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
Fuel filter .............. In-line strainer
Air intake .................. Cross-flow
Cooling ..................... Liquid
Engine speeds (rpm)
  High idle - no load ... 2450±50
  Rated - full load .......... 2200
  Low idle ................... 950±100
Horsepower per SAE J1349
  Gross...... 75 (55.9 kW) @ 2200 rpm
  Net .......... 69 (51.5 kW) @ 2200 rpm
Peak torque
  @ 1200 rpm .... 193 lb·ft (262 N·m)

ENGINE COOLING
Radiator
  Core type ........ Square wave serpentine
  Core size area .... 165.9 in² (1.07 m²)
  Rows of tubes ............. 4
  Cap pressure ..... 14.9 psi (103 kPa)
Fan
  Diameter .............. 20" (508 mm)
  Ratio ..................... 1:1:1
Water pump
  Style.................. Integral
  Flow .................. 41 gpm (155 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 (28 bar)
  System relief .......... 5004 psi (345 bar)
  Drive motors .... Fixed displacement high torque, low-speed gerotor motor with shuttle valve
  Maximum displacement .... 30 in³ (492 cc)
  Speed @ rated engine rpm @ max displacement....... 187 rpm
  Torque @ max displacement and relief pressure....... 1,710 lb·ft (2318 N·m)
  Travel speed.............. 0 - 7.2 mph (11.6 km/h)
  Final drive.......... Single-reduction chain drive
Drive chain
  Size.................... ASA #100HS
  Tensile strength ........ 30,000 lb (133 452 N)
  Axles.................. One-piece, forged induction-hardened high carbon steel
  Torque @ rated rpm ...... 4,355 lb·ft (5904 N·m)
  Diameter ................ 2.0" (51 mm)
  Length .................. 14.61" (371 mm)
Parking brakes .... Spring-applied, hydraulic release disc
  Engagement ........ Depress on/off brake button at left-hand control lever, raise seat bar, get off seat, stop engine

HYDRAULIC SYSTEM
Standard equipment
  Pump ................. Gear pump
  Displacement ... 2.32 in³/rev (38 cc)
  Pump flow @ rated engine rpm
  Total ........... 21 gpm (79.5 L/min)
  Loader control valve 3-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 ...... 3800 psi (262 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 .... 11.6 oz (0.3 L)
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
Parking brake
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
No-tool tilt ROPS/FOPS canopy
w/side screens
Water-shedding vinyl seat
Seat presence switch
2” (51 mm) retractable seat belt
RestRAINT bar w/integral armrests
Two servo-assist, adjustable, hands-only control levers
Hand and foot throttles
Loader control lockout system
In-cab loader arm lock
Rear window w/emergency escape feature
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.................. 41.3” (1.05 m)
Closed length....... 53.5” (1.36 m)
Bucket cylinder
Bore diameter...... 2.50” (63.5 mm)
Rod diameter ...... 1.25” (31.8 mm)
Stroke ................ 20.6” (525 mm)
Closed length ...... 32.4” (823 mm)

OPERATING WEIGHTS
Unit equipped with 12.00 x 16.5
Galaxy Beefy Baby tires, 73”
(1.85 m) short lip bucket,
mechanical attachment coupler,
full fuel ................. 6,700 lb (3039 kg)
Add-on weights
Side cab glass .......... +70 lb (32 kg)
Lexan® door ....... +70 lb (32 kg)
Glass door w/wiper.... +77 lb (35 kg)
Basic heater........... +60 lb (27 kg)
Suspension seat........ +10 lb (4.5 kg)
Counterweight bumper ILO
std. bumper............. +110 lb (50 kg)

SERVICE CAPACITIES
Fuel tank................... 17.3 gal (65.5 L)
Engine oil w/ filter ...... 11 qt (10.4 L)
Engine oil w/o filter..... 10 qt (9.5 L)
Engine cooling system... 17 qt (16.1 L)
Hydraulic system
Reservoir................. 5.7 gal (21.7 L)
Total....................... 16.5 gal (62.5 L)
Chain tanks (per side).... 5 qt (4.7 L)

TIRE SELECTION

<table>
<thead>
<tr>
<th>Size</th>
<th>Rating</th>
<th>Depth</th>
<th>Tire Width</th>
<th>Tire Weight</th>
<th>Max. Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>Ply</td>
<td>Tread</td>
<td>Over Tire</td>
<td>Tires</td>
<td></td>
</tr>
<tr>
<td>Max. Travel</td>
<td></td>
<td></td>
<td></td>
<td>Weight*</td>
<td></td>
</tr>
</tbody>
</table>

Solideal Hauler SKS................................. 10.00 x 16.5..... 8...... 0.75" ....... 11.2" ........ 71.1" .......... 63 lb ......... 6.7 mph
(19 mm) (284 mm) (1.81 m) (28.6 kg) (10.8 km/h)

Solideal Hauler SKS................................. 12.00 x 16.5....... 10...... 0.75" ....... 13.1" .......... 72" ........... 51 lb ......... 7.2 mph
(19 mm) (333 mm) (1.83 m) (23.1 kg) (11.6 km/h)

Galaxy Beefy Baby II............................... 10.00 x 16.5...... 8...... 0.75" ....... 10.2" .......... 71.1" .......... 62 lb ......... 6.7 mph
(19 mm) (259 mm) (1.81 m) (28.1 kg) (10.8 km/h)

Galaxy Beefy Baby II............................... 12.00 x 16.5...... 10...... 0.75" ....... 12.3" .......... 72" ......... ... 85 lb ......... 7.2 mph
(19 mm) (312 mm) (1.83 m) (38.6 kg) (11.6 km/h)

Galaxy Hippo ....................................... 13.00 x 16.5..... 10...... 0.75" ....... 12.8" .......... 72.5" ...... ... 71 lb ......... 6.7 mph
(19 mm) (325 mm) (1.84 m) (32.2 kg) (10.8 km/h)

Galaxy King Kong .................................. 10.00 x 16.5 .... 8...... 1.25" ....... 10.2" .......... 71.1" .......... 91 lb ...... ... 6.7 mph
(32 mm) (259 mm) (1.81 m) (41.3 kg) (10.8 km/h)

Galaxy Hulk....................................... 12.00 x 16.5..... 12...... 0.81" ....... 12.3" .......... 72" ......... ... 85 lb ......... 7.2 mph
(21 mm) (312 mm) (1.83 m) (38.6 kg) (11.6 km/h)

Galaxy Bulky Hulk ................................. 15.50 x 16.5..... 14...... 0.81" ....... 16.7" ......... 80" ........ 119 lb ......... 7.2 mph
(21 mm) (424 mm) (2.03 m) (54.0 kg) (11.6 km/h)

Case Steel Tracks...................................... 10.00 x 16.5 .... NA ....... 1.4" ....... 13.25" ...... 78" ........ 792 lb ........ 7.1 mph
(36 mm) (337 mm) (1.98 m) (359.2 kg) (11.4 km/h)

Case Steel Tracks...................................... 12.00 x 16.5 .... NA ....... 1.4" ....... 14.7" ...... 81.5" ........ 959 lb ......... 7.1 mph
(36 mm) (373 mm) (2.07 m) (435.0 kg) (11.4 km/h)

NOTE: *Tire weight does not include wheel weight. °Equals grouser depth. †Equals track width.
**PERFORMANCE SPECS**

<table>
<thead>
<tr>
<th>Operating load</th>
<th>2,200 lb (998 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>w/optional ctwt. (bumper)</td>
<td>2,300 lb (1043 kg)</td>
</tr>
<tr>
<td>Tipping load</td>
<td>4,400 lb (1996 kg)</td>
</tr>
<tr>
<td>w/optional ctwt. (bumper)</td>
<td>4,600 lb (2086 kg)</td>
</tr>
<tr>
<td>Breakout force</td>
<td>5,173 lbf (23 011 N)</td>
</tr>
<tr>
<td>Lift cylinder</td>
<td>5,371 lbf (23 892 N)</td>
</tr>
<tr>
<td>Bucket cylinder</td>
<td>5,371 lbf (23 892 N)</td>
</tr>
<tr>
<td>Dig depth</td>
<td>0.24&quot; (6 mm)</td>
</tr>
<tr>
<td>Cycle time</td>
<td>4.4 seconds</td>
</tr>
<tr>
<td>Raise</td>
<td>4.4 seconds</td>
</tr>
<tr>
<td>Lower</td>
<td>2.8 seconds</td>
</tr>
<tr>
<td>Dump</td>
<td>2.8 seconds</td>
</tr>
<tr>
<td>Rollback</td>
<td>2.2 seconds</td>
</tr>
</tbody>
</table>

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

**OPTIONAL BUCKETS**

<table>
<thead>
<tr>
<th>Type</th>
<th>Width (in)</th>
<th>Weight (lb)</th>
<th>Capacity (ft³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dirt</td>
<td>73</td>
<td>553</td>
<td>16.8</td>
</tr>
<tr>
<td></td>
<td>(1.85)</td>
<td>(251)</td>
<td>(.48)</td>
</tr>
<tr>
<td></td>
<td>73</td>
<td>593</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>(2.08)</td>
<td>(269)</td>
<td>(.54)</td>
</tr>
<tr>
<td>Short Lip</td>
<td>73</td>
<td>409</td>
<td>13.9</td>
</tr>
<tr>
<td></td>
<td>(1.85)</td>
<td>(186)</td>
<td>(.39)</td>
</tr>
<tr>
<td></td>
<td>82</td>
<td>583</td>
<td>32.5</td>
</tr>
<tr>
<td></td>
<td>(2.08)</td>
<td>(264)</td>
<td>(.92)</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

**A. Overall operating height**
- Short lip dirt bucket: 152.8" (3.88 m)
- Dirt bucket: 156.8" (3.98 m)

**B. Height to**
- Bucket hinge pin: 119.7" (3.04 m)
- Top of rollover protective structure: 79.9" (2.03 m)
- Bottom of level bucket, loader arm fully raised: 111.5" (2.83 m)

**E. Overall length**
- w/o attachment w/coupler: 103.1" (2.62 m)
- w/short lip dirt bucket on ground: 131.5" (3.34 m)
- w/dirt bucket on ground: 135.5" (3.44 m)

**G. Dump angle at maximum height**
- 45°

**H. Dump height – loader arm fully raised**
- Short lip dirt bucket: 90.6" (2.30 m)
- Dirt bucket: 87.8" (2.23 m)

**J. Reach – loader arm fully raised**
- Short lip dirt bucket: 29.9" (0.76 m)
- Dirt bucket: 32.7" (0.83 m)

**M. Wheelbase**
- 44.9" (1.14 m)

**O. Bottom of chain case**
- 8.9" (226 mm)

**P. Bottom of belly pan**
- 10.8" (274 mm)

**Q. Angle of departure**
- 25°

**R. Clearance circle front**
- 53.9" (1.37 m)

**S. w/73” (1.85 m) short lip dirt bucket on ground**
- 80.2" (2.00 m)

**T. Clearance circle rear**
- 61.1" (1.55 m)

**U. Rear axle to bumper**
- 38.3" (0.97 m)

**V. Tread width, centerline to centerline**
- 60.9" (1.55 m)

**NOTE:** *Equipped with 12.00 x 16.5 Galaxy Beefy Baby tires.*
## STANDARD EQUIPMENT

### OPERATOR’S COMPARTMENT
- ROPS/FOPS canopy w/ side screens
- No-tools tilt ROPS/FOPS
- Instrument panels
- Water-shedding vinyl seat
- 2” (51 mm) retractable seat belt
- Hand & foot throttles
- Ergonomic hand controls
- Restraint bar w/ integral armrests
- Loader control lockout system
- Fingertip brake control
- Rear window w/ emergency escape feature
- Floor cleanout panel

### 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
- Hydraulic four wheel drive
- Servo controls
- ASA #100HS drive chain
- SAHR disc parking brakes

### HYDRAULICS
- Auxiliary hydraulics 3000 psi (207 bar) - 21 gpm (79.5 L/min)
- Hydraulic circuit pedal lock
- Loader arm mounted ISO flat face hydraulic quick 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
- Heavy-duty louvered rear grille
- 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 (floor)
- Heater (deluxe)
- Accessory power outlet

### LOADER
- Heavy lift-and-reach linkage
- Mechanical attachment coupler

### OTHER
- Backup alarm
- Rotating beacon
- Lift hooks
- Drawbar
- Integral bumper counterweight (260 lb [118 kg])
- Horn
- Special paint
- Language decals
- Manual brake release
- Factory-installed tires - see page 2
- Buckets - see page 3
- Bolt-on spill guards
- Bolt-on cutting edges
- 42” (1.07 m) & 48” (1.22 m) pallet forks
- Model D125 backhoe
- Remote jumpstart terminals
- Battery disconnect switch
- Automatic engine shutdown system
- Steel tracks

### FIELD-INSTALLED OPTIONS
- Foot-operated loader controls
- Lift cylinder plumbing covers

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

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CASE CONSTRUCTION EQUIPMENT

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