple reduction; helical gear/planetary decelerator with hydrostatic drive retardation
Automatic spring-applied parking brake

HYDRAULICS

4-spool hydraulic valve for field-installed ripper
3-spool hydraulic valve without plugs for field-installed ripper
3-spool hydraulic valve with plugs

Rear wiper for cab
Radio
Bluetooth, WeatherBand, Satellite Radio

UNDERCARRIAGE

Ripper – 2 position with 3 shanks
Rear tow hook
Drawbar
Drawbar with step

GUARDS

CAB canopy brush guard
Full length rock guards
Waste Handler Guarding Package

SCREENS

Cab rear screen

BLADES

PAT – 142 in (3 607 mm) High Visibility Blade
48 in height
PAT – 142 in (3 607 mm)
54 in height
PAT – 157.5 in (4 000.5 mm)
54 in height
Folding PAT – 160 in (4 064 mm)
HS Straight (WT/LGP) – 154 in (3 900 mm)
Semi-U – 133 in (3 422 mm)
Larger Bull Dozer LGP
Semi-U Blade – 157 in (3 988 mm)
HS Straight (XLT) – 131 in (3 334 mm)

PRECISION

Universal Blade Guidance Ready
Compatible with Leica, Trimble, and Topcon Systems from the Factory
Blade guidance ready – Trimble
Blade guidance ready – Leica
Blade guidance ready – Topcon
SiteControl CoPilot powered by Leica

OTHER

Anti-vandalism package
Backup alarm
Horn
Work lights:
2 front
1 rear
Ground Level Master disconnect switch
Mirror
Pre-cleaner
Front pull hook

TELEMATICS

CASE SiteWatch™ Telematics – includes hardware and a 3-yr Advanced data subscription

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Cab air quality system
Seat belt – 3 in (76 mm)
Rear wiper for cab
Radio
Bluetooth, WeatherBand, Satellite Radio

REAR MOUNTED EQUIPMENT

Ripper – 2 position with 3 shanks
Rear tow hook
Drawbar
Drawbar with step

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