**ENGINE**

Model: Case 4-390 diesel
Type: 4-stroke, naturally aspirated
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: 2150±50
- Rated – full load: 2000
- Low idle: 950

Horsepower per SAE J1349
- Gross: 60 (44.7 kW) @ 2000 rpm
- Net: 56 (42 kW) @ 2000 rpm

Peak torque
- @ 1200 rpm: 177 lb·ft (240 N·m)

**ENGINE COOLING**

Radiator
- Core type: Square wave serpentine
- Core size area: 165.9 in² (1.07 m²)
- Rows of tubes: 3
- Cap pressure: 14.9 psi (103 kPa)

Fan
- Diameter: 17.7” (450 mm)
- Ratio: 1:1:1

Water pump
- Style: Integral
- Flow: 41 gpm (153 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: 24.3 gpm (92 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: 24 in³ (393 cc)
- Speed @ rated engine rpm: 234 rpm
- Torque @ max displacement and relief pressure: 1,370 lb·ft (1,863 N·m)
- Travel speed: 0 - 6.8 mph (11.0 km/h)
- Final drive: Single-reduction chain drive

**HYDRAULIC SYSTEM**

Standard equipment
- Pump: Gear pump
- Displacement: 2.32 in³/rev (38 cc)
- Pump flow @ rated engine rpm: Total: 19.1 gpm (72.2 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: Two 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

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

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, hands-only control levers
Hand throttle
Loader control lockout system
Front and rear halogen floodlights
Floor cleanout access

CYLINDERS
Lift cylinder
Bore diameter ...... 2.25” (57.2 mm)
Rod diameter .... 1.50” (38.1 mm)
Stroke ............. 35.16” (893.1 mm)
Closed length ... 46.18” (1173.0 mm)
Bucket cylinder
Bore diameter ...... 2.50” (63.5 mm)
Rod diameter ..... 1.375” (34.9 mm)
Stroke ............... 14.5” (369 mm)
Closed length ...... 26.9” (683 mm)

OPERATING WEIGHTS
Unit equipped with 10.00 x 16.5
Solideal Hauler SKS tires,
60” (1.5 m) short lip bucket, mechanical attachment coupler,
full fuel and 165 lb (75 kg)
operator ............... 5,716 lb (2593 kg)
Shipping weight ...... 5,148 lb (1891 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 Depth</th>
<th>Tire Width</th>
<th>Max Weight*</th>
<th>Max Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solideal Hauler SKS</td>
<td>10.00 x 16.5</td>
<td>8....... 0.75” ...... 11.2” ........ 59”........ 63 lb ...... 6.8 mph (19 mm) (284 mm) (1.50 m) (28.6 kg) (11.0 km/h)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Galaxy Beefy Baby II</td>
<td>10.00 x 16.5</td>
<td>8....... 0.75”...... 10.2” ........ 59”........ 59 lb ....... 6.8 mph (19 mm) (259 mm) (1.81 m) (26.8 kg) (11.0 km/h)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Galaxy Hippo</td>
<td>13.00 x 16.5</td>
<td>10...... 1.38” .... 12.8” ........ 64”........ 77 lb ....... 6.8 mph (35 mm) (325 mm) (1.63 m) (34.9 kg) (11.0 km/h)</td>
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<td></td>
</tr>
<tr>
<td>Galaxy King Kong</td>
<td>10.00 x 16.5</td>
<td>10...... 1.25” .... 10.2” ........ 59”........ 91 lb ....... 6.8 mph (32 mm) (259 mm) (1.50 m) (41.3 kg) (11.0 km/h)</td>
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</tbody>
</table>
**PERFORMANCE SPECS**

Operating load ........ 1,500 lb (681 kg)
Tipping load.......... 3,000 lb (1361 kg)
Breakout force
Lift cylinder............ 3,788 lbf (16 850 N)
Bucket cylinder.......... 3,974 lbf (17 677 N)
Dig depth
w/bucket flat ....... 0” (0 mm)
Cycle time
Raise ..................... 3.6 seconds
Lower ..................... 2.1 seconds
Dump ..................... 1.9 seconds
Rollback ................. 1.8 seconds

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

**OPTIONAL BUCKETS**

<table>
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<tr>
<th>Type</th>
<th>Width</th>
<th>Weight</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundry/Excavating</td>
<td>60</td>
<td>270</td>
<td>11.5</td>
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<tr>
<td></td>
<td>66</td>
<td>370</td>
<td>15.2</td>
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<td></td>
<td>72</td>
<td>390</td>
<td>16.7</td>
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<tr>
<td>Low Profile</td>
<td>60</td>
<td>330</td>
<td>11.5</td>
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<tr>
<td></td>
<td>66</td>
<td>400</td>
<td>13.2</td>
</tr>
<tr>
<td></td>
<td>72</td>
<td>425</td>
<td>14.5</td>
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<tr>
<td>Low Profile Extended</td>
<td>60</td>
<td>360</td>
<td>14.3</td>
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<tr>
<td></td>
<td>66</td>
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<td>15.5</td>
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<tr>
<td></td>
<td>72</td>
<td>497</td>
<td>17.9</td>
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<tr>
<td>Utility/Light Material</td>
<td>60</td>
<td>350</td>
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<td></td>
<td>84</td>
<td>497</td>
<td>27.9</td>
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<tr>
<td>Manure/Slurry</td>
<td>60</td>
<td>340</td>
<td>16.7</td>
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<tr>
<td></td>
<td>72</td>
<td>465</td>
<td>19.1</td>
</tr>
<tr>
<td></td>
<td>72</td>
<td>465</td>
<td>19.1</td>
</tr>
</tbody>
</table>

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

**DIMENSIONS**

A. Overall operating height
   - w/foundry/excavating bucket – short lip ................. 145.3” (3.69 m)
   - w/low profile bucket – standard lip ..................... 150.9” (3.83 m)
   - w/low profile extended bucket – long lip ............... 155.9” (3.96 m)

B. Bucket hinge pin ............................................ 114.6” (2.91 m)
C. Top of rollover protective structure ................... 75.5” (1.92 m)
D. Bottom of level bucket, loader arm fully raised .... 107.3” (2.73 m)

Overall length
E. w/o attachment w/coupler .................................. 100” (2.54 m)
F. w/foundry/excavating bucket on ground ................ 123.2” (3.13 m)
F. w/low profile bucket on ground ......................... 129” (3.28 m)
F. w/low profile extended bucket on ground .............. 133.9” (3.40 m)

G. Dump angle at maximum height .......................... 40°
H. Dump height – loader arm fully raised
   - w/foundry/excavating bucket .................. 89.4” (2.27 m)
   - w/low profile bucket .................. 85.9” (2.18 m)
   - w/low profile extended bucket ........ 82.7” (2.10 m)

J. Reach – loader arm fully raised
   - w/foundry/excavating bucket ........ 23.6” (0.60 m)
   - w/low profile bucket ........ 28.1” (0.71 m)
   - w/low profile extended bucket ........ 31.9” (0.81 m)

K. Maximum attachment rollback
   - Bucket on ground .................................. 32°

L. Bucket at full height ................................ 80°
M. Wheelbase ........................................ 41.2” (1.05 m)

P. Ground clearance ......................................... 8” (203 mm)
Q. Angle of departure .................................. 27°
R. Clearance circle front .................................. 48.1” (1.22 m)
S. w/60” (1.52 m) foundry/excavating bucket on ground 73.2” (1.86 m)
S. w/60” (1.52 m) low profile bucket on ground .......... 78.4” (1.99 m)
S. w/60” (1.52 m) low profile extended bucket on ground 83.1” (2.11 m)
T. Clearance circle rear .................................. 57.6” (1.46 m)
U. Rear axle to bumper .................................. 35.4” (0.90 m)
V. Tread width, centerline to centerline ................. 49” (1.25 m)

NOTE: *Equipped with 10.00 x 16.5 Solideal Hauler SKS tires.

40XT Page 3 of 4
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 4-390 diesel
- 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 #80HS drive chain
- Parking brakes

HYDRAULICS
- Auxiliary hydraulics 3000 psi (207 bar) – 19.1 gpm (72.2 L/min)
- Hydraulic circuit pedal lock

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)
  31.4 gpm (119 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
- Auxiliary front electric
- Remote jump start
- Battery disconnect switch
- Automatic engine shutdown system
- Steel tracks

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

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

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Printed in U.S.A.

Contact Information

North America/Mexico
700 State Street
Racine, WI 53404
U.S.A.

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