



Cat[®] D11

Dozer

The new Cat[®] D11 Dozer delivers higher productivity at lower cost. The latest technology provides operator with full command of the dozer for safe and efficient operation. This means you can comfortably move more material in less time, at a lower cost per ton, for a faster payback on your investment. This intelligent dozer has a sophisticated machine protection strategy, as well as a machine guidance system which further drives higher productivity and lower cost.

Greater Operator Safety, Comfort and Control

- Improved access ladder with engine-off raise and lower capability.
- Easier cab access with ladder installed. Cab door swing option allows left- or right-side opening.
- Access lighting can be controlled from the cab or the ground-level electrical center. Delayed egress lighting allows exiting the machine with lighting.
- Strategically located mirrors and available rearview cameras, including 360 vision system.
- New operator station with high-definition touchscreen displays and new electronic architecture that's ready for the future.
- Improved rearward visibility to ripper shank.
- Engineered and tested fire-suppression system.
- Engine idle – shutdown.
- Engine overspeed protection.
- Brake temperature estimator – forewarns the operator before brakes overheat.
- Continuous fluid monitoring system – monitors all fluids during operation and warns operator.
- Enhanced Auto Shift (EAS), AutoCarry™ and Auto Rip provide total control of the machine for efficient operation.
- “OK to Start” fluid level monitoring for all fluid compartments enables final fluid verification before startup.
- Anchorage points strategically located for safety tie-off during service and maintenance.

Exceptional Durability – Engineered to be Rebuilt for Multiple Lives and Lowest TCO

- Redesigned case and frame for longer life.
- Larger equalizer bar with improved bearings.
- Robust track roller frame – carrier roller ready.
- Ripper and blade pin bores with replaceable bearings.
- Replaceable push-arm trunnion bearing inserts.
- Proven elevated sprocket undercarriage design provides longer component life.

Designed for Ease of Maintenance and Repair to Minimize Downtime and Cost

- 30 percent larger engine oil sump capacity extends 500-hour PM intervals in challenging environments.
- Auto Lube system with ground-level fill and automatic shutoff capability.
- Replaceable blade push-arm trunnion bearing inserts.
- Continuous fluid monitoring on all compartments, including direct fluid monitoring of hydraulic tank and pivot shaft reservoir.
- Remote steering clutch and brake pressure disconnects relocated from under the cab to outside of cab for ease of access.
- Ground-level electrical center features:
 - Access lighting switch
 - Machine control lockout – prevents movement during service
 - Engine shutdown switch
 - Access ladder raise-and-lower switch (if equipped)
 - Remote-control mode switch (if equipped)
- Ground-level service fluid change for coolant, hydraulic, engine and power train oil.
- New single-plane cooling system for ease of cleaning.
- Robust variable piston pumps for the new load-sensing hydraulic system runs cooler for longer component and seal life.
- Larger and more robust equalizer bar with long-life fiber-wound bearing.
- Touchscreen primary display in operator station provides machine health information.



Cat® D11 Dozer

The Latest Technology Delivers Optimum Productivity and Efficiency

- Up to six percent lower cost per ton with improvements in productivity, fuel efficiency and lower M&R.
- High-horsepower reverse for faster cycle times and greater productivity – up to eight percent.
- Stator clutch torque divider for improved driveline efficiency.
- High-efficiency load-sensing hydraulic system for improved hydraulic implement response and fuel efficiency.

- Combined load-sensing hydraulics and stator clutch torque divider deliver up to eight percent better fuel efficiency.
- Improved cooling system for better heat rejection and easier cooling core cleanout.
- Improved reversing fan function for faster reverse flow radiator cleanout.
- Extended blade pitch option for improved productivity.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			CAT POWER TRAIN		
ROPS/FOPS, Sound-Suppressed Cab	✓		Cat C32 Engine – U.S. EPA Tier 4 Final or Tier 2 Equivalent	✓	
High-Definition Primary Touchscreen Display	✓		High-Performance Single-Plane Cooling Module	✓	
MineStar™ Terrain Display		✓	Stator Clutch Torque Divider – Electronic Control	✓	
Visibility – Rearview Mirrors	✓		Powershift Transmission – Three-Speed Electronic Shift	✓	
Visibility – Dual Camera		✓	Hydraulic Cooling Fan – Automatic Reversing		✓
Visibility – Four Cameras, 360 Degree View		✓	UNDERCARRIAGE		
Air Conditioner and Heater with Automatic Climate Control	✓		Suspension Type Undercarriage	✓	
Seat – Cloth with Air suspension	✓		Sleeve Bearing Track	✓	
Seat – Heated, Cooled, Adjustable Lumbar and Bolsters		✓	Lifetime-Lubricated Rollers and Idlers	✓	
Cab Glass – Single-Pane Tinted Safety	✓		Track Shoe (ES): 710 mm (28 in) Width	✓	
Cab Glass – Dual-Pane Laminated Impact Safety		✓	Track Shoes (ES): 810/915 mm (32/36 in) Width (various configurations)		✓
Cab Glass – High-Pressure Safety (40 psi/275 kPa)		✓	Track Links – High Abrasion – Tall Link		✓
Cab Access – Blade Push Arm Steps and Grab Handle	✓		Track Links – Heavy Duty XL – Duralink		✓
Cab Access – Powered Ladder		✓	Track Shoe – Abrasion Resistant		✓
CAT TECHNOLOGY PRODUCTS			Track Shoe – Anti-Packing Round Hole		✓
VIMS	✓		Abrasion Rollers and Idlers		✓
Automated Blade Assist (ABA)	✓		Cold Weather Rollers and Idlers		✓
AutoCarry™		✓	Sound Suppression Undercarriage		✓
Auto Ripper Control		✓	Carrier Roller		✓
Cat Terrain with 3D Blade Control		✓			
Cat Terrain Ready		✓			
Cat Product Link™ Elite (cellular)	✓				
Cat Product Link Elite Dual Mode (cellular + satellite)		✓			
Cat Command for Dozing Ready		✓			

(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
HYDRAULICS			REAR ATTACHMENTS		
Electronically Controlled, Load-Sensing Dozer Lift and Tilt	✓		Ripper – Single Shank with Pin Puller		✓
Electronically Controlled, Load-Sensing Ripper Lift and Pitch	✓		Ripper – Single Shank Pushblock with Pin Puller		✓
Carrydozer Hydraulics		✓	Ripper – Single Shank with Pin Puller – Heavy		✓
Dozer Blade – Dual Tilt	✓		Ripper – Multi Shank (three shank)		✓
Dozer Extended Blade Pitch		✓	Ripper – Multi Shank – Heavy (three shank)		✓
Electronically Enabled Blade – Quick Drop	✓		Ripper – Multi Shank Leach Pad with Pin Puller		✓
Ripper Pin Puller		✓	Ripper – Multi Shank – Coal (five shank)		✓
ELECTRICAL			BLADES		
24V Electric Start, Dual Starters	✓		Semi-Universal (27.2 m ³ /35.6 yd ³)		✓
Batteries – 4 × 4,200-Amp Hour, 12V	✓		Universal (34.4 m ³ /45.0 yd ³)		✓
Battery Isolation	✓		Carrydozer (43.6 m ³ /57 yd ³)		✓
Battery Isolation – Dual Pole		✓	Reclamation Universal (42 m ³ /55 yd ³)		✓
Lights – Halogen – 13 Positions	✓		Reclamation Universal (53.5 m ³ /70 yd ³)		✓
Lights – LED – Premium Package		✓	Coal Universal (75 m ³ /98.0 yd ³)		✓
SERVICE AND MAINTENANCE			OTHER		
Ecology Fluid Drains – All Compartments	✓		Fire Suppression Ready		✓
Hinged Bottom Guards	✓		Fire Suppression Installed		✓
Sound Reduction Sealed Bottom Guards		✓			
High-Speed Oil Change – Engine and Transmission	✓				
Ground-Level Fast Fuel Fill	✓				
Ground-Level Fluid Fill and Drain		✓			
Ground-Level Electrical Service Station	✓				
S-O-S SM Fluid Sampling Ports	✓				
Diagnostic Connector	✓				
Ripper Lubrication – Autolube with Ground-Level Fill		✓			
Ripper Lubrication – Grouped – Ground-Level Fill		✓			

Cat® D11 Dozer

Technical Specifications

Engine – U.S. EPA Tier 2 Equivalent

Engine Model	Cat C32	
Bore	145 mm	5.7 in
Stroke	162 mm	6.4 in
Displacement	32.1 L	1,959 in ³
Engine Power		
Gross SAE J1995*		
Forward	670 kW	899 hp
Reverse	757 kW	1,015 hp
ISO 14396		
Forward	657 kW	882 hp
Reverse	744 kW	998 hp
Net SAE J1349/ISO 9249		
Forward	634 kW	850 hp
Reverse	714 kW	957 hp

*Excludes all fan losses.

• Engine ratings apply at 1,800 rpm.

• Net power advertised is the power available at the flywheel when the engine is equipped with air cleaner, muffler, alternator, fan, and engine emissions controls as required.

Engine – U.S. EPA Tier 4 Final/EU Stage V

Engine Model	Cat C32	
Bore	145 mm	5.7 in
Stroke	162 mm	6.4 in
Displacement	32.1 L	1,959 in ³
Engine Power		
Gross SAE J1995*		
Forward	670 kW	899 hp
Reverse	757 kW	1,015 hp
ISO 14396		
Forward	658 kW	882 hp
Reverse	745 kW	999 hp
Net SAE J1349/ISO 9249		
Forward	634 kW	850 hp
Reverse	712 kW	955 hp

Fuel Tank Capacities

Fuel Tank – Total Volume	1895 L	500 gal
Fuel Tank – Usable Volume	1800 L	475 gal

Weights

Operating Weight	104 236 kg	229,800 lb
Shipping Weight	39 100 kg	86,200 lb
Operating Weight – Carrydozer	113 700 kg	250,665 lb
Shipping Weight – Carrydozer	39 200 kg	86,420 lb

Transmission

1.0 Forward	4.0 km/h	2.5 mph
2.0 Forward	7.0 km/h	4.4 mph
3.0 Forward	12.2 km/h	7.6 mph
1.0 Reverse	4.8 km/h	3.0 mph
2.0 Reverse	8.5 km/h	5.3 mph
3.0 Reverse	14.7 km/h	9.1 mph

Dimensions

	D11		D11 CD	
Ground Clearance*	798 mm	31.4 in	798 mm	31.4 in
Track Gauge	2896 mm	114 in	2896 mm	114 in
Width without Trunnions (standard shoe)	3782 mm	148.9 in	3806 mm	149.8 in
Width over Trunnions	4379 mm	172.4 in	4379 mm	172.4 in
Height (FOPS cab)*	4405 mm	173.4 in	4405 mm	173.4 in
Height (top of stack)*	4549 mm	179.1 in	4549 mm	179.1 in
Height (ROPS/canopy)*	4723 mm	185.9 in	4723 mm	185.9 in
Drawbar Height (center of clevis)*	942 mm	37.1 in	942 mm	37.1 in
Length of Track on Ground	4444 mm	175 in	4444 mm	175 in
Overall Length – Basic Dozer	6160 mm	242.5 in	6160 mm	242.5 in
Length – Basic Dozer with Drawbar	6160 mm	242.5 in	6160 mm	242.5 in

*Includes grouser height for total dimensions on hard surfaces.



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