

ENGINE

Model	Case 432T/M3 diesel*, Tier III certified
Type	4-stroke, turbocharged
Cylinders	4
Bore/Stroke	3.9 in x 4.1 in (99 mm x 104 mm)
Displacement	195 in ³ (3.2 L)
Fuel injection	Direct
Fuel	#2 Diesel
Fuel filter	In-line strainer
Air intake	Cross-flow
Cooling	Liquid
Engine speeds (rpm)	
High idle - no load	2675±75
Rated - full load	2500
Low idle	1075 ±75
Horsepower per SAE J1349	
Gross	82 (61 kW) @ 2500 rpm
Net	77 (57 kW) @ 2500 rpm
Maximum torque @ 1400 rpm	
Gross	229 lb-ft (310 N·m)

ENGINE COOLING

Radiator	
Core type	Square weave serpentine
Core size area	377 in ² (.243 m ²)
Rows of tubes	4
Cap pressure	14 psi (97 kPa)
Fan	
Diameter	18.9 in (480 mm)
Ratio	1.1:1
Water pump	
Style	Centrifugal
Flow	29 gpm (110 L/min)
Engine lubrication	
Pump	Deep sump with plate cooler and pressurized under-piston nozzles
Pump operating angle ratings	
Side-to-side	Rated 35°
Fore and aft	Rated 35°
Oil filtration	Replaceable, full-flow cartridge

*Manufactured for Case by Iveco.

POWERTRAIN

Drive pump	
Tandem, axial piston hydrostatic transmission w/integral charge pump driven directly off engine flywheel	
Pump to engine ratio	1:1
Displacement	0 to 2.81 in ³ (46 cc)
Pump flow @ high idle engine rpm	32.5 gpm (123 L/min)
Flow	Bidirectional
Charge pressure	360 psi (24 bar)
System relief	5,220 psi (360 bar)
Controls	Pilot
Drive motors	Fixed displacement radial piston
Maximum displacement	18.9 in ³ (310 cc)
Speed @ high idle rpm & max. displacement	398 rpm
Torque @ max. displacement & relief pressure	1,308 lb.ft (1774 N·m)
Travel speeds – mph (km/h)	
Low range	5.1 (8.2)
High range	8.0 (12.8)
Final drive	Single-reduction planetary

Undercarriage	
Torque @ max displacement and relief pressure	3,103 lb-ft (4208 N·m)
Track adjustment	Hydraulic
Frame	Rigid
Length of track on ground	64.5 in (1638 mm)
Track rollers per side	4
Front idler diameter	13.7 in (350 mm)
Rear Idler diameter	11.4 in (290 mm)
Bottom Rollers	
Outer flange diameter	7.8 in (200 mm)
Center flange diameter	8.4 in (214 mm)
Sprocket Teeth	
Number	17
Width	1.8 in (46 mm)
Track rollers and idlers sealed with duo cone face seals and permanently lubricated bushings	

Parking brakes	
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 pump
Displacement	2.2 in ³ /rev (36 cc)
Pump flow @ rated engine rpm	
Total	23.8 gpm (90.1 L/min)
Optional high flow @ rated engine rpm	33.2 gpm (125.8 L/min)
Loader control valve	
3-spool open center series with power beyond port	
Relief pressure	3,050 psi (210 bar)
Port relief pressures	
Loader Raise	3120 psi (215 bar)
Bucket Dump	3800 psi (260 bar)
Bucket Curl	3350 psi (230 bar)
Hydraulic lines	
Tubing	37° JIC flare
Loop hoses	SAE 100 R12
Hydraulic oil cooler	
Core type	Four row in-line
Hydraulic filter	
6 micron Spin-on replaceable element on the return line w/warning indicator	

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	2.7 kW
Battery	
12-volt low-maintenance 1125 cold-cranking amps @ 0° F (-18° C)	

OPERATOR ENVIRONMENT

No-tool tilt ROPS/FOPS canopy w/side screens
Rear window w/escape provision
Vinyl seat
Seat presence switch
2 in (51 mm) retractable seat belt
Restraint bar w/integral armrests
Two adjustable, hands-only control levers
Hand and foot throttles
Loader control lockout system
In-cab loader lock
Front and rear halogen floodlights
Floor cleanout panel

CYLINDERS

Lift cylinder	
Bore diameter	2.75 in (70 mm)
Rod diameter	1.75 in (44.4 mm)
Stroke	41.3 in (1049 mm)
Closed length	53.5 in (1361 mm)
Bucket cylinder	
Bore diameter	2.75 in (70 mm)
Rod diameter	1.374 in (35 mm)
Stroke	20.67 in (525 mm)
Closed length	31.5 in (800 mm)

OPERATING WEIGHTS

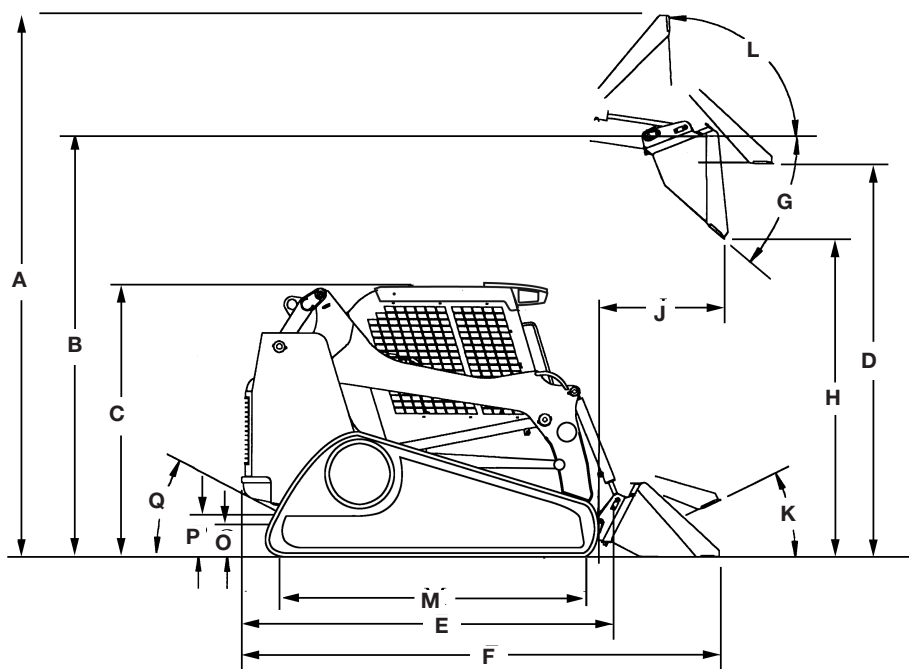
Unit equipped with 17.7 in (450 mm) track, 84 in (2.13 m) long lip bucket, mechanical attachment coupler, 165 lb (75 kg) operator and full fuel tank	
	10,200 lb (9385 kg)
Shipping weight	9,330 lb (4232 kg)
Add-on weights	
Side cab glass	+70 lb (32 kg)
Glass door w/wiper	+77 lb (35 kg)
Heater	+60 lb (27 kg)
Suspension seat	+10 lb (4.5 kg)
Hydraulic attachment coupler	+38 lb (17 kg)

SERVICE CAPACITIES

Fuel tank	17.3 gal (65.5 L)
Engine oil w/filter	9 qt (8.5 L)
Engine cooling system	12 qt (11.4 L)
Hydraulic system	
Reservoir	5.7 gal (21.7 L)
Total	11 gal (41.6 L)
Chain tanks (per side)	8 qt (7.6 L)

TRACK SELECTION

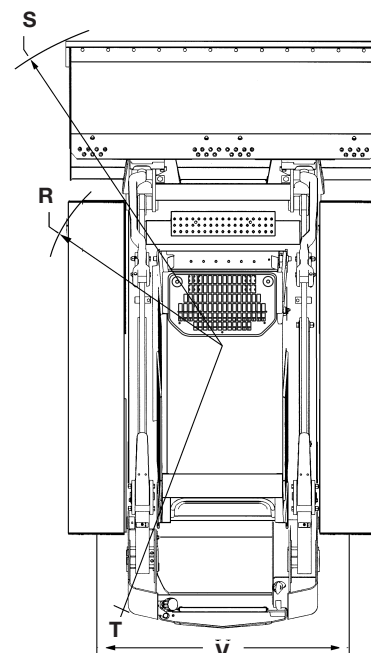
	Area in ² (cm ²)	Ground Pressure psi (kPa)	Width to Outside of Track in (mm)
17.7 in (450 mm)	2,293 (13 776)	4.3 (27.6)	83.1 (2112)
15.7 in (400 mm)	2,038 (13 120)	4.8 (31.1)	81.3 (2065)



DIMENSIONS*

A.	Overall operating height	
	Dirt bucket	159.1 (4.04)
	Height to	
B.	Bucket hinge pin	122.4 in (3.11 m)
C.	Top of rollover protection structure	83.2 in (2.11 m)
D.	Bottom of level bucket, loader arm fully raised	114.3 in (2.90 m)
	Overall length	
E.	w/o attachment w/coupler	104.5 in (2.65 m)
F.	w/dirt bucket on ground	135.5 in (3.44 m)
G.	Dump angle @ full height	51°
H.	Dump height – loader arm fully raised	
	Dirt bucket	87.7 in (2.23 m)
	Light material bucket	85 in (2.16 m)
J.	Dump reach – loader arm fully raised	
	Dirt bucket	40.4 (1.03 m)
	Maximum attachment rollback	
K.	Bucket on ground	27°
L.	Bucket at full height	86°
M.	Length of track on ground	64.5 in (1.64 m)
	Ground clearance	
O.	Bottom of chain case	9.3 in (236 mm)
P.	Bottom of belly pan	11.1 in (283 mm)
Q.	Angle of departure	47°
	Clearance circle front	
R.	less bucket	59.9 in (1.52 m)
S.	w/84 in (2.13 m) bucket in carry position	92.1 in (2.34 m)
T.	Clearance circle rear	55.2 in (1.4 m)
V.	Track gauge, centerline to centerline	65.4 in (1.66 m)

NOTE: *Equipped with 17.7 in (450 mm) track.



PERFORMANCE SPECS

Operating load	
@35%	2,310 lb (1048 kg)
@50%	3,300 lb (1497 kg)
Tipping load	6,600 lb (2994 kg)
Breakout force	
Lift cylinder	4,200 lbf (18 683 N)
Bucket cylinder	6,700 lbf (29 803 N)
Dig depth w/bucket flat	0.1 in (3 mm)
Cycle time – seconds	
Raise	4.2
Lower	2.7
Dump (stop-to-stop)	1.6
Rollback	2.0

NOTE: SAE rated lift capacities.

OPTIONAL BUCKETS

Type	Width in (m)	Weight lb (kg)	Heaped Capacity ft³ (m³)
Dirt	84 (2.1)	620 (281)	19.4 (.55)
HD Dirt	84 (2.1)	676 (307)	19.4 (.55)
Utility	84 (2.1)	674 (306)	25.7 (.73)
HD Utility	84 (2.1)	758 (344)	25.7 (.73)

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

Heavy lift-and-reach linkage
Mechanical attachment coupler

ENGINE

Case/Iveco 432T/M3 diesel
Tier III certified
No maintenance belt
Battery disconnect switch w/jumpstart terminals
Side-by-side radiator and oil cooler
Grid heater
Integral engine oil cooling
Fuel filter w/water trap
Dual element air cleaner
95 amp alternator
1125 CCA 12-volt battery

POWERTRAIN

Pilot controls
SAHR disc parking brakes
2 speed ground drive

HYDRAULICS

Auxiliary hydraulics 3,050 psi
(207 bar) – 23.8 gpm (33.2 L/min)
Auxiliary interlock system
Loader arm mounted ISO flat face hydraulic quick connectors
Auxiliary function lockout override
Loader lift lockout override
3-spool loader control valve
Heavy-duty oil cooler
Loader arm float position

OTHER

Integral bumper counterweight
Lockable service access hood
Single-point daily servicing
Halogen lights, 2-front, 2 side, 1-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 (deluxe)
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

OTHER

Deluxe instrument panel
Road lights
Rotating beacon
Lift hooks
Special paint
Language decals
Buckets – see page 3
Bolt-on bucket cutting edges
42 in (1.07 m) and 48 in (1.22 m) pallet forks
Lift cylinder guards
Heavy-duty rear door

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: Case Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Construction Equipment Inc. does not warrant the safety or reliability of attachments from other manufacturers.

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