



Cat[®] D6 XE

Track-Type Tractor

The Cat[®] D6 XE is the world's first high drive Electric Drive dozer, offering you the highest level of productivity, fuel efficiency and ease of operation. With next-generation Electric Drive technology there are no gears to shift, so you experience constant power to the ground, greater agility and faster cycle times. Put more profit in your pocket too, with up to 35 percent better fuel efficiency and reduced service/maintenance costs. The broadest range of technology features in the industry work together seamlessly to help you make the most of your equipment investment.

More Efficient

- Up to 35 percent better fuel efficiency.¹
- Use up to 23 percent less fuel.²
- Electric Drive provides constant power to the ground.
- Class-leading maneuverability and power gives you more agility and faster cycle times.
- Unprecedented ease of operation – automatically optimizes for the application with no gears to shift.
- Lower greenhouse gas emissions – up to 23 percent less CO₂.

Greater Productivity

- Move up to 35 percent more material per liter/gallon of fuel used.
- Move up to 10 percent more material per hour.
- Purpose-built Variable Power Angle Tilt (VPAT) tractor features a new frame and optimized balance for grading – no need for rear attachment.
 - New LGP VPAT design, with 915 mm (36 in) centered shoes, offers 35 kPa (5.1 psi) ground pressure.
 - Wider blade on the LGP VPAT for more efficient high-speed grading.
 - Class-leading VPAT range of motion for improved performance, especially when trenching or backfilling.
 - VPAT blade remains level when angled for smoother grade.
- More robust push arm dozer for heavy applications with larger SU blade capacity.
- New 10-roller undercarriage option designed for smoother grades at higher speeds, even in difficult surfaces like sand and gravel.
- Execute pivot turn or full counter-rotation while in gear.

Unprecedented Technology Choices

- Cat Grade with Slope Assist[™] automatically maintains operator's 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: 10-inch (254 mm) 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.

*All comparisons to 2014-2016 3-speed D6T (U.S. EPA Tier 4 Final/EU Stage IV).
Maintenance comparisons to D6T over initial 10,000 hours of operation.*

¹ Material moved per liter/gallon of fuel.

² Liters/gallons per hour.



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Boost Operator Efficiency

- New assist features 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.³
- 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.³
- AutoCarry automates blade lift to help you maintain consistent blade load and help reduce track slip.³

Durability

- Almost 90 percent fewer rotating parts than a traditional power train – generates less heat, aids serviceability and component life – no loss of efficiency over time.
- Next generation Electric Drive technology: Switched Reluctance system with simple, more robust rotor design.
- C9.3B engine eliminates Exhaust Gas Recirculation (EGR) system for greater reliability; simplified with a single engine Electronic Control Module (ECM) and improved engine air filter.
- Redesigned fuel system provides greater reliability and more accurate fuel delivery.
- Heavy Duty Extended Life undercarriage – HDXL with DuraLink™ – features Positive Pin Retention pins and link improvements for up to 20 percent more seal life in high impact conditions.
- New Cat Abrasion undercarriage is your lowest cost-per-hour solution for high abrasion and low impact jobsites. The new design offers double the seal life and eliminates bushing turns, reducing your costs up to 50 percent per hour compared to traditional undercarriage. Reduces link scalloping for smoother operation.
- Common structures for Heavy Duty and Cat Abrasion undercarriage enable changes from one to the other.
- Purpose-built Waste and Forestry arrangements.
- D6 XE Electric Drive Power Train Assurance Plan offers added confidence:
 - Covers parts and labor on the Electric Drive power train for seven-years/20,000 hours.
 - Fully transferable.

Ease of Operation

- Completely redesigned cab for a whole new standard in visibility, comfort, productivity.
- New 10-inch (254 mm) touchscreen display with easy-to-use operator interface.
- Distributed cab heating/cooling circulates air more effectively around the operator and helps reduce window fogging/frosting.
- Wider air suspension seat has multiple adjustments for personalized comfort.
- Entire armrest adjusts forward and backward independent of the seat.
- Detented thumbwheel on the steering control allows easy speed setting changes.
- More storage spaces throughout the cab.

Reduced Service and Maintenance Costs

- Up to 12 percent lower maintenance cost – designed specifically to save you money with updated components, longer service intervals, fewer scheduled maintenance tasks.
- Elevated sprocket allows power train to slide out from the back of the dozer like traditional machine.
- Simplified Electric Drive diagnostics via Electronic Technician.
- New, serviceable power electronics components with easy access through a panel in the back of the cab.
- Fewer filters and service points save you time and money on routine maintenance.
- Cab air filter replacement extended to 500 hours.
- Optional powered precleaner extends cab filter replacement to 1,000 hours.
- Standard reversing fan extends the time between core clean-outs.
- Generator accessible via 30-minute cab removal.
- Power train oil life extended from 1,000 to 2,000 hours.

Safety

- Approximately 15 percent more glass area and Integrated ROPS offers added visibility.
- Standard integrated High Definition (HD) rearview camera in the primary display.
- Hood design and alignment of the exhaust and precleaner provide a better view to the front of the tractor.
- Standard ladder at the back of the machine for convenient access for fuel fill, window cleaning and maintenance.
- Ground-level access to optional fast fuel fill.
- Grab rail on both sides of cab roof and tie offs provide added safety.
- Improved cab filtration for cleaner operator environment.

Remote Control Ready

- Premium cab package includes remote control ready wiring, allowing for dealer installation of a plug-and-play roof-mounted remote control unit.
- Cat Command for Dozing⁴ provides a remote control solution for enhanced safety and greater productivity and is offered as Command Console for line-of-sight (LOS) remote control, or with a Command Station for non-line-of-sight (NLOS) remote control.

³ Feature not operational indoors or in areas where GPS signal is not available.

⁴ Please consult your Cat dealer for availability.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
POWER TRAIN			CAT TECHNOLOGY		
Electric Drive	✓		Slope Indicate	✓	
Cat C9.3B diesel engine	✓		ARO with Assist		✓
Double reduction planetary final drives	✓		– Slope Assist		
Hydraulic reversing fan	✓		– Traction Control		
OPERATOR ENVIRONMENT			– Stable Blade		
Fully redesigned cab, sound suppressed, with Integrated Roll Over Protective Structure (IROPS)	✓		– Blade Load Monitor		
Full-color 10-inch (254 mm) liquid crystal touchscreen display	✓		– AutoCarry		
Integrated rearview camera	✓		– Third Party Grade Control Ready		
Adjustable operator controls/armrests	✓		Cat Grade with 3D		✓
Powered precleaner		✓	– Full-color 10-inch (254 mm) touchscreen grade display		
Added storage areas	✓		– Grade receivers and antennas		
Cloth seat	✓		– Grade Software Enabled Attachment (SEA)		
Deluxe leather heated/ventilated seat		✓	– ARO with Assist features		
Communication radio ready		✓	Product Link, Cellular	✓	
Lights – 6 LED	✓		Product Link – Dual Cellular/Satellite		✓
Premium lights – 12 LED		✓	Remote Flash/Troubleshoot	✓	
Integrated warning lights		✓	Grade Connectivity		✓
BLADES			Operator ID	✓	
Semi-Universal		✓	Machine Security – Passcode	✓	
VPAT		✓	Machine Security – Bluetooth		✓
Straight blade		✓	Remote Control Ready	✓	
Angle blade		✓	Cat Command for Dozing		✓
Foldable VPAT – under 3 m (9.9 ft) transport width (not available in all regions)		✓	UNDERCARRIAGE		
Waste/Landfill		✓	Heavy Duty (HDXL with DuraLink) or Cat Abrasion		✓
SERVICE AND MAINTENANCE			10-Roller Fine Grading undercarriage		✓
Fast fuel fill	✓		HYDRAULICS		
Rear access ladder	✓		Independent steering and implement pumps	✓	
Shovel holder	✓		Load sensing hydraulics	✓	
Ground level service center	✓		ATTACHMENTS		
30-minute cab removal	✓		Ripper-ready rear hydraulics	✓	
High-speed oil change		✓	Ripper and winch-ready rear hydraulics	✓	
Rear implement work light		✓	High lift ripper		✓
Underhood work light	✓		Winch		✓
			Drawbar		✓
			Counterweights		✓
			Side and/or rear screens		✓
			Sweeps		✓
			Forestry and Waste Special Arrangements		✓

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

Power Train	Electric Drive	
Engine	Cat C9.3B	
Emissions	U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 4 Final	
Build Number	20B	
Net Power at Rated Speed – 1,700 rpm		
ISO 9249/SAE J1349	161 kW	215 hp
ISO 9249/SAE J1349 (DIN)	219 mhp	
Fuel Tank	341 L	90 gal
DEF Tank	28 L	7.4 gal

Blade	Capacity		Width	
	m ³	yd ³	mm	ft
SU	5.7 m ³	7.5 yd ³	3312 mm	10.9 ft
LGP SU	5.8 m ³	7.6 yd ³	3613 mm	11.9 ft
LGP S	3.8 m ³	5.0 yd ³	4063 mm	13.3 ft
VPAT	4.1 m ³	5.4 yd ³	3680 mm	12.1 ft
LGP VPAT (30-in)	4.5 m ³	5.9 yd ³	4000 mm	13.1 ft
LGP VPAT (36-in)	4.9 m ³	6.5 yd ³	4340 mm	14.2 ft

- Net power advertised is the power available at the engine flywheel when the engine is equipped with a fan, air cleaner, clean emissions module and alternator.
- Net power is tested per ISO 9249:2007 and SAE J1349:2011.
- All non-road Tier 4 Interim and Final, Stage IIIB, IV and V, 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.

Configuration	D6 XE		D6 XE LGP (30-in)		D6 XE LGP (36-in)		D6 XE VPAT		D6 XE LGP (30-in) VPAT		D6 XE LGP (36-in) VPAT	
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Operating Weight¹	22 403	49,388	23 143	51,020	24 184	53,315	22 548	49,708	23 285	51,333	23 820	52,512
Ground Pressure	55 kPa	8.0 psi	45 kPa	6.6 psi	37 kPa	5.3 psi	49 kPa	7.2 psi	41 kPa	5.9 psi	35 kPa	5.1 psi
Machine Height	3.17 m	124.9 in	3.17 m	124.9 in	3.22 m	126.9 in	3.22 m	126.9 in	3.22 m	126.9 in	3.22 m	126.9 in
Length of Machine without Blade	4.73 m	186.2 in	4.73 m	186.2 in	5.04 m	198.4 in	5.13 m	202.1 in	5.13 m	202.1 in	5.13 m	202.1 in
Ground Clearance	361 mm	14.2 in	361 mm	14.2 in	395 mm	15.6 in	422 mm	16.6 in	395 mm	15.6 in	383 mm	15.1 in
Track Gauge	1.93 m	76 in	2.08 m	82 in	2.29 m	90 in	2.08 m	82 in	2.29 m	90 in	2.39 m	94 in
Width over Trunnions	2.69 m	106 in	2.99 m	118 in	3.49 m	137.4 in	—	—	—	—	—	—
Width across End Bits	3.30 m	10.83 ft	3.61 m	11.84 ft	4.06 m	13.32 ft	3.68 m	12.07 ft	4.00 m	13.12 ft	4.34 m	14.24 ft
Width across End Bits, Angled	—	—	—	—	—	—	3.36 m	11.02 ft	3.65 m	11.99 ft	3.97 m	13.02 ft
Width of Standard Track Shoe	610 mm	24 in	760 mm	30 in	915 mm	36 in	610 mm	24 in	760 mm	30 in	915 mm	36 in
Length of Track on Ground	2.96 m	116.7 in	2.96 m	116.7 in	3.25 m	127.8 in	3.25 m	127.8 in	3.36 m	132.1 in	3.36 m	132.1 in

¹ With Multi-Shank Ripper (three shanks) add 1696 kg (3,739 lb).

For complete specifications and offerings, please reference the Technical Specifications document at www.cat.com or consult your local Cat dealer.

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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AEXQ2463-02 (10-2020)
Replaces AEXQ2463-01
Build Number: 20B
(Aus-NZ, Europe, N. Am, S. Korea, Turkey)

