

430

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 | |
| Peak torque | | |
| @ 1400 rpm | 229 lb-ft (310 N·m) | |

ENGINE COOLING

| | | |
|------------------------------|--|--|
| Radiator | | |
| Core type | Square wave 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 | 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 ³ (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 | 7.7 (12.4) | |
| High range (optional) | 12.6 (20.3) | |
| 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 | 4,633 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 ³ /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 12.00 x 16.5 Galaxy XD2002 tires, 66 in (1.6 m) foundry/excavating bucket, mechanical attachment coupler, full fuel tank and 165 lb (75 kg) operator | |
| | 6,800 lb (3084 kg) |
| Shipping weight | 6,150 lb (2790 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) |

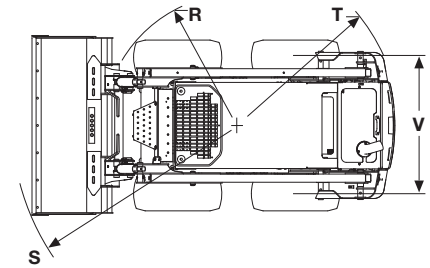
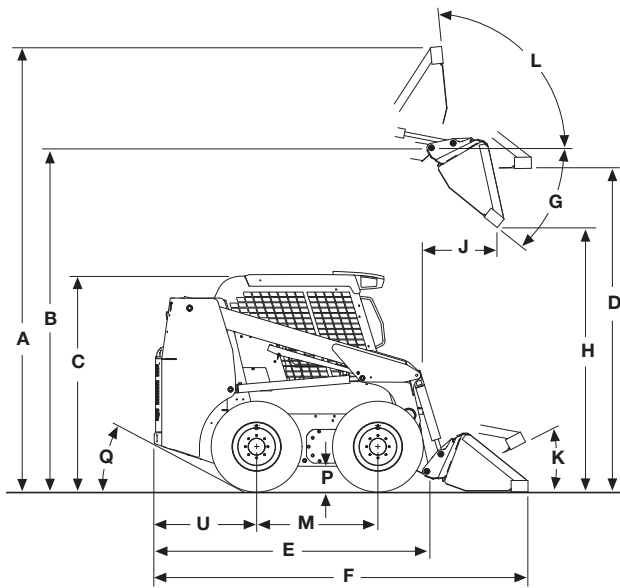
SERVICE CAPACITIES

| | |
|------------------------|-------------------|
| 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) | 12.4 in (315 mm) | 64 in (1.63 m) | 72 lb (32.7 kg) |
| Galaxy XD2002 (offset wheel) | 12.00 x 16.5 | 10 | 0.69 in (17 mm) | 12.4 in (315 mm) | 69 in (1.80 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) | 64 in (1.63 m) | 82 lb (37.2 kg) |
| Galaxy Beefy Baby II (offset wheel) | 12.00 x 16.5 | 10 | 0.81 in (21 mm) | 12.4 in (315 mm) | 71 in (1.80 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) | 70 in (1.78 m) | 94 lb (42.6 kg) |
| Galaxy Hulk | 12.00 x 16.5 | 12 | 1.37 in (35 mm) | 12.0 in (305 mm) | 64 in (1.63 m) | 96 lb (43.5 kg) |
| Galaxy Bulky Hulk | 33/15.50 x 16.5 | 14 | 1.37 in (35 mm) | 15.1 in (384 mm) | 70 in (1.78 m) | 117 lb (53.1 kg) |
| Galaxy Solid Flex | 12 x 16.5 | n/a | .8 in (21 mm) | 11 in (279 mm) | 61 in (1.54 m) | 280 lb (127 kg) |
| Galaxy Solid Flex (offset wheel) | 12 x 16.5 | n/a | .8 in (21 mm) | 11 in (279 mm) | 67 in (1.70 m) | 280 lb (127 kg) |

*Tire weight does not include wheel weight.



DIMENSIONS*

| | |
|--|-------------------|
| A. Overall operating height | |
| w/foundry/excavating bucket – short lip | 154.0 in (3.91 m) |
| w/low profile bucket – standard lip | 160.6 in (4.08 m) |
| w/low profile extended bucket – long lip | 165.6 in (4.21 m) |
| Height to | |
| B. Bucket hinge pin | 121.6 in (3.09 m) |
| C. Top of rollover protective structure | 80.0 in (2.03 m) |
| D. Bottom of level bucket, loader arm fully raised | 114.2 in (2.90 m) |
| Overall length | |
| E. w/o attachment w/coupler | 102.5 in (2.60 m) |
| F. w/foundry/excavating bucket on ground | 129.4 in (3.29 m) |
| F. w/low profile bucket on ground | 135.1 in (3.43 m) |
| F. w/low profile extended bucket on ground | 140.1 in (3.56 m) |
| G. Dump angle at maximum height | 39° |
| H. Dump height – loader arm fully raised | |
| w/foundry/excavating bucket | 96.0 in (2.44 m) |
| w/low profile bucket | 93.1 in (2.37 m) |
| w/low profile extended bucket | 90.0 in (2.29 m) |
| J. Dump reach – loader arm fully raised | |
| w/foundry/excavating bucket | 22.8 in (0.58 m) |
| w/low profile bucket | 25.9 in (0.66 m) |
| w/low profile extended bucket | 29.7 in (0.75 m) |
| Maximum attachment rollback | |
| K. Bucket on ground | 29° |
| L. Bucket at full height | 96° |
| M. Wheelbase | 42.3 in (1.07 m) |
| Ground clearance | |
| P. Bottom of belly pan | 9.2 in (234 mm) |
| Q. Angle of departure | 28° |
| Clearance circle front | |
| R. less bucket | 51.8 in (1.32 m) |
| S. w/66 in (1.68 m) foundry/excavating bucket in carry position | 78.7 in (1.95 m) |
| S. w/66 in (1.68 m) low profile bucket on ground | 84.0 in (2.13 m) |
| S. w/66 in (1.68 m) low profile extended bucket on ground | 85.2 in (2.16 m) |
| T. Clearance circle rear | 59.2 in (1.50 m) |
| U. Rear axle to bumper | 37.0 in (0.94 m) |
| V. Tread width, centerline to centerline | 51.8 in (1.32 m) |

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

PERFORMANCE SPECS

| | |
|-----------------|-------------------------|
| Operating load | 2,000 lb (907 kg) |
| Tipping load | 4,000 lb (1814 kg) |
| Breakout force | |
| Lift cylinder | 4,304 lbf (19 145 N) |
| Bucket cylinder | 5,784 lbf (25 728 N) |
| Dig depth | |
| w/bucket flat | 0.9 in (24 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 ³ (m ³) |
|---------------------------|-------------------|-------------------|---|
| Foundry/ Excavating | 66 (1.6) | 370 (168) | 15.2 (0.43) |
| | 72 (1.8) | 390 (177) | 16.7 (0.47) |
| | 78 (2.0) | 435 (197) | 18.4 (0.52) |
| | 66 (1.6) | 400 (181) | 13.2 (0.37) |
| Low Profile | 72 (1.8) | 425 (193) | 14.5 (0.41) |
| | 66 (1.6) | 434 (197) | 15.5 (0.44) |
| | 72 (1.8) | 477 (216) | 17.1 (0.48) |
| Low Profile Extended | 78 (2.0) | 502 (228) | 18.6 (0.53) |
| | 84 (2.1) | 497 (225) | 27.9 (0.79) |
| | 72 (1.8) | 434 (197) | 23.7 (0.67) |
| Utility/Light Material | 84 (2.1) | 497 (225) | 27.9 (0.79) |
| | 72 (1.8) | 434 (197) | 23.7 (0.67) |
| Heavy-Duty/ Dirt | 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) |
| | 66 (1.6) | 474 (215) | 13.3 (0.37) |

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 III certified
No maintenance belt
Battery disconnect switch w/jumpstart terminals
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

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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