**ENGINE**

- **Model** .......... Case 4T-390 diesel
- **Type** .......... 4-stroke, turbocharged
- **Cylinders** .......... 4
- **Bore/Stroke** ........... 4.02” x 4.72” (102 x 120 mm)
- **Displacement** .......... 239 in³ (3.9 L)
- **Fuel injection** .......... Direct
- **Fuel** .......... #2 Diesel
- **Fuel filter** .......... In-line strainer
- **Air intake** .......... Cross-flow
- **Cooling** .......... Liquid
- **Engine speeds (rpm)**
  - High idle – no load........ 2400+50
  - Rated – full load ............. 2200
  - Low idle.......................... 950
- **Horsepower per SAE J1349**
  - Gross........ 85 (63.4 kW) @ 2200 rpm
  - Net .......... 79 (59 kW) @ 2200 rpm
- **Peak torque**
  - @ 1500 rpm..... 254 lb·ft (344 N·m)

**ENGINE COOLING**

- **Radiator**
  - Core type .............. Square wave serpentine
  - Core size area.... 165.9 in² (.107 m²)
  - Rows of tubes ................. 5
  - Cap pressure .... 14.9 psi (103 kPa)
- **Fan**
  - Diameter ........... 20.4” (518 mm)
  - Ratio .................. 1:1:1
- **Water pump**
  - Style ..................... Integral
  - Flow .............. 45 gpm (170 L/min)
- **Engine lubrication**
  - Pump........ Deep sump plate cooler with pressurized under-piston nozzles
  - Pump operating angle ratings
    - Side-to-side............ Rated 45°
    - Fore and aft................ Rated 45°
  - Oil filtration .......... Replaceable, full-flow cartridge

**POWERTRAIN**

- **Drive pump** .... Tandem, axial piston hydrostatic transmission
  - w/integral charge pump driven directly off engine flywheel
- **Pump to engine ratio** .......... 1:1
- **Displacement... 0 to 2.81 in³ (46 cc)**
- **Pump flow @ rated rpm** .. 26.7 gpm (101 L/min)
- **Flow .................. Bi-directional**
- **Charge pressure... 400 psi (27.6 bar)**
- **System relief ........ 5004 psi (345 bar)**
- **Controls .................. Servo**
- **Drive motors** .... Fixed displacement high torque, low-speed gerotor motor with shuttle valve
- **Maximum displacement... 30.7 in³ (503 cc)**
- **Speed @ rated engine rpm**
  - @ max displacement...... 183 rpm
- **Torque @ max displacement and relief pressure******** 1,752 lb·ft (2383 N·m)**
- **Travel speed ................ 7.0 mph (11.3 km/h)**
- **Final drive........ Single-reduction chain drive**
- **Drive chain**
  - Size .................. ASA #100HS
  - Tensile strength .......... 30,000 lb (133 447 N)
- **Axles............ One-piece, forged induction-hardened high carbon steel**
- **Torque @ rated rpm** .... 4,906 lb·ft (6651 N·m)
- **Diameter ........... 2.0” (51 mm)
- **Length ................ 14.61” (371 mm)
- **Parking brakes.............. Pin lock**
- **Engagement ................ Raise seat bar**

**HYDRAULIC SYSTEM**

**Standard equipment**

- **Pump-------------------- Gear pump**
- **Displacement... 2.32 in³/rev (38 cc)**
- **Pump flow @ rated engine rpm**
  - Total ........ 21.0 gpm (79.4 L/min)
  - Loader control valve .......... 2-spool open-center series with power beyond port
  - Relief pressure .. 3000 psi (207 bar)
  - Port relief pressures
    - #1A Lower ........ 3800 psi (262 bar)
    - #1B Raise........... 3100 psi (214 bar)
    - #2A Rollback .... 3800 psi (262 bar)
    - #2B Dump .......... 3100 psi (214 bar)
    - #3A & B Auxiliary .......... None
- **Hydraulic lines**
  - Tubing .................. 37° JIC Flare
  - Loop hoses .......... SAE 100 R12
  - Swing-out hydraulic oil cooler
  - Core type .......... Four row in-line
  - Hydraulic filters .......... 6-micron, spin-on replaceable element for the return line with warning indicator
  - Filter capacity
  - Return line filter...... 0.2 oz (27 g)
INSTRUMENTATION
Digital hourmeter
Fuel level LED bar graph
Warning lights
Fuel level
Voltage
Engine coolant temperature
Engine oil pressure
Air cleaner restriction
Hydraulic filter restriction
Hydraulic oil temperature
Systems normal
Seat belt reminder
Warning alarms
Engine coolant temperature
Engine oil pressure
Hydraulic oil temperature
Seat belt reminder

OPERATOR ENVIRONMENT
Tilt ROPS/FOPS canopy
w/ side screens
Water-shedding vinyl seat
Seat presence switch
2" (51 mm) retractable seat belt
Seat bar w/integral armrests
Two servo-assist, adjustable,
hand-only control levers
Hand throttle
Loader control lockout system
Front and rear halogen floodlights
Floor cleanout access

ELECTRICAL SYSTEM
Alternator................................ 65 amp
Starter ....................................... 2.5 kW
Battery........ 12-volt low-maintenance
610 cold-cranking amps
@ 0°F (-18°C)

OPERATING WEIGHTS
Unit equipped with 12.00 x 16.5
Solideal Hauler SKS tires, 66"
(1.6 m) short lip bucket,
mechanical attachment coupler,
full fuel and 165 lb (75 kg)
operator .......................... 6,906 lb (3133 kg)
Shipping weight... 6,238 lb (2830 kg)
Add-on weights
Side cab glass............... +70 lb (32 kg)
Lexan® door............. +50 lb (22.6 kg)
Glass door w/wiper... +77 lb (35 kg)
Floor heater............... +20 lb (9.1 kg)
Suspension seat...... +10 lb (4.5 kg)

SERVICE CAPACITIES
Fuel tank................... 22.0 gal (83.3 L)
Engine oil w/filter ....... 11 qt (10.4 L)
Engine oil w/o filter....... 10 qt (9.5 L)
Engine cooling system ... 17.5 qt (16.6 L)
Hydraulic system
Reservoir................. 7.1 gal (32.4 L)
Total....................... 13.3 gal (50.2 L)
Chain tanks (per side)..... 6 qt (5.7 L)

TIRE SELECTION

<table>
<thead>
<tr>
<th>Size</th>
<th>Ply</th>
<th>Tread</th>
<th>Tire Width</th>
<th>Depth</th>
<th>Over Tire</th>
<th>Tire Weight*</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>33/10.00 x 16.5</td>
<td>10</td>
<td>0.81&quot;</td>
<td>10.2&quot;</td>
<td>59&quot;</td>
<td>72 lb</td>
<td>7.0 mph</td>
<td></td>
</tr>
<tr>
<td>12.00 x 16.5</td>
<td>10</td>
<td>0.75&quot;</td>
<td>13.1&quot;</td>
<td>64&quot;</td>
<td>51 lb</td>
<td>7.0 mph</td>
<td></td>
</tr>
<tr>
<td>12.00 x 16.5 (offset wheel)</td>
<td>10</td>
<td>0.75&quot;</td>
<td>13.1&quot;</td>
<td>71&quot;</td>
<td>51 lb</td>
<td>7.0 mph</td>
<td></td>
</tr>
<tr>
<td>12.00 x 16.5</td>
<td>10</td>
<td>0.81&quot;</td>
<td>12.4&quot;</td>
<td>64&quot;</td>
<td>81 lb</td>
<td>7.0 mph</td>
<td></td>
</tr>
<tr>
<td>12.00 x 16.5 (offset wheel) II</td>
<td>10</td>
<td>0.81&quot;</td>
<td>12.4&quot;</td>
<td>71&quot;</td>
<td>81 lb</td>
<td>7.0 mph</td>
<td></td>
</tr>
<tr>
<td>33/15.50 x 16.5</td>
<td>12</td>
<td>0.81&quot;</td>
<td>15.2&quot;</td>
<td>70&quot;</td>
<td>96 lb</td>
<td>7.0 mph</td>
<td></td>
</tr>
<tr>
<td>12.00 x 16.5</td>
<td>12</td>
<td>1.25&quot;</td>
<td>12.6&quot;</td>
<td>64&quot;</td>
<td>96 lb</td>
<td>7.0 mph</td>
<td></td>
</tr>
<tr>
<td>12.00 x 16.5 (offset wheel) II</td>
<td>12</td>
<td>1.37&quot;</td>
<td>12.0&quot;</td>
<td>64&quot;</td>
<td>100 lb</td>
<td>7.0 mph</td>
<td></td>
</tr>
<tr>
<td>33/15.50 x 16.5</td>
<td>14</td>
<td>1.37&quot;</td>
<td>15.1&quot;</td>
<td>70&quot;</td>
<td>124 lb</td>
<td>7.0 mph</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: *Tire weight does not include wheel weight.
PERFORMANCE SPECS

Operating load .......... 2,000 lb (908 kg)
Tipping load .......... 4,000 lb (1815 kg)
Breakout force
   Lift cylinder ............. 4,664 lbf (20 747 N)
   Bucket cylinder .......... 5,885 lbf (26 178 N)
Dig depth
   w/bucket flat ............. 0" (0 mm)
Cycle time
   Raise ..................... 4.1 seconds
   Lower .................... 3.2 seconds
   Dump .................... 2.4 seconds
   Rollback ................. 1.9 seconds

NOTE: SAE rated lift capacities. Breakout force and cycle time measured with rated load in D/F bucket.

OPTIONAL BUCKETS

<table>
<thead>
<tr>
<th>Type</th>
<th>Width (m)</th>
<th>Weight (kg)</th>
<th>Capacity (m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundry/Excavating</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>270</td>
<td>11.5</td>
<td></td>
</tr>
<tr>
<td>66</td>
<td>370</td>
<td>15.2</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>490</td>
<td>18.4</td>
<td></td>
</tr>
<tr>
<td>Low Profile</td>
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<tr>
<td>60</td>
<td>400</td>
<td>13.2</td>
<td></td>
</tr>
<tr>
<td>66</td>
<td>425</td>
<td>14.5</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>477</td>
<td>18.6</td>
<td></td>
</tr>
<tr>
<td>Low Profile Extended</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>360</td>
<td>14.3</td>
<td></td>
</tr>
<tr>
<td>66</td>
<td>434</td>
<td>15.5</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>502</td>
<td>18.6</td>
<td></td>
</tr>
<tr>
<td>Utility/Light Material</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>350</td>
<td>19.7</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>434</td>
<td>23.7</td>
<td></td>
</tr>
<tr>
<td>84</td>
<td>497</td>
<td>27.9</td>
<td></td>
</tr>
<tr>
<td>Manure/Slurry</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>340</td>
<td>16.7</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>465</td>
<td>19.1</td>
<td></td>
</tr>
</tbody>
</table>

DIMENSIONS

A. Overall operating height
   w/foundry/excavating bucket – short lip .................. 152.4" (3.87 m)
   w/low profile bucket – standard lip ..................... 158.0" (4.01 m)
   w/low profile extended bucket – long lip ................ 163.0" (4.14 m)

   Height to*
   B. Bucket hinge pin ........................................... 121.5" (3.09 m)
   C. Top of rollover protective structure .................. 76.7" (1.95 m)
   D. Bottom of level bucket, loader arm fully raised ...... 114.2" (2.90 m)

   Overall length
   E. w/o attachment w/coupler ................................... 103.9" (2.64 m)
   F. w/foundry/excavating bucket on ground ................ 127.2" (3.23 m)
   F. w/low profile bucket on ground .......................... 132.9" (3.38 m)
   F. w/low profile extended bucket on ground ............... 137.9" (3.50 m)

   G. Dump angle at maximum height ................................ 39°

   H. Dump height – loader arm fully raised
      w/foundry/excavating bucket ............................... 96.6" (2.45 m)
      w/low profile bucket ...................................... 93.1" (2.37 m)
      w/low profile extended bucket ............................ 90.0" (2.29 m)

   J. Reach – loader arm fully raised
      w/foundry/excavating bucket ............................... 21.3" (0.54 m)
      w/low profile bucket ...................................... 25.9" (0.66 m)
      w/low profile extended bucket ............................ 29.7" (0.75 m)

   Maximum attachment rollback
   K. Bucket on ground .............................................. 32°
   L. Bucket at full height ........................................ 84°

   M. Wheelbase .................................................... 43.1" (1.10 m)

   Ground clearance
   P. Bottom of belly pan .......................................... 9" (229 mm)

   Q. Angle of departure ......................................... 28°

   Clearance circle front
   R. less bucket .................................................. 50.3" (1.28 m)
   S. w/66" (1.68 m) foundry/excavating bucket on ground ... 76.7" (1.95 m)
   S. w/66" (1.68 m) low profile bucket on ground .......... 81.9" (2.08 m)
   S. w/66" (1.68 m) low profile extended bucket on ground... 83.1" (2.00 m)

   T. Clearance circle rear .................................... 59.1" (1.50 m)

   U. Rear axle to bumper ........................................ 36.6" (0.93 m)

   V. Tread width, centerline to centerline .................. 52.6" (1.34 m)

NOTE: *Equipped with 12.00 x 16.5 Solideal Hauler SKS tires.
STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT
- ROPS/FOPS canopy w/ side screens
- Tilt ROPS/FOPS
- Instrument panels
- Water-shedding vinyl seat
- 2” (51 mm) retractable seat belt
- Hand throttle
- Ergonomic hand controls
- Seat bar w/ integral armrests
- Loader control lockout system
- Floor cleanout panel

LOADER
- Radial loader arm design
- Mechanical attachment coupler

ENGINE
- Case 4T-390 diesel (turbo)
- Automatic fan belt tensioner
- Integral engine oil cooling
- Fuel filter w/ water trap
- Dual element air cleaner
- 65 amp alternator
- 610 CCA 12-volt battery
- Heavy-duty radiator

POWERTRAIN
- Hydrostatic four wheel drive
- Servo controls
- ASA #100HS drive chain
- Parking brakes

HYDRAULICS
- Auxiliary hydraulics 3000 psi (207 bar) – 21.0 gpm (79.4 L/min)
- Hydraulic circuit pedal lock
- Loader arm-mounted ISO flat face connectors
- Loader function lockout system
- Loader lockout override
- 3-spool loader control valve
- Heavy-duty swing-out oil cooler
- Loader arm float position

OTHER
- Integral bumper counterweight
- Lockable service access hood
- Single-point daily servicing
- Halogen lights, 2-front, 1-rear
- Rear tail lights

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT
- Vinyl suspension seat w/ 2” (51 mm) retractable seat belt
- Vinyl suspension seat w/ 3” (76 mm) retractable seat belt
- Auxiliary front electric controls
- Chassis options harness
- Lexan® front door
- Glass front door w/ wiper & washer
- Sliding side windows
- Heater (deluxe)
- Rear window w/ emergency escape feature
- Top window
- Foot throttle
- Accessory power outlet

LOADER
- Ride control
- Hydraulic attachment coupler
- Hydraulic two-way self-leveling

HYDRAULICS
- High-flow auxiliary hydraulics
- 3000 psi (207 bar)
- 31.9 gpm (121 L/min)

ENGINE
- Coolant block heater
- Thermostat

OTHER
- Backup alarm
- Rotating beacon
- Lift hooks
- Horn
- Special paint
- Language decals
- Factory-installed tires – see page 2
- Buckets – see page 3
- Bolt-on bucket cutting edges
- 42” (1.07 m) and 48” (1.22 m) pallet forks
- Model D125 backhoe

FIELD-INSTALLED OPTIONS
- Floor heater
- Auto-engine shutdown

HYDRAULICS
- Auxiliary front electric
- Ride control
- Remote jump start
- Battery disconnect switch
- Automatic engine shutdown system
- Steel tracks

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

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