

435

**SERIES 3 SKID STEER
TIER III CERTIFIED**

ENGINE

Model	Case 432T/M3 diesel*, Tier III certified
Type	4-stroke, turbocharged
Cylinders	4
Bore/Stroke	3.9 in x 4.1 in (99 mm x 104 mm)
Displacement	195 in ³ (3.2 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	2675±75
Rated - full load	2500
Low idle	1075 ±75
Horsepower per SAE J1349	
Gross	82 (61 kW) @ 2500 rpm
Net	77 (57 kW) @ 2500 rpm
Maximum torque @ 1400 rpm	
Gross	229 lb-ft (310 N-m)

ENGINE COOLING

Radiator	
Core type	Square weave serpentine
Core size area	377 in ² (.243 m ²)
Rows of tubes	4
Cap pressure	14 psi (97 kPa)
Fan	
Diameter	18.9 in (480 mm)
Ratio	1.1:1
Water pump	
Style	Centrifugal
Flow	29 gpm (110 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 with integral charge pump driven directly off engine fly wheel	
Pump to engine ratio	1:1
Displacement	0 to 2.62 in ³ (43 cc)
Pump flow @ high idle engine rpm	30.3 gpm (115 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	244 rpm
Optional high speed	407 rpm
Torque @ max. displacement & relief pressure	1,655 lb.ft (2245 N-m)
Travel speed – mph (km/h)	
Low range	7.0 (11.2)
High range (optional)	11.4 (18.3)
Final drive	Single-reduction chain drive
Drive chain	
Size	ASA #100HV
Tensile strength	32,180 lb (143 144 N)
Axles	
One-piece, forged induction-hardened high carbon steel	
Torque @ max displacement and relief pressure	4,170 lb.ft (5653 N-m)
Diameter	2.0 in (51 mm)
Length	14.6 in (371 mm)
Parking brakes	Spring-applied, hydraulic release disc
Engagement	Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat, or stop engine

HYDRAULIC SYSTEM

Standard equipment pump	
Type	Gear pump
Displacement	2.2 in ³ /rev (36 cc)
Pump flow @ rated engine rpm	
Total	23.8 gpm (90 L/min)
Optional combined high flow @ rated engine rpm	33.2 gpm (126 L/min)
Loader control valve	
3-spool open center series with power beyond port	
Relief pressure	3,050 psi (210 bar)
Port relief pressures	
Loader Raise	3120 psi (215 bar)
Bucket Dump	3800 psi (260 bar)
Bucket Curl	3350 psi (230 bar)
Hydraulic lines	
Tubing	37° JIC flare
Loop hoses	SAE 100 R12
Hydraulic oil cooler	
Core type	Four row in-line
Hydraulic filter	
6 micron Spin-on replaceable element on the return line w/warning indicator	

*Manufactured for Case by Iveco.

INSTRUMENTATION

Indicators	
Digital Hourmeter	
Fuel level LCD bar graph with alarm	
Warning lights with alarms	
Engine coolant temperature	
Engine oil pressure	
Engine Malfunction	
Hydraulic charge pressure	
Hydraulic filter restriction	
Hydraulic oil temperature	
Warning alarms	
Battery voltage (plus display)	
Indicator light	
Engine preheat	
Parking brake	
Seat bar reminder	

ELECTRICAL SYSTEM

Alternator	95 amp
Starter	2.7 kW
Battery	
12-volt low-maintenance 1125 cold-cranking amps @ 0° F (-18° C)	

OPERATOR ENVIRONMENT

ROPS/FOPS level 1 canopy w/side screens
Tilt ROPS/FOPS
Rear window w/emergency escape feature
Instrument panels
Suspension vinyl seat
2 in (51 mm) retractable seat belt
Hand & foot throttles
Alarm package
Headliner
Top window
Cup holder
Power plug socket
Foot rest
Storage tray
Low effort ergonomic hand controls
Padded seat bar w/integral arm rests
Loader control lockout system
Electric parking brake control
Floor cleanout panel

CYLINDERS

Lift cylinder	
Bore diameter	2.5 in (63.5 mm)
Rod diameter	1.75 in (44.4 mm)
Stroke	41.3 in (1049 mm)
Closed length	53.5 in (1361 mm)
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 Galaxy Beefy Baby II tires, 73 in (1.9 m) short lip bucket, mechanical attachment coupler, full fuel tank, and 165 lb (75 kg) operator	
	6,780 lb (3075 kg)
Shipping weight	6,012 lb (2776 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)

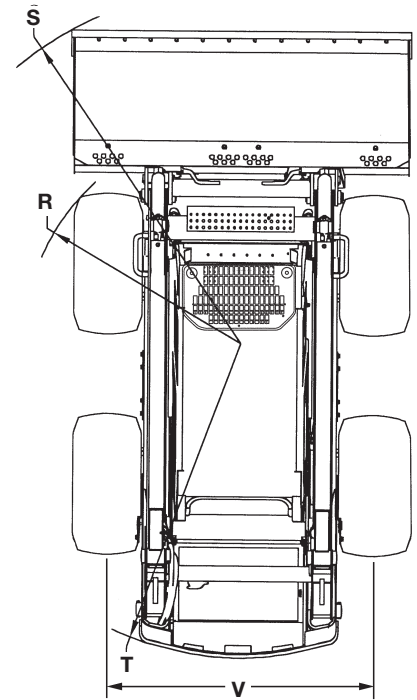
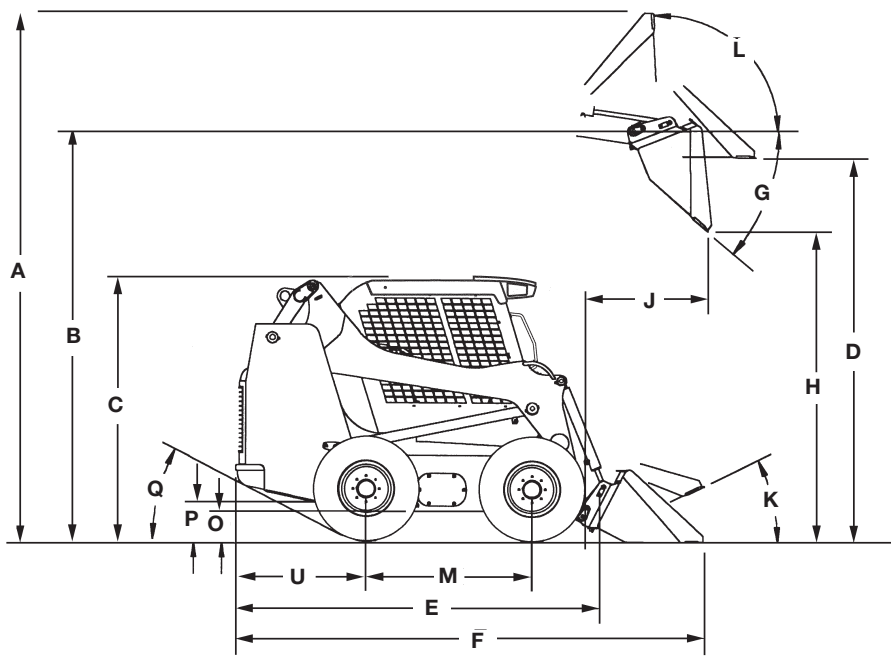
SERVICE CAPACITIES

Fuel tank	17.3 gal (65.5 L)
Engine oil w/filter	9 qt (8.5 L)
Engine cooling system	12 qt (11.4 L)
Hydraulic system	
Reservoir	5.7 gal (21.7 L)
Total	11 gal (41.6 L)
Chain tanks (per side)	8 qt (7.6 L)

TIRE SELECTION

	Size	Ply Rating	Tread Depth	Tire Width	Width Over Tires	Tire Weight*
Galaxy XD2002	12.00 x 16.5	10	0.69 in (17 mm)	12.4 in (315 mm)	72 in (1.83 m)	72 lb (32.7 kg)
Galaxy Beefy Baby II	12.00 x 16.5	10	0.81 in (21 mm)	12.4 in (315 mm)	72 in (1.83 m)	82 lb (37.2 kg)
Galaxy King Kong	12.00 x 16.5	12	1.25 in (32 mm)	11.6 in (295 mm)	72 in (1.83 m)	97 lb (44 kg)
Galaxy Solid Flex	12.00 x 16.5	n/a	.8 in (21 mm)	11 in (279 mm)	71 in (1.80 m)	280 lb (127 kg)
Galaxy Solid Flex (offset wheel)	12.00 x 16.5	n/a	.8 in (21 mm)	11 in (279 mm)	77 in (1.95 m)	280 lb (127 kg)

NOTE: *Tire weight does not equal wheel weight.



DIMENSIONS*

A.	Overall operating height	
	Short lip dirt bucket	153.4 in (3.90 m)
	Dirt bucket	158 in (4.01 m)
	Light material bucket	165.5 in (4.20m)
	Height to —	
B.	Bucket hinge pin	120.0 in (3.05 m)
C.	Top of rollover protection structure	83.2 in (2.11 m)
D.	Bottom of level bucket, loader arm fully raised	112 in (2.84 m)
	Overall length	
E.	w/o attachment w/coupler	104.5 in (2.65 m)
F.	w/short lip bucket on ground	131.3 in (3.34 m)
F.	w/dirt bucket on ground	135.5 in (3.44 m)
F.	w/light material bucket on ground	143.2 in (3.64 m)
G.	Dump angle at maximum height	43°
H.	Dump height – loader arm fully raised	
	Short lip dirt bucket	91.6 in (2.33 m)
	Dirt bucket	89.8 in (2.28 m)
	Light material bucket	87.1 in (2.21 m)
J.	Dump reach – loader arm fully raised	
	Short lip dirt bucket	30.7 in (0.78 m)
	Dirt bucket	32.0 in (0.81 m)
	Light material bucket	40.5 in (1.03 m)
	Maximum attachment rollback	
K.	Bucket on ground	27°
L.	Bucket at full height	92°
M.	Wheel base	44.9 in (1.14 m)
	Ground clearance	
O.	Bottom of chain case	9.3 in (236 mm)
P.	Bottom of belly pan	11.3 in (288 mm)
Q.	Angle of departure	29°
	Clearance circle front	
R.	less bucket	53.1 in (1.35 m)
S.	w/73 in (1.85 m) short lip dirt bucket in carry position	79.5 in (2.02 m)
S.	w/73 in (1.85 m) dirt bucket in carry position	83.7 in (2.13 m)
S.	w/82 in (2.08 m) dirt bucket in carry position	85.8 in (2.18 m)
S.	w/82 in (2.08 m) light material bucket on ground	92.8 in (2.36 m)
T.	Clearance circle rear	60.8 in (1.54 m)
U.	Rear axle to bumper	38.3 in (0.97 m)
V.	Tread width, centerline to centerline	59.9 in (1.52 m)

NOTE: *Equipped with 12.00 x 16.5 Galaxy XD2002 tires.

PERFORMANCE SPECS

Operating load	2,200 lb (998 kg)
Tipping load	4,400 lb (1995 kg)
Breakout force	
Lift cylinder	4,400 lbf (19 572 N)
Bucket cylinder	6,300 lbf (28 024 N)
Dig depth w/bucket flat	0.8 in (20 mm)
Cycle time	
Raise	4.2 sec.
Lower	3.4 sec.
Dump	1.3 sec.
Rollback	1.7 sec.

NOTE: SAE rated lift capacities.

OPTIONAL BUCKETS

Type	Width inch (m)	Weight lb (kg)	Heaped Capacity ft³ (m³)
Short Lip	73	409	13.9
Dirt	(1.9)	(186)	(.39)
Dirt	73	553	16.8
	(1.9)	(251)	(.48)
	84	620	19.4
	(2.1)	(281)	(.55)
Heavy-Duty	73	621	16.8
Dirt	(1.9)	(282)	(.48)
	84	676	19.4
	(2.1)	(307)	(.55)
Utility	73	628	22.4
	(1.9)	(285)	(.63)
	84	674	25.7
	(2.1)	(306)	(.73)
Heavy-Duty	73	696	22.4
Utility	(1.9)	(316)	(.63)
	84	755	25.7
	(2.1)	(343)	(.73)
Light	82	584	32.5
Material	(2.1)	(265)	(.92)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS level 1 canopy w/side screens
Tilt ROPS/FOPS
Rear window w/emergency escape feature
Instrument panels
Suspension vinyl seat
2 in (51 mm) retractable seat belt
Hand & foot throttles
Alarm package
Headliner
Top window
Cup holder
Power plug socket
Foot rest
Storage tray
Low effort ergonomic hand controls
Padded seat bar w/integral arm rests
Loader control lockout system
Electric parking brake control
Floor cleanout panel

LOADER

Heavy lift-and-reach linkage
Mechanical attachment coupler

ENGINE

Case/Iveco 432T/M3 diesel
Tier III Certified
No maintenance belt
Grid heater
Integral engine oil cooling
Fuel filter w/water trap
Dual element air cleaner
95 amp alternator
1125 CCA 12-volt battery
Battery disconnect w/jumpstart terminals
Side-by-side radiator and oil cooler

POWERTRAIN

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

HYDRAULICS

Auxiliary hydraulics 3,050 psi
(210 bar) – 23.8 gpm (90 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, 2 side, 1-rear flood
(halogen)
Rear tail lights
Options harness
Remote oil drain

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Deluxe cloth suspension seat w/heater and
lumbar support
3 in (76 mm) retractable seat belt
Electric auxiliary hydraulic control
Glass front door w/wiper & washer
Sliding side windows
Air conditioning
Heater (deluxe)
Demolition door
Radio

LOADER

Ride control
Hydraulic attachment coupler
Hydraulic self-leveling
Auxiliary front electric control
Pilot controls

HYDRAULICS

High-flow auxiliary hydraulics
3050 psi (210 bar) – 33.2 gpm (126 L/min)
Second auxiliary hydraulics
Attachment case drain plumbing

ENGINE

Coolant block heater

OTHER

2 speed ground drive
Deluxe instrument panel
Road lights
Rotating beacon
Lift hooks
Draw bar
Heavy-duty rear door
Language decals
Factory-installed tires – see page 2
Buckets – see page 3
Bolt-on spill guards
Bolt-on bucket cutting edges
42 in (1.07 m) and 48 in (1.22 m) pallet forks
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: Case Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Construction Equipment Inc. does not warrant the safety or reliability of attachments from other manufacturers.

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