

### 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 <sup>3</sup> (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	54 (41.0 kW) @ 2300 rpm
Net	50 (38.0 kW) @ 2300 rpm
Peak torque @ 1400 rpm	
Gross	163 lb-ft (221 N·m)
Net	160 lb-ft (217 N·m)
Torque rise @ 2000 rpm	31%

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

### DRIVETRAIN

Transmission	Hydrostatic transmission
Pump relief	6,743 psi (46 500 kPa)
Pump flow	23.3 gpm (88 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/335/80 R18 tires	
	Forward                      Reverse
Low	0-3.1 (0-5)                      0-3.1 (0-5)
High	0-12.4 (0-20)                      0-12.4 (0-20)

NOTE: Travel speeds at full engine throttle.

### ELECTRICAL

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

### 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

### HYDRAULICS

Pump (steering/ implement)	
	Open-centered pressure/flow compensated
Fixed gear type	
	13.7 gpm @ 2300 rpm @ 3625 psi (52 L/min @ 2300 rpm @ 25 000 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

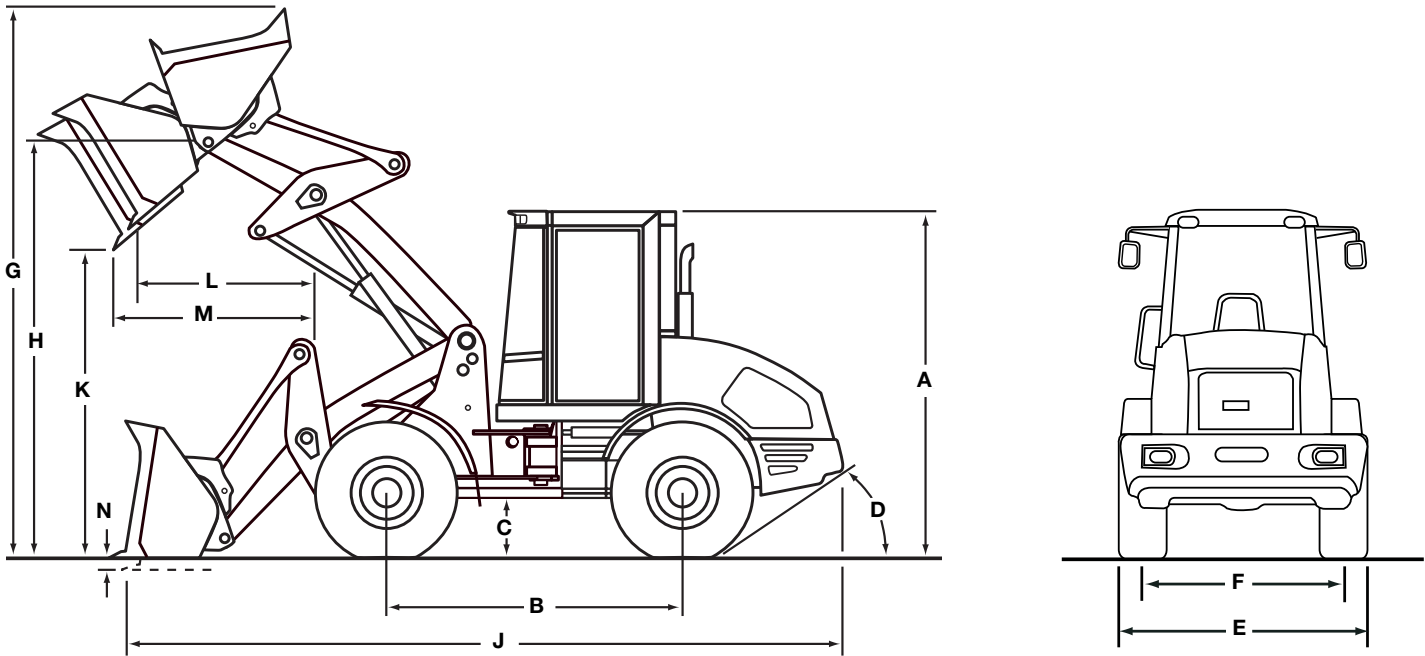
Lift cylinder	
Bore diameter	3.5 in (90 mm)
Rod diameter	2.0 in (50 mm)
Stroke	28.4 in (721 mm)
Dump cylinder	
Bore diameter	3.5 in (90 mm)
Rod diameter	2.0 in (50 mm)
Stroke	18.0 in (459 mm)

### SERVICE CAPACITIES

Fuel tank	26.0 gal (100 L)
Hydraulic system	
Total	14.8 gal (56 L)
Reservoir	10.5 gal (40 L)
Front and rear axle	
Total axle (each)	2 gal (7.5 L)
Engine oil w/filter	2.3 gal (8.5 L)
Cooling	4.4 gal (16.5 L)

### OPERATING WEIGHTS

<b>Versa-Boom</b>	
Unit equipped with ROPS cab with heater, standard counterweight, 335/80 R18 Dunlop tires, front and rear fenders, 0.9 yd <sup>3</sup> (0.7 m <sup>3</sup> ) general purpose loader bucket w/edge, full fuel, 165 lb (75 kg) operator	10,173 lb (4615 kg)
With optional counterweight	10,459 lb (4745 kg)



**DIMENSIONS**

Height to –	
A. Top of ROPS cab	106.7 in (2711 mm)
B. Wheelbase	85.9 in (2182 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	73.1 in (1857 mm)
F. Centerline tread	58.3 in (1480 mm)
Turning radius* – outside	
151.4 in (3847 mm)	
Turning angle –	
From center	41°
Total angle	82°
Rear axle oscillation, total	
24°	

NOTE: \*Dimensions taken with 335/80 R18 tires. Additional dimensions on pages 3 & 4.

## PERFORMANCE DATA

<b>21E Versa-Boom</b>	<b>1.0 yd<sup>3</sup> GP (0.8 m<sup>3</sup>) Bucket w/Bolt-on Edge</b>	<b>0.9 yd<sup>3</sup> GP (0.7 m<sup>3</sup>) Bucket w/Bolt-on Edge</b>
SAE bucket capacity – struck	0.92 yd <sup>3</sup> (0.70 m <sup>3</sup> )	0.73 yd <sup>3</sup> (0.56 m <sup>3</sup> )
Heaped	1.05 yd <sup>3</sup> (0.80 m <sup>3</sup> )	0.92 yd <sup>3</sup> (0.70 m <sup>3</sup> )
Bucket width – outside	74.8 in (1900 mm)	74.8 in (1900 mm)
Bucket weight	765 lb (347 kg)	731 lb (331 kg)
<b>G.</b> Operating height – fully raised w/spillguard	165.6 in (4207 mm)	163.8 in (4160 mm)
<b>H.</b> Hinge pin height – fully raised	127.7 in (3243 mm)	127.7 in (3243 mm)
<b>J.</b> Overall length – bucket level on ground	211.8 in (5380 mm)	209.8 in (5330 mm)
Dump angle – fully raised	45°	45°
<b>K.</b> Dump height – fully raised, 45° dump	98.2 in (2494 mm)	99.6 in (2529 mm)
<b>L.</b> Bucket reach – fully raised, 45° dump	33.9 in (860 mm)	32.5 in (825 mm)
<b>M.</b> Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	46.5 in (1182 mm)	46.1 in (1172 mm)
<b>N.</b> Dig depth	3.6 in (92 mm)	3.6 in (92 mm)
Operating load – ISO	3,228 lb (1464 kg)	3,245 lb (1472 kg)
Maximum material density – ISO	3,084 lb/yd <sup>3</sup> (1830 kg/m <sup>3</sup> )	3,543 lb/yd <sup>3</sup> (2102 kg/m <sup>3</sup> )
Tipping load – ISO		
Straight	7,344 lb (3331 kg)	7,377 lb (3346 kg)
Straight w/optional counterweight	7,831 lb (3552 kg)	7,864 lb (3567 kg)
40° turn	6,457 lb (2929 kg)	6,489 lb (2944 kg)
40° turn w/optional counterweight	6,944 lb (3116 kg)	6,976 lb (3131 kg)
Lift capacity –		
Full height	4,729 lb (2145 kg)	4,767 lb (2162 kg)
Maximum reach	6,522 lb (2958 kg)	6,553 lb (2973 kg)
Ground	9,368 lb (4249 kg)	9,397 lb (4262 kg)
Breakout force w/tilt cylinder	7,801 lb (3,538 kg)	8,386 lb (3804 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	111°	109°
Loader clearance circle	341.3 in (8669 mm)	340.2 in (8641 mm)

### 47.2 in (1200 mm) Forks

Fork weight	816 lb (370 kg)
Operating load – level ground	3,619 lb (1642 kg)
Tipping load – straight	5,176 lb (2348 kg)
Tipping load – 40° turn	4,524 lb (2052 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

## STANDARD EQUIPMENT

### ENGINE

Case 432T/M3  
Fuel filter w/water trap  
Dual element air cleaner

### LOADER

See page 1

### DRIVETRAIN

4-wheel drive  
Hydrostatic transmission  
Single lever electronic speed shift control,  
F/N/R switch in loader control handle

## OPTIONAL EQUIPMENT

### OPERATOR'S COMPARTMENT

Rotating beacon  
Limited slip option, rear axle  
Air conditioning  
Radio ready antenna and speakers  
Open ROPS

### OTHER

(2) Rear flood lights  
Tool box

### INDICATOR LIGHTS (CONTINUED)

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.

### DRIVETRAIN (CONTINUED)

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

### LOADER

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

## 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

### 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

335/80 R18 SPT9  
335/80 R20 VUT

### COUNTERWEIGHT

286 lb. (130 kg)  
Mounts on rear chassis

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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