

## ENGINE

Model	Case 432T/M3 diesel*, Tier IV compliant	
Type	4-stroke, turbocharged	
Cylinders	4	
Bore/Stroke	3.9 in x 4.1 in (99 mm x 104 mm)	
Displacement	195 in <sup>3</sup> (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	74 (55 kW) @ 2500 rpm	
Net	69 (52 kW) @ 2500 rpm	
Peak torque		
@ 1400 rpm	203 lb-ft (275 N·m)	

## ENGINE COOLING

Radiator		
Core type	Square wave serpentine	
Core size area	377 in <sup>2</sup> (.243 m <sup>2</sup> )	
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 flywheel	
Pump to engine ratio	1:1	
Displacement	0 to 2.62 in <sup>3</sup> (43 cc)	
Pump flow @ high idle engine rpm	30.3 gpm (115 L/min)	
Flow	Bi-directional	
Charge pressure	360 psi (24.8 bar)	
System relief	4350 psi (300 bar)	
Controls	Servo	
Drive motors	Fixed displacement radial piston	
Maximum displacement	28.7 in <sup>3</sup> (470 cc)	
Speed @ high idle engine rpm		
@ max displacement	244 rpm	
Optional high speed	407 rpm	
Torque @ max displacement and relief pressure	1,655 lb-ft (2245 N·m)	
Travel speed mph (km/h)		
Low range	7.2 (11.6)	
High range (optional)	11.6 (18.7)	
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	4,633 lb-ft (6282 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 <sup>3</sup> /rev (36 cc)	
Pump flow @ rated engine rpm		
Total	23.8 gpm (90 L/min)	
Optional high flow @ rated engine rpm		
Total	33.2 gpm (126 L/min)	
Loader control valve	3-spool open-center series with power beyond port	
Relief pressure	3050 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 with 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

Instrument panels

Suspension vinyl seat

2 in (51 mm) retractable seat belt

Hand throttle

Foot throttle

Alarm package

Headliner

Top window

Cup holder

Power plug socket

Foot rest

Storage tray

Low effort ergonomic hand controls

Padded seat bar w/integral armrests

Loader control lockout system

Electric parking brake control

Floor cleanout panel

## CYLINDERS

### Lift cylinder

Bore diameter	2.5 in (63.5 mm)
Rod diameter	1.5 in (38.1 mm)
Stroke	35.8 in (910 mm)
Closed length	46.8 in (1190 mm)

### Bucket cylinder

Bore diameter	2.75 in (69.9 mm)
Rod diameter	1.37 in (34.9 mm)
Stroke	14.6 in (370 mm)
Closed length	26.9 in (683 mm)

## OPERATING WEIGHTS

Unit equipped with 10.00 x 16.5 Galaxy Beefy Baby II tires, 60 in (1.5 m) foundry/excavating bucket, mechanical attachment coupler, full fuel tank and 165 lb (75 kg) operator

6605 lb (2996 kg)
Shipping weight 6055 lb (2747 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)
Suspension seat	+10 lb (4.5 kg)

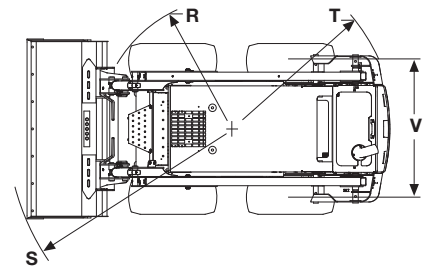
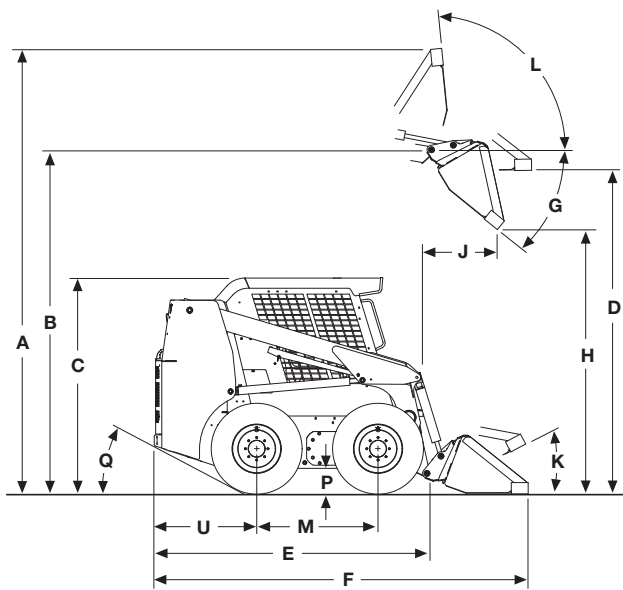
## SERVICE CAPACITIES

Fuel tank	22.0 gal (83.3 L)
Engine oil w/filter	9 qt (8.5 L)
Engine cooling system	12 qt (11.4 L)
Hydraulic system	
Reservoir	7.1 gal (26.8 L)
Total	13.2 gal (50 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	10.00 x 16.5	8	0.59 in (15 mm)	10.7 in (284 mm)	59 in (1.50 m)	52 lb (23.6 kg)
Galaxy XD2002	12.00 x 16.5	10	0.69 in (17 mm)	13.1 in (333 mm)	64 in (1.63 m)	72 lb (32.7 kg)
Galaxy Beefy Baby II	10.00 x 16.5	8	0.75 in (19 mm)	10.2 in (259 mm)	59 in (1.50 m)	61 lb (27.6 kg)
Galaxy Beefy Baby II	12.00 x 16.5	10	0.81 in (21 mm)	12.4 in (315 mm)	64 in (1.63 m)	82 lb (37.2 kg)
Galaxy Hulk	10.00 x 16.5	10	1.37 in (35 mm)	10.2 in (259 mm)	59 in (1.50 m)	79 lb (35.8 kg)
Galaxy Hippo	31.5 x 16.5	8	0.75 in (19 mm)	12.8 in (325 mm)	64 in (1.63 m)	70 lb (31.7 kg)
Galaxy Solid Flex	10 x 16.5	n/a	.7 in (18 mm)	9.6 in (244 mm)	61 in (1.50 m)	230 lb (104 kg)
Galaxy Solid Flex (offset wheel)	10 x 16.5	n/a	.7 in (18 mm)	9.6 in (244 mm)	67 in (1.70 m)	230 lb (104 kg)

\*Tire weight does not include the wheel weight



### DIMENSIONS\*

<b>A.</b> Overall operating height	
w/foundry/excavating bucket – short lip	151.6 in (3.85 m)
w/low profile bucket – standard lip	157.5 in (4.00 m)
w/low profile extended bucket – long lip	162.5 in (4.13 m)
Height to	
<b>B.</b> Bucket hinge pin	120.7 in (3.06 m)
<b>C.</b> Top of rollover protective structure	78.9 in (2.00 m)
<b>D.</b> Bottom of level bucket, loader arm fully raised	113.5 in (2.88 m)
Overall length	
<b>E.</b> w/o attachment w/coupler	102.5 in (2.60 m)
<b>F.</b> w/foundry/excavating bucket on ground	127.9 in (3.25 m)
<b>F.</b> w/low profile bucket on ground	132.9 in (3.38 m)
<b>F.</b> w/low profile extended bucket on ground	137.9 in (3.50 m)
<b>G.</b> Dump angle at maximum height	39°
<b>H.</b> Dump height – loader arm fully raised	
w/foundry/excavating bucket	96.1 in (2.44 m)
w/low profile bucket	92.6 in (2.35 m)
w/low profile extended bucket	89.4 in (2.27 m)
<b>J.</b> Dump reach – loader arm fully raised	
w/foundry/excavating bucket	22.9 in (0.58 m)
w/low profile bucket	28.8 in (0.73 m)
w/low profile extended bucket	32.6 in (0.83 m)
Maximum attachment rollback	
<b>K.</b> Bucket on ground	29°
<b>L.</b> Bucket at full height	96°
<b>M.</b> Wheelbase	42.3 in (1.07 m)
Ground clearance	
<b>P.</b> Bottom of belly pan	8.2 in (208 mm)
<b>Q.</b> Angle of departure	26°
Clearance circle front	
<b>R.</b> Less bucket	56.7 in (1.44 m)
<b>S.</b> w/60 in (1.52 m) foundry/excavating bucket on ground	76 in (1.93 m)
<b>S.</b> w/60 in (1.52 m) low profile bucket on ground	81.2 in (2.06 m)
<b>S.</b> w/60 in (1.52 m) low profile extended bucket on ground	85.9 in (2.18 m)
<b>T.</b> Clearance circle rear	59.2 in (1.50 m)
<b>U.</b> Rear axle to bumper	37.0 in (0.94 m)
<b>V.</b> Tread width, centerline to centerline	54.3 in (1.38 m)

NOTE: \*Equipped with 10 x 16.5 Galaxy Beefy Baby II tires.

### PERFORMANCE SPECS

Operating load	1850 lb (839 kg)
Tipping load	3700 lb (1678 kg)
Breakout force	
Lift cylinder	4,200 lbf (18 682 N)
Bucket cylinder	5500 lbf (24 465 N)
Dig depth	
w/bucket flat	0.2 in (6.00 mm)
Cycle time	
Raise	3.6 seconds
Lower	2.6 seconds
Dump	1.3 seconds
Rollback	1.6 seconds

NOTE: SAE rated lift capacities.

### OPTIONAL BUCKETS

Type	Width inch (m)	Weight lb (kg)	Heaped Capacity ft <sup>3</sup> (m <sup>3</sup> )	
Foundry/ Excavating	60 (1.5)	270 (122)	11.5 (0.33)	
	66 (1.6)	370 (168)	15.2 (0.43)	
	72 (1.8)	390 (177)	16.7 (0.47)	
	78 (2.0)	495 (225)	18.4 (0.52)	
	Low Profile	60 (1.5)	360 (163)	11.5 (0.33)
Low Profile Extended	66 (1.6)	400 (181)	13.2 (0.37)	
	72 (1.8)	425 (193)	14.5 (0.41)	
	78 (2.0)	502 (228)	18.6 (0.53)	
Utility/Light Material	60 (1.5)	350 (159)	19.7 (0.56)	
	72 (1.8)	434 (197)	23.7 (0.67)	
	84 (2.1)	497 (225)	27.9 (0.79)	
	Heavy-Duty/ Dirt	60 (1.5)	400 (181)	12.1 (0.34)
	66 (1.6)	474 (215)	13.3 (0.37)	
	72 (1.8)	501 (227)	14.6 (0.41)	
	78 (2.0)	527 (239)	15.9 (0.45)	

## STANDARD EQUIPMENT

### OPERATOR'S COMPARTMENT

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

### LOADER

Radial loader arm design  
Mechanical attachment coupler  
Loader lift arm support strut

### ENGINE

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

### POWERTRAIN

Hydrostatic four wheel drive  
Servo controlled pumps  
ASA #100HS drive chain  
SAHR disc parking brakes

### HYDRAULICS

Auxiliary hydraulics 3050 psi  
(210 bar) – 23.8 gpm (90 L/min)  
Hydraulic circuit pedal lock  
Loader arm-mounted ISO flat face connectors  
Auxiliary function lockout override  
Loader function lockout system  
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 (halogen)  
Rear tail lights  
Remote oil drain

## OPTIONAL EQUIPMENT

### OPERATOR'S COMPARTMENT

Deluxe cloth suspension seat w/ heater and lumbar support  
Interior mirror  
Electric auxiliary hydraulic control  
Glass front door w/wiper & washer  
Sliding side windows  
3 inch retractable seat belt  
Heater and AC  
Radio  
Demolition door

### LOADER

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

### 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  
Battery disconnect switch w/jumpstart terminals

### OTHER

2 speed ground drive  
Deluxe instrument panel  
Road lights  
Rotating beacon  
Lift hooks  
Special paint  
Language decals  
Factory-installed tires – see page 2  
Buckets – see page 3  
Bolt-on bucket cutting edges  
42 in (1.07 m) and 48 in (1.22 m) pallet forks  
Steel tracks  
Lift cylinder guards

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

NOTE: All engines meet current EPA emissions requirements.

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