



## ENGINE

Model ..... Case Family III 334T/M2  
diesel, Tier II certified  
Type..... 4-stroke, turbocharged  
Cylinders ..... 3  
Bore/Stroke..... 4.1" x 5.2"  
(104 x 132 mm)  
Displacement ..... 205 in<sup>3</sup> (3.4 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..... 2500 ±50  
Rated - full load ..... 2300  
Low idle..... 1050 ±50  
Horsepower per SAE J1349  
Gross ..... 78 (58 kW) @ 2300 rpm  
Net ..... 72 (54 kW) @ 2300 rpm  
Maximum torque @ 1400 rpm  
Gross ..... 221 lb·ft (300 N·m)

## ENGINE COOLING

Radiator  
Core type ..... Serpentine  
Core size area..... 449 in<sup>2</sup> (.29 m<sup>2</sup>)  
Rows of tubes ..... 3  
Cap pressure ..... 13 psi (89.6 kPa)  
Fan  
Diameter ..... 18.9" (480 mm)  
Ratio ..... 1.1:1  
Water pump  
Style ..... Integral  
Flow ..... 48 gpm (182 L/min)  
Engine lubrication  
Pump ..... Deep sump with plate  
cooler and pressurized  
under-piston nozzles  
Pump operating angle ratings  
Side-to-side ..... Rated 35°  
Fore and aft..... Rated 35°  
Oil filtration..... Replaceable,  
full-flow cartridge

## POWERTRAIN

Drive pump .... Tandem, axial piston  
hydrostatic transmission  
w/integral charge pump driven  
directly off engine fly wheel  
Pump to engine ratio ..... 1:1  
Displacement... 0 to 2.81 in<sup>3</sup> (46 cc)  
Pump flow @ high idle rpm .....  
29.8 gpm (112.8 L/min)  
Flow ..... Bidirectional  
Charge pressure.... 360 psi (24 bar)  
System relief.....4,350 psi (300 bar)  
Controls ..... Servo  
Drive motors .... Fixed displacement  
radial piston  
Maximum displacement.... 28.7 in<sup>3</sup>  
(470 cc)  
Speed @ high idle rpm &  
max. displacement ..... 240 rpm  
Torque @ max. displacement.....  
& relief pressure..... 5,148 lb·ft  
(6,980 N·m)  
Travel speed – mph (km/h)  
Low range..... 7.0 (11.3)  
High range (optional) ....11.7 (18.8)  
Final drive..... Single-reduction  
chain drive  
Drive chain  
Size ..... ASA #100HV  
Tensile strength ..... 30,000 lb  
(133 452 N)  
Axles..... One-piece, forged  
induction-hardened  
high carbon steel  
Torque @ rated rpm ..... 5,148 lb·ft  
(6980 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, raise seat bar,  
get off seat, or stop engine

## HYDRAULIC SYSTEM

Standard equipment  
pump.....Gear pump  
Displacement ... 2.2 in<sup>3</sup>/rev (36 cc)  
Pump flow @ rated engine rpm  
Total..... 21 gpm (79.5 L/min)  
Optional combined high flow @  
rated engine rpm ..... 32.1 gpm  
(121.1 L/min)  
Loader control valve ..... 3-spool  
open center series with  
power beyond port  
Relief pressure ..... 3,050 psi  
(210 bar)  
Port relief pressures  
#1B Raise.....3,350 psi (230 bar)  
Hydraulic lines  
Tubing ..... 37° JIC flare  
Loop hoses ..... SAE 100 R12  
Hydraulic oil cooler  
Core type..... Two row in-line  
Hydraulic filter ..... 6 micron Spin-on  
replaceable element on the  
return line w/warning indicator

## **INSTRUMENTATION**

Battery Voltage  
 LCD hourmeter  
 Fuel level LCD bar graph  
 Warning lights  
 Fuel level  
 Engine preheat  
 Engine coolant temperature  
 Engine oil pressure  
 Air cleaner restriction  
 Hydraulic charge pressure  
 Hydraulic filter restriction  
 Hydraulic oil temperature  
 Parking brake  
 Seat belt reminder  
 Warning alarms  
 Engine coolant temperature  
 Engine oil pressure  
 Hydraulic oil temperature  
 Hydraulic charge pressure  
 Seat belt reminder

## **ELECTRICAL SYSTEM**

Alternator ..... 95 amp  
 Starter ..... 2.7 kW  
 Battery ..... 12-volt low-maintenance  
 850 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 adjustable, hands-only  
 control levers  
 Hand and foot throttles  
 Loader control lockout system  
 In-cab loader lock  
 Rear window w/escape provision  
 Front and rear halogen floodlights  
 Floor cleanout panel

## **CYLINDERS**

Lift cylinder  
 Bore diameter ..... 2.5" (64 mm)  
 Rod diameter ..... 1.75" (44 mm)  
 Stroke ..... 41.3" (1.05 m)  
 Closed length ..... 53.5" (1.36 m)  
 Bucket cylinder  
 Bore diameter ..... 2.5" (63.5 mm)  
 Rod diameter ..... 1.25" (32 mm)  
 Stroke ..... 20.67" (525 mm)  
 Closed length ..... 32.4" (823 mm)

## **OPERATING WEIGHTS**

Unit equipped with 12.00 x 16.5  
 Solideal Hauler SKS tires,  
 73" short lip bucket, mechanical  
 attachment coupler,  
 165 lb (75 kg) operator,  
 full fuel tank ..... 6,830 lb (3098 kg)

### **Add-on weights**

Side cab glass ..... +70 lb (32 kg)  
 Glass door w/wiper .... +77 lb (35 kg)  
 Suspension seat ..... +10 lb (4.5 kg)  
 Hydraulic attachment  
 coupler ..... +38 lb (17 kg)  
 Counterweight bumper ILO  
 Std bumper ..... +110 lb (50 kg)

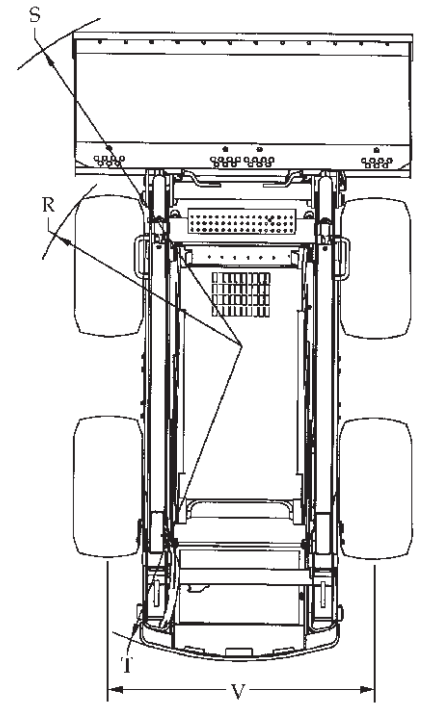
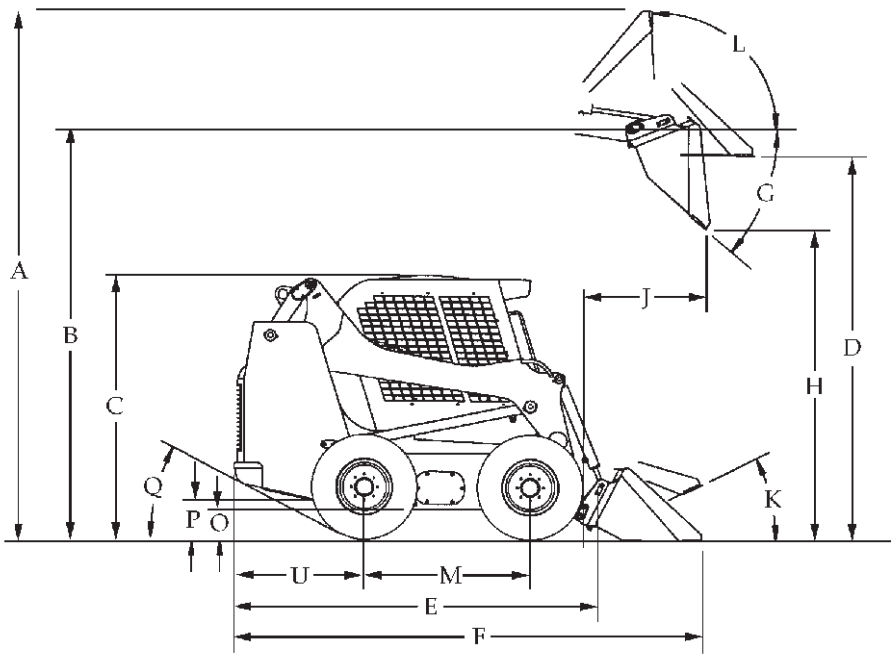
## **SERVICE CAPACITIES**

Fuel tank ..... 17.3 gal (65.5 L)  
 Engine oil w/filter ..... 2.1 gal (8 L)  
 Engine cooling system ... 18 qt (17 L)  
 Hydraulic system  
 Reservoir ..... 5.7 gal (21.7 L)  
 Total ..... 10.9 gal (41.3 L)  
 Chain tanks (per side) ... 2 gal (7.6 L)

## **TIRE SELECTION**

|                         | Size         | Ply Rating | Tread Depth                  | Tire Width                      | Width Over Tires  | Tire Weight*         | Max. Travel Speeds<br>Single/Two speed |
|-------------------------|--------------|------------|------------------------------|---------------------------------|-------------------|----------------------|--|
| Solideal Hauler SKS ... | 12.00 x 16.5 | 10         | 0.75"<br>(19 mm)             | 13.1"<br>(333 mm)               | 72"<br>(1.83 m)   | 51 lb<br>(23.1 kg)   | 7.1/11.6 mph<br>(11.4/18.8 km/h)       |
| Galaxy Beefy Baby II..  | 12.00 x 16.5 | 10         | 0.75"<br>(19 mm)             | 12.3"<br>(312 mm)               | 72"<br>(1.83 m)   | 85 lb<br>(38.6 kg)   | 7.1/11.6 mph<br>(11.4/18.8 km/h)       |
| Galaxy Hulk .....       | 12.00 x 16.5 | 12         | 0.81"<br>(21 mm)             | 12.3"<br>(312 mm)               | 72"<br>(1.83 m)   | 85 lb<br>(38.6 kg)   | 7.6/12.4 mph<br>(11.4/18.8 km/h)       |
| Galaxy Bulky Hulk ..... | 15.50 x 16.5 | 14         | 0.81"<br>(21 mm)             | 16.7"<br>(424 mm)               | 80"<br>(2.03 m)   | 119 lb<br>(54.0 kg)  | 7.6/12.4 mph<br>(11.4/18.8 km/h)       |
| Case Steel Tracks ..... | 12.00 x 16.5 | NA         | 1.4" <sup>†</sup><br>(36 mm) | 14.7" <sup>††</sup><br>(373 mm) | 81.5"<br>(2.07 m) | 959 lb<br>(435.0 kg) | 7.2/11.7 mph<br>(11.6/18.9 km/h)       |

NOTE: \*Tire weight does not equal wheel weight †Equals grouser depth. ††Equals track width.



## DIMENSIONS

|           |   |                 |
|-----------|---|-----------------|
| <b>A.</b> | Overall operating height                                    |                 |
|           | Dirt bucket.....  | 158" (4.01 m)   |
|           | Light material bucket .....                                 | 165.5" (4.20m)  |
|           | Height to* —  |                 |
| <b>B.</b> | Bucket hinge pin .....                                      | 120.5" (3.06 m) |
| <b>C.</b> | Top of rollover protection structure .....                  | 80.0" (2.03 m)  |
| <b>D.</b> | Bottom of level bucket, loader arm fully raised .....       | 111.5" (2.83 m) |
|           | Overall length  |                 |
| <b>E.</b> | w/o attachment w/coupler .....                              | 103.1" (2.62 m) |
| <b>F.</b> | w/short lip dirt bucket on ground.....                      | 131.5" (3.34 m) |
| <b>F.</b> | w/dirt bucket on ground.....                                | 135.5" (3.44 m) |
| <b>G.</b> | Dump angle at maximum height.....                           | 40°             |
| <b>H.</b> | Dump height – loader arm fully raised                       |                 |
|           | Short lip dirt bucket.....                                  | 90.6" (2.30 m)  |
|           | Dirt bucket.....  | 87.8" (2.23 m)  |
| <b>J.</b> | Reach – loader arm fully raised                             |                 |
|           | Short lip dirt bucket.....                                  | 29.9" (0.76 m)  |
|           | Dirt bucket.....  | 32.7" (0.83 m)  |
|           | Maximum attachment rollback                                 |                 |
| <b>K.</b> | Bucket on ground.....                                       | 27°             |
| <b>L.</b> | Bucket at full height .....                                 | 89°             |
| <b>M.</b> | Wheel base.....   | 44.9" (1.14 m)  |
|           | Ground clearance  |                 |
| <b>O.</b> | Bottom of chain case .....                                  | 9.0" (228 mm)   |
| <b>P.</b> | Bottom of belly pan .....                                   | 11.0" (279 mm)  |
| <b>Q.</b> | Angle of departure.....                                     | 31°             |
|           | Clearance circle front                                      |                 |
| <b>R.</b> | less bucket .....   | 53.9" (1.37 m)  |
| <b>S.</b> | w/73" (1.85 m) short lip dirt bucket in carry position..... | 80.2" (2.00 m)  |
| <b>S.</b> | w/73" (1.85 m) dirt bucket in carry position.....           | 83.8" (2.13 m)  |
| <b>T.</b> | Clearance circle rear .....                                 | 61.1" (1.55 m)  |
| <b>U.</b> | Rear axle to bumper .....                                   | 38.3" (0.97 m)  |
| <b>V.</b> | Tread width, centerline to centerline .....                 | 60.9" (1.55 m)  |

## PERFORMANCE SPECS

|                               |                      |
|-------------------------------|----------------------|
| Operating load**....          | 2,300 lb (1043 kg)   |
| Tipping load.....             | 4,600 lb (2086 kg)   |
| Breakout force                |                      |
| Lift.....                     | 4,748 lbf (21 119 N) |
| Bucket .....                  | 6,000 lbf (26 668 N) |
| Dig depth w/bucket flat ..... | 0.24"                |
|                               | (6 mm)               |
| Cycle time                    |                      |
| Raise .....                   | 4.9 sec.             |
| Lower.....                    | 3.8 sec.             |
| Dump.....                     | 2.3 sec.             |
| Rollback.....                 | 1.7 sec.             |

NOTE: SAE rated lift capacities.

## OPTIONAL BUCKETS

| Type                    | Width<br>in (m) | Weight<br>lb (kg) | Heaped<br>Capacity<br>ft <sup>3</sup> (m <sup>3</sup> ) |
|-------------------------|-----------------|-------------------|---|
| Dirt.....               | 73.....         | 553.....          | 16.8  |
|                         | (1.9) (251)     |                   | (.48)   |
| HD Dirt .....           | 84.....         | 593.....          | 19  |
|                         | (2.1) (269)     |                   | (.54)   |
| HD Utility .....        | 73.....         | 621.....          | 16.8  |
|                         | (1.9) (282)     |                   | (.48)   |
| Utility .....           | 84.....         | 676.....          | 19  |
|                         | (2.1) (307)     |                   | (.54)   |
| Light<br>Material ..... | 73.....         | 696.....          | 22.4  |
|                         | (1.9) (285)     |                   | (.63)   |
| HD Utility .....        | 84.....         | 674.....          | 25.3  |
|                         | (2.1) (306)     |                   | (.72)   |
| Light<br>Material ..... | 73.....         | 696.....          | 22.4  |
|                         | (1.9) (316)     |                   | (.63)   |
| HD Utility .....        | 84.....         | 758.....          | 25.3  |
|                         | (2.1) (344)     |                   | (.72)   |
| Light<br>Material ..... | 82.....         | 584.....          | 32.5  |
|                         | (2.1) (265)     |                   | (.92)   |

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

\*\*Operating load with optional counter weight = 2400 lb (1091 kg).

## 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
- Seat bar w/integral arm rests
- Loader control lockout system
- Electric brake control
- Rear window w/emergency escape feature
- Floor cleanout panel

### LOADER

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

### ENGINE

- Case Family III 334T/M2 diesel
- Tier II Certified
- Integral engine oil cooling
- Fuel filter w/water trap
- Dual element air cleaner
- 95 amp alternator
- 850 CCA 12-volt battery
- Heavy-duty radiator

### POWERTRAIN

- Hydrostatic four wheel drive
- Servo controls
- ASA #100HVdrive chain
- SAHR disc parking brakes

### HYDRAULICS

- Auxiliary hydraulics 3,000 psi (207 bar) – 21 gpm (79.6 L/min)
- Auxiliary interlock system
- Loader arm mounted ISO flat face hydraulic quick connectors
- Auxiliary function lockout override
- Loader lift lockout override
- 3-spool loader control valve
- Heavy-duty 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
- Options harness

## 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
- Electric auxiliary hydraulic control
- Glass front door w/wiper & washer
- Sliding side windows
- Air conditioning
- Heater (deluxe)
- Accessory power outlet
- Floor mat w/footrests
- Headliner

### LOADER

- Ride Control
- Hydraulic attachment coupler
- Hydraulic self-leveling
- Auxiliary front electric control

### HYDRAULICS

- Auxiliary high flow 3,000 psi (207 bar) – 32.1 gpm (121.1 L/min)
- Attachment case drain plumbing

### ENGINE

- Coolant block heater
- Grid heater

### OTHER

- 2-speed ground drive
- Backup alarm and horn package
- Rotating beacon
- Lift hooks
- Drawbar
- Heavy-duty rear door
- Special paint
- Language decals
- 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
- Jump start terminals/battery disconnect switch
- Steel tracks
- Rear bumper counterweight

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

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: CNH America LLC reserves the right to change these specifications without notice and without incurring any obligation relating to such change. CNH America LLC does not warrant the safety or reliability of attachments from other manufacturers.

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