

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 flywheel | |
| 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 | 5,220 psi (360 bar) |
| Controls | |
| Servo | |
| Drive motors | |
| Fixed displacement radial piston | |
| Maximum displacement | 28.7 in ³ (407 cc) |
| Speed @ high idle rpm & max. displacement | |
| Optional high speed | 244 rpm |
| Optional high speed | 407 rpm |
| Torque @ max. displacement & relief pressure | |
| 1,986 lb.ft (2692 N·m) | |
| Travel speeds – 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 | |
| 5,004 lb.ft (6784 N·m) | |
| Diameter | 2.5 in (63.5 mm) |
| Length | 14.92 in (379 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 (90.1 L/min) |
| Optional high flow @ rated engine rpm | |
| 33.2 gpm (125.8 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 | 2.75 in (70 mm) |
| Rod diameter | 1.374 in (35 mm) |
| Stroke | 20.67 in (525 mm) |
| Closed length | 31.5 in (800 mm) |

OPERATING WEIGHTS

| | |
|--|--------------------|
| Unit equipped with 12 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 | |
| | 8,120 lb (3683 kg) |
| Shipping weight | 7,460 lb (3384 kg) |
| Add-on weights | |
| Side cab glass | +70 lb (32 kg) |
| Glass door w/wiper | +77 lb (35 kg) |
| Heater | +60 lb (27 kg) |
| Suspension seat | +10 lb (4.5 kg) |
| Hydraulic attachment coupler | +38 lb (17 kg) |
| Counterweight | +862 lb (387 kg) |

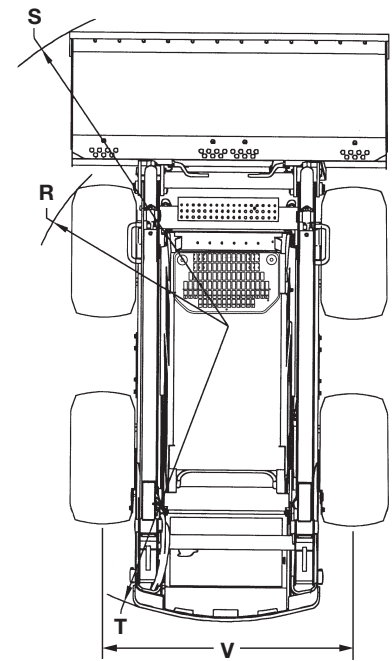
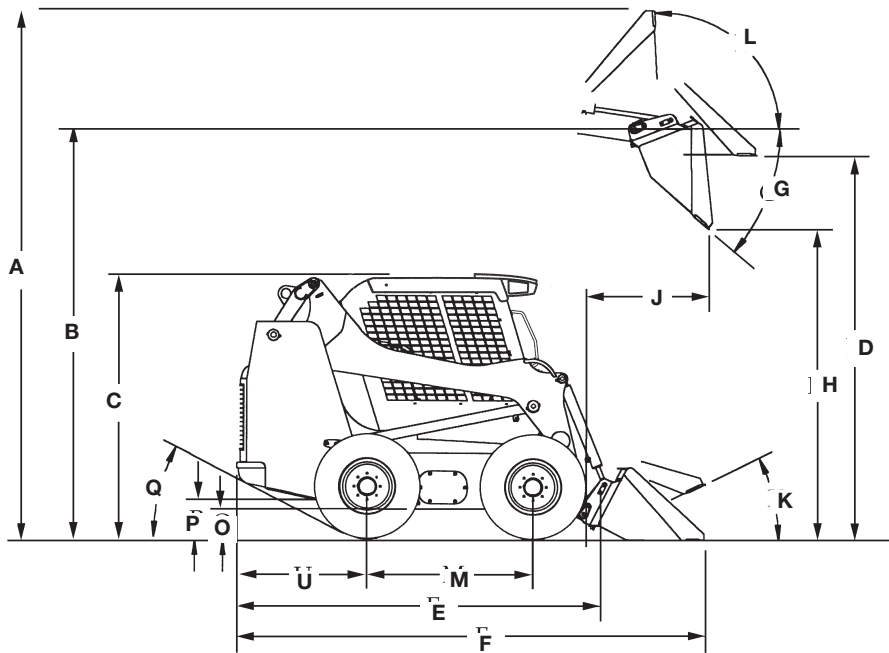
SERVICE CAPACITIES

| | |
|------------------------|-------------------|
| 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 XD 2002 | 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 Hippo | 33/15.50 x 16.5 | 12 | 0.81 in (21 mm) | 15.2 in (386 mm) | 72 in (1.83 m) | 94 lb (42.6 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 Bulky Hulk | 33/15.50 x 16.5 | 14 | 1.37 in (35 mm) | 15.1 in (384 mm) | 80 in (2.03 m) | 117 lb (53.1 kg) |
| Galaxy Hulk | 12.00 x 16.5 | 12 | 1.37 in (35 mm) | 12.0 in (305 mm) | 72 in (1.83 m) | 96 lb (43.5 kg) |
| Galaxy Solid Flex | 12.00 x 16.5 | n/a | 0.8 in (20 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 | 0.8 in (20 mm) | 11 in (279 mm) | 77 in (1.95 m) | 280 lb (127 kg) |

NOTE: * Tire weight does not include wheel weight.



DIMENSIONS*

| | |
|--|-------------------|
| A. Overall operating height | |
| Short lip dirt bucket | 140.5 in (3.57 m) |
| Dirt bucket | 159.1 in (4.04 m) |
| Light material bucket | 161.8 in (4.11 m) |
| Height to | |
| B. Bucket hinge pin | 122.4 in (3.11 m) |
| C. Top of rollover protection structure | 83.2 in (2.11 m) |
| D. Bottom of level bucket, loader arm fully raised | 114.3 in (2.90 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 | 137.2 in (3.48 m) |
| F. w/light material bucket on ground | 144.9 in (3.68 m) |
| G. Dump angle @ full height | 51° |
| H. Dump height – loader arm fully raised | |
| Short lip dirt bucket | 93.3 in (2.37 m) |
| Dirt bucket | 90.2 in (2.29 m) |
| Light material bucket | 85 in (2.16 m) |
| J. Dump reach – loader arm fully raised | |
| Short lip dirt bucket | 33.7 in (0.86 m) |
| Dirt bucket | 36.8 in (1.04 m) |
| Light material bucket | 47.9 in (1.22 m) |
| Maximum attachment rollback | |
| K. Bucket on ground | 27° |
| L. Bucket at full height | 86° |
| M. Wheel base | 45 in (1.14 m) |
| Ground clearance | |
| O. Bottom of chain case | 9.3 in (236 mm) |
| P. Bottom of belly pan | 11.1 in (283 mm) |
| P. Bottom of optional counterweight | 9.3 in (236 mm) |
| Q. Angle of departure | 28° |
| Clearance circle front | |
| R. less bucket | 53.3 in (1.36 m) |
| S. w/73 in (1.85 m) short lip dirt bucket in carry position | 79.8 in (2.03 m) |
| S. w/73 in (1.85 m) dirt bucket in carry position | 83.4 in (2.12 m) |
| S. w/82 in (2.08 m) dirt bucket in carry position | 86 in (2.18 m) |
| S. w/82 in (2.08 m) light material bucket on ground | 92.7 in (2.35 m) |
| T. Clearance circle rear | 61.7 in (1.57 m) |
| U. Rear axle centerline to back bumper | 38.3 in (0.97 m) |
| V. Tread width, centerline to centerline | 58.5 in (1.48 m) |

NOTE: *Equipped with 12x16.5 Galaxy Beefy Baby II tires.

PERFORMANCE SPECS

| | |
|-------------------------|----------------------|
| Operating load | 2,500 lb (1134 kg) |
| with counterweight | 2,750 lb (1247 kg) |
| Tipping load | 5,000 lb (2268 kg) |
| with counterweight | 5,500 lb (2495 kg) |
| Breakout force | |
| Lift cylinder | 5,000 lbf (22 241 N) |
| Bucket cylinder | 7,400 lbf (32 917 N) |
| Dig depth w/bucket flat | 0.1 in (3 mm) |
| Cycle time – seconds | |
| Raise | 4.2 |
| Lower | 2.7 |
| Dump (stop-to-stop) | 1.6 |
| Rollback | 2.0 |

NOTE: SAE rated lift capacities.

OPTIONAL BUCKETS

| Type | Width inch (m) | Weight lb (kg) | Heaped Capacity ft ³ (m ³) |
|------------|-------------------|-------------------|---|
| 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
Super counterweight

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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