

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	2450-2550
Horsepower – Rated	
Gross	64.0 (48.0 kW) @ 2300 rpm
Net	60.0 (45.0 kW) @ 2300 rpm
Peak torque @ 1400 rpm	
Gross	192 lb-ft (260 N·m)
Net	189 lb-ft (256 N·m)
Torque rise @ 2000 rpm	30%

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

DRIVETRAIN

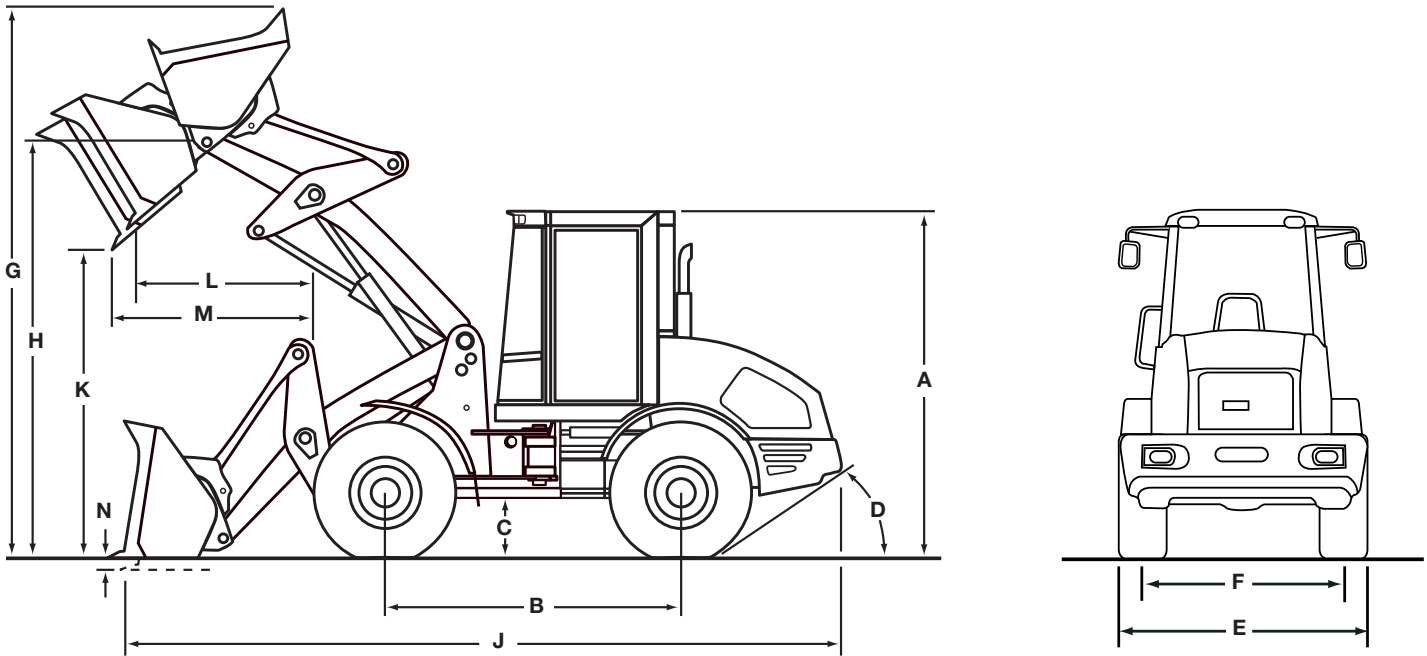
Transmission	Hydrostatic transmission	
Pump relief	6,773 psi (46 700 kPa)	
Pump flow	34.6 gpm (131 L/min)	
Differential	Front limited slip w/45% transfer on front axles	
Front axle		
Differential ratio	2.91	
Planetary ratio	6.00	
Final axle ratio	17.45	
Planetaries	Outboard	
Service brakes	Hydraulically actuated, dry disc w/accumulator to front axle & joint shaft	
Parking brake	Mechanical	
Travel speeds – mph (km/h)	w/14.5 X 20 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)
NOTE: Travel speeds at full engine throttle.		
Optional HTS (High Travel Speed)		
	Forward	Reverse
Low	0-3.1 (0-5.0)	0-3.1 (0-5.0)
High	0-10.0 (0-16.0)	0-10.0 (0-16.0)
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	19.5 gpm @ 2300 rpm @ 3916 psi (74 L/min @ 2300 rpm @ 27 000 kPa)
Loader control valve	Open-center, 1 lever loader control w/forward/neutral/reverse switch, float detent
Loader auxiliary steering	Hydraulic orbital center-pivot articulating w/on-demand oil flow
Main relief pressure	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	111.2 in (2824 mm)
B. Wheelbase	88.6 in (2250 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	75.2 in (1909 mm)
F. Centerline tread	60.1 in (1526 mm)
Turning radius* – outside	
	156.0 in (3963 mm)
Turning angle –	
From center	41°
Total angle	82°
Rear axle oscillation, total	
	24°

NOTE: *Dimensions taken with 14.5 X 20 tires. Additional dimensions on pages 3 & 4.

PERFORMANCE DATA

121E Versa-Boom	1.0 yd³ GP (0.9 m³) Bucket w/Bolt-on Edge	1.05 yd³ GP (0.8 m³) Bucket w/Bolt-on Edge
SAE bucket capacity – struck	0.85 yd ³ (0.65 m ³)	0.85 yd ³ (0.65 m ³)
Heaped	1.18 yd ³ (0.90 m ³)	1.05 yd ³ (0.80 m ³)
Bucket width – outside	80.7 in (2050 mm)	80.7 in (2050 mm)
Bucket weight	919 lb (417 kg)	875 lb (397 kg)
G. Operating height – fully raised w/spillguard	168.7 in (4285 mm)	166.8 in (4237 mm)
H. Hinge pin height – fully raised	130.0 in (3302 mm)	130.0 in (3302 mm)
J. Overall length – bucket level on ground	216.0 in (5485 mm)	214.0 in (5435 mm)
Dump angle – fully raised	44°	44°
K. Dump height – fully raised, 45° dump	100.3 in (2549 mm)	101.7 in (2584 mm)
L. Bucket reach – fully raised, 45° dump	32.4 in (823 mm)	31.0 in (787 mm)
M. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	45.7 in (1160 mm)	45.2 in (1148 mm)
N. Dig depth	2.4 in (60 mm)	2.3 in (60 mm)
Operating load – ISO	3,397 lb (1541 kg)	3,408 lb (1546 kg)
Maximum material density – ISO	2,886 lb/yd ³ (1713 kg/m ³)	3,257 lb/yd ³ (1932 kg/m ³)
Tipping load – ISO		
Straight	7,673 lb (3480 kg)	7,691 lb (3489 kg)
Straight w/optional counterweight	8,235 lb (3735 kg)	8,253 lb (3744 kg)
40° turn	6,795 lb (3082 kg)	6,815 lb (3091 kg)
40° turn w/optional counterweight	7,270 lb (3297 kg)	7,209 lb (3306 kg)
Lift capacity –		
Full height	5,988 lb (2716 kg)	6,034 lb (2737 kg)
Maximum reach	8,240 lb (3738 kg)	8,283 lb (3757 kg)
Ground	12,134 lb (5504 kg)	12,173 lb (5522 kg)
Breakout force w/tilt cylinder	9,337 lb (4235 kg)	10,024 lb (4547 kg)
Maximum rollback –		
Ground	46°	46°
Carry position	52°	52°
@ Maximum reach	53°	53°
@ Full height	54°	54°
Maximum grading angle w/bucket – back dragging	106°	105°
Loader clearance circle	352.1 in (8945 mm)	351.1 in (8918 mm)

47.2 in (1200 mm) Forks

Fork weight	816 lb (370 kg)
Operating load – level ground	3,924 lb (1780 kg)
Tipping load – straight	5,554 lb (2519 kg)
Tipping load – 40° turn	4,905 lb (2225 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
High beam lights
Turn signal indicator
Engine oil temperature
Engine oil pressure
Preheating indicator lamp

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

Hydraulic 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 17.7 gal (67 L)

Reservoir 10.5 gal (40 L)

Front and rear axle

Total axle (each) 2.1 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, 14.5 X 20 Dunlop tires,
front and rear fenders, 1.05 yd³ (0.8 m³) general
purpose loader bucket w/edge, full fuel, 165 lb
(75 kg) operator 10,849 lb (4921 kg)

With optional
counterweight 11,268 lb (5066 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

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Rotating beacon
Limited slip option, rear axle
Air conditioning
High Travel Speed (HTS)
 0-21 MPH (0-35 km/hr)
Radio ready antenna and speakers
Hinged window
Open ROPS

OTHER

(2) Rear flood lights
Tool box

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

LOADER

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

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

TIRES

365/80 R20 STP9

COUNTERWEIGHT

320 lb (145 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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