

ENGINE

| | |
|------------------------------|--|
| Model | Case 432T/M3 |
| Type | 4-stroke |
| Cylinders | 4 |
| Bore/Stroke | 3.89 in x 4.09 in (99 X 104 mm) |
| Displacement | 195 in ³ (3.2 L) |
| Fuel injection | Direct |
| Fuel | #2 Diesel |
| Fuel filter | Replaceable, full flow spin-on cartridge |
| Air filter | Dry type element w/warning restriction indicator |
| Radiator | |
| Core type | Staggered |
| Fan | |
| Style | Direct drive |
| Lubrication/cooling oil pump | |
| Style | Integral |
| Engine oil | |
| Pump | Deep sump plate cooler with pressurized under-piston nozzles |
| Pump operating angle ratings | |
| Side-to-side | Rated 35° |
| Fore and aft | Rated 35° |
| Oil filtration | Replaceable, full flow spin-on cartridge |
| Engine speeds (rpm) | |
| Rated speed, full load | 2300 |
| Low idle | 825-875 |
| High idle, no load | 2650-2750 |
| Horsepower – Rated | |
| Gross | 82 (61 kW) @ 2500 rpm |
| Net | 77 (57 kW) @ 2500 rpm |
| Peak torque @ 1400 rpm | |
| Gross | 229 lb-ft (310 N-m) |
| Net | 226 lb-ft (306 N-m) |
| Torque rise | 33% |

NOTE: Gross horsepower and torque per ISO 9249.
Net horsepower and torque per ISO 9249.

DRIVETRAIN

| | |
|--|---|
| Transmission | Hydrostatic transmission |
| Pump relief | 6,773 psi (46 700 kPa) |
| Pump flow | 43.1 gpm (163.3 L/min) |
| Differential | Limited slip w/45% transfer on front axles |
| Front and rear axle | |
| Differential ratio | 3.46 |
| Planetary ratio | 6.00 |
| Final axle ratio | 22.00 |
| Planetaries | Outboard |
| Service brakes | |
| | Hydraulically actuated, dry disc w/accumulator to front axle & joint shaft |
| Parking brake | Mechanical |
| Travel speeds – mph (km/h) w/405/70 R20 tires | |
| | Forward Reverse |
| Low | 0-3.7 (0-6) 0-3.7 (0-6) |
| High | 0-12.4 (0-20) 0-12.4 (0-20) |
| Optional HTS (High Travel Speed) | |
| | Forward Reverse |
| Low | 0-3.7 (0-6) 0-3.7 (0-6) |
| High | 0-10.3 (0-16.5) 0-10.3 (0-16.5) |
| HTS engaged | |
| | 0-21.7 (0-35) 0-21.7 (0-35) |

NOTE: Travel speeds at full engine throttle.

ELECTRICAL

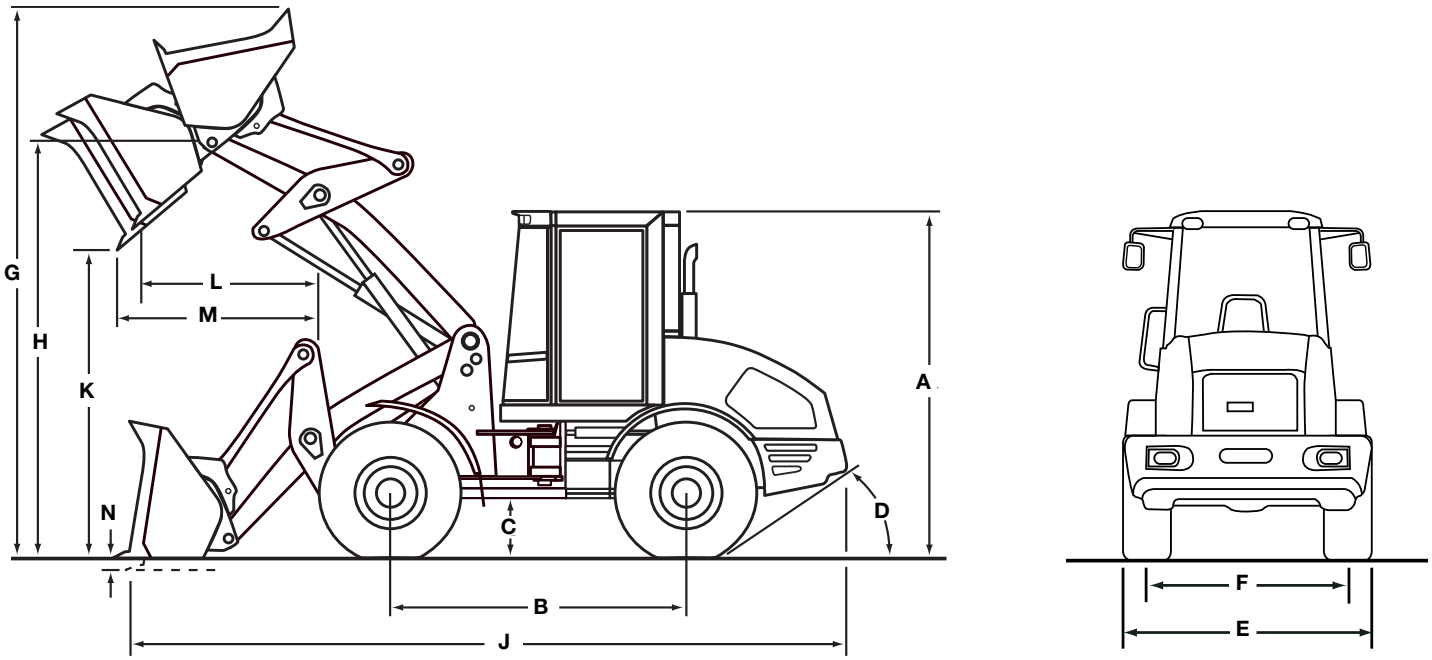
| | |
|------------|---------------------------|
| Voltage | 12 Volts, negative ground |
| Alternator | 95 amp |
| Batteries | 95 AHR 900 CCA |

HYDRAULICS

| | |
|------------------------------|--|
| Pump (steering/implement) | |
| | Open-centered pressure/flow compensated |
| Fixed gear type | |
| | 21.1 gpm @ 2500 rpm @ 3916 psi (80 L/min @ 2500 rpm @ 27 000 kPa) |
| Loader control valve | |
| | Open-center, 1 lever loader control w/ forward/reverse switch, detents in float |
| Loader auxiliary steering | |
| | Hydraulic orbital center-pivot articulating w/on-demand oil flow |
| Main relief pressure @ valve | 3,626 psi (25 000 kPa) |
| Filtration | |
| | 15-micron, full flow replaceable cartridges on return line |

CYLINDERS

| | |
|---------------|------------------|
| Lift cylinder | |
| Bore diameter | 3.5 in (90 mm) |
| Rod diameter | 2.0 in (50 mm) |
| Stroke | 28.4 in (721 mm) |
| Dump cylinder | |
| Bore diameter | 3.5 in (90 mm) |
| Rod diameter | 2.0 in (50 mm) |
| Stroke | 18.0 in (459 mm) |



DIMENSIONS

| | |
|---------------------------------|--------------------|
| Height to – | |
| A. Top of ROPS cab | 110.5 in (2806 mm) |
| B. Wheelbase | 92.5 in (2350 mm) |
| C. Ground clearance under shaft | 16.0 in (415 mm) |
| C. Ground clearance under axles | 13.0 in (330 mm) |
| D. Angle of departure | 35° |
| Width – | |
| E. Overall* w/o bucket | 79.6 in (1981 mm) |
| F. Centerline tread | 61.8 in (1570 mm) |
| Turning radius* – outside | |
| 163.5 in (4154 mm) | |
| Turning angle – | |
| From center | 41° |
| Total angle | 82° |
| Rear axle oscillation, total | |
| 24° | |

NOTE: *Dimensions taken with 405/70 R20 tires. Additional dimensions on pages 3 & 4.

PERFORMANCE DATA

| 321E Versa-Boom | 1.44 yd³ GP (1.10 m³) | 1.31 yd³ GP (1.00 m³) |
|--|--|--|
| | Bucket w/Bolt-on Edge | Bucket w/Bolt-on Edge |
| SAE bucket capacity – struck | 1.18 yd ³ (0.90 m ³) | 1.09 yd ³ (0.84 m ³) |
| Heaped | 1.44 yd ³ (1.10 m ³) | 1.31 yd ³ (1.00 m ³) |
| Bucket width – outside | 82.7 in (2100 mm) | 82.7 in (2100 mm) |
| Bucket weight | 999 lb (453 kg) | 948 lb (430 kg) |
| G. Operating height – fully raised w/spillguard | 178.7 in (4539 mm) | 176.2 in (4476 mm) |
| H. Hinge pin height – fully raised | 136.2 in (3459 mm) | 136.2 in (3459 mm) |
| J. Overall length – bucket level on ground | 226.6 in (5755 mm) | 224.5 in (5703 mm) |
| Dump angle – fully raised | 45° | 45° |
| K. Dump height – fully raised, 45° dump | 103.8 in (2635 mm) | 105.2 in (2671 mm) |
| L. Bucket reach – fully raised, 45° dump | 34.9 in (888 mm) | 33.6 in (852 mm) |
| M. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | 51.7 in (1314 mm) | 51.2 in (1300 mm) |
| N. Dig depth | 3.5 in (88 mm) | 3.5 in (88 mm) |
| Operating load – ISO | 4,139 lb (1877 kg) | 4,140 lb (1878 kg) |
| Maximum material density – ISO | 2,877 lb/yd ³ (1707 kg/m ³) | 3,166 lb/yd ³ (1878 kg/m ³) |
| Tipping load – ISO | | |
| Straight | 9,744 lb (4420 kg) | 9,741 lb (4418 kg) |
| Straight w/ optional counterweight | 10,302 lb (4673 kg) | 10,299 lb (4671 kg) |
| 40° turn | 8,277 lb (3,755 kg) | 8,281 lb (3756 kg) |
| 40° turn w/ optional counterweight | 8,750 lb (3969 kg) | 8,754 lb (3970 kg) |
| Lift capacity – | | |
| Full height | 7,100 lb (3221 kg) | 7,150 lb (3243 kg) |
| Maximum reach | 9,564 lb (4338 kg) | 9,615 lb (4361 kg) |
| Ground | 13,355 lb (6058 kg) | 13,405 lb (6080 kg) |
| Breakout force w/tilt cylinder | 11,241 lb (5099 kg) | 11,982 lb (5435 kg) |
| Maximum rollback – | | |
| Ground | 47° | 47° |
| Carry position | 52° | 52° |
| @ Maximum reach | 54° | 54° |
| @ Full height | 54° | 54° |
| Maximum grading angle w/bucket – back dragging | 111° | 109° |
| Loader clearance circle | 367.6 in (9337 mm) | 366.5 in (9310 mm) |

47.2 in (1200 mm) Forks

| | |
|-------------------------------|--------------------|
| Fork weight | 816 lb (370 kg) |
| Operating load – level ground | 4,885 lb (2216 kg) |
| Tipping load – straight | 7,197 lb (3265 kg) |
| Tipping load – 40° turn | 6,106 lb (2770 kg) |
| Fork load center | 19.7 in (500 mm) |

INSTRUMENTATION

Electronic Information Center

Displays/Gauges –

- Fuel level
- Hourmeter
- Engine oil temperature

Indicator lights –

- Hydraulic oil temperature
- Alternator
- Work lights*
- Brake pressure
- Parking brake
- Air conditioning*
- Air filter restriction
- Travel direction F/R
- Speed range selected
- Shift pressure*
- Turn signal indicator
- Engine oil temperature
- Engine oil pressure
- Preheating indicator lamp
- High beam lights

Audible alarms –

- Caution alarm
- Critical alarm
- Backup alarm

Horn

NOTE: *If equipped with option.

OPERATOR ENVIRONMENT

Cab w/heat

Key start

Articulated power steering w/tilt column

Fully adjustable, cloth suspension seat

Foot throttle

Single lever electronic speed shift control,
F/N/R switch in loader control handle

Cup holder

Retractable seat belt

Storage tray

Sun screen – front

Defroster

Opening side window – 180°

Dome light

Wipers rear & front

12-volt auxiliary power

External rearview mirrors

R.H. steps

Coat hook

Loader control lockout

LOADER

Versa-Boom loader linkage

Single control for lift and tilt

Positive hold float

Skid steer compatible attachment coupler

CYCLE TIME

Raise w/rated bucket load 6.0 sec

Dump w/rated bucket load

Versa-Boom 1.0 sec

Lower (empty)

Float down 3.0 sec

SERVICE CAPACITIES

Fuel tank 26.0 gal (100 L)

Hydraulic system

Total 19.5 gal (74 L)

Reservoir 10.5 gal (40 L)

Front and rear axle

Total axle (each) 2.11 gal (8.0 L)

Engine oil w/filter 2.3 gal (8.5 L)

Cooling 4.4 gal (16.5 L)

OPERATING WEIGHTS

Versa-Boom

Unit equipped with ROPS cab with heater, standard counterweight, 405/70 R20 Dunlop tires, front and rear fenders, 1.31 yd³ (1.0 m³) general purpose loader bucket w/edge, full fuel, 165 lb (75 kg) operator 12,676 lb (5750 kg)

With optional counterweight 12,997 lb (5896 kg)

STANDARD EQUIPMENT

OPERATOR'S ENVIRONMENT

See page 4

ENGINE

Case 432T/M3
Fuel filter w/water trap
Dual element air cleaner
95 amp alternator
(1) 900 CCA 12-volt battery
Liquid-cooled radiator

LOADER

See page 4

DRIVETRAIN

4-wheel drive
Hydrostatic transmission
Single lever electronic speed shift control,
F/N/R switch in loader control handle
Outboard planetary axles
Limited slip differential, front axle
Transmission oil cooler
Hydraulic dry disc brakes
Mechanical parking brake

HYDRAULICS

3-spool loader control valve
(8) Diagnostic quick couplers
Auxiliary hydraulics

OTHER

Front and rear fenders
Lights –
(2) Front flood lights
(2) Front driving headlights (high/low beam)
(2) Stop/tail lights and backup light
Front and rear turn signal/flash
Drawbar pin
Articulation locking pin
Tie-down points – front/rear
Backup alarm
Wired for radio
Bucket position indicator

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Cab air conditioning w/heater
Rotating beacon
Limited slip rear axle
High travel speed (HTS)
0-21.7 mph (0-35 km/h)
Radio ready antenna and speakers

OTHER

(2) Rear flood lights
Tool box

LOADER

Buckets (see page 3)
General Purpose
4-IN-1
Forks
Ride Control
Return To Dig

TIRES

405/70 R20 EM SPT9
405/75 R20 XM27
14.5 x 20 MPT E91

COUNTERWEIGHT

321 lb (146 kg)
Mounts on rear chassis

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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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