

## ENGINE

Model	Case 445T/M3 diesel, Tier III certified	
Type	4-stroke, turbocharged	
Cylinders	4	
Bore/Stroke	4.1 in x 5.2 in (104 mm x 132 mm)	
Displacement	274 in <sup>3</sup> (4.5 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	2415±60	
Rated - full load	2300	
Low idle	1075±75	
Horsepower per SAE J1349		
Gross	90 (67 kW) @ 2300 rpm	
Net	83 (62 kW) @ 2300 rpm	
Peak torque		
@ 1300 rpm	288 lb-ft (390 N-m)	

## ENGINE COOLING

Radiator		
Core type	Square wave serpentine	
Core size area	377 in <sup>2</sup> (.243 m <sup>2</sup> )	
Rows of tubes	4	
Cap pressure	14 psi (97 kPa)	
Fan		
Diameter	20.4 in (518 mm)	
Ratio	1.1:1	
Water pump		
Style	Centrifugal	
Flow	52.8 gpm (200 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	

## POWERTRAIN

Drive pump	Tandem, axial piston hydrostatic transmission with integral charge pump driven directly off engine flywheel	
Pump to engine ratio	1:1	
Displacement	0 to 2.81 in <sup>3</sup> (46 cc)	
Pump flow @ high idle engine rpm	29.4 gpm (111 L/min)	
Flow	Bi-directional	
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 <sup>3</sup> (310 cc)	
Speed @ rated engine rpm @ max displacement	359 rpm	
Torque @ max displacement and 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		
Max 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	
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 <sup>3</sup> /rev (36 cc)	
Pump flow @ rated engine rpm		
Total	21.9 gpm (83 L/min)	
Optional high flow @ rated engine rpm		
Total	41.8 gpm (158 L/min)	
Loader control valve	3-spool open-center series with power beyond port	
Relief pressure	3,050 psi (210 bar)	
Port relief pressures		
#1B Raise	3800 psi (260 bar)	
#2A Rollback	3800 psi (260 bar)	
#2B Dump	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 with 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

OPERATOR'S COMPARTMENT	
ROPS/FOPS level 1 canopy w/side screens	
Tilt ROPS/FOPS	
Rear window w/emergency escape feature	
Instrument panels	
Suspension vinyl seat	
2 in (51 mm) retractable seat belt	
Hand & foot throttles	
Alarm package	
Headliner	
Top window	
Cup holder	
Power plug socket	
Foot rest	
Storage tray	
Low effort ergonomic hand controls	
Padded seat bar w/integral arm rests	
Loader control lockout system	
Electric parking brake control	
Floor cleanout panel	

## CYLINDERS

Lift cylinder	
Bore diameter	2.25 in (57.2 mm)
Rod diameter	1.75 in (44.4 mm)
Stroke	38.2 in (970 mm)
Closed length	52.0 in (1320 mm)
Bucket cylinder	
Bore diameter	2.5 in (63.5 mm)
Rod diameter	1.5 in (38.1 mm)
Stroke	23.2 in (590 mm)
Closed length	47.4 in (1204 mm)

## OPERATING WEIGHTS

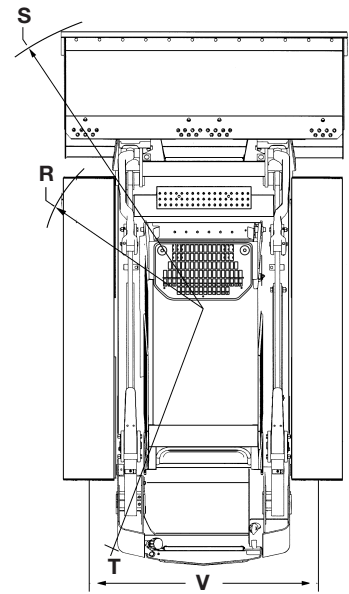
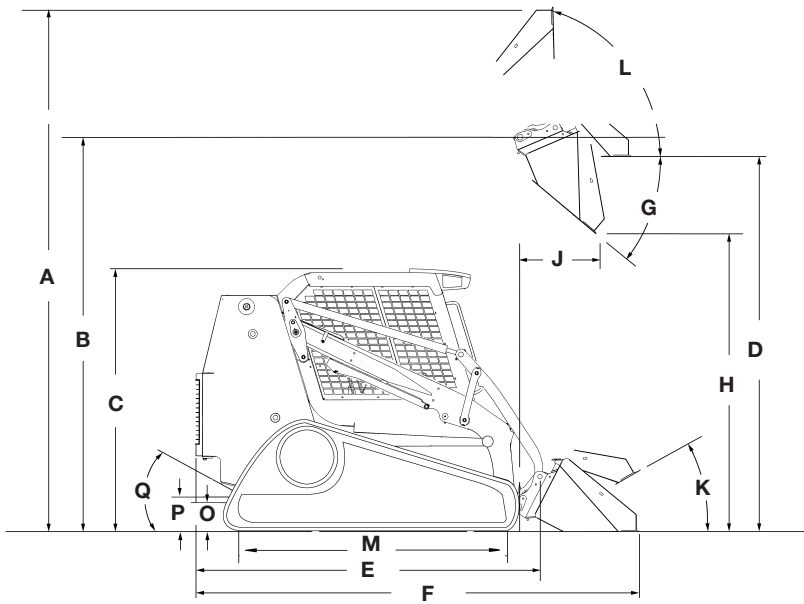
Unit equipped with 17.7 in (450 mm) track, 84 in (2.08 m) dirt bucket, mechanical attachment coupler, full fuel tank and 165 lb (75 kg) operator	
	10,925 lb (4955 kg)
Shipping weight	10,010 lb (4540 kg)
Add-on weights	
Side cab glass	+70 lb (32 kg)
Lexan® door	+70 lb (32 kg)
Glass door w/wiper	+77 lb (935 kg)
Heater	+60 lb (27 kg)
Suspension seat	+10 lb (4.5 kg)
High flow auxiliary hydraulics	269 lb (122 kg)
Hydraulic attachment coupler	+38 lb (17 kg)

## SERVICE CAPACITIES

Fuel tank	20.7 gal (78.3 L)
Engine oil w/filter	12.7 qt (12 L)
Engine cooling system	12 qt (11.4 L)
Hydraulic system	
Reservoir	6.5 gal (24.5 L)
Total	17.0 gal (64.3 L)

## TRACK SELECTION

	Area in <sup>2</sup> (cm <sup>2</sup> )	Ground Pressure psi (kPa)	Width to Outside of Track in (mm)
17.7 in (450 mm)	2,293 (13 776)	4.8 (33.1)	83.1 (2112)
15.7 in (400 mm)	2,038 (13 120)	5.4 (37.2)	81.3 (2065)



**DIMENSIONS\***

<b>A.</b>	Overall operating height	
	Dirt bucket	152.8 in (3.88 m)
	Height to	
<b>B.</b>	Bucket hinge pin	124.8 in (3.17 m)
<b>C.</b>	Top of rollover protective structure	83.5 in (2.12 m)
<b>D.</b>	Bottom of level bucket, loader arm fully raised	116.7 in (2.96 m)
	Overall length	
<b>E.</b>	w/o attachment w/coupler	110.0 in (2.79 m)
<b>F.</b>	w/dirt bucket on ground	140.7 in (3.57 m)
<b>G.</b>	Dump angle at maximum height	
	Dirt bucket	40°
<b>H.</b>	Dump height – loader arm fully raised	
	Dirt bucket	94.7 in (2.41 m)
<b>J.</b>	Dump reach – loader arm fully raised	
	Dirt bucket	30.0 in (0.76 m)
	Maximum attachment rollback	
<b>K.</b>	Bucket on ground	30°
<b>L.</b>	Bucket at full height	55°
<b>M.</b>	Track on ground	64.5 in (1.64 m)
	Ground clearance	
<b>O.</b>	Bottom of outer frame	9.6 in (244 mm)
<b>P.</b>	Bottom of belly pan	11.3 in (287 mm)
<b>Q.</b>	Angle of departure	39°
	Clearance circle front	
<b>R.</b>	less bucket	60.0 in (1.52 m)
<b>S.</b>	w/84 in (2.13 m) dirt bucket in carry position	92.2 in (2.34 m)
<b>T.</b>	Clearance circle rear	60.0 in (1.52 m)
<b>V.</b>	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%	2,700 lb (1225 kg)
@50%	3,857 lb (1750 kg)
Tipping load	7,714 lb (3499 kg)
Breakout force	
Lift	5,290 lbf (23 531 N)
Bucket	6,200 lbf (27 578 N)
Dig depth	
w/bucket flat	0.1 in (3 mm)
Cycle time	
Raise	3.5 seconds
Lower	2.2 seconds
Dump	2.2 seconds
Rollback	1.6 seconds

NOTE: SAE rated lift capacities.

**OPTIONAL BUCKETS**

Type	Width in (m)	Weight lb (kg)	Heaped Capacity ft <sup>3</sup> (m <sup>3</sup> )
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 feature  
Instrument panels  
Suspension vinyl seat  
2 in (51 mm) retractable seat belt  
Hand & foot throttles  
Alarm package  
Headliner  
Top window  
Cup holder  
Power plug socket  
Foot rest  
Storage tray  
Low effort ergonomic hand controls  
Padded seat bar w/integral arm rests  
Loader control lockout system  
Electric parking brake control  
Floor cleanout panel

### LOADER

Radial lift linkage  
Mechanical two-way self-leveling linkage  
Power Cycle bucket linkage  
Mechanical attachment coupler

### ENGINE

Case 445T/M3 diesel  
Tier III Certified  
Integral engine oil cooling  
Automatic belt tensioner  
Grid heater  
Battery disconnect and jumpstart terminals  
Fuel filter w/water trap  
Dual element air cleaner  
95 amp alternator  
1125 CCA 12-volt battery  
Side-by-side radiator and oil cooler

### POWERTRAIN

Hydrostatic  
Pilot controls  
SAHR disc parking brakes  
2 speed

### HYDRAULICS

Auxiliary hydraulics 3,050 psi  
(210 bar) - 21.9 gpm (83 L/min),  
Auxiliary interlock system  
Loader arm mounted ISO flat face hydraulic  
quick connectors  
Loader function lockout system  
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 flood  
(halogen)  
Rear tail lights  
Options harness  
Remote oil drain

## OPTIONAL EQUIPMENT

### OPERATOR'S COMPARTMENT

Deluxe cloth suspension seat w/heater and  
lumbar support  
3 in (76 mm) retractable seat belt  
Electric auxiliary hydraulic control  
Glass front door w/wiper & washer  
Sliding side windows  
Air conditioning  
Heater (deluxe)  
Demolition door  
Radio

### LOADER

Auxiliary front electric control  
Ride Control  
Hydraulic attachment coupler

### HYDRAULICS

Auxiliary high-flow 3,050 psi  
(210 bar) - 41.8 gpm (158 L/min)  
Attachment case drain plumbing  
Electronically controlled auxiliary hydraulics  
Second auxiliary hydraulics

### ENGINE

Coolant block heater

### OTHER

Rotating beacon  
Lift hooks  
Deluxe instrument panels  
Drawbar  
Road lights  
Heavy-duty rear door  
Special paint  
Language decals  
Buckets - see page 3  
15.5 inch tracks  
Bolt-on spill guards  
Bolt-on cutting edges  
42 in (1.07 m)/48 in (1.22 m) pallet forks

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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