

ENGINE

| | |
|---------------------------|-------------------------------|
| Model | Case 432T / M3 |
| Type | Diesel 4-stroke, Turbo, D.I. |
| Cylinder | 4 |
| Bore/Stroke | 3.9 x 4.1 in (99 x 104 mm) |
| Displacement | 195 cu in (3.2 L) |
| Fuel injection | Direct |
| Fuel | #2 diesel |
| Fuel filter | In-line strainer |
| Air intake | Turbocharged w/ external EGR |
| Cooling | Liquid |
| Engine speeds | |
| High idle - no load (rpm) | 2675 +/- 75 |
| Rated -full load (rpm) | 2500 |
| Low idle (rpm) | 1075 +/- 75 |
| Horsepower per SAE J1349 | |
| Gross | 90 hp (67 kW) @ 2500 rpm |
| Net | 84 hp (63 kW) @ 2500 rpm |
| Peak torque | 251 lb-ft (340 Nm) @ 1400 rpm |

ENGINE COOLING

| | |
|------------------------------|---|
| Radiator - | |
| Core type | All aluminum |
| Core size area | 0.266 m ² |
| Rows of tubes | 42 |
| Cap pressure | 16 +/-2 psi |
| Fan - | |
| Diameter | 20.4 in (518 mm) |
| Ratio | 0.96:1 |
| Water pump | |
| Style | Centrifugal |
| Flow | 29 gpm (110 L/min) |
| Engine lubrication | |
| Pump | Rotor pump w/ deep sump pan, plate cooler, and pressurized under-piston nozzles |
| Pump operating angle ratings | |
| Side to side | 45° |
| Bucket up | 35° |
| Bucket down | 45° |
| Oil filtration | Replaceable, full-flow cartridge |

POWERTRAIN

| | |
|---|---|
| Drive pump - Mechanical | |
| Pump to engine ratio | 1:1 |
| Displacement cc (cu in) | 2.81 cu in (46 cc) |
| Flow at rated engine rpm | |
| @100% efficiency | 30.4 gpm (115 L/min) |
| Charge Pressure | 363 psi (25 bar) |
| System relief | 5,220 psi (360 bar) |
| Control | Mechanical servo |
| Drive pump - Electro Hydraulic | |
| Pump to engine ratio | 1:1 |
| Displacement cc (cu in) | 2.81 cu in (46 cc) |
| Flow at rated engine rpm | |
| @100% efficiency | 30.4 gpm (115 L/min) |
| Charge Pressure | 363 psi (25 bar) |
| System relief | 5,220 psi (360 bar) |
| Control | Electro Hydraulic |
| Drive motors - | |
| Max. displacement | 28.68 cu in (470 cc) |
| Displacement - optional | |
| high speed | 17.21 cu in (282 cc) |
| Speed @ high idle engine rpm | |
| (100% eff. at rated engine rpm) | 244 |
| Speed @ optional high speed rpm | 408 |
| Torque @ max displacement and relief pressure (calculated) | 1,987 lb-ft (2694 N-m) |
| Travel speed - | |
| Low range | 7.2 mph |
| High range (optional) | 11.9 mph |
| Final drive | Single-reduction chain drive |
| Drive chain - | |
| Size | ASA #100 |
| Tensile strength | 30,000 lb (133.4 kN) |
| Axles - | |
| Torque @ max. displacement and relief pressure (calculated) | 6,623 lb -ft (8980 N-m) |
| Diameter | 2.44 in (61.94 mm) |
| Length | 15.7 in (398.7 mm) |
| Parking brake | |
| Type | 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 |
| Displacement - | |
| Standard Aux. | 2.08 cu in (34.1 cc) |
| High Flow Aux. | 1.12 cu in (18.3 cc) |
| Pump flow @ rated engine rpm | |
| @ 100 % efficiency | 22.5 gpm (85 L/min) |
| Optional high flow @ rated engine rpm | |
| @ 100 % efficiency | 12.1 gpm (46 L/min) |
| Loader control valve - | |
| Type | 3 Spool / Open Center / Series |
| Relief pressure | 3,000 psi (207 Bar) |
| Port relief pressures - | |
| Loader raise | 3,263 psi (225 bar) |
| Bucket dump | 3,481 psi (240 bar) |
| Bucket curl | 3,336 psi (230 bar) |
| Hydraulic lines - | |
| Tubing | 37° JIC Flare |
| Loop hoses | SAE 100 R13 |
| Hydraulic oil cooler - | |
| Number of fins | 10 per inch (3.94 per cm) |
| Number of Tubes | 11 |
| Area | 130.7 sq in (843 cm ²) |
| Hydraulic filter | 6 micron / Spin on |

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 4.0 kW |
| Battery |
| 12-volt low-maintenance 1000 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 | 1.75 in (44.5 mm) |
| Stroke | 35 in (891.5 mm) |
| Closed length | 47.2 in (1200 mm) |
| Bucket cylinders – | |
| Bore diameter | 3.0 in (76.2 mm) |
| Rod diameter | 1.5 in (38.1 mm) |
| Stroke | 16.14 in (410.0 mm) |
| Closed length | 24 in (610.0 mm) |

WEIGHTS

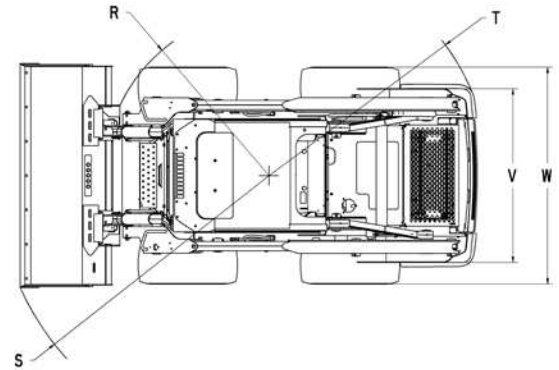
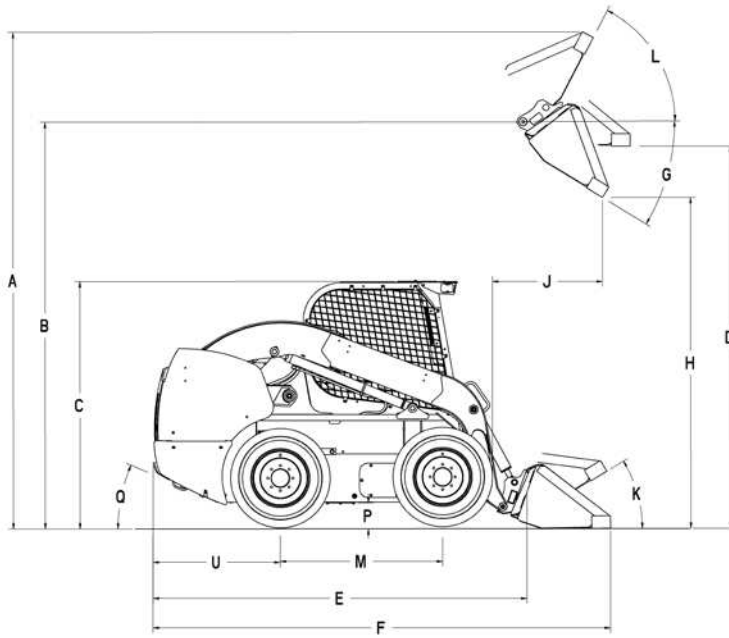
| | |
|-----------------------|--------------------|
| Operating weight | 8,300 lb (3765 kg) |
| Shipping weight | 7,965 lb (3610 kg) |
| Add-on weights – | |
| Side cab glass | 46.9 lb (21.3 kg) |
| Lexan door | 74 lb (33.6 kg) |
| Glass door with wiper | 134 lb (60.8 kg) |
| Suspension seat | 22.1 lb (10 kg) |

SERVICE CAPACITIES

| | |
|------------------------|-------------------|
| Fuel tank | 25.5 gal (96.5 L) |
| Engine oil with filter | 10.5 qt (10 L) |
| Hydraulic system – | |
| Reservoir | 6 gal (22.75 L) |
| Total | NA |
| Chain tanks (per side) | 7.8 qt (7.4 L) |

TIRE SELECTION

| | Size | Ply Rating | Tread Depth | Tire Width | Tread Width | Width Over Tires | Tire Weight* |
|---------------|-----------|------------|-------------|------------|--------------|------------------|--------------|
| Heavy-Duty | 12 x 16.5 | – | – | – | 57 (1465) | 70 (1785) | – |
| Premium | 12 x 16.5 | – | – | – | 57 (1465) | 70 (1785) | – |
| Premium-Lined | 12 x 16.5 | – | – | – | 57 (1465) | 70 (1785) | – |
| Severe Duty | 12 x 16.5 | – | – | – | 57 (1465) | 70 (1785) | – |
| Mining | 12 x 16.5 | – | – | – | 57 (1465) | 70 (1785) | – |
| Non-Pneumatic | 12 x 16.5 | – | – | – | 57 (1465) | 70 (1785) | – |
| Flotation | 33 x 15.5 | – | – | – | 60 (1544) | 76 (1930) | – |
| Premium | 14 x 17.5 | – | – | – | 62 (1579) | 76 (1930) | – |



DIMENSIONS

| | |
|---|-------------|
| A. Overall operating height - in (m) – with foundry/excavating bucket short lip | 164.4 (4.2) |
| with low profile/standard lip bucket | 164.4 (4.2) |
| with low profile extended / long lip bucket | 169.5 (4.3) |
| Height to - in (m) – | |
| B. Bucket hinge pin | 130 (3.3) |
| C. Top of ROPS | 78.8 (2.0) |
| D. Bottom of level bucket, fully raised | 123.2 (3.1) |
| Overall length - in (m) – | |
| E. without attachment with coupler | 117.7 (3.0) |
| F. with foundry excavation bucket on ground | 141.9 (3.6) |
| with low profile bucket | 146 (3.7) |
| with low profile extended bucket | 151 (3.8) |
| G. Dump angle | 53.5° |
| H. Dump height - in (m) – with foundry/excavating bucket short lip | 102.9 (2.6) |
| with low profile/standard lip bucket | 100.6 (2.6) |
| J. Dump reach (max. height) - in (m) | 29.3 (0.7) |
| Maximum attachment rollback – | |
| K. Bucket on ground | 35° |
| L. Bucket at full height | 86° |
| M. Wheelbase - in (m) | 52 (1.3) |
| P. Ground clearance (bottom of belly pan) - in (m) | 8 (0.2) |
| Q. Angle of departure | 23.5° |
| Clearance circle - in (m) – | |
| R. without bucket | 56.2 (1.4) |
| S. with 72-inch (1.8 m) foundry bucket in carry position | 83.8 (2.1) |
| with 72-inch (1.8 m) low profile bucket on ground | 87.2 (2.2) |
| with 72-inch (1.8 m) extended low profile on ground | 91.9 (2.3) |
| T. Clearance circle rear - in (m) | 70.4 (1.8) |
| U. Rear axle to bumper - in (m) | 40.7 (1.0) |
| Rolling radius - in (m) | 16.1 (0.4) |
| V. Tread width with spec tires - in (m) – | 56.9 (1.4) |
| W. Over the tire width with spec tires - in (m) – | 69.6 (1.7) |

PERFORMANCE SPECS

| | |
|---|--------------------|
| Rated Operating Load – | |
| 50% | 3,000 lb (1361 kg) |
| Tipping load | 6,000 lb (2722 kg) |
| Breakout forces (calculated @ 3150 psi) – | |
| Lift cylinder | 5,090 lb (22.6 kN) |
| Bucket cylinder | 8,585 lb (38.2 kN) |
| Cycle Times (seconds)– | |
| Raise | 4.1 |
| Lower | 2.6 |
| Dump | 2.7 |
| Roll back | 2.0 |

OPTIONAL BUCKETS

| Type | Width inch (m) | Weight lb (kg) | Heaped Capacity ft³ (m³) |
|-------------------------|--------------------|-------------------|--------------------------------|
| Dirt & Foundry | 72 (1.8) | 390 (177) | 16.7 (0.47) |
| | 78 (2.0) | 435 (197) | 18.4 (0.52) |
| | 72 (1.8) | 425 (193) | 14.5 (0.41) |
| Low Profile Extended | 72 (1.8) | 477 (216) | 17.1 (0.48) |
| | 78 (2.0) | 502 (228) | 18.6 (0.53) |
| | 84 (2.1) | 607 (275) | 20.2 (0.57) |
| Light Material | 72 (1.8) | 434 (197) | 23.7 (0.67) |
| | 84 (2.1) | 497 (225) | 27.9 (0.79) |
| | Manure & Slurry | 72 (1.8) | 465 (211) |
| 84 (2.1) | | 535 (243) | 22.5 (0.64) |
| Heavy Duty | | 72 (1.8) | 501 (227) |
| | 78 (2.0) | 527 (239) | 15.9 (0.45) |
| | 84 (2.1) | 550 (249) | 19.4 (0.55) |

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS level 1 canopy w/side screens
Tilt ROPS/FOPS
Rear window w/ emergency escape
Instrument panels
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

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

ENGINE

Case/Iveco 432T/M3 diesel
No maintenance belt
Over & under radiator and oil cooler
Glow plug
Integral engine oil cooling
Fuel filter w/water trap
Dual element air cleaner
95 amp alternator
1000 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

2 speed transmission
Add-on counterweights
Lockable service access hood
Single-point daily servicing
Halogen lights, 2-front, 2 side, 2-rear (halogen)
Rear tail lights
Remote oil drain

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Vinyl suspension seat
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
Switchable EH 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

OTHER

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



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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All Case construction equipment is biodiesel ready.



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