

435 SKID STEER TIER II CERTIFIED

ENGINE

Model	Case Family III 334T/M2diesel, Tier II certified
Type	4-stroke, turbocharged
Cylinders	3
Bore/Stroke	4.1 x 5.2 in (104 x 132 mm)
Displacement	205 in ³ (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 ² (.29 m ²)
Rows of tubes	3
Cap pressure	13 psi (89.6 kPa)
Fan	
Diameter	18.9 in (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 ³ (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 ³ (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 in (51 mm)
Length	14.61 in (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 ³ /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 in (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 in (64 mm)
Rod diameter	1.75 in (44 mm)
Stroke	41.3 in (1.05 m)
Closed length	53.5 in (1.36 m)
Bucket cylinder	
Bore diameter	2.5 in (63.5 mm)
Rod diameter	1.25 in (32 mm)
Stroke	20.67 in (525 mm)
Closed length	32.4 in (823 mm)

OPERATING WEIGHTS

Unit equipped with 12.00 x 16.5 Solideal Hauler SKS tires, 73 in 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)

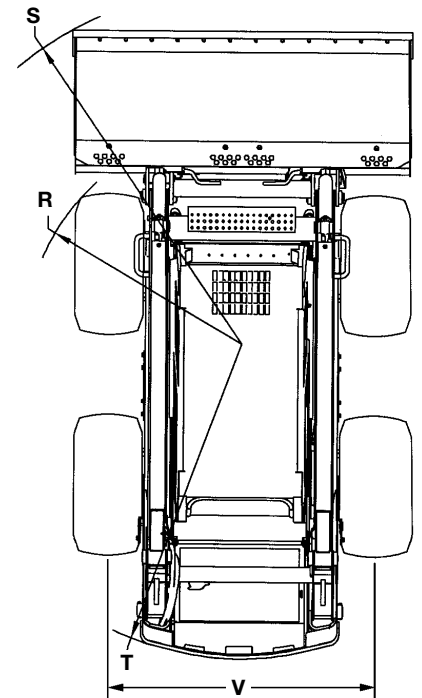
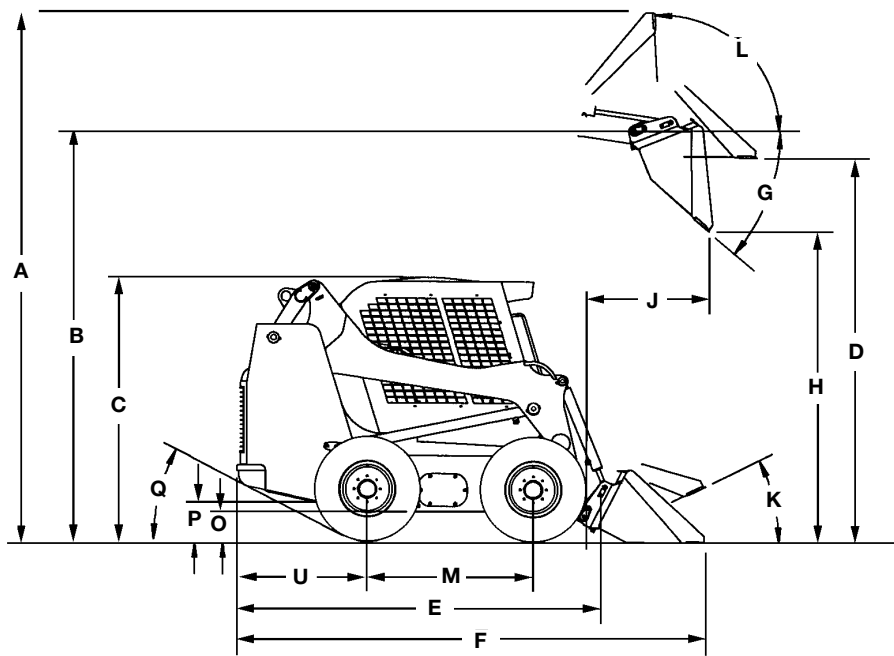
SERVICE CAPACITIES

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*
Solideal Hauler SKS	12.00 x 16.5	10	0.75 in (19 mm)	13.1 in (333 mm)	72 in (1.83 m)	74 lb (33.6 kg)
Galaxy Beefy Baby II	12.00 x 16.5	10	0.75 in (19 mm)	12.3 in (312 mm)	72 in (1.83 m)	85 lb (38.6 kg)
Galaxy Hulk	12.00 x 16.5	12	0.81 in (21 mm)	12.3 in (312 mm)	72 in (1.83 m)	85 lb (38.6 kg)
Galaxy Bulky Hulk	15.50 x 16.5	14	0.81 in (21 mm)	16.7 in (424 mm)	80 in (2.03 m)	119 lb (54.0 kg)
Case Steel Tracks	12.00 x 16.5	NA	1.4 in‡ (36 mm)	14.7 in‡‡ (373 mm)	81.5 in (2.07 m)	959 lb (435.0 kg)

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



DIMENSIONS

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

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

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

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	
Short lip	6,000 lbf (26 668 N)
Long lip	5,100 lbf (22 685 N)
Dig depth w/bucket flat	0.24 in (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 inch (m)	Weight lb (kg)	Heaped Capacity ft ³ (m ³)
Dirt	73 (1.9)	553 (251)	16.8 (.48)
	84 (2.1)	593 (269)	19 (.54)
HD Dirt	73 (1.9)	621 (282)	16.8 (.48)
	84 (2.1)	676 (307)	19 (.54)
Utility	73 (1.9)	696 (285)	22.4 (.63)
	84 (2.1)	674 (306)	25.3 (.72)
HD Utility	73 (1.9)	696 (316)	22.4 (.63)
	84 (2.1)	758 (344)	25.3 (.72)
Light Material	82 (2.1)	584 (265)	32.5 (.92)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS canopy w/side screens
No-tools tilt ROPS/FOPS
Instrument panels
Water-shedding vinyl seat
2 in (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 in (51 mm)
retractable seat belt
Vinyl suspension seat w/3 in (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 in (1.07 m)/48 in (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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