



D9 GC

Dozer

Technical Specifications

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

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D9 GC Dozer Specifications

Engine – Tier 1 Equivalent

Engine Model	Cat® 3408C	
Bore	137 mm	5.4 in ³
Stroke	152 mm	6.0 in ³
Displacement	18.0 L	1,099 in ³
Engine Power		
Gross SAE J1995	330 kW	443 hp
ISO 14396	326 kW	437 hp
Net SAE J1349/ISO 9249	308 kW	412 hp
Emissions	U.S. EPA Tier 1 Equivalent	

- All Engine ratings apply at 1,900 rpm.
- No derating required up to 2250 m (7,381 ft) altitude.

Fluid Capacities

Fuel Tank (Splash Fill)	963 L	254 gal
Fuel Tank (Fast Fill)	939 L	248 gal
Cooling System	99.8 L	26 gal
Engine Crankcase*	48 L	13 gal
Power Train	150 L	40 gal
Final Drive – Each	15 L	4 gal
Roller Frames – Each	45 L	12 gal
Pivot Shaft Compartment	30 L	8 gal
Implement Hydraulic System	89 L	24 gal

*With oil filters.

Weights

Operating Weight	49 441 kg	108,999 lb
Shipping Weight	37 724 kg	83,167 lb

- D9 Operating Weight includes hydraulic controls, blade tilt cylinder, coolant, lubricants, full fuel tank, ROPS, FOPS cab, SU Blade, Single-Shank Ripper, 610 mm (24 in) ES shoes and operator.
- D9 Shipping Weight includes base machine chassis with cab, pivot shaft, roller frames, track and ROPS.

Hydraulic Controls

Pump Type	Piston-type geared to flywheel	
Implement Pump Output	235 L/min	62 gal/min
Fan Pump	72 L/min	19 gal/min
Tilt Cylinder Rod End Flow	137 L/min	36 gal/min
Tilt Cylinder Head End Flow	167 L/min	44 gal/min
Lift Cylinder Relief Valve Setting	26 200 kPa	3,800 psi
Tilt Cylinder Relief Valve Setting	19 300 kPa	2,799 psi
Ripper Pitch Relief Setting	26 200 kPa	3,800 psi
Ripper Pitch Relief Setting	26 200 kPa	3,800 psi

- Implement Pump output measured are 1,900 engine rpm and 20 000 kPa (2,900 psi).
- Fan Pump output measured at 1,900 engine rpm and 17 000 kPa (2,470 psi).

Undercarriage

Shoe Type	Extreme Service	
Width of Shoe	610 mm	24.0 in
Shoes/Side	43	
Grouser Height	84 mm	3.3 in
Pitch	240 mm	9.4 in
Ground Clearance	459 mm	18.1 in
Track Gauge	2250 mm	88.6 in
Length of Track on Ground	3470 mm	136.6 in
Ground Contact Area	4.23 m ²	45.6 ft ²
Track Rollers/Side	8	
Number of Carrier Rollers	1 (opt)	

Steering and Brakes

Steering Type	Clutch/Brake	
Brake Type	Spring Applied Wet Disc	
Brake Disc Diameter	393.7 mm	15.5 in
Brake Disc Count	8	
Steering Clutch Type	Pressure Applied Wet Disc	
Steering Clutch Disc Diameter	393.7 mm	15.5 in
Steering Clutch Disc Count	6	

Standards

ROPS/FOPS

- ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria ISO 3471:2008.
- FOPS (Falling Object Protective Structure) meets ISO 3449:2005 Level II.
- The declared dynamic operator sound pressure level is 85 dB(A) when “ISO 6396:2008” is used to measure the value for an enclosed cab. The measurement was conducted at 100% of the maximum engine cooling fan speed. The cab was properly installed and maintained. The measurement was conducted with the cab doors and the cab windows closed.
- 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.
- Brakes meet the standard ISO 10265.

Sound

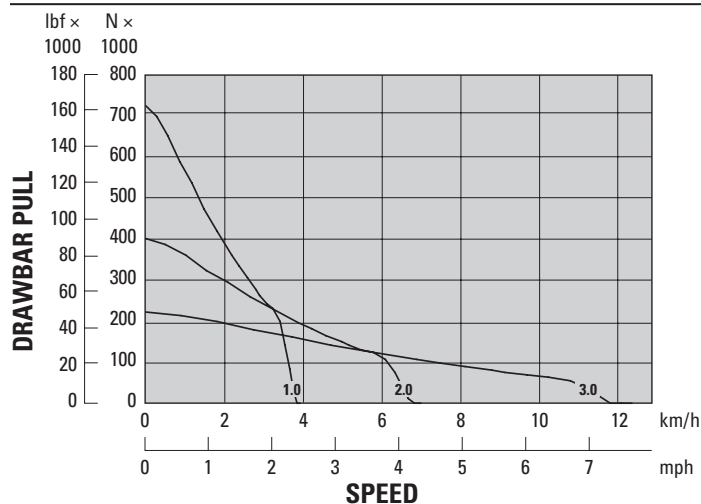
- If equipped, the certification label is used to verify the environmental sound certification of the machine to the requirements of the “Technical Regulation of Noise Radiation into the Environment” for Ukraine. The value that is listed on the label indicates the guaranteed exterior sound power level (L_{WA}) of 115 dBA at the time of manufacture for the conditions that are specified.

D9 GC Dozer Specifications

Transmission

1 Forward	3.9 km/h	2.4 mph
2 Forward	6.8 km/h	4.2 mph
3 Forward	11.9 km/h	7.4 mph
1 Reverse	4.7 km/h	2.9 mph
2 Reverse	8.4 km/h	5.2 mph
3 Reverse	14.7 km/h	9.1 mph
Type	Planetary powershift	

Drawbar Pull vs. Track Speed



Blade

	Semi-Universal		Universal	
Blade Capacity (SAE J1265)	13.6 m ³	17.8 yd ³	16.6 m ³	21.7 yd ³
Blade Width (over end bits)	4376 mm	172.3 in	4648 mm	183.0 in
Blade Height	1934 mm	76.1 in	1934 mm	76.1 in
Maximum Digging Depth	606 mm	23.9 in	606 mm	23.9 in
Ground Clearance at Full Lift	1422 mm	56.0 in	1422 mm	56.0 in
Maximum Tilt	940 mm	37.0 in	1014 mm	39.9 in
Blade Weight	4802 kg	10,587 lb	5327 kg	11,744 lb
Total Operating Weight* (with blade and single-shank ripper)	49 441 kg	108,999 lb	49 966 kg	110,156 lb

*Total Operating Weight includes: single tilt hydraulics, coolant, lubricants, full fuel tank, ROPS, FOPS cab, 610 mm (24 in) ES track shoes, operator, the noted blade and single-shank ripper.

Ripper

	Single Shank		Single-Shank Deep		Multi Shank +	
Maximum Penetration Force (shank vertical)	158 kN	35,520 lbf	172 kN	38,667 lbf	154 kN	34,621 lbf
Maximum Penetration (standard tip)	1231 mm	48.5 in	1727 mm	68.0 in	798 mm	31.4 in
Pryout Force (M.S. with one tip)	332 kN	74,637 lbf	331 kN	74,412 lbf	361 kN	81,156 lbf
Maximum Clearance Raised (under tip pinned in bottom hole)	882 mm	34.7 in	817 mm	32.2 in	879 mm	34.6 in
Number of Pockets	1		1		3	
Weight	4293 kg	9,464 lb	4420 kg	9,744 lb	4153 kg	9,156 lb
Total Operating Weight* (with blade and noted ripper)	49 441 kg	108,999 lb	49 568 kg	109,279 lb	49 301 kg	108,690 lb

*Total Operating Weight includes: single tilt hydraulics, coolant, lubricants, full fuel tank, ROPS, FOPS cab, 610 mm (24 in) ES track shoes, operator, SU Blade and noted ripper.

+Includes (1) shank; add 347 kg (765 lb) for each additional shank.

Winch

Winch Model	PA 140VS	
Weight*	1790 kg	3,950 lb
Oil Capacity	15 L	4 gal
Increased Tractor Length	557 mm	21.9 in
Drum Width	320 mm	12.6 in
Wire Cable Diameter		
Recommended	28 mm	1.13 in
Optional	32 mm	1.25 in
Maximum Drum Capacity		
Recommended Cable Length	78 m	257 ft
Optional Cable Length	62 m	204 ft
Wire Cable Ferrule Size – Outside Diameter	60 mm	2.4 in
Wire Cable Ferrule Size Length	70 mm	2.8 in

*Weight shown is base winch only. Does not include mounting arrangement, control arrangement, oil or wire rope.

With counterweight: 3700 kg (8,150 lb).

- Variable speed, hydraulically driven, dual braking system, three-roller fairlead.

Track Links and Shoes

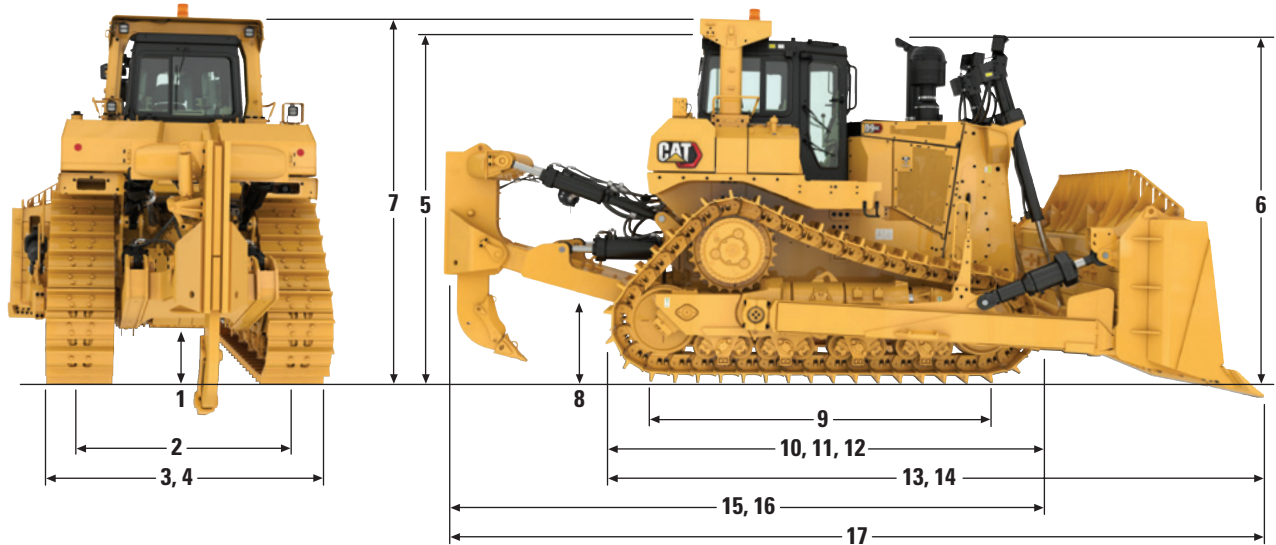
Common track link and track shoe offering shown below. Additional arrangements available; some will be offered through parts system only.

	Moderate Service	Extreme Service	Super Extreme Service	Round Hole
Heavy Duty				
560 mm (22")		✓		
610 mm (24")		✓		
610 mm (24")		✓		✓
610 mm (24")			✓	
610 mm (24") – Steel Mill			✓	
685 mm (27")		✓		
685 mm (27")		✓		✓
685 mm (27")			✓	
760 mm (30")	✓			
Heavy Duty, Extended Life with DuraLink™ (HDXL)				
610 mm (24")		✓		
685 mm (27")		✓		
General Duty				
610 mm (24")		✓		
685 mm (27")		✓		

D9 GC Dozer Specifications

Dimensions

All dimensions are approximate.



	D9 GC	
1 Ground Clearance	459 mm	18.1 in
2 Track Gauge	2250 mm	88.6 in
3 Width without Trunnions (standard shoes)	2870 mm	113.0 in
4 Width over Trunnions	3310 mm	130.3 in
5 Height (FOPS cab)	3820 mm	150.4 in
6 Height (top of stack)	3876 mm	152.6 in
7 Height (ROPS)	4000 mm	157.5 in
8 Drawbar Height (center of clevis)	763 mm	30.0 in
9 Length of Track on Ground	3470 mm	136.6 in
10 Overall Length – Basic Tractor	4910 mm	193.3 in
11 Length – Basic Tractor with Drawbar	5242 mm	206.4 in
12 Length – Basic Tractor with Winch	5545 mm	218.3 in
13 Length with SU Blade	6601 mm	259.9 in
14 Length with U Blade	6967 mm	274.3 in
15 Length with SS Ripper	6529 mm	257.0 in
16 Length with MS Ripper	6538 mm	257.4 in
17 Overall Length (SU/SS)	8219 mm	323.6 in

D9 GC Dozer Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			POWER TRAIN		
ROPS/FOPS, Sound-Suppressed Cab	✓		Cat 3408C Engine – U.S. EPA Tier 1 Equivalent	✓	
ROPS/FOPS, Canopy Only		✓	Clutch Brake with Combined Steering and Brake Control Levers	✓	
Decelerator and Governor Control	✓		Air-to-Air Aftercooler	✓	
Hydraulic Control Lever Restraints	✓		Air Filters – With In-Cab Service Indicator	✓	
Visibility – Rearview Mirrors	✓		Radiator – High-Performance Aluminum Bar Plate	✓	
Monitoring System	✓		Radiator Core Protector Grid		✓
Cab Access – Blade Pusharm Steps and Grab Handle	✓		Hydraulic Engine Cooling Fan	✓	
Air Conditioner and Heater	✓		Hydraulic Engine Cooling Fan – Push-Button Reversing		✓
Air Conditioner – Fender-Mounted Condenser		✓	Abrasion-Resistant Cooling Fan		✓
Heater Only		✓	Powershift Transmission – Three-Speed	✓	
Seatbelt, 76 mm (3 in) Retractable	✓		Precleaner – Strata™ Cap Dust Ejector	✓	
Seat – Vinyl with Mechanical Suspension		✓	Precleaner – Turbine		✓
Seat – Cloth with Mechanical Suspension	✓		Precleaner – Turbine with Screen		✓
Seat – Cloth with Air Suspension		✓	Thermal Shields	✓	
Rear Window Screen		✓	Engine Oil Prelubrication System		✓
Window Wipers with Wash – Low, High, Intermittent	✓		Starting Aid – Automatic Ether		✓
Cab Glass – Single-Pane with Slider Window	✓		Fuel Heater		✓
Cab Glass – Dual-Pane Laminated		✓	Fuel Priming Pump – Manual	✓	
Cab – Steel Mill – Single-Pane Glass with Defroster Fans		✓	Fuel Water Separator	✓	
			Final Drives, Three-Planet Double Reduction Planetary	✓	
			Final Drive Seal – Guarded		✓
			Final Drive Seal – Steel Mill		✓
			Final Drive Seal – Cold Weather		✓

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D9 GC Dozer 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
FLUIDS			ELECTRICAL		
Coolant – Extended Life, Standard (-37° C/-25° F)	✓		Alternator, 65-Amp	✓	
Coolant – Extended Life, Arctic (-51° C/-60° F)		✓	Alternator – 95-Amp		✓
High Ambient Lubrication Package		✓	Batteries – 2 × 4, 200-Amp Hour, 12V	✓	
Arctic Lubrication Package		✓	Batteries – 4 × 200, 200-Amp Hour, 12V		✓
Steel Mill Lubrication Package		✓	12V, 15-Amp Converter	✓	
UNDERCARRIAGE			12V, 20-Amp converter		✓
Undercarriage Arrangement – Abrasion		✓	Battery Isolation	✓	
Undercarriage Arrangement – Cold Weather		✓	Backup Alarm	✓	
Undercarriage Arrangement – Steel Mill		✓	Lights – Halogen – 6 Positions	✓	
Rubber Idler Guards		✓	Lights – Halogen – 10 Positions		✓
Suspension-Type Undercarriage	✓		Lights – LED – 10 Positions		✓
Track Guide	✓		Light – Warning Strobe		✓
Two-Piece Master Link	✓		Product Link™, Cellular		✓
Lifetime-Lubricated Rollers and Idlers	✓		Product Link, Dual Mode (Cellular + Satellite)		✓
Hydraulic Track Adjusters	✓		SERVICE AND MAINTENANCE		
Equalizer Bar – Greased End Pin Bearings	✓		Ecology Fluid Drains – All Compartments	✓	
Track Links – Heavy Duty XL – DuraLink		✓	Hinged Bottom Guards	✓	
Track Shoe – Anti-Packing Round Hole		✓	High-Speed Oil Change – Engine and Transmission		✓
Carrier Roller		✓	Ground-Level Fast Fuel Fill		✓
Carrier Roller – Cold Weather		✓	S·O·S SM Fluid Sampling Ports	✓	
HYDRAULICS			CapSure™ Hammerless Ripper Tip and Shank Protectors	✓	
Ripper Pin Puller		✓	Anchorage Points (2)	✓	
Guarded Tilt Cylinder Lines		✓	Hinged Quick-Access Door on Right-Side Radiator Guard		✓
Ripper Pin Puller		✓	Step Group, Dual Platform on Both Sides of Radiator Guard		✓
Dozer Blade, Dual Tilt		✓	Vandalism Protection – 8 Caplocks	✓	
Quick Drop	✓				
Load-Sensing, Dozer Lift and Tilt	✓				
Load-Sensing, Ripper Lift and Pitch	✓				

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D9 GC Dozer 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
REAR ATTACHMENT			GUARDS		
Ripper – Single Shank		✓	Guarding – Fuel and Hydraulic Tank		✓
Ripper – Single Shank (with pin puller)		✓	Bottom Guard – Full Set	✓	
Ripper – Single-Shank Deep		✓	Bottom Guard – Full Set, Sealed		✓
Ripper – Multi Shank (three shank)		✓	Bottom Guard – Partial Set		✓
Ripper – Multi Shank (steel mill)		✓	Bottom Guard – Full Set, Front Counterweight		✓
Counterweight		✓	Guarding – Tilt Cylinder lines		✓
Winch		✓	SPECIAL ARRANGEMENTS		
Drawbar		✓	Desert		✓
Ripper Ready		✓	Steel Mill		✓
BLADES			Arctic		✓
Semi-Universal (13.6 m ³ /17.8 yd ³)		✓	Corrosion Resistant – Paint and Electrical Connector Protection		✓
Semi-Universal Abrasion (13.6 m ³ /17.8 yd ³)		✓			
Universal (16.6 m ³ /21.7 yd ³)		✓			
Universal Abrasion (16.6 m ³ /21.7 yd ³)		✓			
Semi-Universal Push Plate (13.6 m ³ /17.8 yd ³)		✓			
Coal (36.8 m ³ /48.2 yd ³)		✓			

- Some blades only available through Cat Work Tools.
- SU Abrasion and U Abrasion are available with black paint on back side.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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