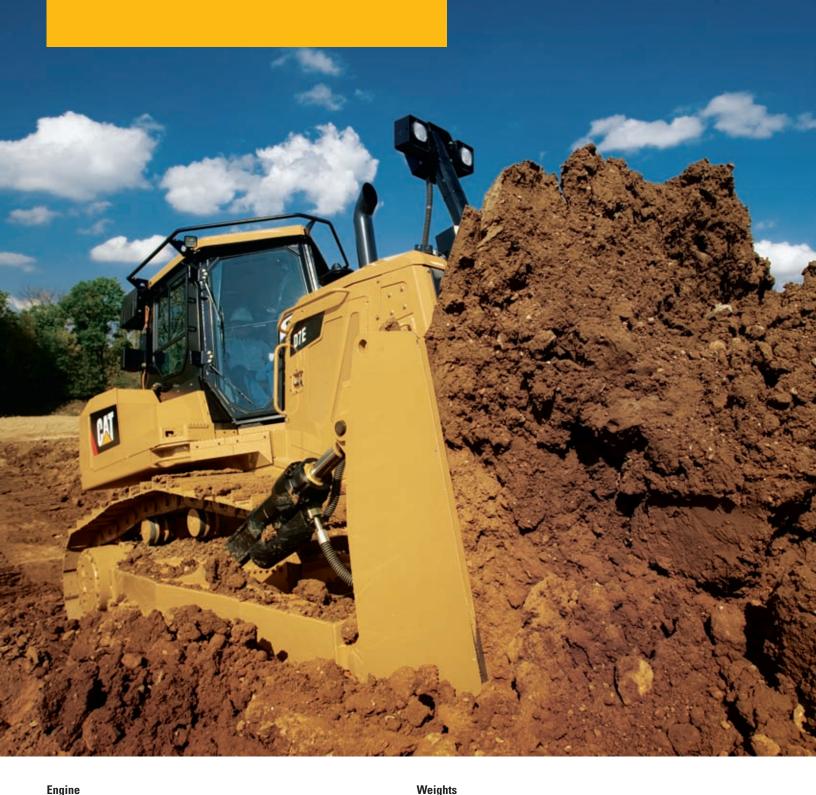
D7ETrack-Type Tractor

CATERPILLAR®



Engine		
Engine Model	Cat® C9.3 A	.CERT™
Net Power – SAE J1349	175 kW	235 hp
Drive Train		
Туре	Electric Dri	ve

Operating Weight – STD SU	25 700 kg	56,669 lb	
Operating Weight – LGP S	28 170 kg	62,115 lb	
Shipping Weight – STD	21 600 kg	47,619 lb	
Shipping Weight – LGP	23 980 kg	52,866 lb	

D7E Track-Type Tractor Specifications

Engine		
Engine Model	Cat® C9.3	ACERT™
Gross Power	188 kW	252 hp
Net Power – Caterpillar	175 kW	235 hp
Net Power – ISO 9249	175 kW	235 hp
Engine Power – ISO 14396	189 kW	253 hp
Net Power - SAE J1349	175 kW	235 hp
Net Power - EU 80/1269	175 kW	235 hp
Bore	115 mm	4.5 in
Stroke	149 mm	5.9 in
Displacement	9.3 L	567 in ³

- Ratings at 1700 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 2286 m (7,500 ft) altitude, beyond 2286 m (7,500 ft) automatic derating occurs.

Service Refill C	apacities	8
Fuel Tank	409 L	108 gal
Fuel Tank, High Capacity	476 L	126 gal
Cooling System	87 L	22.5 gal
Engine Crankcase	30 L	8 gal
Power Train	60 L	16 gal
Final Drives (each)	34 L	9 gal
Final Drive (LGP each)	42 L	11 gal
Pivot Shaft Compartment	7 L	1.8 gal
Hydraulic Tank	76 L	20 gal

Weights		
Shipping Weight	21 600 kg	47,619 lb
Operating Weight – STD SU	25 700 kg	56,669 lb
Operating Weight – LGP S	28 170 kg	62,115 lb
Shipping Weight - LGP	23 980 kg	52,866 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 Cont	rols – Pur	np
Pump Output – Steering	312 L/min	82.4 gal/min
Pump Output – Implement	200 L/min	52.8 gal/min
Lift Cylinder Flow	190 L/min	42 gal/min
Ripper Cylinder Flow	190 L/min	42 gal/min
Pump Type	Piston, Var Displaceme	
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 27 600 kPa 4,000 psi – Steering

Hydraulic Controls – Maximum Operating 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

Ripper		
Туре	Multi-Shan	ık
Number of Pockets	3	
Overall Beam Width	2088 mm	82.2 in
Beam Cross Section	355 mm	14.0 in
Maximum Clearance Raised (under tip, pinned in bottom hole)	588 mm	23.1 in
Maximum Penetration	650 mm	25.6 in
Maximum Penetration Force	8908 kg	19,639 lb
Pryout Force	23 902 kg	52,695 lb
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 × 22 2.8 in × 9.0	

D7E Track-Type Tractor Specifications

Winch		
Winch Model	PA90	
Weight*	1520 kg	3,350 lb
Oil Capacity	12 L	3.2 gal
Winch and Bracket	1115 mm	93.9 in
Length		
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	60 mm × 6	5 mm
(O.D. v. I 41.)	2.20 :- × 2	FC:
$\frac{\text{(O.D.} \times \text{Length)}}{\text{W. 1.D.}}$	$2.38 \text{ in} \times 2.$.56 in
Winch Drive	Hydraulic	
Winch Drive Control	Hydraulic Electronic/	Hydraulic
Winch Drive Control Installed Weight	Hydraulic Electronic/ 1520 kg	Hydraulic 3,350 lb
Winch Drive Control Installed Weight Winch Length	Hydraulic Electronic/ 1520 kg 1115 mm	Hydraulic 3,350 lb 43.9 in
Winch Drive Control Installed Weight Winch Length Overall Width	Hydraulic Electronic/ 1520 kg 1115 mm 1090 mm	Hydraulic 3,350 lb 43.9 in 43 in
Winch Drive Control Installed Weight Winch Length Overall Width Throat Clearance	Hydraulic Electronic/ 1520 kg 1115 mm	Hydraulic 3,350 lb 43.9 in
Winch Drive Control Installed Weight Winch Length Overall Width	Hydraulic Electronic/ 1520 kg 1115 mm 1090 mm	Hydraulic 3,350 lb 43.9 in 43 in
Winch Drive Control Installed Weight Winch Length Overall Width Throat Clearance Rope Diameter (recommended) Cable Ferrule Size	Hydraulic Electronic/ 1520 kg 1115 mm 1090 mm 218 mm 25 mm	Hydraulic 3,350 lb 43.9 in 43 in 8.6 in 1 in
Winch Drive Control Installed Weight Winch Length Overall Width Throat Clearance Rope Diameter (recommended)	Hydraulic Electronic/ 1520 kg 1115 mm 1090 mm 218 mm 25 mm 60 mm × 6 2.38 in × 2	Hydraulic 3,350 lb 43.9 in 43 in 8.6 in 1 in 5 mm .56 in
Winch Drive Control Installed Weight Winch Length Overall Width Throat Clearance Rope Diameter (recommended) Cable Ferrule Size	Hydraulic Electronic/ 1520 kg 1115 mm 1090 mm 218 mm 25 mm	Hydraulic 3,350 lb 43.9 in 43 in 8.6 in 1 in 5 mm .56 in
Winch Drive Control Installed Weight Winch Length Overall Width Throat Clearance Rope Diameter (recommended) Cable Ferrule Size (O.D. × Length) Maximum Bare	Hydraulic Electronic/ 1520 kg 1115 mm 1090 mm 218 mm 25 mm 60 mm × 6 2.38 in × 2	Hydraulic 3,350 lb 43.9 in 43 in 8.6 in 1 in 5 mm .56 in
Winch Drive Control Installed Weight Winch Length Overall Width Throat Clearance Rope Diameter (recommended) Cable Ferrule Size (O.D. × Length) Maximum Bare Drum Line Pull Maximum Bare	Hydraulic Electronic/ 1520 kg 1115 mm 1090 mm 218 mm 25 mm 60 mm × 6 2.38 in × 2 40 800 kg	Hydraulic 3,350 lb 43.9 in 43 in 8.6 in 1 in 5 mm 56 in 90,000 lb

^{*} Basic winch weight, mounting arrangement, hydraulic and electrical system weight.

Standards	
ROPS/FOPS	SAE 1040, ISO 3471-1994/ ISO 3449-2005, SAE 5231
Brakes	ISO 10265 2008
Cab	ANSI/SAE J1166 OCT 98

- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT 98 is 77 dB(A), and as measured by ISO 6396: 2008 is 73 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open cab (when not properly maintained or doors/windows open) for extended periods and noisy environment.
- The exterior sound pressure level for the standard machine measured at a distance of 15 meters according to the test procedures specified in SAE J88 APR 95, mid-gear-moving operation, is 80 dB(A).

Drive Train Type Electric Drive AC Compressor 320 volts Nominal Input Voltage AC Compressor 12 amps Maximum Input Current Electric Water Pump 320 volts System Nominal Input Voltage Electric Water Pump 5 amps System Nominal Input Current AC Generator and 480 volts

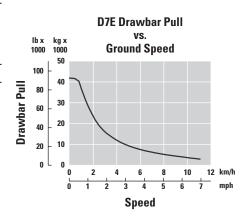
• Nominal current dependent on heat/ humidity loading on HVAC unit.

Propulsion Module

Voltage

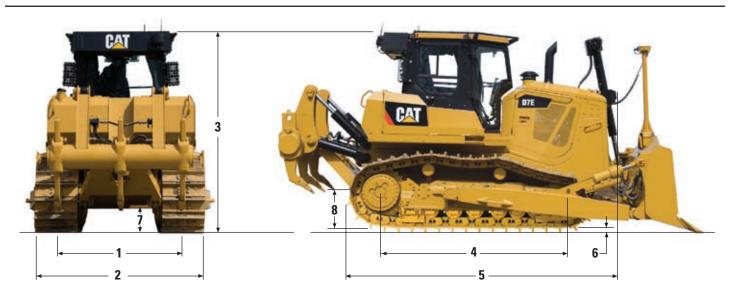
• Measured with water pump operating speed of 4400 rpm. Measurement is 1 amp with the water pump operating speed of 2100 rpm.

Drawbar Pull



Dimensions

All dimensions are approximate



	STI)	LGP	
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/2	4
Ripper (with tip fully raised)	1222 mm	48 in	N/2	4
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/A	
SU Blade	1187 mm	47 in	N/A	
U Blade	1425 mm	56 in	N/A	
A Blade	1230 mm	48 in	1230 mm	48 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
Number of Shoes per Side	40		44	
Standard Shoe Width and Type	610 mm	24 in	915 mm	36 in
	MS	S	MS	S
Ground Pressure	0.699 kg/cm ²	9.9 psi	0.446 kg/cm ²	6.3 psi
Pitch	215.9 mm	8.5 in	215.9 mm	8.5 in
Track Rollers/Side	7		8	
Number of Carrier Rollers	2		2	
8 Drawbar Height (grouser tip to center of clevis)	719 mm	28 in	719 mm	28 in

D7E Track-Type Tractor Specifications

Bulldozer Specifications

				7	7A	
	7S	7 S U	7U	Straight	Angled 25°	7S LGP
m^3	5.16	6.86	8.34	5.15	-	5.89
yd^3	6.75	8.98	10.91	6.74	-	7.7
mm	3904	3713	3988	4503	4120	4545
ft	12.81	12.18	13.08	14.77	13.52	14.91
mm	1363	1524	1553	1373	1373	1343
ft	4.5	5	5.1	4.5	4.5	4.4
mm	586	586	586	711	711	644
in	23.1	23.1	23.1	28	28	25.4
mm	1108	1108	1108	1120	1120	1264
in	43.6	43.6	43.6	44.1	44.1	49.8
mm	1045	987	1085	695	695	785
in	41.1	38.9	42.7	27.4	27.4	30.9
kg	3504	3832	3806	3790	3790	3970
1b	7,709	8,431	8,373	8,330	8,330	8,734
	yd³ mm ft mm ft mm in mm in mm kg	m³ 5.16 yd³ 6.75 mm 3904 ft 12.81 mm 1363 ft 4.5 mm 586 in 23.1 mm 1108 in 43.6 mm 1045 in 41.1 kg 3504	m³ 5.16 6.86 yd³ 6.75 8.98 mm 3904 3713 ft 12.81 12.18 mm 1363 1524 ft 4.5 5 mm 586 586 in 23.1 23.1 mm 1108 1108 in 43.6 43.6 mm 1045 987 in 41.1 38.9 kg 3504 3832	m³ 5.16 6.86 8.34 yd³ 6.75 8.98 10.91 mm 3904 3713 3988 ft 12.81 12.18 13.08 mm 1363 1524 1553 ft 4.5 5 5.1 mm 586 586 586 in 23.1 23.1 23.1 mm 1108 1108 1108 in 43.6 43.6 43.6 mm 1045 987 1085 in 41.1 38.9 42.7 kg 3504 3832 3806	m³ 5.16 6.86 8.34 5.15 yd³ 6.75 8.98 10.91 6.74 mm 3904 3713 3988 4503 ft 12.81 12.18 13.08 14.77 mm 1363 1524 1553 1373 ft 4.5 5 5.1 4.5 mm 586 586 586 711 in 23.1 23.1 23.1 28 mm 1108 1108 1120 in 43.6 43.6 43.6 44.1 mm 1045 987 1085 695 in 41.1 38.9 42.7 27.4 kg 3504 3832 3806 3790	m³ 5.16 6.86 8.34 5.15 - yd³ 6.75 8.98 10.91 6.74 - mm 3904 3713 3988 4503 4120 ft 12.81 12.18 13.08 14.77 13.52 mm 1363 1524 1553 1373 1373 ft 4.5 5 5.1 4.5 4.5 mm 586 586 586 711 711 in 23.1 23.1 23.1 23.1 28 28 mm 1108 1108 1120 1120 in 43.6 43.6 43.6 44.1 44.1 mm 1045 987 1085 695 695 in 41.1 38.9 42.7 27.4 27.4 kg 3504 3832 3806 3790 3790

^{*} Weight includes cylinder mounting, lift cylinder and lines, blade, push arms, trunnions, and cylinder lines (Tilt).

Undercarriage

Туре	Heavy Duty/SystemOne Undercarriage			
Configuration	STD		LGP	
Number of Rollers (each side)	7		8	
Number of Shoes (each side)	40		44	
Pitch	216 mm	8.5 in	216 mm	8.5 in
Shoe Width	610 mm	24 in	915 mm	36 in
Grouser Height (MS)	70 mm	2.75 in	70 mm	2.75 in
Length of Track on Ground (Heavy Duty)	3016 mm	119 in	3450 mm	136 in
Length of Track on Ground (SystemOne)	3021 mm	119 in	3455 mm	136 in
Track Gauge	1981 mm	78 in	2286 mm	90 in
Ground Contact Area (Heavy Duty)	3.68 m ²	5,698 in ²	6.31 m ²	9,792 in ²
Ground Pressure (Heavy Duty)	69.9 kPa	9.9 psi	44.6 kPa	6.3 psi
Ground Clearance	472 mm	18.6 in	472 mm	18.6 in