

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/ internal 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	74 hp (55 kW) @ 2500 rpm
Net	70 hp (52 kW) @ 2500 rpm
Peak torque	203 lb-ft (275 Nm) @ 1400 rpm

ENGINE COOLING

Radiator –	
Core type	All aluminum
Core size area	0.26 m ²
Rows of tubes	43
Cap pressure	16 +/-2 psi
Fan –	
Diameter	18.9 in (480 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 – Electro Hydraulic	
Pump to engine ratio	1:1
Displacement	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 bar (psi)	5,220 psi (360 bar)
Control	Electro Hydraulic
Drive motors	
Max. displacement	3.1 cu in (50.9 cc)
Displacement - optional	
high speed	2.0 cu in (33.1 cc)
Speed @ high idle engine rpm	
(100% eff. at rated engine rpm)	105
Speed @ optional high speed rpm	161
Torque @ max. displacement and relief pressure (calculated, 345 bar)	4,635 lb-ft (6283 N-m)
Travel speed –	
Low range	5.8 mph
High range (optional)	8.3 mph
Final drive	Planetary reduction
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 – cc (cu in)	
Standard Aux.	2.08 in (34.1 cc)
High Flow Aux.	.76 in (12.5 cc)
Pump flow @ rated engine rpm	
@ 100 % efficiency	22.5 gpm (85 L/min)
Optional high flow @ rated engine rpm	
@ 100 % efficiency	8.2 gpm (31 L/min)
Loader control valve –	
Type	3 Spool / Open Center / Series
Relief pressure	3000 psi (207 bar)
Port relief pressures –	
Loader raise	3263 psi (225 bar)
Bucket dump	3481 psi, (240 bar)
Bucket curl	3336 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	9
Area	137.5 sq in (887 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 31.7 in (805.0 mm)
- Closed length 45.6 in (1158.0 mm)

Bucket cylinders –

- Bore diameter 2.75 in (69.9 mm)
- Rod diameter 1.375 in (34.9 mm)
- Stroke 16.14 in (410.0 mm)
- Closed length 24 in (610.0 mm)

WEIGHTS

Operating weight 8,200 lb (3720 kg)

Shipping weight 7,900 lb (3585 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 20 gal (75.5 L)

Engine oil with filter 10 qt (9.5 L)

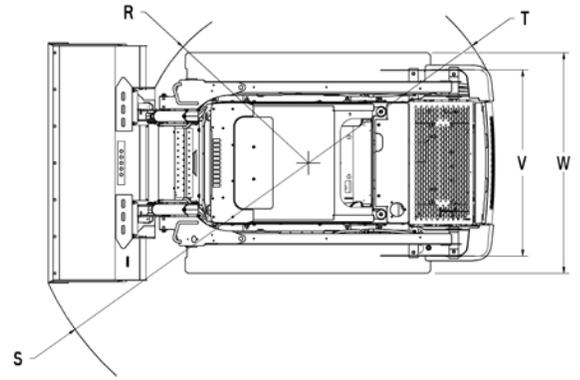
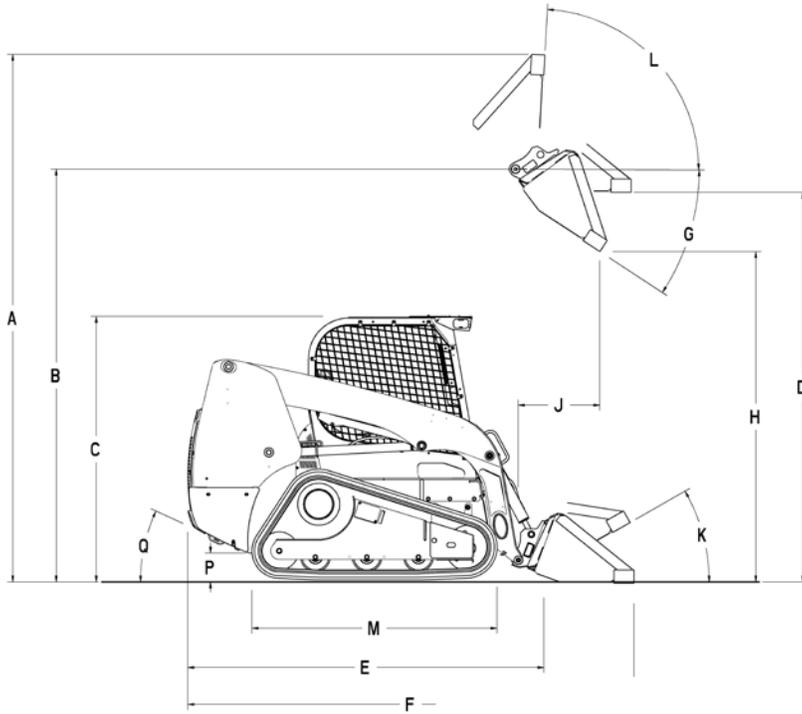
Hydraulic system –

- Reservoir 5.3 gal (20 L)
- Total 8.5 gal (32.2 L)

TRACK SELECTION

	Area sq in (cm ²)	Ground pressure psi (kPa)	Width to Outside of track in (m)
12.6 in (320 mm)	1,424 (9187)	5.7 (39.3)	65.9 (1.7 m)

DIMENSIONS



A. Overall operating height - in (m) –	
with foundry/excavating bucket short lip	153.4 (3.90)
with low profile/standard lip bucket	158.3 (4.0)
with low profile extended / long lip bucket	163.2 (4.1)
Height to - in (m) –	
B. Bucket hinge pin	123 (3.12)
C. Top of ROPS	78.7 (2.00)
D. Bottom of level bucket, fully raised	116.1 (2.9)
Overall length - in (m) –	
E. without attachment with coupler	105.1 (2.67)
F. with foundry excavation bucket on ground	129.6 (3.3)
with low profile bucket	133.7 (3.4)
with low profile extended bucket	138.8 (3.5)
G. Dump angle	39.6°
H. Dump height - in (m) –	
with foundry/excavating bucket short lip	98.2 (2.50)
with low profile/standard lip bucket	95.6 (2.4)
J. Dump reach (max. height) - in (m)	22.3 (0.568)
Maximum attachment rollback –	
K. Bucket on ground	31°
L. Bucket at full height	98.6°
M. Track on ground - in (m)	56.7 (1.44)
P. Ground clearance (bottom of belly pan) - in (m)	8 (0.203)
Q. Angle of departure	32°
Clearance circle - in (m) –	
R. without bucket	50.7 (1.3)
S. with 72-inch (1.8 m) foundry bucket in carry position	79.9 (2.0)
with 72-inch (1.8 m) low profile bucket on ground	83.1 (2.1)
with 72-inch (1.8 m) extended low profile on ground	87.7 (2.2)
T. Clearance circle rear - in (m)	62.9 (1.6)
V. Track width	53.4 (1.4)
W. Over the track width	65.9 (1.7)

PERFORMANCE SPECS

Rated operating load –	
50%	2,700 lb (1225 kg)
35%	1,890 lb (859 kg)
Tipping load	5,400 (2449 kg)
Breakout forces –	
Lift cylinder	6,125 lb (27.3 kN)
Bucket cylinder	7,145 lb (31.8 kN)
Cycle times (seconds) –	
Raise	3.7
Lower	1.9
Dump	2.3
Roll back	1.7

OPTIONAL BUCKETS

Type	Width inch (m)	Weight lb (kg)	Heaped Capacity ft ³ (m ³)
Dirt & Foundry	72	390	16.7
	(1.8)	(177)	(0.47)
	78	435	18.4
	(2.0)	(197)	(0.52)
Low Profile	72	425	14.5
	(1.8)	(193)	(0.41)
Low Profile Extended	72	477	17.1
	(1.8)	(216)	(0.48)
	78	502	18.6
	(2.0)	(228)	(0.53)
	84	607	20.2
	(2.1)	(275)	(0.57)
Light Material	72	434	23.7
	(1.8)	(197)	(0.67)
	84	497	27.9
	(2.1)	(225)	(0.79)
Manure & Slurry	72	465	19.1
	(1.8)	(211)	(0.54)
	84	535	22.5
	(2.1)	(243)	(0.64)
Heavy Duty	72	501	14.6
	(1.8)	(227)	(0.41)
	78	527	15.9
	(2.0)	(239)	(0.45)

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
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

Switchable EH controls
Planetary reduction final drive
2 speed ground drive
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

Deluxe instrument panel
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

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
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

Road lights
Rotating beacon
Lift hooks
Special paint
Language decals
Buckets – see page 3
Bolt-on bucket cutting edges



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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