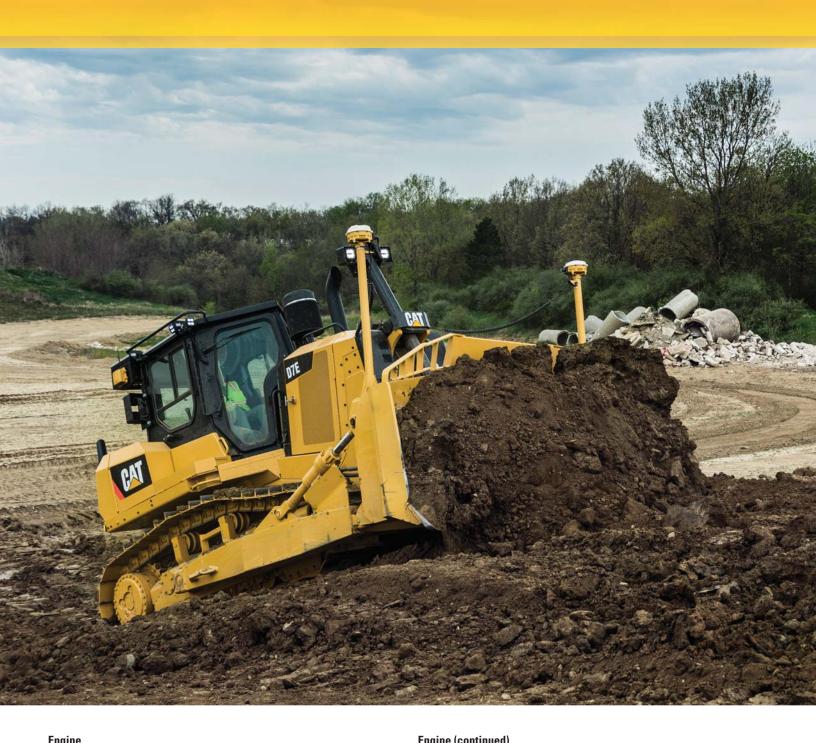
D7ETrack-Type Tractor





Engine		
Engine Model	Cat® C9.3 AC	CERT™
Emissions	U.S. EPA Tie Japan 2014	r 4 Final/EU Stage IV/ (Tier 4 Final)
Net Power (Rated)		
ISO 9249/SAE J1349	178 kW	238 hp
ISO 9249/SAE J1349 (DIN)		241 hp

Engine (continuea)		
Net Power (Maximum)		
ISO 9249	187 kW	251 hp
ISO 9249 (DIN)		254 hp
Weights		
Operating Weight – STD SU	26 055 kg	57,441 lb
Operating Weight – LGP S	28 525 kg	62,886 lb

D7E Track-Type Tractor Specifications

Engine			
Engine Model	Cat C9.3 ACERT		
Global Emissions	Tier 4 Final/Stage IV/ Japan 2014 (Tier 4 Fina		
Engine Power (Maximum)			
SAE J1995	201 kW	270 hp	
ISO 14396	198 kW	266 hp	
ISO 14396 (DIN)		270 hp	
Net Power (Rated)			
ISO 9249/SAE J1349	178 kW	238 hp	
ISO 9249/SAE J1349 (DIN)		241 hp	
Net Power (Maximum)			
ISO 9249/SAE J1349	187 kW	251 hp	
ISO 9249/SAE J1349 (DIN)		254 hp	
Bore	115 mm	4.5 in	
Stroke	149 mm	5.9 in	
Displacement	9.3 L	567 in ³	

- Maximum Engine Power at 1,600 rpm, Rated Net Power at 1,700 rpm, Maximum Net Power at 1,450 rpm.
- Net power advertised is the power available at the flywheel when engine is equipped with fan, air cleaner, and muffler.
- No derating required up to 3200 m (10,500 ft) altitude, beyond 3200 m (10,500 ft) automatic derating occurs.
- All non road Tier 4 Interim and Final, Stage IIIB and IV, and Japan 2011 and 2014 (Tier 4 Interim and Tier 4 Final) diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm (mg/kg) sulfur or less. Biodiesel blends up to B20 (20% blend by volume) are acceptable when blended with 15 ppm (mg/kg) sulfur or less ULSD. B20 should meet ASTM D7467 specification (biodiesel blend stock should meet Cat biodiesel spec, ASTM D6751 or EN 14214). Cat DEO-ULSTM or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specification are required. Consult your OMM for further machine specific fuel recommendations.
- DEF used in Cat Selective Catalytic Reduction (SCR) systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241.

Service Refill Capacities		
Fuel Tank	409 L	108 gal
DEF Tank	17.5 L	4.6 gal
Cooling System	87 L	22.5 gal
Engine Crankcase	30 L	8 gal
Power Train	60 L	16 gal
Final Drives (each)	28 L	7 gal
Final Drive (LGP each)	34 L	9 gal
Pivot Shaft Compartment	7 L	1.8 gal
Hydraulic Tank	76 L	20 gal
Weights		
Shipping Weight	21 955 kg	48,402 lb
Operating Weight – STD SU	26 055 kg	57,441 lb
Operating Weight – LGP S	28 525 kg	62,886 lb
Shipping Weight – LGP	24 335 kg	53,649 lb

- Shipping Weight includes lubricants, coolant, ROPS/FOPS cab, standard track and 10% fuel.
- Operating Weight includes blade, lubricants, coolant, full fuel tank, standard track, ROPS/FOPS cab, drawbar and operator.

Hydraulic Controls – Pump		
Pump Output – Steering	312 L/min	82.4 gal/min
Pump Output – Implement	200 L/min	52.8 gal/min
Lift Cylinder Flow	200 L/min	52.8 gal/min
Ripper Cylinder Flow	200 L/min	52.8 gal/min
Pump Type	Piston, Varia Displacemen	
Tilt Cylinder Flow – Head End Flow	93 L/min	24.6 gal/min
Tilt Cylinder Flow – Rod End Flow	66 L/min	17.4 gal/min

Hydraulic Controls – Main Relief Valve Pressure Setting – Steering 27 600 kPa 4,000 psi

- Rated Implement Pump Speed 2,000 rpm.
- Rated Steering Pump Speed 2,500 rpm.

Hydraulic Controls –	Maximum Operating	g Pressure
Bulldozer	27 600 kPa	4,000 psi
Tilt Cylinder	27 600 kPa	4,000 psi
Ripper (Lift)	27 600 kPa	4,000 psi
Ripper (Pitch)	27 600 kPa	4,000 psi
Steering	41 000 kPa	5,950 psi

D7E Track-Type Tractor Specifications

Type	Multi-Shan	k
Number of Pockets	3	
Overall Beam Width	2088 mm	82.2 in
Beam Cross Section	355 mm	14.0 in
Maximum Clearance Raised	588 mm	23.1 in
(under tip, pinned in bottom hole)		
Maximum Penetration	650 mm	25.6 in
Maximum Penetration Force	87.4 kN	19,639 lbi
Pryout Force	234.4 kN	52,695 lbf
Weight – with One Shank	1650 kg	3,572 lb
Each Additional Shank	150 kg	330 lb
Ramp Angle	26 Degrees	
Pocket Spacing	900 mm	35.4 in
Shank Gauge	1800 mm	70.9 in
Shank Section	72 mm ×	2.8 in ×
	228 mm	9.0 in
Winch		
Winch Model	PA90	
Weight*	1520 kg	3,350 lb
Oil Capacity	12 L	3.2 gal
Winch and Bracket Length	1115 mm	93.9 in
Winch Case Length	1110 mm	43.7 in
Winch Case Width	826 mm	32.5 in
Increased Tractor Length – STD	1032 mm	93.9 in
Increased Tractor Length – LGP	1032 mm	93.9 in
Drum Diameter	318 mm	12.5 in
Drum Width	226 mm	8.9 in
Flange Diameter	610 mm	24 in
Drum Capacity – 24 mm (1 in)	62 m	203 ft
Drum Capacity – 29 mm (1.13 in)	56 m	185 ft
Ferrule Size (O.D. × Length)	60 mm ×	2.38 in ×
	65 mm	2.56 in
Winch Drive	Hydraulic	
Control	Electronic/l	Hydraulic
Installed Weight	1520 kg	3,350 lb
Winch Length	1115 mm	43.9 in
Overall Width	1090 mm	43 in
Throat Clearance	218 mm	8.6 in
Rope Diameter (recommended)	25 mm	1 in
Cable Ferrule Size (O.D. × Length)	60 mm ×	2.38 in ×
	(E	256.

*Basic winch weight, n	nounting arrangement,	hydraulic	and electrical
system weight.			

65 mm

400.3 kN

21 m/min

253.5 kN

35 m/min

2.56 in

90,000 lbf

70 ft/min

57,000 lbf

116 ft/min

Standards	
ROPS/FOPS	 Rollover Protective Structure (ROPS) meets the following criteria: ISO 3471:2008 Falling Object Protective Structure (FOPS) meets the following criteria: ISO 3449:2005 Level II
Brakes	 Crawler Machine Brake Requirements meets the following criteria: ISO 10265:2008
Cab	ANSI/SAE J1166 OCT98

- The declared dynamic operator sound pressure level is 75 dB(A) when "ISO 6396:2008" is used to measure the value for an enclosed cab. The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The cab was properly installed and maintained. The measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.
- Hearing protection may be needed when the machine is operated
 with an open operator station for extended periods or in a noisy
 environment. Hearing protection may be needed when the machine
 is operated with a cab that is not properly maintained, or when the
 doors and windows are open for extended periods or in a noisy
 environment.
- The declared exterior sound power level is 110 dB(A) when the value is measured according to the dynamic test procedures and the conditions that are specified in "ISO 6395:2008." The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.
- The whole body vibration information is available in HEGQ3339 "Driving Down Vibration" available from your local Cat dealer. The hand/arm vibration of this machine is below 2.5 m/sec² (8.2 ft/sec²).

Drive Train	
Type	Electric Drive
AC Compressor Nominal Input Voltage	320 Volts
AC Compressor Maximum Input Current	12 Amps
AC Generator and Propulsion Module Voltage	480 Volts

 Nominal current dependent on heat/humidity loading on HVAC unit.

Maximum Bare Drum Line Pull

Maximum Full Drum Line Pull

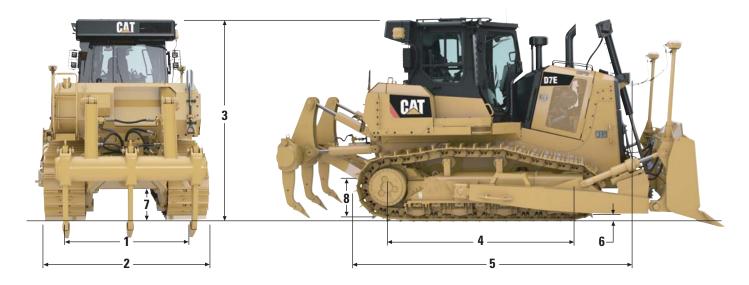
Maximum Full Drum Line Speed

Maximum Bare Drum Line Speed

D7E Track-Type Tractor Specifications

Dimensions

All dimensions are approximate



	S1	TD.	LG	iP .	
1 Track Gauge	1981 mm	78 in	2286 mm	90 in	
2 Width of Tractor over Trunnions	2880 mm	113 in	3423 mm	135 in	
Width of Tractor without Trunnions (std. shoes)	2591 mm	102 in	3200 mm	126 in	
3 Machine Height from Tip of Grouser					
Top of Stack	3365 mm	132 in	3365 mm	132 in	
Top of Standard Cab	3392 mm	134 in	3392 mm	134 in	
From Ground Face of Shoe	3322 mm	131 in	3322 mm	131 in	
4 Length of Track on Ground	3016 mm	119 in	3450 mm	136 in	
5 Length of Basic Tractor	4608 mm	181 in	4608 mm	181 in	
With the following attachments add to basic tractor length:					
Ripper (with tip at ground line)	1391 mm	55 in	N	/A	
Ripper (with tip fully raised)	1222 mm	48 in	N/A		
Winch	1032 mm	41 in	1032 mm	41 in	
Drawbar	270 mm	10.6 in	270 mm	10.6 in	
S Blade	977 mm	38 in	N	N/A	
SU Blade	1187 mm	47 in	N	N/A	
U Blade	1425 mm	56 in	N	/A	
A Blade – Straight	1230 mm	48 in	1230 mm	48 in	
A Blade – Angled 25°	964 mm	36 in	964 mm	36 in	
6 Height of Grouser	70 mm	2.75 in	70 mm	2.75 in	
7 Ground Clearance	472 mm	18.6 in	472 mm	18.6 in	
Ground Contact Area (std. shoes)	3.68 m ²	5,698 in ²	6.31 m ²	9,792 in ²	
Number of Shoes per Side	40 44		4		
Standard Shoe Width (Moderate Service)	610 mm	24 in	915 mm	36 in	
Ground Pressure	69.5 kPa	10.1 psi	44.3 kPa	6.4 psi	
Pitch	215.9 mm	8.5 in	215.9 mm	8.5 in	
Track Rollers/Side	7	7	8	3	
Number of Carrier Rollers	2	2	2	2	
8 Drawbar Height (grouser tip to center of clevis)	719 mm	28 in	719 mm	28 in	