



D8

Track-Type Tractor

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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D8 Desert Specialty Configuration

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D8 Track-Type Tractor Specifications

Engine

Engine Mode	Cat® C15	
Emissions	Brazil MAR-1, and UN ECE R96 Stage IIA emission standards, equivalent to U.S. EPA Tier 3/EU Stage IIIA	
Net Power (2,050 rpm)		
ISO 9249/SAE J1349	271 kW	363 hp
ISO 9249 (DIN)	368 mhp	
Maximum Power (1,600 rpm)		
Engine Power: ISO 14396	294 kW	394 hp
Engine Power: ISO 14396 (DIN)	400 mhp	
Gross Power: SAE J1995:2014	296 kW	397 hp
Bore	137 mm	5.4 in
Stroke	172 mm	6.8 in
Displacement	15.2 L	927.56 in ³

- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- No derating required up to 4267 m (14,000 ft) altitude, beyond 4267 m (14,000 ft) automatic derating occurs.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
 - ✓ 100% biodiesel FAME (fatty acid methyl ester)*
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels
- Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.

*For use of blends higher than 20% biodiesel, consult your Cat dealer.

Service Refill Capacities

Fuel Tank	624 L	164.8 gal
Diesel Exhaust Fluid (DEF) Tank	24 L	6.3 gal
Cooling System	72 L	19 gal
Engine Crankcase*	43 L	11.4 gal
Power Train	208 L	54.9 gal
Final Drives (each)	12.5 L	3.30 gal
Roller Frames (each)	47 L	12.4 gal
Pivot Shaft Compartment	32 L	8.5 gal
Hydraulic Tank	69 L	18.2 gal

*with oil filter

Air Conditioning System

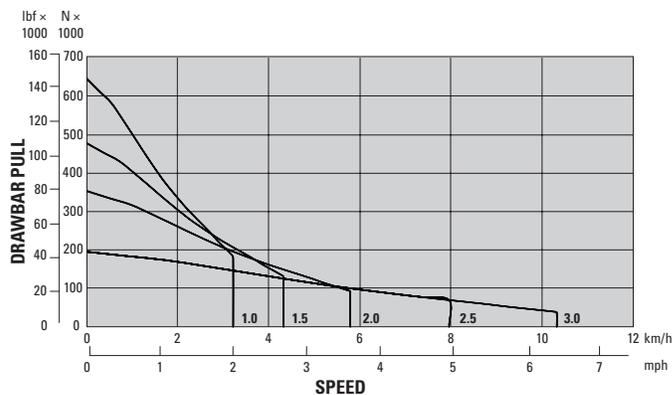
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.36 kg (2.99 lb) of refrigerant which has a CO₂ equivalent of 1.946 metric tonnes (2.145 tons).

Transmission

1.0 Forward	3.2 km/h	2.00 mph
1.5 Forward	4.3 km/h	2.69 mph
2.0 Forward	5.8 km/h	3.61 mph
2.5 Forward	8.0 km/h	4.95 mph
3.0 Forward	10.3 km/h	6.37 mph
1.0 Reverse	3.2 km/h	2.00 mph
1.5 Reverse	4.3 km/h	2.69 mph
2.0 Reverse	5.8 km/h	3.57 mph
2.5 Reverse	7.7 km/h	4.80 mph
3.0 Reverse	10.3 km/h	6.42 mph

Drawbar Pull

1.0 Forward	642.2 kN	144,361 lbf
1.5 Forward	475.0 kN	106,784 lbf
2.0 Forward	351.3 kN	78,975 lbf
2.5 Forward	194.0 kN	43,613 lbf
3.0 Forward	194.0 kN	43,613 lbf



Hydraulic Controls

Bulldozer Relief Valve Setting	32 500 kPa	4,714 psi
Maximum Operating Pressure		
Implement	24 000 kPa	3,481 psi
Steering	43 500 kPa	6,309 psi
Tilt Cylinder	24 000 kPa	3,481 psi
Lift Cylinder	24 000 kPa	3,481 psi
Ripper (Lift)	24 000 kPa	3,481 psi
Ripper (Pitch)	24 000 kPa	3,481 psi
Winch	24 000 kPa	3,481 psi

Pump

Pump Type	Piston-type, Variable Displacement	
Pump Output (Steering)	288 L/min	76 gal/min
Pump Output (Implement)	259 L/min	68 gal/min
Tilt Cylinder Rod End Flow	130 L/min	34 gal/min
Tilt Cylinder Head End Flow	170 L/min	45 gal/min

- Steering and Implement flow numbers measured at 1,850 rpm engine speed.
- Electro-hydraulic pilot valve assists operations of ripper and dozer controls. A standard hydraulic system includes four valves.
- Complete system consists of pump, tank, filter, oil cooler, valves, lines, and control levers.

Advanced Cabin Filtration

Operator Cabin

- Distributed HVAC ducting with automatic temperature control and blower speed provides ultimate operator comfort with less user input.
- Reduced maintenance of the condenser core with automatic reversing fans.
- Cat Advanced Cabin Filtration is standard.

Cat Advanced Cabin Filtration

- Operator protection from respirable particulate (0.3-10-micron size).
- Sustainably pressurized cab (U.S. Silica compliant).
- Reduced maintenance with longer life, high efficiency filters.
- Protection for all cabin components: electronics, etc.
- Helps meet U.S. Occupational Safety and Health Administration Silica Rule Table 1 requirements for operator cabs.
- Multi-tiered filter offerings for optional efficiency upgrades. Contact Cat dealer for availability.
 - MERV 16 – Standard Equipment
 - HEPA
 - Activated Carbon + HEPA
 - ABEK1 + HEPA

Standards

Sound Level Information

- Hearing protection may be needed when the machine is operated with an open operator station, in a noisy environment, with a cab that is not properly maintained, or when the doors and windows are open for extended periods of time.

Sound Level	Test Method	
Operator Sound Pressure Level	80 dB(A)	"ISO 6396:2008" ⁽¹⁾
	79 dB(A)*	
Exterior Sound Pressure Level	115 dB(A)	"ISO 6395:2008" ⁽²⁾
	113 dB(A)*	

*Including machines required to meet applicable regional regulations of Ukraine, United Kingdom, and Countries that Adopt the "EU Directives"; or machines equipped with the sound-suppression package.

⁽¹⁾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 measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.

⁽²⁾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 sound levels listed above include both measurement uncertainty and uncertainty due to production variation.

Rollover Protective Structure (ROPS)/Falling Object Protective Structure (FOPS)

- ROPS meets the following criteria: ISO 3471:2008.
- FOPS meets the following criteria: ISO 3449:2005 Level II.

Brakes

- Brakes meet the standard ISO 10265:2008.

D8 Track-Type Tractor Specifications

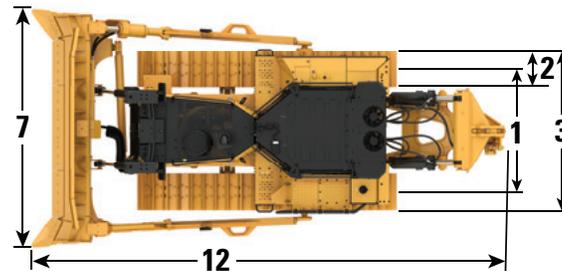
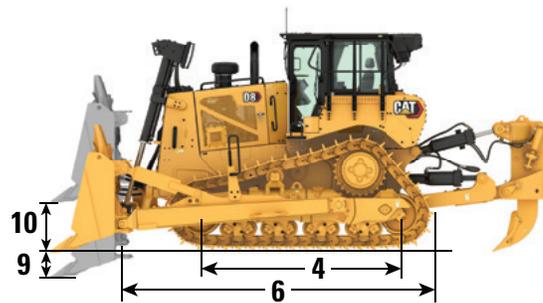
D8 Dimensions

Operating Weight*	39 000 kg	85,980 lb
Shipping Weight**	34 030 kg	75,023 lb
Ground Pressure (ISO 16754)	88.5 kPa	12.84 psi
Undercarriage	44 Sections with 8 Bottom Rollers	
1 Track Gauge	2.08 m	6'10"
2 Width of Track Shoe (Standard)	610 mm	24.0 in
3 Width of Tractor (without trunnions) (with guardrail)	2.79 m	9'2"
4 Length of Track on Ground	3.21 m	10'6"
Ground Contact Area (ISO 16754)	4.3 m ²	46.5 ft ²
Grouser Height (Extreme Service)	84 mm	3.3 in
Ground Clearance	622 mm	24.5 in
5 Machine Height*** (Tip of Grouser to top of Product Link™ Antenna)	3.53 m	11'7"
Top of Cab	3.52 m	11'7"
Top of Guardrail	3.39 m	11'1"
6 Length of Basic Tractor	4.76 m	15'7"
Add the following to the total length of the machine when these attachments are installed.		
Blade (SU)	1417 mm	55.8 in
Drawbar	295 mm	11.6 in
Drawbar with Counterweight	329 mm	13.0 in
Single Shank Ripper (with tip at ground line and shank pin in middle hole)	1725 mm	67.9 in
Multi-Shank Ripper (with tip at ground line and shank pin in top hole)	1640 mm	64.6 in
Waste Striker Box (includes three counterweights)	718 mm	28.3 in
Winch	775 mm	30.5 in

*Operating weight includes blade, lubricants, coolant, full fuel tank, ROPS/FOPS cab, ripper, and 75 kg (165 lb) operator.

**Shipping weight includes blade lift cylinders, lubricants, coolant, 10% fuel, ROPS/FOPS cab, and ripper.

***Machine height from tip of grouser to top of Product Link Antenna. For sweeps, add 60 mm (2.4 in) to overall machine height. With Super Extreme Service Track, add 10 mm (0.4 in). When Cat Grade with 3D antennas are installed there is no added machine height.



Blades

Type	Semi-Universal (SU)		Universal (U)		Angle Blade	
Capacity (ISO 9246)	10.3 m ³	13.47 yd ³	11.8 m ³	15.43 yd ³	6.1 m ³	7.98 yd ³
7 Width across End bits	4038 mm	159 in	4263 mm	167.8 in	5046 mm	198.7 in
Width without End bits	3948 mm	155.4 in	4164 mm	163.9 in	4772 mm	187.9 in
8 Height	1747 mm	68.8 in	1732 mm	68.2 in	1312 mm	51.7 in
9 Dig Depth ¹	576 mm	22.7 in	570 mm	22.4 in	625 mm	24.6 in
10 Lift Height ¹	1246 mm	49.1 in	1232 mm	48.5 in	1323 mm	52.1 in
11 Maximum Tilt at Blade Corner ¹	573 mm	22.6 in	593 mm	23.3 in	754 mm	29.7 in
Maximum Tilt Angle ¹	8.5°		8.5°		8.8°	
Pitch Adjustment ²	±3.5°		±3.5°		0°	
12 Length of Machine with Blade (with Single Shank [SS] Ripper tip on ground)	7.91 m	25'11"	8.23 m	27'0"	8.02 m	26'4"
Blade Weight (blade + push arms installed and dozer installation)	4539 kg	10,007 lb	5057 kg	11,149 lb	5469 kg	12,057 lb

¹Single tilt configuration with blade in neutral tilt position.

²Dual tilt configuration.

D8 Track-Type Tractor Specifications

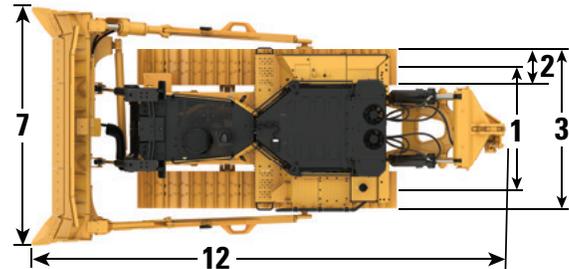
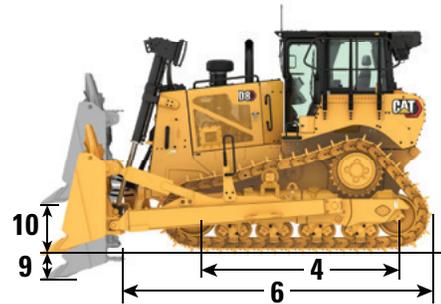
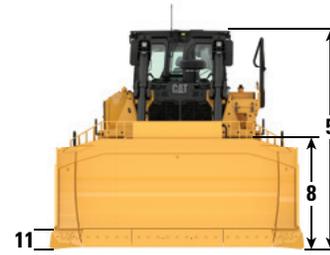
D8 LGP Dimensions

Operating Weight*	37 585 kg	82,861 lb
Shipping Weight**	32 310 kg	71,231 lb
Ground Pressure (ISO 16754)	53.9 kPa	7.82 psi
Undercarriage	44 Sections with 8 Bottom Rollers	
1 Track Gauge	2.34 m	7'8"
2 Width of Track Shoe (Standard)	965 mm	38.0 in
3 Width of Tractor (without trunnions)	3.3 m	10'10"
4 Length of Track on Ground	3.21 m	10'6"
Ground Contact Area (ISO 16754)	6.84 m ²	73.63 ft ²
Grouser Height (Extreme Service)	84 mm	3.3 in
Ground Clearance	622 mm	24.5 in
5 Machine Height*** (Tip of Grouser to top of Product Link Antenna)	3.53 m	11'7"
Top of Cab*	3.52 m	11'7"
Top of Guardrail	3.39 m	11'1"
6 Length of Basic Tractor	4.76 m	15'7"
Add the following to the total length of the machine when these attachments are installed.		
Blade (SU LGP)	1355 mm	53.3 in
Drawbar	295 mm	11.6 in
Drawbar with Counterweight	329 mm	13.0 in
Multi-Shank Ripper (with tip at ground line and shank pin in top hole)	1640 mm	64.6 in
Waste Striker Box (includes three counterweights)	718 mm	28.3 in
Winch	775 mm	30.5 in

*Operating weight includes blade, lubricants, coolant, full fuel tank, ROPS/FOPS cab, drawbar, and 75 kg (165 lb) operator.

**Shipping weight includes blade lift cylinders, lubricants, coolant, 10% fuel, ROPS/FOPS cab, and ripper.

***Machine height from tip of grouser to top of Product Link Antenna. For sweeps, add 60 mm (2.4 in) to overall machine height. With Super Extreme Service Track, add 10 mm (0.4 in). When Cat Grade with 3D antennas are installed there is no added machine height.



Blades

Type	LGP Semi-Universal (SU)		LGP Angle	
	m ³	yd ³	m ³	yd ³
Capacity (ISO 9246)	9.9	12.95	6.8	8.89
7 Width across End bits	4542 mm	178.8 in	5556 mm	218.7 in
Width without End bits	4450 mm	175.2 in	5282 mm	207.95 in
8 Height	1626 mm	64 in	1312 mm	51.7 in
9 Dig Depth ¹	575 mm	22.6 in	625 mm	24.6 in
10 Lift Height ¹	1227 mm	48.31 in	1323 mm	52.09 in
11 Maximum Tilt at Blade Corner ¹	556 mm	21.9 in	729 mm	28.7 in
Maximum Tilt Angle ¹	7.3°		7.7°	
Pitch Adjustment ²	±4.3°		0°	
12 Length of Machine with Blade (with drawbar)	6.41 m	21'0"	6.59 m	21' 7"
Blade Weight (blade + push arms installed and dozer installation)	4848 kg	10,688 lb	5714 kg	12,597 lb

¹Single tilt configuration with blade in neutral tilt position.

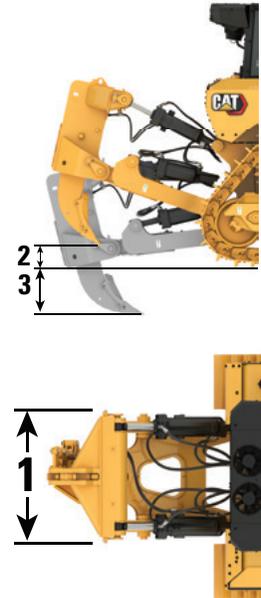
²Dual tilt configuration.

D8 Track-Type Tractor Specifications

Ripper

Type	Single-Shank, Adjustable Parallelogram		Multi-Shank, Adjustable Parallelogram	
	1		3	
Number of Pockets	1		3	
Weight with One Shank	4070 kg	8973 lb	4061 kg	8953 lb
Weight with Three Shanks	–	–	4777 kg	10,531 lb
Weight, Standalone Shank	410 kg	904 lb	358 kg	789 lb
1 Carriage Width	1438 mm	56.6 in	2465 mm	97 in
2 Maximum Clearance, Raised (Shank Tip)	636 mm	25 in	593 mm	23.3 in
3 Maximum Penetration	1130 mm	44.5 in	780 mm	30.7 in
Maximum Penetration Force	127.3 kN	28,618 lb	124.2 kN	27,921 lb
Maximum Pryout Force*	222.7 kN	50,065 lb	222.9 kN	50,110 lb

*Measured with One Shank



Winch

Model	PA140	
Weight*	2140 kg	4,700 lb
Oil Capacity	15 L	4 gal
Increased Tractor Length	781 mm	30.7 in
Winch Length	1614 mm	63.5 in
Winch Case Width	1226 mm	48.3 in
Drum Width	332 mm	13.1 in
Flange Diameter	610 mm	24 in
Maximum Recommended Drum Capacity**		
Recommended Cable Size	29 mm	1.125 in
Optional Cable Size	32 mm	1.25 in
Drum Capacity		
Recommended Cable Length	56 m	185 ft
Optional Cable	36 m	119 ft

• PA140 – Variable speed, hydraulically driven, dual braking system, three roller fairlead.

*Approximate weight includes winch, mounting bracket and hardware, and standard wire rope

**Per SAE J706

Track Shoes

Some track shoes not available in all regions. Consult your Cat dealer for details.

Heavy Duty (HD)	Standard			LGP	
	560 mm (22 in)	610 mm (24 in)	660 mm (26 in)	710 mm (28 in)	965 mm (38 in)
Moderate Service		✓	✓	✓	✓
Extreme Service	✓	✓	✓	✓	✓
Super Extreme Service		✓			
Moderate Service Trapezoidal				✓	
Extreme Service Trapezoidal	✓	✓	✓	✓	✓
Super Extreme Service Trapezoidal			✓		
Heavy Duty Extended Life (HDXL)	560 mm (22 in)	610 mm (24 in)	660 mm (26 in)	710 mm (28 in)	965 mm (38 in)
Extreme Service		✓	✓	✓	✓
Super Extreme Service		✓			
Extreme Service Trapezoidal		✓	✓		✓

D8 Track-Type Tractor Specifications

Dozer Technology Features

Assist technology features help operators of varied experience levels get the job done faster and more accurately. Grade and Command offering help further enhance your productivity, efficiency and jobsite safety.

The cab is Third Party Grade Control Ready, equipped with Controller Area Network (CAN) interface, harness pass throughs and mounting features to make it easier to install the grade control system of your choice.

Cat Assist with ARO

Attachment Ready Option (ARO)	ARO provides wiring and mounting provisions for dealer installation of Grade with 3D, AccuGrade, Universal Total Station (UTS), or other grade control systems.
Cat Grade with Slope Assist™	Slope Assist automatically maintains pre-established blade position without a Global navigation satellite system (GNSS)/Global Positioning System (GPS) signal – no additional hardware or software needed. For machines with 3D, operators can easily switch back and forth from full 3D automatics to Slope Assist.
Steer Assist	Steer Assist automates track and blade tilt steering. Helps reduce operator fatigue by automatically maintaining straight travel with light loads or heavy loads on flat ground and cross slopes. No GNSS/GPS required.
Stable Blade	Stable Blade works seamlessly with operator inputs to help produce a smoother surface when operating manually.
Slope Indicate	Slope Indicate is included in the main machine display and shows side slope and uphill/downhill grades to help operators with slope work.
Blade Load Monitor	Blade Load Monitor gives you real-time feedback on current load versus the optimal blade load based on your ground conditions. Actively monitors machine load and track slip to help you reach optimal pushing capacity. ¹
Traction Control	Traction Control automatically reduces track slip to save you time, fuel and track wear. ¹
AutoCarry™	AutoCarry automates blade lift to help you maintain consistent blade load and help reduce track slip. ¹
AutoRip	AutoRip automates ripper raise/lower and shank in/out to maximize ripping productivity and reduce operator fatigue. ¹

Cat Grade 3D Ready (Hardware Only)

Includes all features from Cat Assist with ARO listed above, plus:

Cat Grade with 3D (hardware only)	Factory integrated Cat Grade with 3D uses GNSS/GPS to control the blade so you can get to design plan faster. Low profile antennas are integrated into the cab roof and GNSS/GPS receivers are mounted inside the cab for better protection. ²
Dedicated Touchscreen Grade Display	Full-color Grade operator interface is intuitive and easy to use. The 254 mm (10 in) touchscreen uses an Android OS platform and operates like a smart phone.

NOTE: Grade 3D Ready option requires additional license purchase and installation to upgrade to a fully functional Grade 3D system. Consult your Cat dealer for more information.

Cat Grade 3D with Assist

Includes all features from Cat Grade 3D Ready (Hardware Only) listed above, plus:

Steer Assist 3D	Automatically follow guidance lines from site design plans (or Infield designs) under light load or heavy load. ²
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NOTE: Includes required licenses and software.

Cat Command/Remote Control

Remote Control Ready Cab (Standard)	Cab is Remote Control Ready from the factory with external connector for dealer installation of the Cat Command remote control system.
Command for Dozing ² (Optional)	Cat Command remote control technology provides full dozer maneuverability from a safe distance.

¹Feature not operational indoors or in areas where a GNSS/GPS signal is not available.

²Requires Software Enabled Attachment (SEA) installation when not configured from the factory.

Note: Grade and Assist technologies, except Slope Indicate, Blade Load Monitor and Traction Control, are not compatible with Angle blades or specialty blades from Cat Work Tools. Please consult with your Cat dealer for details.

D8 Standard and Optional Equipment

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
POWER TRAIN			CAT TECHNOLOGY		
Cat C15 engine	✓		Cat Slope Indicate	✓	
Desert package with unique engine, pre-cleaner, bottom guards, and seals for application		✓	Cat Assist with ARO Package*		✓
Fully-automatic 4-speed transmission with Lock-Up Clutch (LUC) torque divider	✓		Cat Grade 3D Ready with Assist Package (Hardware Only)*		✓
Aftercooler, air-to-air (ATAAC)	✓		Cat Grade 3D with Assist Package*		✓
Coolant, extended life	✓		Third Party Grade Control Ready Cab		✓
Differential steering	✓		Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓	
Engine air filter with electronic service indicator	✓		Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓	
Engine air pre-cleaner with dust ejection	✓		Product Link – Cellular or Dual Mode		✓
Engine air pre-cleaner desert configuration		✓	Remote Flash/Troubleshoot	✓	
Engine air pre-cleaner with screen and dust ejector		✓	Caterpillar Track Wear Sensor**		✓
Engine with thermal shield		✓	Grade Connectivity		✓
Engine idle shutdown	✓		Grade Corrections Radio		✓
Final Drives, double reduction – Standard or LGP	✓		Machine Security – Passcode	✓	
Final Drives, double reduction – Waste		✓	Machine Security – Bluetooth®		✓
Fuel water separator	✓		Remote Control Ready	✓	
Fuel priming pump, electric	✓		Cat Command for Dozing		✓
Fan, hydraulic demand	✓				
Fan, auto reversing		✓			
Fuel lines – B100 compliant (required for Indonesia)	✓				
High Capacity Fuel Tank – includes B100 compliant fuel lines		✓			
Oil change system, high speed		✓			
Muffler with mitered stack	✓				
Muffler with thermal shield		✓			
Radiator, aluminum bar plate with debris resistant cores	✓				
High performance single plane cooling system	✓				
Sound Suppression		✓			
Starting Aid, automatic ether		✓			
Starting Aid, jacket water heater (110V or 220V)		✓			

*Refer to page 7 for technology package details.

**Standard in countries where certified.

(continued on next page)

Standard and Optional Equipment *(continued)*

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			OPERATOR ENVIRONMENT <i>(continued)</i>		
Standard cab with Integrated ROPS and FOPS, laminated safety glass, sliding windows, basic display/non-ARO, standard seat	✓		Entertainment radio with Bluetooth and microphone		✓
Premium cab with integrated ROPS and FOPS, laminated safety glass, sliding windows, adjustable armrests. Cab is technology – and remote control-ready.		✓	Lunchbox storage	✓	
High debris cab with integrated ROPS and FOPS, impact resistant polycarbonate doors, solid side windows for improved sealing, powered pre-cleaner with Cat Advanced Cabin Filtration for improved performance and filter life. Cab is technology – and remote control-ready.		✓	Wipers	✓	
203 mm (8 in) gauge cluster display	✓		USB and Auxiliary Ports		✓
Full-color 254 mm (10 in) liquid crystal touchscreen display		✓	Operator presence switch	✓	
High Definition rear view camera with backup lines		✓	Emergency Hammer		✓
In-display key machine features		✓	Window shades		✓
Operator ID/Operator ID with Security		✓	UNDERCARRIAGE		
Cloth seat with mechanical adjustable lumbar support	✓		Standard or Low Ground Pressure (LGP) undercarriage	✓	
Deluxe leather heated/ventilated seat with electronic adjustable lumbar support		✓	Heavy Duty with Positive Pin Retention (PPR) undercarriage – 44 section track, sealed and lubricated, single grouser shoes	✓	
Armrests adjustable fore-aft and vertically		✓	Heavy Duty Extended Life (HDXL) with PPR undercarriage – 44 section track, sealed and lubricated, single grouser shoes		✓
Electrohydraulic implement and steering controls	✓		Waste undercarriage		✓
Joystick control – ARO		✓	Suspension-type undercarriage	✓	
Decelerator pedal	✓		Carrier rollers	✓	
Fresh air filter	✓		Hydraulic track adjusters	✓	
Powered fresh air filter pre-cleaner		✓	Lifetime lubricated track and roller	✓	
Cab mounted modular HVAC system with automatic reversing fans. Automatic temperature and blower control with distributed ducting.	✓		Moderate service track shoes (see chart on page 6)	✓	
Communication radio ready		✓	Extreme service track shoes (see chart on page 6)		✓
Rearview mirror	✓		Track guide	✓	
Retractable 76 mm (3 in) seat belt	✓		Sprocket rim segments, replaceable	✓	
Cup holders	✓		8-roller tubular track roller frame (carrier roller ready)	✓	
Dash foot pads	✓		Two-piece master links	✓	
Floor plate and pedals for shorter operators		✓	BLADES		
			Semi-Universal (SU)		✓
			Universal		✓
			Waste/Landfill		✓
			Angle Blade		✓
			Rock Guard/Wear Plate		✓
			Push Plate		✓
			FirstCut cutting edges (SU blades)		✓

(continued on next page)

D8 Standard and Optional Equipment

Standard and Optional Equipment *(continued)*

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
PUSH ARMS			SERVICE AND MAINTENANCE <i>(continued)</i>		
Standard	✓		Fast fuel fill		✓
Extreme		✓	High-speed oil change		✓
HYDRAULICS			Heavy duty perforated radiator doors, louvered and hinged	✓	
Load sensing hydraulics	✓		Heavy duty radiator doors for waste		✓
Independent steering and implement pumps	✓		Quick access cab floor		✓
Dozer tilt hydraulics – single tilt	✓		Under hood work light		✓
Dozer tilt hydraulics – dual tilt		✓	Removable engine enclosures, perforated and hinged	✓	
Guarded blade hydraulic hoses	✓		Scheduled Oil Sampling (S·O·S SM) ports	✓	
Electronically enabled quick drop valve	✓		Shovel holder		✓
Rear hydraulics ripper and winch ready	✓		Vandalism protection for fluid compartments and battery box	✓	
ELECTRICAL			ATTACHMENTS		
Lights – 4 LED	✓		Multi-shank ripper with CapSure™ ripper tips and shank protector		✓
Lights – 6 LED		✓	Single shank ripper with CapSure ripper tip and shank protector		✓
Premium lights – 12 LED		✓	Pin puller (single shank)		✓
Access/egress lighting with shutdown timer		✓	Rear striker box with striker bar		✓
Backup alarm	✓		Rear striker bar		✓
Beacon warning light		✓	Rear counterweight		✓
Converter: 15 Amp, 12V outlets	✓		Drawbar		✓
Forward warning horn	✓		Winch		✓
BATTERIES, STARTERS, ALTERNATORS AND COOLANT			GUARDING AND SCREENS		
95 Amp alternator	✓		Bottom guards – standard	✓	
150 Amp alternator		✓	Bottom guards – heavy duty, powered, sealed, desert		✓
150 Amp ducted alternator		✓	Cab rear screen – fixed or hinged		✓
24 Volt starter	✓		Cab side screens – hinged		✓
Engine coolant, –37° C (–35° F)	✓		Fuel Tank guards		✓
Arctic engine coolant, –51° C (–60° F)		✓	HVAC guard		✓
Four maintenance free 12-volt batteries (900 cca) (24-volt system)	✓		Light guards		✓
SERVICE AND MAINTENANCE			Striker bars, front, suspended		✓
30-minute cab removal		✓	Sweeps package		✓
Centralized, remote mounted pressure taps	✓				
Ecology drains	✓				
Extended service intervals (500 hours engine, 1,000-hour power train)	✓				
Ground level service center (remote electrical disconnect, secondary shutdown switch)	✓				
Ground level service center (hour meter, jump start)		✓			

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability>.

Engine

- The Cat® C15 engine meets Brazil MAR-1, and UN ECE R96 Stage IIA emission standards, equivalent to U.S. EPA Tier 3/ EU Stage IIIA emissions standards.
 - Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
 - ✓ 100% biodiesel FAME (fatty acid methyl ester)*
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels.
- Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.
- *For use of blends higher than 20% biodiesel, consult your Cat dealer.*

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.36 kg (2.99 lb) of refrigerant which has CO₂ equivalent of 1.946 metric tonnes (2.145 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

Sound Performance

- For machines required to meet applicable regional regulations of Ukraine, United Kingdom, and countries that adopt the "EU Directives".

Operator Sound Pressure Level (ISO 6396:2008) – 80 dB(A)

Exterior Sound Power Level (ISO 6395:2008) – 115 dB(A)

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Fully automatic 4-speed powershift transmission continuously adjusts for maximum efficiency
 - Engine Idle Shutdown Timer reduces fuel burn, carbon emissions and unnecessary idle time by shutting down the machine after a pre-set idling period
 - Emissions reduction technology is designed to operate automatically in the background while you work
 - AutoCarry automates blade lift to reduce track slip for maximum efficiency on each pass to help lower fuel burn and carbon emissions
 - Boost productivity with Cat technologies like Cat Grade with Slope Assist and Cat Grade with 3D
 - Remote Flash and Remote Troubleshoot

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	81.73%
Iron	8.11%
Nonferrous Metal	1.82%
Mixed Metal	0.24%
Mixed-Metal and Nonmetal	1.26%
Plastic	0.42%
Rubber	0.13%
Mixed Nonmetallic	0.09%
Fluid	0.58%
Other	0.67%
Uncategorized	4.95%
Total	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714:2008 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714:2008 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability – 98%



D8

Desert

Working in abrasive and high temperature environments, Cat Desert configurations are designed and manufactured from the frame up to take on the demands of desert work. Specialized guarding, engine enclosure, and cooling system allow optimal machine performance for high temperature and longevity in sandy abrasive environment.

Next Generation Performance

- Move more material with up to 16% more power*.
- Fully automatic 4-speed powershift transmission continuously adjusts for maximum efficiency and power to the ground without added operator input.
- Completely redesigned, more spacious cab for a whole new standard in comfort and productivity.
- Industry leading technology features that reduce burden on operator and make machine more productive.

*Compared to D8/D8T (19B). Additional drawbar power is the result of increased engine power and additional 1.5F gear.

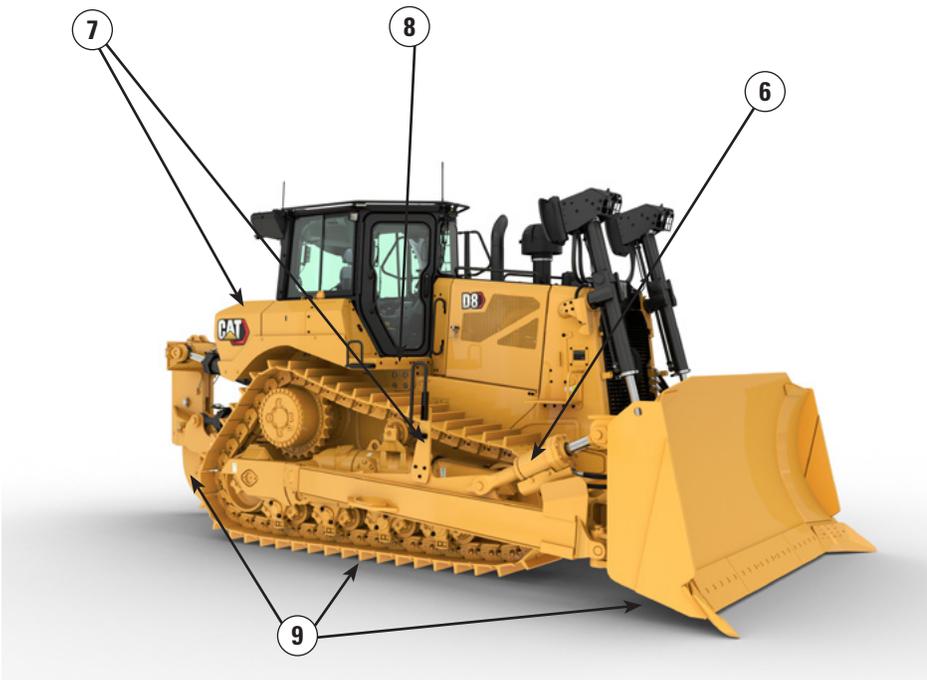
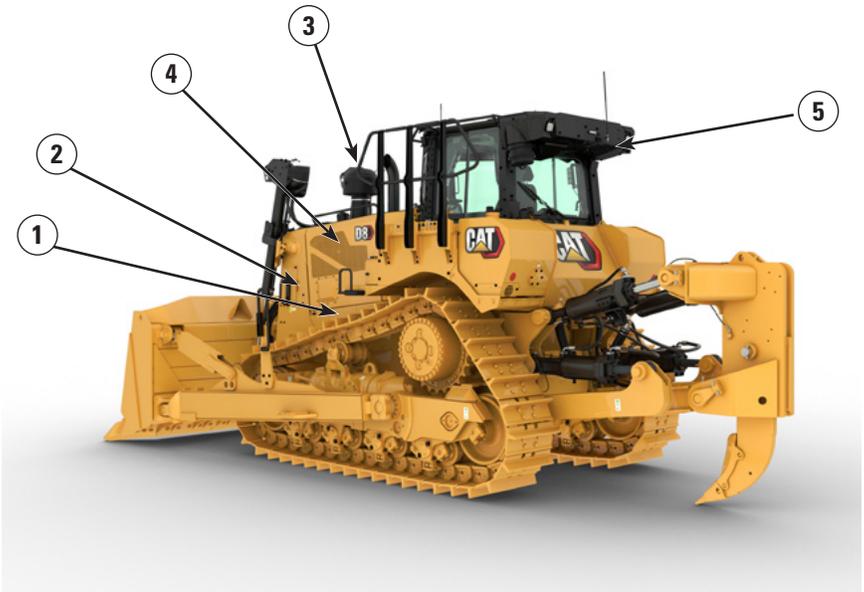
Equipped for the Job

- Unique engine enclosures designed to deal with sandy environment.
- Cooling system designed for sand application with special fan coating and radiator grid.
- Desert engine pre-cleaner with turbine delivers cleaner air to the power train.
- Bottom guards are sealed and include access panels for easy sand clean out.
- Ducted and sealed alternator for longer life.
- Special seals throughout machine help reduce sand entering machine.
- Powered air pre-cleaner helps keep cab air cleaner and pressurized for greater operator comfort.

D8 Desert Track-Type Tractor Specifications

D8 Desert Features

- 1) Unique engine enclosures designed to deal with sandy environment.
- 2) Cooling system designed for sand application with special fan coating and radiator grid.
- 3) Desert engine pre-cleaner with turbine delivers cleaner air to the power train.
- 4) Ducted and sealed alternator for longer life.
- 5) Powered air pre-cleaner helps keep cab air cleaner and pressurized for greater operator comfort.



- 6) Bottom guards are sealed and include access panels for easy sand clean out.
- 7) Special seals throughout machine help reduce sand entering machine.
- 8) Quick access cab floor option offers tool-less access to the floor plate opening.
- 9) Choose from a variety of blade, track shoe, and rear attachment options to equip your dozer for the job.

D8 Desert Track-Type Tractor Specifications

Engine

Engine Mode	Cat C15	
Emissions	Brazil MAR-I emission standards, equivalent to U.S. EPA Tier 3/ EU Stage IIIA	
Net Power (2,050 rpm)		
ISO 9249/SAE J1349	271 kW	363 hp
ISO 9249 (DIN)	368 mhp	
Maximum Power (1,600 rpm)		
Engine Power: ISO 14396	294 kW	394 hp
Engine Power: ISO 14396 (DIN)	400 mhp	
Gross Power: SAE J1995:2014	296 kW	397 hp
Bore	137 mm	5.4 in
Stroke	172 mm	6.8 in
Displacement	15.2 L	927.56 in ³

- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- No derating required up to 4267 m (14,000 ft) altitude, beyond 4267 m (14,000 ft) automatic derating occurs.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
 - ✓ 100% biodiesel FAME (fatty acid methyl ester)*
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels
- Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.

*For use of blends higher than 20% biodiesel, consult your Cat dealer.

Service Refill Capacities

Fuel Tank	624 L	164.8 gal
Diesel Exhaust Fluid (DEF) Tank	24 L	6.3 gal
Cooling System	82 L	19 gal
Engine Crankcase*	43 L	11.4 gal
Power Train	208 L	54.9 gal
Final Drives (each)	12.5 L	3.30 gal
Roller Frames (each)	47 L	12.4 gal
Pivot Shaft Compartment	32 L	8.5 gal
Hydraulic Tank	69 L	18.2 gal

*with oil filter

Air Conditioning System

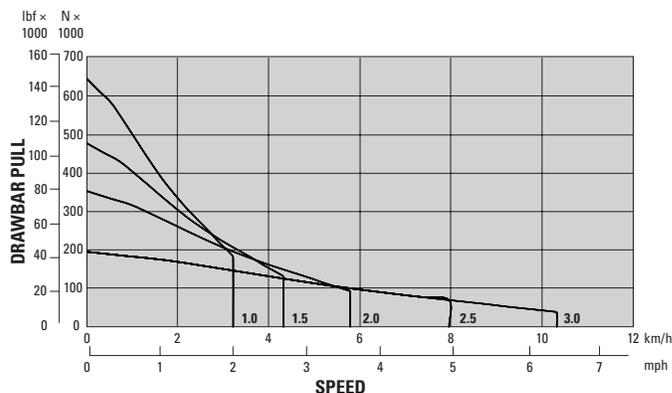
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.36 kg (2.99 lb) of refrigerant which has a CO₂ equivalent of 1.946 metric tonnes (2.145 tons).

Transmission

1.0 Forward	3.2 km/h	2.00 mph
1.5 Forward	4.3 km/h	2.69 mph
2.0 Forward	5.8 km/h	3.61 mph
2.5 Forward	8.0 km/h	4.95 mph
3.0 Forward	10.3 km/h	6.37 mph
1.0 Reverse	3.2 km/h	2.00 mph
1.5 Reverse	4.3 km/h	2.69 mph
2.0 Reverse	5.8 km/h	3.57 mph
2.5 Reverse	7.7 km/h	4.80 mph
3.0 Reverse	10.3 km/h	6.42 mph

Drawbar Pull

1.0 Forward	642.2 kN	144,361 lbf
1.5 Forward	475.0 kN	106,784 lbf
2.0 Forward	351.3 kN	78,975 lbf
2.5 Forward	194.0 kN	43,613 lbf
3.0 Forward	194.0 kN	43,613 lbf



D8 Desert Track-Type Tractor Specifications

Hydraulic Controls

Bulldozer Relief Valve Setting	32 500 kPa	4,714 psi
Maximum Operating Pressure		
Implement	24 000 kPa	3,481 psi
Steering	43 500 kPa	6,309 psi
Tilt Cylinder	24 000 kPa	3,481 psi
Lift Cylinder	24 000 kPa	3,481 psi
Ripper (Lift)	24 000 kPa	3,481 psi
Ripper (Pitch)	24 000 kPa	3,481 psi
Winch	24 000 kPa	3,481 psi

Pump

Pump Type	Piston-type, Variable Displacement	
Pump Output (Steering)	288 L/min	76 gal/min
Pump Output (Implement)	259 L/min	68 gal/min
Tilt Cylinder Rod End Flow	130 L/min	34 gal/min
Tilt Cylinder Head End Flow	170 L/min	45 gal/min

- Steering and Implement flow numbers measured at 1,850 rpm engine speed.
- Electro-hydraulic pilot valve assists operations of ripper and dozer controls. A standard hydraulic system includes four valves.
- Complete system consists of pump, tank, filter, oil cooler, valves, lines, and control levers.

Advanced Cabin Filtration

Operator Cabin

- Distributed HVAC ducting with automatic temperature control and blower speed provides ultimate operator comfort with less user input.
- Reduced maintenance of the condenser core with automatic reversing fans.
- Cat Advanced Cabin Filtration is standard.

Cat Advanced Cabin Filtration

- Operator protection from respirable particulate (0.3-10-micron size).
- Sustainably pressurized cab (U.S. Silica compliant).
- Reduced maintenance with longer life, high efficiency filters.
- Protection for all cabin components: electronics, etc.
- Helps meet U.S. Occupational Safety and Health Administration Silica Rule Table 1 requirements for operator cabs.
- Multi-tiered filter offerings for optional efficiency upgrades. Contact Cat dealer for availability.
 - MERV 16 – Standard Equipment
 - HEPA
 - Activated Carbon + HEPA
 - ABEK1 + HEPA

Standards

Sound Level Information

- Hearing protection may be needed when the machine is operated with an open operator station, in a noisy environment, with a cab that is not properly maintained, or when the doors and windows are open for extended periods of time.

Sound Level	Test Method	
Operator Sound Pressure Level	80 dB(A)	"ISO 6396:2008" ⁽¹⁾
	79 dB(A)*	
Exterior Sound Pressure Level	115 dB(A)	"ISO 6396:2008" ⁽²⁾
	113 dB(A)*	

*Including machines required to meet applicable regional regulations of Ukraine, United Kingdom, and Countries that Adopt the "EU Directives"; or machines equipped with the sound-suppression package.

⁽¹⁾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 measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.

⁽²⁾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 sound levels listed above include both measurement uncertainty and uncertainty due to production variation.

ROPS/FOPS

- ROPS meets the following criteria: ISO 3471:2008.
- FOPS meets the following criteria: ISO 3449:2005 Level II.

Brakes

- Brakes meet the standard ISO 10265:2008.

D8 Desert Track-Type Tractor Specifications

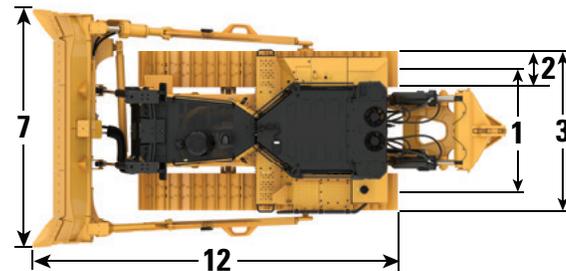
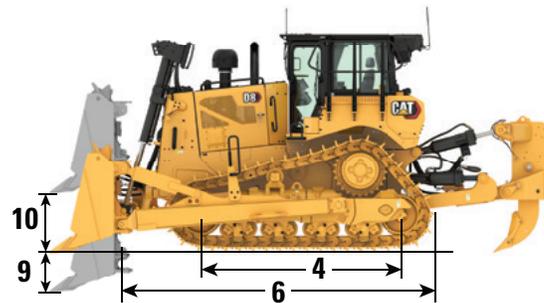
D8 Desert Dimensions

Operating Weight*	39 250 kg	86,531 lb
Shipping Weight**	34 280 kg	75,574 lb
Ground Pressure (ISO 16754)	89.1 kPa	12.92 psi
Undercarriage	44 Sections with 8 Bottom Rollers	
1 Track Gauge	2.08 m	6' 10"
2 Width of Track Shoe (Standard)	610 mm	24.0 in
3 Width of Tractor (without trunnions)	2.79 m	9'2"
4 Length of Track on Ground	3.21 m	10'6"
Ground Contact Area (ISO 16754)	4.3 m ²	46.5 ft ²
Grouser Height (Extreme Service)	84 mm	3.3 in
Ground Clearance	622 mm	24.5 in
5 Machine Height*** (Tip of Grouser to top of Product Link Antenna)	3.53 m	11'7"
Top of Cab*	3.52 m	11'7"
Top of Guardrail	3.39 m	11'1"
6 Length of Basic Tractor	4.76 m	15'7"
Add the following to the total length of the machine when these attachments are installed.		
Blade (SU)	1417 mm	55.8 in
Drawbar	295 mm	11.6 in
Drawbar with Counterweight	329 mm	13.0 in
Single Shank Ripper (with tip at ground line and shank pin in middle hole)	1725 mm	67.9 in
Multi-Shank Ripper (with tip at ground line and shank pin in top hole)	1640 mm	64.6 in
Waste Striker Box (includes three counterweights)	718 mm	28.3 in
Winch	775 mm	30.5 in

*Operating weight includes blade, lubricants, coolant, full fuel tank, ROPS/FOPS cab, ripper, and 75 kg (165 lb) operator.

**Shipping weight includes blade lift cylinders, lubricants, coolant, 10% fuel, ROPS/FOPS cab, and ripper.

***Machine height from tip of grouser to top of Product Link Antenna. For sweeps, add 60 mm (2.4 in) to overall machine height. With Super Extreme Service Track, add 10 mm (0.4 in). When Cat Grade with 3D antennas are installed there is no added machine height.



Blades

Type	Semi-Universal (SU)		Universal (U)	
Capacity (ISO 9246)	10.3 m ³	13.47 yd ³	11.8 m ³	15.43 yd ³
7 Width across End bits	4038 mm	159.0 in	4263 mm	167.8 in
Width without End bits	3948 mm	155.4 in	4164 mm	163.9 in
8 Height	1747 mm	68.8 in	1732 mm	68.2 in
9 Dig Depth ¹	576 mm	22.7 in	570 mm	22.4 in
10 Lift Height ¹	1246 mm	49.1 in	1232 mm	48.5 in
11 Maximum Tilt at Blade Corner ¹	573 mm	22.6 in	593 mm	23.3 in
Maximum Tilt Angle ¹	8.5°		8.5°	
Pitch Adjustment ²	±3.5°		±3.5°	
12 Length of Machine with Blade (with SS Ripper tip on ground)	7.91 m	25'11"	8.23 m	27'0"
Blade Weight (blade + push arms installed and dozer installation)	4539 kg	10,007 lb	5057 kg	11,149 lb

¹Single tilt configuration with blade in neutral tilt position.

²Dual tilt configuration.

D8 Desert Track-Type Tractor Specifications

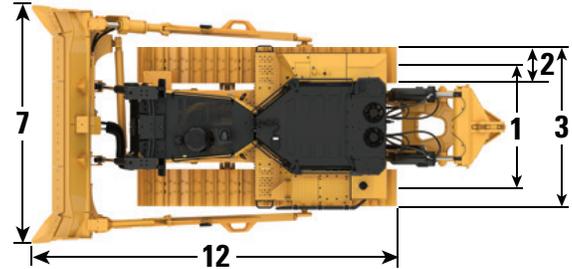
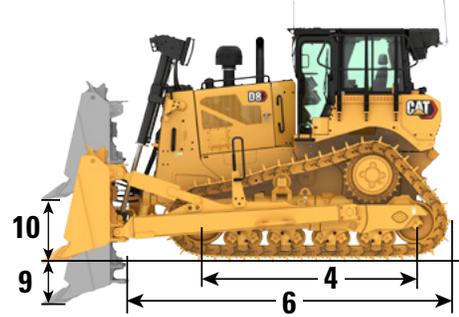
D8 Desert LGP Dimensions

Operating Weight*	37 835 kg	83,412 lb
Shipping Weight**	32 560 kg	71,783 lb
Ground Pressure (ISO 16754)	54.3 kPa	7.88 psi
Undercarriage	44 Sections with 8 Bottom Rollers	
1 Track Gauge	2.34 m	7'8"
2 Width of Track Shoe (Standard)	965 mm	38.0 in
3 Width of Tractor (without trunnions)	3.3 m	10'10"
4 Length of Track on Ground	3.21 m	10'6"
Ground Contact Area (ISO 16754)	6.84 m ²	73.63 ft ²
Grouser Height (Extreme Service)	84 mm	3.3 in
Ground Clearance	622 mm	24.5 in
5 Machine Height*** (Tip of Grouser to top of Product Link Antenna)	3.53 m	11'7"
Top of Cab*	3.52 m	11'7"
Top of Guardrail	3.39 m	11'1"
6 Length of Basic Tractor	4.76 m	15'7"
Add the following to the total length of the machine when these attachments are installed.		
Blade (SU LGP)	1355 mm	53.3 in
Drawbar	295 mm	11.6 in
Drawbar with Counterweight	329 mm	13.0 in
Multi-Shank Ripper (with tip at ground line and shank pin in top hole)	1640 mm	64.6 in
Waste Striker Box (includes three counterweights)	718 mm	28.3 in
Winch	775 mm	30.5 in

*Operating weight includes blade, lubricants, coolant, full fuel tank, ROPS/FOPS cab, drawbar, and 75 kg (165 lb) operator.

**Shipping weight includes blade lift cylinders, lubricants, coolant, 10% fuel, ROPS/FOPS cab, and ripper.

***Machine height from tip of grouser to top of Product Link Antenna. For sweeps, add 60 mm (2.4 in) to overall machine height. With Super Extreme Service Track, add 10 mm (0.4 in). When Cat Grade with 3D antennas are installed there is no added machine height.



Blades

Type	LGP Semi-Universal (SU)		LGP Angle	
Capacity (ISO 9246)	9.9 m ³	12.95 yd ³	6.8 m ³	8.89 yd ³
7 Width across End bits	4542 mm	178.8 in	5556 mm	218.7 in
Width without End bits	4450 mm	175.2 in	5282 mm	207.95 in
8 Height	1626 mm	64 in	1312 mm	51.7 in
9 Dig Depth ¹	575 mm	22.6 in	625 mm	24.6 in
10 Lift Height ¹	1227 mm	48.31 in	1323 mm	52.09 in
11 Maximum Tilt at Blade Corner ¹	556 mm	21.9 in	729 mm	28.7 in
Maximum Tilt Angle ¹	7.3°		7.7°	
Pitch Adjustment ²	±4.3°		0°	
12 Length of Machine with Blade (with drawbar)	6.41 m	21'0"	6.59 m	21'7"
Blade Weight (blade + push arms installed and dozer installation)	4848 kg	10,688 lb	5714 kg	12,597 lb

¹Single tilt configuration with blade in neutral tilt position.

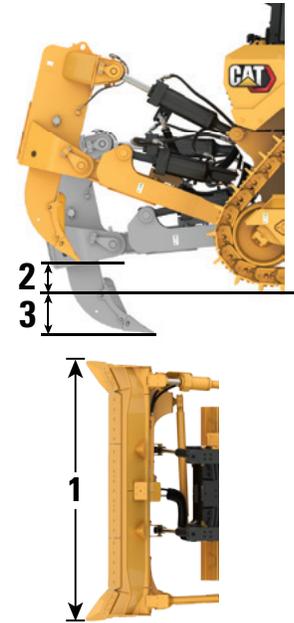
²Dual tilt configuration.

D8 Desert Track-Type Tractor Specifications

Ripper

Type	Single-Shank, Adjustable Parallelogram		Multi-Shank, Adjustable Parallelogram	
Number of Pockets	1		3	
Weight with One Shank	4070 kg	8973 lb	4061 kg	8953 lb
Weight with Three Shanks	–	–	4777 kg	10,531 lb
Weight, Standalone Shank	410 kg	904 lb	358 kg	789 lb
1 Carriage Width	1438 mm	56.6 in	2465 mm	97 in
2 Maximum Clearance, Raised (Shank Tip)	636 mm	25 in	593 mm	23.3 in
3 Maximum Penetration	1130 mm	44.5 in	780 mm	30.7 in
Maximum Penetration Force	127.3 kN	28,618 lb	124.2 kN	27,921 lb
Maximum Pryout Force*	222.7 kN	50,065 lb	222.9 kN	50,110 lb

*Measured with One Shank



Winch

Model	PA140	
Weight*	2140 kg	4,700 lb
Oil Capacity	15 L	4 gal
Increased Tractor Length	781 mm	30.7 in
Winch Length	1614 mm	63.5 in
Winch Case Width	1226 mm	48.3 in
Drum Width	332 mm	13.1 in
Flange Diameter	610 mm	24 in
Maximum Recommended Drum Capacity**		
Recommended Cable Size	29 mm	1.125 in
Optional Cable Size	32 mm	1.25 in
Drum Capacity		
Recommended Cable Length	56 m	185 ft
Optional Cable	36 m	119 ft

• PA140 – Variable speed, hydraulically driven, dual braking system, three roller fairlead.

*Approximate weight includes winch, mounting bracket and hardware, and standard wire rope

**Per SAE J706

Track Shoes

Some track shoes not available in all regions. Consult your Cat dealer for details.

Heavy Duty (HD)	Standard				LGP
	560 mm (22 in)	610 mm (24 in)	660 mm (26 in)	710 mm (28 in)	965 mm (38 in)
Moderate Service		✓	✓	✓	✓
Extreme Service	✓	✓	✓	✓	✓
Super Extreme Service		✓			
Moderate Service Trapezoidal				✓	
Extreme Service Trapezoidal	✓	✓	✓	✓	✓
Super Extreme Service Trapezoidal			✓		
Heavy Duty Extended Life (HDXL)	560 mm (22 in)	610 mm (24 in)	660 mm (26 in)	710 mm (28 in)	965 mm (38 in)
Extreme Service		✓	✓	✓	✓
Super Extreme Service		✓			
Extreme Service Trapezoidal		✓	✓		✓

D8 Desert Standard and Optional Equipment

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
POWER TRAIN		
Cat C15 engine	✓	
Desert package with unique engine, pre-cleaner, bottom guards, and seals for application		+
Fully-automatic 4-speed transmission with Lock-Up Clutch (LUC) torque divider	✓	
Aftercooler, air-to-air (ATAAC)	✓	
Coolant, extended life	✓	
Differential steering	✓	
Engine air filter with electronic service indicator	✓	
Engine air pre-cleaner with dust ejection	✓	
Engine air pre-cleaner desert configuration		+
Engine air pre-cleaner with screen and dust ejector		✓
Engine with thermal shield		✓
Engine idle shutdown	✓	
Final Drives, double reduction – Standard or LGP	✓	
Final Drives, double reduction – Waste		✓
Fuel water separator	✓	
Fuel priming pump, electric	✓	
Fan, hydraulic demand	✓	
Fan, auto reversing		✓
Fuel lines – B100 compliant (required for Indonesia)	✓	
High Capacity Fuel Tank – includes B100 compliant fuel lines		✓
Oil change system, high speed		✓
Muffler with mitered stack	✓	
Muffler with thermal shield		✓
Radiator, aluminum bar plate with debris resistant cores	✓	
High performance single plane cooling system	✓	
Sound Suppression		✓
Starting Aid, automatic ether		✓
Starting Aid, jacket water heater (110V or 220V)		✓

	Standard	Optional
CAT TECHNOLOGY		
Cat Slope Indicate	✓	
Cat Assist with ARO Package*		✓
Cat Grade 3D Ready with Assist Package (Hardware Only)*		✓
Cat Grade 3D with Assist Package*		✓
Third Party Grade Control Ready Cab		✓
Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓	
Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓	
Product Link – Cellular or Dual Mode		✓
Remote Flash/Troubleshoot	✓	
Caterpillar Track Wear Sensor		✓
Grade Connectivity		✓
Grade Corrections Radio		✓
Machine Security – Passcode	✓	
Machine Security – Bluetooth		✓
Remote Control Ready	✓	
Cat Command for Dozing		✓

*Refer to page 7 for technology package details.

+ Recommended for Desert applications

(continued on next page)

D8 Desert Standard and Optional Equipment

Standard and Optional Equipment *(continued)*

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
OPERATOR ENVIRONMENT		
Standard cab with Integrated ROPS and FOPS, laminated safety glass, sliding windows, basic display/non-ARO, standard seat	✓	
Premium cab with integrated ROPS and FOPS, laminated safety glass, sliding windows, adjustable armrests. Cab is technology – and remote control-ready.		✓
High debris cab with integrated ROPS and FOPS, impact resistant polycarbonate doors, solid side windows for improved sealing, powered pre-cleaner with Cat Advanced Cabin Filtration for improved performance and filter life. Cab is technology – and remote control-ready.		✓
203 mm (8-inch) gauge cluster display	✓	
Full-color 254 mm (10 in) liquid crystal touchscreen display		✓
High Definition rear view camera with backup lines		✓
In-display key machine features		✓
Operator ID/Operator ID with Security		✓
Cloth seat with mechanical adjustable lumbar support	✓	
Deluxe leather heated/ventilated seat with electronic adjustable lumbar support		✓
Armrests adjustable fore-aft and vertically		✓
Electrohydraulic implement and steering controls	✓	
Joystick control – ARO		✓
Decelerator pedal	✓	
Fresh air filter	✓	
Powered fresh air filter pre-cleaner		+
Cab mounted modular HVAC system with automatic reversing fans. Automatic temperature and blower control with distributed ducting.	✓	
Communication radio ready		✓
Rearview mirror	✓	
Retractable 76 mm (3 in) seat belt	✓	
Cup holders	✓	
Dash foot pads	✓	
Floor plate and pedals for shorter operators		✓

	Standard	Optional
OPERATOR ENVIRONMENT <i>(continued)</i>		
Entertainment radio with Bluetooth and microphone		✓
Lunchbox storage	✓	
Wipers	✓	
USB and Auxiliary Ports		✓
Operator presence switch	✓	
Emergency Hammer		✓
Window shades		✓
UNDERCARRIAGE		
Standard or Low Ground Pressure (LGP) undercarriage	✓	
Heavy Duty with Positive Pin Retention (PPR) undercarriage – 44 section track, sealed and lubricated, single grouser shoes	✓	
HDXL with PPR undercarriage – 44 section track, sealed and lubricated, single grouser shoes		✓
Waste undercarriage		✓
Suspension-type undercarriage	✓	
Carrier rollers	✓	
Hydraulic track adjusters	✓	
Lifetime lubricated track and roller	✓	
Moderate service track shoes (see chart on page 18)	✓	
Extreme service track shoes (see chart on page 18)		✓
Track guide	✓	
Sprocket rim segments, replaceable	✓	
8-roller tubular track roller frame (carrier roller ready)	✓	
Two-piece master links	✓	
BLADES		
Semi-Universal (SU)		✓
Universal		✓
Waste/Landfill		✓
Angle Blade		✓
Rock Guard/Wear Plate		✓
Push Plate		✓
FirstCut cutting edges (SU blades)		✓

+ Recommended for Desert applications

(continued on next page)

D8 Desert Standard and Optional Equipment

Standard and Optional Equipment *(continued)*

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
PUSH ARMS			SERVICE AND MAINTENANCE <i>(continued)</i>		
Standard	✓		Fast fuel fill		✓
Extreme		✓	High-speed oil change		✓
HYDRAULICS			Heavy duty perforated radiator doors, louvered and hinged	✓	
Load sensing hydraulics	✓		Heavy duty radiator doors for waste		✓
Independent steering and implement pumps	✓		Quick access cab floor		+
Dozer tilt hydraulics – single tilt	✓		Under hood work light		✓
Dozer tilt hydraulics – dual tilt		✓	Removable engine enclosures, perforated and hinged	✓	
Guarded blade hydraulic hoses	✓		S·O·S ports	✓	
Electronically enabled quick drop valve	✓		Shovel holder		✓
Rear hydraulics ripper and winch ready	✓		Vandalism protection for fluid compartments and battery box	✓	
ELECTRICAL			ATTACHMENTS		
Lights – 4 LED	✓		Multi-shank ripper with CapSure ripper tips and shank protector		✓
Lights – 6 LED		✓	Single shank ripper with CapSure ripper tip and shank protector		✓
Premium lights – 12 LED		✓	Pin puller (single shank)		✓
Access/egress lighting with shutdown timer		✓	Rear striker box with striker bar		✓
Backup alarm	✓		Rear striker bar		✓
Beacon warning light		✓	Rear counterweight		✓
Converter: 15 Amp, 12V outlets	✓		Drawbar		✓
Forward warning horn	✓		Winch		✓
BATTERIES, STARTERS, ALTERNATORS AND COOLANT			GUARDING AND SCREENS		
95 Amp alternator	✓		Bottom guards – standard	✓	
150 Amp alternator		✓	Bottom guards – heavy duty, powered, sealed, desert		+
150 Amp ducted alternator		+	Cab rear screen – fixed or hinged		✓
24 Volt starter	✓		Cab side screens – hinged		✓
Engine coolant, –37° C (–35° F)	✓		Fuel Tank guards		✓
Arctic engine coolant, –51° C (–60° F)		✓	HVAC guard		✓
Four maintenance free 12-volt batteries (900 cca) (24-volt system)	✓		Light guards		✓
SERVICE AND MAINTENANCE			Striker bars, front, suspended		✓
30-minute cab removal		✓	Sweeps package		✓
Centralized, remote mounted pressure taps	✓				
Ecology drains	✓				
Extended service intervals (500 hours engine, 1,000-hour power train)	✓				
Ground level service center (remote electrical disconnect, secondary shutdown switch)	✓				
Ground level service center (hour meter, jump start)		✓			

+ Recommended for Desert applications



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Build Number: 22A
(AME [excluding Saudi Arabia],
ANZ, China, S Am)

