



Cat[®] D7

Track-Type Tractor

The new Cat[®] D7 joins the growing family of Next Generation Dozers, delivering more productivity and high drive undercarriage value. A fully automatic 4-speed transmission makes efficient operation easy. The broadest range of technology features in the industry work together seamlessly to help you make the most of your equipment investment.

Fully Automatic, Next Generation Performance

- Harness 6% more weight and 12% more horsepower than D7E to take on a wide range of dozing and grading tasks.
- Move up to 8% more material per hour.
- Like D6 and D8, fully automatic 4-speed powershift transmission continuously adjusts for maximum efficiency and power to the ground without added operator input.
- SU and S blades are 10% larger to help you get jobs done in fewer passes.
- Elevated sprocket gives you better ride and balance, plus more penetration force.
- Long undercarriage is standard, with more track at the rear of the machine for superior dozing performance.
- Outfit your dozer from the factory to take on the challenges of waste handling, land clearing, dredging and more.

Unprecedented Technology Choices

- Cat[®] GRADE with Slope Assist™ automatically maintains pre-established blade position without a GPS signal – no additional hardware or software needed.
- Factory integrated Cat GRADE with 3D uses GPS to control the blade so you can get to design plan faster.
- Cat GRADE with 3D has no masts – small antennas are integrated into the cab roof and GPS receivers are mounted inside the cab for better protection.
- GRADE operator interface is intuitive and easier to use: 254 mm (10 in) touchscreen, Android OS platform, operates like a smart phone.
- Slope Indicate shows machine cross-slope and fore/aft orientation right on the main display to help operators with slope work.
- Attachment Ready Option (ARO) comes from the factory with key sensors and wiring installed so you can easily upgrade to fully integrated grade control or blade mounted system.
- Install the aftermarket grade control system of your choice easily with optimal mounting locations in the cab.

Boost Operator Efficiency

- New assist features just work behind the scenes to help make machine operation easier.
- Make the most of every pass with Blade Load Monitor to help you optimize blade capacity.¹
- Stable Blade works seamlessly with operator inputs to help produce a smoother surface.
- Traction Control automatically reduces track slip to save you time, fuel and track wear.¹
- AutoCarry automates blade lift to help you maintain consistent blade load and help reduce track slip.¹

Comfort and Visibility

- Common cab with D5 and D6, for a whole new standard in comfort and productivity.
- Easy-to-use 254 mm (10 in) touchscreen main display.
- Standard High Definition rearview camera shows prominently in the main display.
- Key Features Help, built into the display, gives you an overview of machine and technology features and helpful operating tips.
- Wide air suspension seat has multiple adjustments for personalized comfort. Armrest adjusts independent of the seat.
- Distributed cab heating/cooling circulates air effectively around the operator and helps reduce window fogging/frosting.
- Ample storage spaces throughout the cab.
- Convenient USB and Auxiliary power ports in cab.



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Built-in Durability

- Elevated sprocket protects major components from shock loads.
- Heavier frame and structures for added durability.
- Cat C9.3B engine eliminates Exhaust Gas Recirculation (EGR) system for greater reliability; Simplified with a single engine Electronic Control Module (ECM).
- Redesigned fuel system provides greater reliability and more accurate fuel delivery.
- New Heavy Duty Extended Life undercarriage – HDXL with DuraLink™ – provides up to 20 percent more seal life in high impact conditions.
- Heavy-duty batteries for more cold-cranking power.

Because Uptime Counts

- Elevated sprocket makes cleanout easier and provides convenient, modular service.
- Standard dozer under 3.7 m (12 ft) shipping width for easier transport with blade installed.
- New track roller frame with larger roller shafts adds durability and ease of cleanout.
- Reversible hydraulic demand fan helps remove debris while you work, saving cleanout and maintenance time.
- Longer life LED lights help save you time and money.
- Easy access under the cab floor if needed. Cab can be removed in about 30 minutes.
- Platform with guard rail makes refueling and DEF fill convenient.

Waste Handling Performance

- Cat Waste Handlers are designed and built from the frame up to take on the challenges of landfill work.
- Specialized guarding, striker bars and seals help protect machine and undercarriage from impact, wrapping and airborne debris.
- Impact-resistant polycarbonate cab doors eliminate need for door screens.
- High-debris cooling system with automatic reversing fan and swing-out cleanout access.
- Lights mounted up and away from main debris area for protection, while still giving you plenty of light on the work area.
- Waste undercarriage, center-hole track shoes and landfill blades help optimize performance.
- Laminated thermal shields and insulated Clean Emissions Module.

Connect to Greater Efficiency

- Product Link™ collects machine data that can be viewed online through web and mobile applications.
- Access information anytime, anywhere with VisionLink® – and use it to make informed decisions that boost productivity, lower costs, simplify maintenance, and improve safety and security on your job site.
- The Cat App helps you manage your assets – at any time – right from your smartphone. See fleet location and hours, get critical required maintenance alerts, and even request service from your local Cat dealer.
- Remote Troubleshoot saves time and money by allowing your Cat dealer to perform diagnostic testing remotely.
- Remote Flash updates on-board software without a technician being present, at a time that is convenient for you, potentially reducing update time by as much as 50%.

Remote Control Ready

- Cab is Remote Control Ready from the factory with external connector for dealer installation of a plug-and-play roof-mounted remote control unit.
- Cat COMMAND for Dozing offers remote control operation for enhanced safety and greater productivity.
- COMMAND uses line-of-sight (LOS) control with an over-the-shoulder console, or a non-line-of-sight (NLOS) option using the Cat Command Station to run the machine remotely.

Saved Settings, Added Security

- Application Profile lets you save machine settings based on application or operator preference – save multiple profiles for various jobs or multiple operators.
- Operator ID allows you to save machine settings and to track individual operator productivity, safety and training opportunities via Product Link.²
- Machine Security – Passcode helps prevent theft and unauthorized operation by requiring an operator to enter an ID to start the machine.²

All comparisons to D7E

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

²Can be enabled by dealer technician.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
POWER TRAIN			BLADES		
Fully-automatic 4-speed transmission	✓		Semi-Universal		✓
Cat C9.3B diesel engine	✓		Universal		✓
Double reduction 3-planet planetary final drives	✓		Straight blade		✓
Electric fuel priming pump	✓		Angle blade		✓
OPERATOR ENVIRONMENT			Waste/Landfill		✓
Fully redesigned cab, sound suppressed, with Integrated Roll Over Protective Structure (IROPS)	✓		<i>For a full list of blade offerings, please refer to the Technical Specifications brochure on cat.com.</i>		
Dual pane/polycarbonate window		✓	UNDERCARRIAGE		
Special Application Cab			Heavy Duty (HDXL with DuraLink)	✓	
Full-color 254 mm (10 in) liquid crystal touchscreen display	✓		Redesigned track roller frame	✓	
Integrated rearview camera	✓		Moderate Service or Extreme Service track shoes		✓
Adjustable operator controls/armrests	✓		Waste or Cold Weather undercarriage		✓
Cab mounted modular HVAC system	✓		<i>For a complete listing of track shoe offerings, please refer to the Technical Specifications brochure on cat.com.</i>		
Added storage areas	✓		SERVICE AND MAINTENANCE		
Electrohydraulic implement and steering controls	✓		Fast fuel fill ready	✓	
Cloth seat	✓		Hydraulic reversing fan	✓	
Deluxe leather heated/ventilated seat		✓	Shovel holder	✓	
Communication radio ready		✓	Ground level service center	✓	
Lights – 6 LED	✓		30-minute cab removal	✓	
Premium lights – 12 LED		✓	Quick access cab floor		✓
Integrated warning lights		✓	Fire extinguisher mounting provision	✓	
CAT TECHNOLOGY			Ecology drains	✓	
Slope Indicate	✓		High-speed oil change		✓
ARO with Assist (GRADE Ready + Assist features)		✓	Underhood work light	✓	
– Slope Assist			HYDRAULICS		
– Traction Control			Independent steering and implement pumps	✓	
– Stable Blade			Load sensing hydraulics	✓	
– Blade Load Monitor			ATTACHMENTS		
– AutoCarry			Ripper-ready rear hydraulics	✓	
– Third Party Grade Control Ready			Multi-shank ripper		✓
Cat GRADE with 3D (includes ARO with Assist features)		✓	Winch		✓
– Full-color 254 mm (10 in) touchscreen grade display			Drawbar		✓
Product Link, Cellular	✓		Counterweights		✓
Product Link – Dual Cellular/Satellite		✓	Striker bar box		✓
Remote Flash/Troubleshoot	✓		Side screens		✓
Grade Connectivity		✓	Rear screen – hinged or fixed		✓
Operator ID	✓		Sweeps		✓
Machine Security – Passcode	✓		Waste and Forestry Special Arrangements		✓
Machine Security – Bluetooth®		✓			
Remote Control Ready	✓				
Cat COMMAND for Dozing		✓			

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area. For additional information, refer to the Technical Specifications brochure available at www.cat.com or your Cat dealer.



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Technical Specifications

Engine		
Engine Model	Cat C9.3B	
Emissions	U.S. EPA Tier 4 Final/EU Stage V/ Japan 2014/Korea Tier 4 Final	
Build Number	17A	
Power Train	Fully Automatic 4-Speed	
Net Power – 2,200 rpm		
ISO 9249/SAE J1349	197 kW	265 hp
ISO 9249/SAE J1349 (DIN)	268 hp	
Displacement	9.3 L	567 in ³

- All non-road Tier 4 Interim and Final, Stage IIIB, IV and V, Japan 2014 (Tier 4 Final) and Korea Tier 4 Final diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm EPA/10 ppm EU (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-ULS™ 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.
- Diesel Exhaust Fluid (DEF) used in Cat Selective Catalytic Reduction (SCR) systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241.
- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.36 kg of refrigerant which has a CO₂ equivalent of 1.946 metric tonnes.

Service Refill Capacities		
Fuel Tank	465.0 L	122.8 gal
DEF Tank	44.0 L	11.6 gal

Operating Weight		
SU with Ripper	29 776 kg	65,644 lb
LGP S with Drawbar	28 677 kg	63,220 lb
Waste Handler	28 140 kg	62,035 lb
<i>SU ripper weight with three ripper shanks = 2993 kg/6,596 lb</i>		

Ground Pressure**		
SU with Ripper	72.1 kPa	10.5 psi
LGP S with Drawbar	43.4 kPa	6.3 psi
Waste Handler	68.3 kPa	9.9 psi
**Standard size shoes and drawbar attachment per ISO 16754.		

Blades				
	Capacity		Width	
Semi-Universal (SU)	7.4 m ³	9.7 yd ³	3500 mm	138.0 in
LGP Straight (S)	6.2 m ³	8.1 yd ³	4150 mm	163.0 in
Angle (A)	4.2 m ³	5.4 yd ³	4320 mm	170.0 in
LGP Angle (A)	4.7 m ³	6.2 yd ³	4770 mm	188.0 in
Universal (U)	8.6 m ³	11.2 yd ³	3788 mm	149.0 in
Universal Landfill	16.6 m ³	21.7 yd ³	3788 mm	149.0 in

Dimensions*						
	SU		LGP S		Waste Handler	
Track Gauge	1981 mm	78.0 in	2235 mm	88.0 in	1981 mm	78.0 in
Width of Standard Shoe	610 mm	24.0 in	915 mm	36.0 in	610 mm	24.0 in
Width of Tractor (without trunnions)	2591 mm	102.0 in	3150 mm	124.0 in	2591 mm	102.0 in
Machine Height (to ROPS)	3354 mm	132.0 in	3354 mm	132.0 in	3354 mm	132.0 in
Machine Height (to ROPS) including Grouser Height	3436 mm	135.3 in	3428 mm	135.0 in	3436 mm	435.3 in
Length of Track on Ground	2972 mm	117.0 in	3200 mm	126.0 in	2972 mm	117.0 in
Length of Basic Tractor	4659 mm	183.4 in	4659 mm	183.4 in	4659 mm	183.4 in
With the following attachments, add to basic tractor length:						
SU Blade	1125 mm	44.0 in			1125 mm	44.0 in
S Blade			840 mm	33.0 in		
U Blade	1365 mm	54.0 in			1365 mm	54.0 in
Landfill Blade	1125 mm	44.0 in	840 mm	33.0 in	1125 mm	44.0 in
Drawbar	260 mm	10.2 in	270 mm	10.6 in	260 mm	10.2 in
Ripper	1555 mm	61.2 in	1565 mm	61.6 in	1555 mm	61.2 in
Winch	735 mm	28.9 in	745 mm	29.3 in	735 mm	28.9 in

*Heavy Duty Undercarriage

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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