



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 Track-Type Tractor Specifications

Engine

Engine Model	Cat® C15	
Emissions	U.S. EPA Tier 4 Final/ EU Stage V/ Korea Tier 4 Final	
Build Number	21B	
Net Power (1900 rpm)		
ISO 9249/SAE J1349	264 kW	354 hp
ISO 9249/SAE J1349 (DIN)	359 mhp	
Maximum Power (1600 rpm)		
Engine Power: ISO 14396	294 kW	394 hp
Engine Power: ISO 14396 (DIN)	400 mhp	
Gross Power: SAE J1995:2014	294 kW	394 hp
Bore	137 mm	5.4 in
Stroke	172 mm	6.75 in
Displacement	15.2 L	928 in ³

- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- Net power is tested per ISO 9249:2007 and SAE J1349:2011.
- Engine power is tested per ISO 14396:2002.
- No derating required up to 3566 m (11,700 ft) altitude, beyond 3566 m (11,700 ft) automatic derating occurs.
- All nonroad Tier 4 Final, Stage V, Korea Tier 4 Final diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) with 15 ppm (mg/kg) of sulfur or less, or up to B20 biodiesel blended with ULSD. B20 should meet ASTM D7467 specification (biodiesel blend stock should meet Cat biodiesel spec, ASTM D6751 or EN 14214). Cat DEO-ULST™ 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.

Service Refill Capacities

Fuel Tank	627 L	165 gal
Diesel Exhaust Fluid Tank	24 L	6.3 gal
Cooling System	86 L	22.7 gal
Engine Crankcase*	38 L	10.0 gal
Power Train	155 L	41.0 gal
Final Drives (each)	12.5 L	3.3 gal
Roller Frames (each)	65 L	17.2 gal
Pivot Shaft Compartment	40 L	10.6 gal
Hydraulic Tank	75 L	19.8 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 2.5 kg of refrigerant which has a CO₂ equivalent of 3.575 metric tonnes.

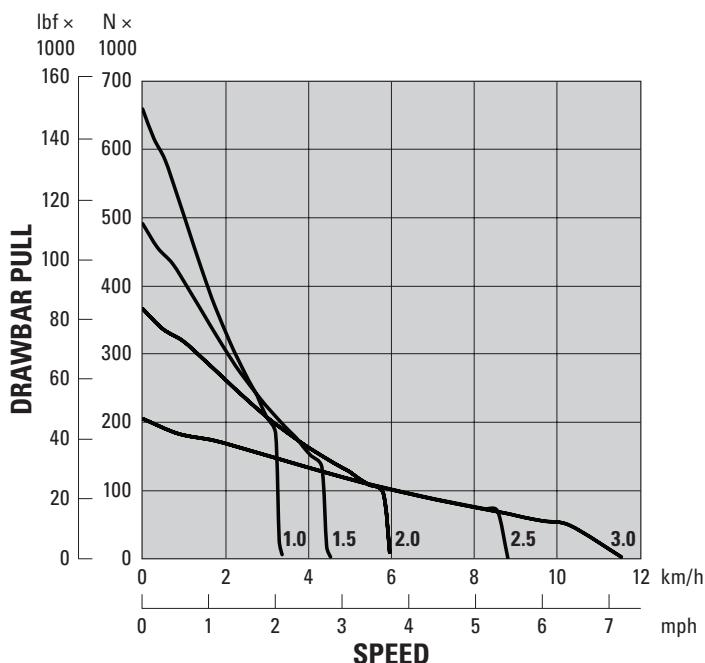
Hydraulic Controls

Pump Type	Piston-type, Variable Displacement	
Pump Output (Steering)	284 L/min	75 gal/min
Pump Output (Implement)	244 L/min	64 gal/min
Tilt Cylinder Rod End Flow	132 L/min	35 gal/min
Tilt Cylinder Head End Flow	170 L/min	45 gal/min
Bulldozer Relief Valve Setting	24 000 kPa	3,480 psi
Tilt Cylinder Relief Valve Setting	24 000 kPa	3,480 psi
Ripper (Lift) Relief Valve Setting	24 000 kPa	3,480 psi
Ripper (Pitch) Relief Valve Setting	24 000 kPa	3,480 psi
Steering	43 000 kPa	6,240 psi

- Steering Pump output measured at 2,364 rpm (pump speed) and 30 000 kPa (4,351 psi).
- Implement Pump output measured at 1,900 rpm and 6895 kPa (1,000 psi).
- 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.

Transmission

1 Forward	3.5 km/h	2.2 mph
1.5 Forward	4.8 km/h	3.0 mph
2 Forward	6.6 km/h	4.1 mph
3 Forward	11.3 km/h	7.0 mph
1.5 Reverse	4.8 km/h	3.0 mph
2.0 Reverse	6.4 km/h	4.0 mph
2.5 Reverse	8.7 km/h	5.4 mph
3.0 Reverse	11.8 km/h	7.3 mph
Drawbar Pull		
1 Forward	659.2 kN	148,200 lbf
1.5 Forward	490.8 kN	110,350 lbf
2 Forward	366.1 kN	82,300 lbf
3 Forward	205.8 kN	46,250 lbf



Standards

- The declared dynamic operator sound pressure level is 76 dB(A) when “ISO 6396:2008” is used to measure the value for an enclosed cab. 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.
- 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.
- Sound Level Information for Machines in European Union Countries and in Countries that Adopt the “European Union Directives” –**
The information below applies to only the machine configurations that have the “CE” mark on the Product Identification Plate.
- The declared dynamic operator sound pressure level is 75 dB(A) when “ISO 6396:2008” is used to measure the value for an enclosed cab. 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.
- The declared exterior sound power level is 113 dB(A) when the value is measured according to the dynamic test procedures and the conditions that are specified in “ISO 6395:2008.” The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

ROPS/FOPS

- Rollover Protective Structure (ROPS) meets the following criteria: ISO 3471:2008.
- Falling Object Protective Structure (FOPS) meets the following criteria: ISO 3449:2005 Level II.

Brakes

- Crawler Machine Brake Requirements meets the following criteria: ISO 10265:2008.

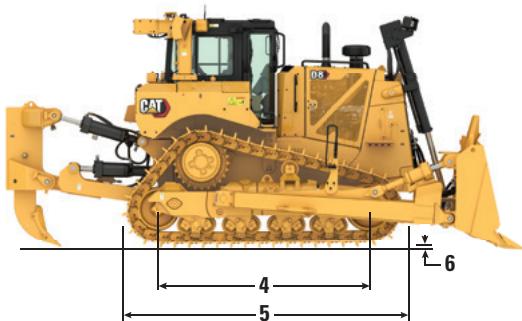
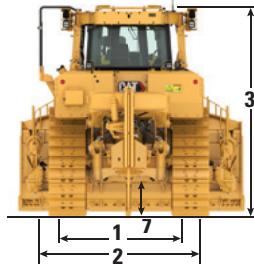
D8 Track-Type Tractor Specifications

D8

Operating Weight (Single-Shank Ripper)	40 233 kg	88,698 lb
Shipping Weight	35 376 kg	77,990 lb
Ground Pressure (ISO 16754)	91.3 kPa	13.3 psi
Shoe Type	Extreme Service	
Width of Standard Track Shoe	610 mm	24 in
Shoes/Side	44	
Track Rollers per Side	8	
Ground Contact Area (ISO 16754)	4.32 m ²	6,697 in ²
1 Track Gauge	2083 mm	82 in
2 Width of Tractor (without trunnions)	2693 mm	106 in
3 Machine Height from Tip of Grouser to Exhaust Stack	3475.5 mm	136.8 in
Top of Cab*	3498.5 mm	137.7 in
Top of Guardrail	3608.5 mm	142 in
4 Length of Track on Ground	3206 mm	126 in
5 Length of Basic Tractor	4647 mm	183.0 in
With the following attachments add:		
Single Shank Ripper (with tip at ground line)	1519 mm	59.8 in
Multi-Shank Ripper (with tip at ground line)	1613 mm	63.5 in
Drawbar	406 mm	16.0 in
SU Blade	1904 mm	75.0 in
U Blade	2241 mm	88.2 in
A Blade (straight)	2027 mm	79.8 in
A Blade (angled 25 degrees)	3068 mm	120.8 in
Pitch	216 mm	8.5 in
6 Grouser Height	84 mm	3.3 in
7 Ground Clearance	622 mm	24.4 in

- Operating Weight – Includes hydraulic controls, tilt cylinder, coolant, lubricants, 100% fuel, ROPS, FOPS cab, SU-Blade, Single-Shank Ripper, 610 mm (24 in) ES shoes, and operator.
- Shipping Weight – Includes coolant, lubricants, 20% fuel, ROPS, FOPS cab, Single-Shank Ripper and 610 mm (24 in) ES shoes.

*When Cat Grade with 3D antennas are installed, overall machine height increases by approximately 50 mm (2 in).



Blades – D8

Capacity	Width*	Width Over End Bits		Height	Dig Depth	Ground Clearance	Maximum Tilt	Blade Weight* (without hydraulic controls)
		m ³ (yd ³)	mm (ft)	mm (ft)	mm (in)	mm (in)	mm (in)	kg (lb)
Semi-Universal (SU)	10.3 (13.4)	3900 (12.8)	4042 (13.3)	1747 (5.7)	573 (22.56)	1255 (49.41)	895 (35.24)	4407 (9,716)
SU with Rock Guard, Wear Plate	10.3 (13.4)	3900 (12.8)	4042 (13.3)	2017 (6.6)	573 (22.56)	1255 (49.41)	895 (35.24)	4998 (11,019)
SU with Push Plate	10.3 (13.4)	3900 (12.8)	4042 (13.3)	1747 (5.7)	573 (22.56)	1255 (49.41)	895 (35.24)	4655 (10,263)
SU with Performance Cutting Edges	10.3 (13.4)	3900 (12.8)	3962 (13.0)	1747 (5.7)	573 (22.56)	1255 (49.41)	895 (35.24)	4547 (10,024)
SU with Rock Guard, Performance Cutting Edges	10.3 (13.4)	3900 (12.8)	3962 (13.0)	2017 (6.6)	573 (22.56)	1255 (49.41)	895 (35.24)	5130 (11,310)
Universal	11.8 (15.4)	4123 (13.5)	4265 (14.0)	1732 (5.7)	573 (22.56)	1230 (48.43)	968 (38.11)	4895 (10,792)
Universal with Rock Guard, Wear Plate	11.8 (15.4)	4123 (13.5)	4265 (14.0)	2012 (6.6)	573 (22.56)	1230 (48.43)	968 (38.11)	5454 (12,024)
Angle Blade	5.2 (6.8)	4531 (14.9)	5043 (16.5)	1177 (3.9)	625 (24.61)	1323 (52.09)	733 (28.86)	5121 (11,289)

*Includes blade tilt cylinder.

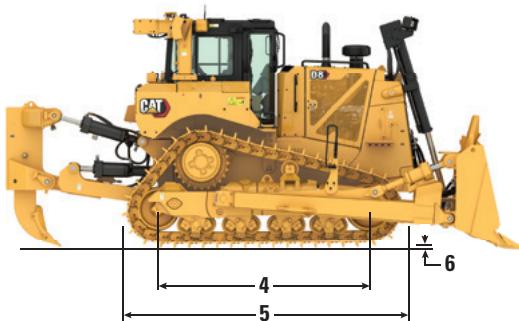
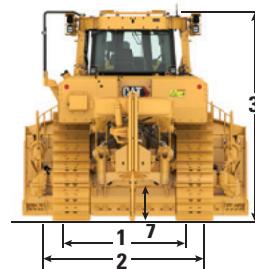
D8 Track-Type Tractor Specifications

D8 LGP

Operating Weight (drawbar)	38 513 kg	84,906 lb
Shipping Weight	33 388 kg	73,607 lb
Ground Pressure (ISO 16754)	55.3 kPa	8.0 psi
Shoe Type	Extreme Service	
Width of Standard Track Shoe	965 mm	38 in
Shoes/Side	44	
Track Rollers per Side	8	
Ground Contact Area (ISO 16754)	6.84 m ²	10,594 in ²
1 Track Gauge	2337 mm	92 in
2 Width of Tractor (without trunnions)	3302 mm	130 in
3 Machine Height from Tip of Grouser to Exhaust Stack	3475.5 mm	136.8 in
Top of Cab*	3498.5 mm	137.7 in
Top of Guardrail	3608.5 mm	142 in
4 Length of Track on Ground	3206 mm	126 in
5 Length of Basic Tractor	4647 mm	183.0 in
With the following attachments add:		
Drawbar	406 mm	16.0 in
SU Blade	1904 mm	75.0 in
A Blade (straight)	2027 mm	79.8 in
A Blade (angled 25 degrees)	3068 mm	120.8 in
Pitch	216 mm	8.5 in
6 Grouser Height	84 mm	3.3 in
7 Ground Clearance	622 mm	24.4 in

- Operating Weight – Includes hydraulic controls, tilt cylinder, drawbar, coolant, lubricants, 100% fuel, ROPS, FOPS cab, LGP SU-Blade, 965 mm (38 in) ES shoes, and operator.
- Shipping Weight – Includes coolant, lubricants, 20% fuel, ROPS, FOPS cab, drawbar and 965 mm (38 in) ES shoes.

*When Cat Grade with 3D antennas are installed, overall machine height increases by approximately 50 mm (2 in).



Standard configuration shown.

Blades – D8 LGP

Capacity	Width*	Width Over End Bits		Height	Dig Depth	Ground Clearance	Maximum Tilt	Blade Weight* (without hydraulic controls)
		m ³ (yd ³)	mm (ft)	mm (ft)	mm (ft)	mm (in)	mm (in)	kg (lb)
LGP SU	9.9 (12.9)	4402 (14.4)	4543 (14.9)	1622 (5.3)	575 (22.64)	1228 (48.35)	859 (33.82)	4703 (10,368)
LGP Angle	5.6 (7.3)	5041 (16.5)	5553 (18.2)	1177 (3.9)	625 (24.61)	1323 (52.09)	657 (25.87)	5714 (12,597)

*Includes blade tilt cylinder.

D8 Track-Type Tractor Specifications

Track Shoes

	610 mm (24 in)	660 mm (26 in)	711 mm (28 in)	965 mm (38 in)
Positive Pin Retention (PPR) Track				
Moderate Service	✓	✓	✓	✓
Extreme Service	✓	✓	✓	✓
Super Extreme Service	✓			
Moderate Service Trapezoidal			✓	
Extreme Service Trapezoidal	✓	✓	✓	✓
Super Extreme Service Trapezoidal		✓		
Heavy Duty Extended Life				
Extreme Service	✓	✓	✓	✓
Extreme Service Trapezoidal	✓	✓		✓
Super Extreme Service	✓			

Ripper

	Single-Shank, Adjustable Parallelogram		Multi-Shank, Adjustable Parallelogram	
Number of Pockets	1		3	
Overall Beam Width	—		2464 mm	97 in
Maximum Clearance Raised (under tip, pinned in bottom hole)	636 mm	25 in	593 mm	23.4 in
Maximum Penetration (standard tip)	1130 mm	44.4 in	780 mm	30.7 in
Maximum Penetration Force (shank vertical)	127.3 kN	28,620 lb	124.2 kN	27,920 lb
Pry out Force	222.7 kN	50,070 lb	—	
Pry out Force (Multi-Shank Ripper with one tooth)	—		222.9 kN	51,230 lb
Weight* (without hydraulic controls)	4057 kg	8,944 lb	—	
Weight				
With One Shank	—		3949 kg	8,706 lb
Each Additional Shank	—		343 kg	756 lb
Total Operating Weight* (with SU-Blade and Ripper)	40 233 kg	88,698 lb	40 125 kg	88,460 lb

* Total Operating Weight: Includes hydraulic controls, blade tilt cylinder, coolant, lubricants, 100% fuel. ROPS, FOPS cab, blade, single-shank 610 mm (24 in) ES shoes, and operator.

Winches

Winch Model	PA140VS		W12E	
Weight*	2136 kg	4,709 lb	2880 kg	6,350 lb
Oil Capacity	15 L	4 gal	121 L	32 gal
Increased Tractor Length	781 mm	30.7 in	669 mm	26.4 in
Winch Length	1614 mm	63.5 in	1485 mm	58.5 in
Winch Case Width	1226 mm	48.3 in	1216 mm	48.0 in
Drum Width	332 mm	13.1 in	281 mm	12.0 in
Flange Diameter	610 mm	24.0 in	635 mm	25.0 in
Recommended Cable Size	29 mm	1.13 in	29 mm	1.13 in
Optimal Cable Size	32 mm	1.25 in	32 mm	1.25 in
Drum Capacity				
Recommended Cable Length	84 m	276 ft	69 m	227 ft
Optional Cable	62 m	204 ft	55 m	181

• PA140VS – Variable speed, hydraulically driven, dual braking system, three roller fairlead.

• W12E – Fixed speed, PTO driven.

*When Cat Grade with 3D antennas are installed, overall machine height increases by approximately 50 mm (2 in).

D8 Track-Type Tractor Specifications

Standard and Optional Equipment

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

	Standard	Optional	Standard	Optional
POWER TRAIN				
Cat C15 engine – meets U.S. EPA Tier 4 Final/Korea Tier 4 Final emission standards	✓		CAT TECHNOLOGY	
Cat C15 engine – meets EU Stage V emission standards	✓		Attachment Ready Option (ARO)	✓
24V electric start	✓		AutoCarry/AutoRip, single tilt or dual tilt	✓
Aftercooler, air-to-air (ATAAC)	✓		Cat Grade with 3D	✓
Air filter, with electronic service indicator	✓		Cat Grade with Slope Assist	✓
Brakes, Extreme Service	✓		Cat Slope Indicate	✓
Cat exclusive power train oil filter with extended service intervals	✓		Remote Control Ready	✓
Coolant, extended life	✓		Command for Dozing	✓
Drains, ecology, power train	✓		Grade Control Ready	✓
Engine precleaner with screen	✓		Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓
Engine, thermal shield	✓		Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓
Fan, suction, auto reversing	✓		Product Link™ – Cellular or Dual Mode	✓
Four planet, double-reduction planetary final drives	✓		OPERATOR ENVIRONMENT	
Fuel priming pump, electric	✓		Access/egress lighting with shutdown timer	✓
Full autoshift	✓		Armrests, adjustable	✓
High performance single plane cooling system	✓		Cab glass – enhanced 40 psi	✓
Oil change system, high speed	✓		Cab glass – enhanced dual pane	✓
Parking brake, electronic	✓		Cab, ROPS/FOPS, sound suppressed	✓
Precleaner, strata-tube dust ejector	✓		Deactivation switch, hydraulic controls	✓
Prescreener	✓		Decelerator pedal	✓
Radiator, 6.35 fins per inch, debris	✓		Governor switch, electronic	✓
Sound attenuated exhaust system	✓		Heater and ventilation	✓
Starting aid, automatic ether	✓		Interior LED courtesy lights	✓
Torque divider with lock-up clutch	✓		Mirror, rearview	✓
Transmission control module, electronic	✓		Provision for wire passage in/out of cab	✓
Transmission, electronically-controlled powershift	✓		Radio, AM/FM, Bluetooth®	✓
Turbocharger	✓		ROPS mounted air conditioner	✓
Water separator	✓		Seat belt, retractable	✓
			Seat, cloth, air-suspension	✓
			Seat, cloth, heated	✓
			Seat, heated and ventilated	✓
			Touchscreen operator interface	✓
			Visibility arrangement – mirrors	✓
			Visibility arrangement – single camera	✓
			Window shades	✓
			Wipers, intermittent	✓

(continued on next page)

D8 Track-Type Tractor Specifications

Standard and Optional Equipment (continued)

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

	Standard	Optional	Standard	Optional
UNDERCARRIAGE				
Gauge arrangements – Standard or LGP	✓			
Rollers and idlers, lifetime lubricated	✓			
Sprocket rim segments, replaceable	✓			
Suspension-type undercarriage	✓			
8-roller tubular track roller frame (carrier roller ready)	✓			
Track adjusters, hydraulic	✓			
Track guide	✓			
Two-piece master links	✓			
Positive Pin Retention (PPR) undercarriage – 44 section track, sealed and lubricated, single grouser shoes	✓			
610 mm (24 in) PPR moderate service shoes*	✓			
PPR undercarriage, suspended, guarded	✓			
PPR undercarriage, arctic	✓			
Heavy Duty, Extended Life (HDXL) undercarriage – 44 section track, sealed and lubricated, single grouser shoes	✓			
HDXL undercarriage, suspended	✓			
HDXL undercarriage, suspended, guarded	✓			
HDXL undercarriage, arctic	✓			
Carrier rollers, suspended	✓			
Carrier rollers, suspended – arctic	✓			
Carrier rollers, none	✓			
Final drives, standard or LGP	✓			
Final drives, standard or LGP, guarded	✓			
Final drives, standard, arctic	✓			
HYDRAULICS				
Cat exclusive hydraulic oil filter with extended service intervals			✓	
Dozer tilt hydraulics – dual tilt				✓
Dozer tilt hydraulics – single tilt			✓	
Electronically enabled quick drop valve			✓	
Hydraulics, electronically controlled, load-sensing dozer lift and tilt			✓	
Hydraulics, electronically controlled, load-sensing rear hydraulics, ripper or winch ready			✓	
Hydraulics, independent steering and work tool pumps			✓	
Hydraulics, ripper			✓	
Hydraulics, winch			✓	
ELECTRICAL				
Alarm, back-up			✓	
Converter, 24V to 12V			✓	
Diagnostic connector			✓	
Ground level service center with hour meter			✓	
Horn, forward warning			✓	
Light, warning strobe			✓	
Light, warning strobe mount			✓	
Lights – premium light package			✓	
Lights – six-light package			✓	
BULLDOZERS (see chart for available blade options)				
8SU/U – basic, guarded or dual tilt guarded				✓
8SU LGP – basic				✓
8 LGP – single tilt guarded or dual tilt guarded				✓

*For optional track shoe offerings, please refer to chart on page 4.

(continued on next page)

D8 Track-Type Tractor Specifications

Standard and Optional Equipment (continued)

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

	Standard	Optional	Standard	Optional
PUSH ARMS			FLUIDS, LUBRICANTS, COOLANTS	
Single tilt, standard	✓		Engine coolant, standard -37°C (-35°F)	✓
Single tilt, extreme	✓		Engine coolant, arctic -51°C (-60°F)	✓
Dual tilt, standard or extreme	✓			
BOTTOM GUARDS			OTHER STANDARD EQUIPMENT	
Hinged	✓		Equalizer bar, pinned	✓
Powered	✓		Front pull device	✓
Heavy duty, sealed	✓		HVAC box – corrosive resistant	✓
Wood chip	✓		Mounting, lift cylinders	✓
Bottom guards with front counterweight	✓		Oil cooler, hydraulic	✓
REAR ATTACHMENTS			Product Link	✓
Ripper – single-shank	✓		S·O·S SM sampling ports	✓
Ripper – single-shank with pin puller	✓		Steering, electronically controlled power differential	✓
Ripper – single-shank with striker bar	✓		Vandalism protection for fluid compartments	✓
Ripper – single-shank with pin puller and striker bar	✓		Engine compartment service light	✓
Ripper – multi-shank	✓			
Ripper – multi-shank with striker bar	✓		GUARDS	
Counterweight, rear	✓		Guard, fan debris	✓
Drawbar, rigid	✓		Guard, fast fuel	✓
Rear striker bar	✓		Guard, fuel tank	✓
Winch, PA140VS, variable speed	✓		Guard, grill debris	✓
Winch, W12E PTO	✓		Rear screen	✓
STARTERS, BATTERIES, AND ALTERNATORS			Striker bars, front, suspended	✓
Batteries – Heavy Duty	✓		Sweeps group	✓
Batteries – Arctic	✓			
Alternators – 150 Amp	✓		OTHER ATTACHMENTS	
Alternators – 150 Amp, ducted	✓		Black paint, blade	✓
Starting aids – engine heaters	✓		Grab handles, push arm	✓
Heater, engine coolant (120V)	✓			



D8

Waste Handler

From pushing trash to spreading cover, and cell construction to closing, Cat Waste Handlers are designed and manufactured from the frame up to take on the demands of landfill work. Specialized guarding throughout the machine helps protect major components like the chassis, fuel tank and hydraulic tank from impact and airborne debris.

Added Machine Protection

- Optional Cab with enhanced dual pane glass, powered air precleaner and high efficiency filter offer higher cab pressurization for a cleaner cab and better operator comfort.
- Fuel tank guard and heavy duty bottom guards shield major machine components.
- Internal sealing keeps the trash away from the inner compartments.
- Heavy duty hinged radiator grill doors protect radiator and fan from penetration by material coming straight in or from under the blade.
- Laminated thermal shields on engine and aftertreatment provide added thermal protection in high debris applications.
- Rear striker bar helps protect against trash climbing up the tracks.
- Final drive guarding helps prevent wire wrap and helps keep dirt and debris away from the Duo-Cone™ seals.
- Pivot shaft seal guards help prevent debris from entering and damaging seals.
- Rotating bushings on tilt cylinder lines help wrapping material to roll off hoses.
- 10 premium LED lights illuminate the work area.

Ease of Maintenance

- Cooling system designed for high debris environments, with automatic reversing fan and swing-out access for cleanout with an air wand.
- Heavy duty sealed bottom guard is hinged for easy cleaning.
- Optional center-opening powered and sealed bottom guard makes cleanout even easier.
- Quick access cab floor option offers toolless access to the floor plate opening.
- Ducted alternator for longer life.
- Engine precleaner with screen delivers cleaner air to the power train.

Equipped for the Job

- Landfill blades are equipped with a trash rack to increase productive capacity when machine works in lighter material like waste.
- Wear plate helps extend blade life.
- Heavy Duty Extended Life (HDXL) undercarriage includes guarded, sealed idlers to help prevent debris such as wire, string or plastic bags from wrapping into seals.
- Press-fit bushings and Positive Pin Retention (PPR) are particularly well suited for impact applications.
- Trapezoidal center-hole track helps eject debris.

Engine

Engine Model	Cat® C15	
Emissions	U.S. EPA Tier 4 Final/ EU Stage V/ Korea Tier 4 Final	
Build Number	21B	
Net Power (1900 rpm)		
ISO 9249/SAE J1349	264 kW	354 hp
ISO 9249/SAE J1349 (DIN)	359 mhp	
Maximum Power (1600 rpm)		
Engine Power: ISO 14396	294 kW	394 hp
Engine Power: ISO 14396 (DIN)	400 mhp	
Gross Power: SAE J1995:2014	294 kW	394 hp
Bore	137 mm	5.4 in
Stroke	172 mm	6.75 in
Displacement	15.2 L	928 in ³

- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- Net power is tested per ISO 9249:2007 and SAE J1349:2011.
- Engine power is tested per ISO 14396:2002.
- No derating required up to 3566 m (11,700 ft) altitude, beyond 3566 m (11,700 ft) automatic derating occurs.
- All nonroad Tier 4 Final, Stage V, Korea Tier 4 Final diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) with 15 ppm (mg/kg) of sulfur or less, or up to B20 biodiesel blended with ULSD. B20 should meet ASTM D7467 specification (biodiesel blend stock should meet Cat biodiesel spec, ASTM D6751 or EN 14214). Cat DEO-ULST™ 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.

Service Refill Capacities

Fuel Tank	627 L	165 gal
Diesel Exhaust Fluid Tank	24 L	6.3 gal
Cooling System	86 L	22.7 gal
Engine Crankcase*	38 L	10.0 gal
Power Train	155 L	41.0 gal
Final Drives (each)	12.5 L	3.3 gal
Roller Frames (each)	65 L	17.2 gal
Pivot Shaft Compartment	40 L	10.6 gal
Hydraulic Tank	75 L	19.8 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 2.5 kg of refrigerant which has a CO₂ equivalent of 3.575 metric tonnes.

Hydraulic Controls

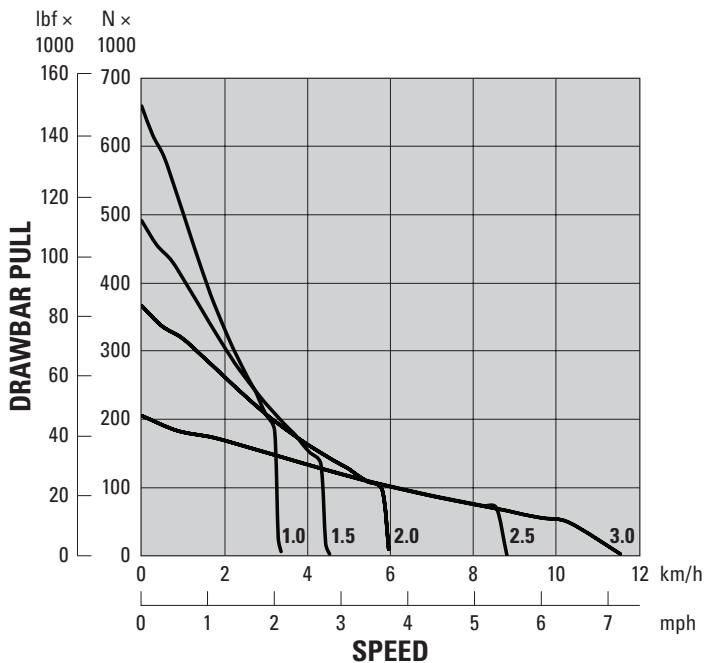
Pump Type	Piston-type, Variable Displacement	
Pump Output (Steering)	284 L/min	75 gal/min
Pump Output (Implement)	244 L/min	64 gal/min
Tilt Cylinder Rod End Flow	132 L/min	35 gal/min
Tilt Cylinder Head End Flow	170 L/min	45 gal/min
Bulldozer Relief Valve Setting	24 000 kPa	3,480 psi
Tilt Cylinder Relief Valve Setting	24 000 kPa	3,480 psi
Ripper (Lift) Relief Valve Setting	24 000 kPa	3,480 psi
Ripper (Pitch) Relief Valve Setting	24 000 kPa	3,480 psi
Steering	43 000 kPa	6,240 psi

- Steering Pump output measured at 2,364 rpm (pump speed) and 30 000 kPa (4,351 psi).
- Implement Pump output measured at 1,900 rpm and 6895 kPa (1,000 psi).
- 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.

D8 Waste Handler Specifications

Transmission

1 Forward	3.5 km/h	2.2 mph
1.5 Forward	4.8 km/h	3.0 mph
2 Forward	6.6 km/h	4.1 mph
3 Forward	11.3 km/h	7.0 mph
1.5 Reverse	4.8 km/h	3.0 mph
2.0 Reverse	6.4 km/h	4.0 mph
2.5 Reverse	8.7 km/h	5.4 mph
3.0 Reverse	11.8 km/h	7.3 mph
Drawbar Pull		
1 Forward	659.2 kN	148,200 lbf
1.5 Forward	490.8 kN	110,350 lbf
2 Forward	366.1 kN	82,300 lbf
3 Forward	205.8 kN	46,250 lbf



Standards

- The declared dynamic operator sound pressure level is 76 dB(A) when “ISO 6396:2008” is used to measure the value for an enclosed cab. 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.
- 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.
- Sound Level Information for Machines in European Union Countries and in Countries that Adopt the “European Union Directives” –**
The information below applies to only the machine configurations that have the “CE” mark on the Product Identification Plate.
- The declared dynamic operator sound pressure level is 75 dB(A) when “ISO 6396:2008” is used to measure the value for an enclosed cab. 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.
- The declared exterior sound power level is 113 dB(A) when the value is measured according to the dynamic test procedures and the conditions that are specified in “ISO 6395:2008.” The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

ROPS/FOPS

- Rollover Protective Structure (ROPS) meets the following criteria: ISO 3471:2008.
- Falling Object Protective Structure (FOPS) meets the following criteria: ISO 3449:2005 Level II.

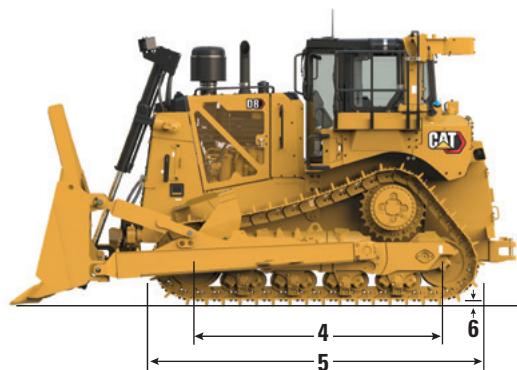
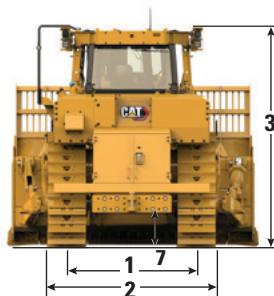
Brakes

- Crawler Machine Brake Requirements meets the following criteria: ISO 10265:2008.

D8 Waste Handler Specifications

D8 Waste Handler

Operating Weight	40 010 kg	88,206 lb
Shipping Weight	34 227 kg	75,457 lb
Ground Pressure (ISO 16754)	90.8 kPa	13.2 psi
Shoe Type	Extreme Service Trapezoidal	
Width of Shoe	610 mm	24 in
Shoes/Side	44	
Track Rollers per Side	8	
Ground Contact Area (ISO 16754)	4.32 m ²	6,697 in ²
1 Track Gauge	2083 mm	82 in
2 Width of Tractor (without trunnions)	2693 mm	106 in
3 Machine Height from Tip of Grouser to top of Exhaust Stack	3475.5 mm	136.8 in
Top of Cab*	3498.5 mm	137.7 in
Top of Guardrail	3608.5 mm	142 in
4 Length of Track on Ground	3210 mm	126.4 in
5 Length of Basic Tractor	4647 mm	183.0 in
With the following attachments add	4647 mm	183.0 in
Striker bar box (without counterweights) (Add additional 114 mm (4.5 in) per counterweight)	410 mm	16.1 in
Single Shank Ripper (with tip at ground line)	1519 mm	59.8 in
Multi-Shank Ripper (with tip at ground line)	1613 mm	63.5 in
Drawbar	406 mm	16.0 in
SU Blade	1904 mm	75.0 in
U Blade	2241 mm	88.2 in
Pitch	216 mm	8.5 in
6 Grouser Height	84 mm	3.3 in
7 Ground Clearance	622 mm	24.4 in



- Operating Weight – Standard: Includes hydraulic controls, tilt cylinder, coolant, lubricants, 100% fuel, ROPS, FOPS cab, Waste Package, Waste SU-Blade, striker box, 610 mm (24 in) ES shoes and operator.
- Shipping Weight – Standard: Includes hydraulic controls, coolant, lubricants, 20% fuel, ROPS, FOPS cab, Waste Package, striker box, 610 mm (24 in) ES shoes.

*When Cat Grade with 3D antennas are installed, overall machine height increases by approximately 50 mm (2 in).

Please see Landfill Blade information on page 15.

D8 Waste Handler Specifications

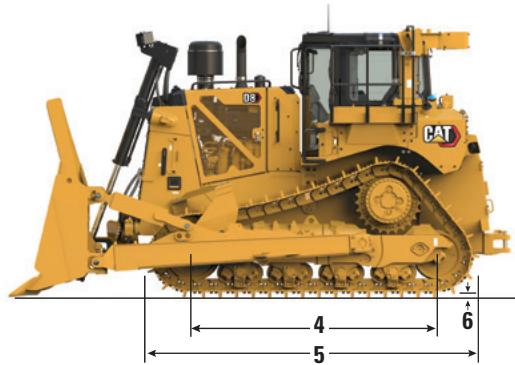
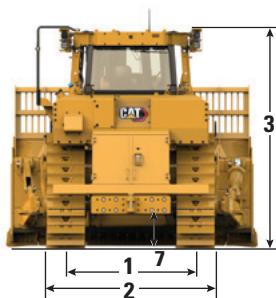
D8 LGP Waste Handler

Operating Weight	42 489 kg	93,672 lb
Shipping Weight	36 728 kg	80,971 lb
Ground Pressure (ISO 16754)	61.0 kPa	8.8 psi
Shoe Type	Extreme Service Trapezoidal	
Width of Shoe	965 mm	38 in
Shoes/Side	44	
Track Rollers per Side	8	
Ground Contact Area (ISO 16754)	6.84 m ²	10,594 in ²
1 Track Gauge	2337 mm	92.0 in
2 Width of Tractor (without trunnions)	3302 mm	130.0 in
3 Machine Height from Tip of Grouser to top of Exhaust Stack	3475.5 mm	136.8 in
Top of Cab*	3498.5 mm	137.7 in
Top of Guardrail	3608.5 mm	142.1 in
4 Length of Track on Ground	3210 mm	126.4 in
5 Length of Basic Tractor	4647 mm	183.0 in
Striker bar box (without counterweights) (Add additional 114 mm (4.5 in) per counterweight)	410 mm	16.1 in
Drawbar	406 mm	16.0 in
SU Blade	1904 mm	75.0 in
Pitch	216 mm	8.5 in
6 Grouser Height	84 mm	3.3 in
7 Ground Clearance	622 mm	24.4 in

- Operating Weight – LGP: Includes hydraulic controls, tilt cylinder, striker box, coolant, lubricants, 100% fuel, ROPS, FOPS cab, Waste Package, Waste SU-Blade, 965 mm (38 in) ES shoes, striker box, and operator.
- Shipping Weight – LGP: Includes hydraulic controls, coolant, lubricants, 20% fuel, ROPS, FOPS cab, Waste Package, striker box and 965 mm (38 in) ES shoes.

*When Cat Grade with 3D antennas are installed, overall machine height increases by approximately 50 mm (2 in).

Please see Landfill Blade information on page 15.



Standard configuration shown.

D8 Waste Handler Specifications

Landfill Blades

	SU Landfill with Wear Plate	Universal Landfill		LGP SU Landfill	
Capacity	21.2 m ³	27.8 yd ³	23.4 m ³	30.6 yd ³	22.2 m ³
Width*	3900 mm	12.8 ft	4123 mm	13.5 ft	4402 mm
Width over End Bits	4042 mm	13.3 ft	4265 mm	14.0 ft	4543 mm
Height	2553 mm	8.4 ft	2544 mm	8.3 ft	2454 mm
Digging Depth	573 mm	22.56 in	573 mm	22.56 in	575 mm
Ground Clearance	1255 mm	49.41 in	1230 mm	48.43 in	1228 mm
Maximum Tilt	895 mm	35.24 in	968 mm	38.11 in	859 mm
Weight* without hydraulic controls	5251 kg	11,576 lb	5840 kg	12,876 lb	5062 kg
					11,159 lb

Track Shoes

	610 mm (24 in)	660 mm (26 in)	711 mm (28 in)	965 mm (38 in)
Positive Pin Retention (PPR) Track				
Moderate Service Trapezoidal			✓	
Extreme Service Trapezoidal	*	*	*	*
Super Extreme Service Trapezoidal		✓		
Heavy Duty Extended Life				
Extreme Service Trapezoidal	✓	✓		✓

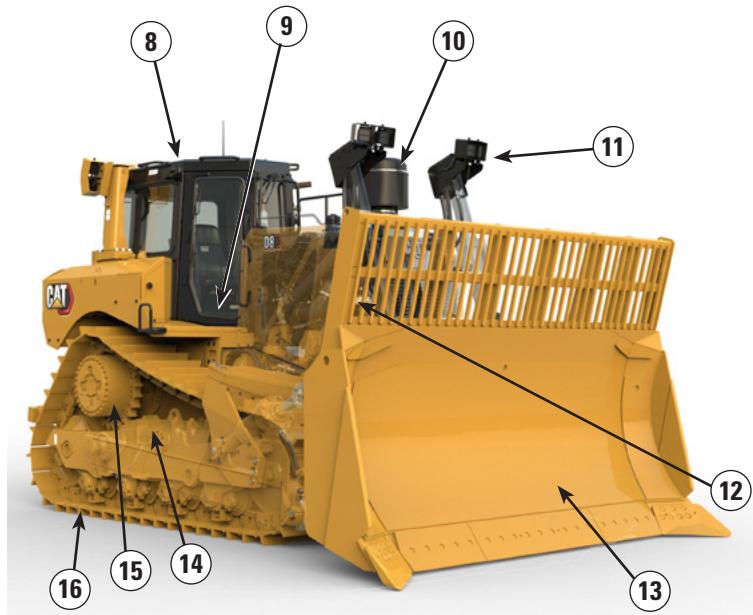
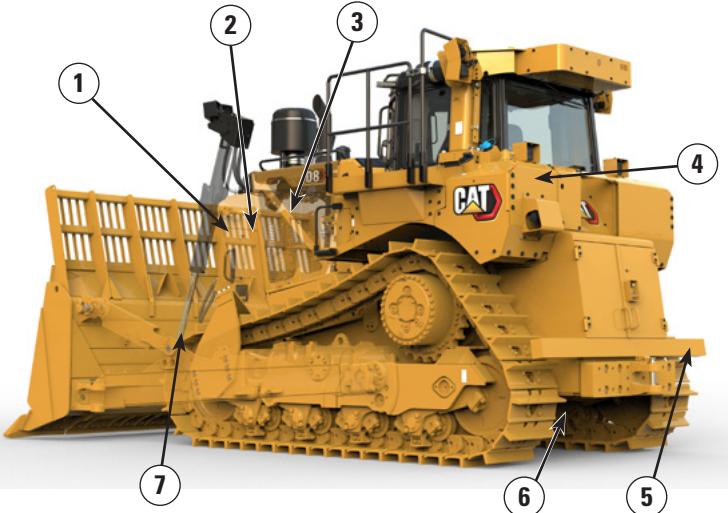
✓ – Available for Waste Handlers

* – Recommended for Waste Handlers

D8 Waste Handler Specifications

D8 Waste Handler Features

- 1) Heavy duty hinged radiator grill doors protect radiator and fan from penetration by material coming straight in or from under the blade.
- 2) Cooling system designed for high debris environments, with automatic reversing fan and swing-out access for cleanout with an air wand.
- 3) Laminated thermal shields on engine and aftertreatment provide added thermal protection in high debris applications.
- 4) Fuel tank guard helps shield major machine components. Internal sealing keeps the trash away from the inner compartments.
- 5) Rear striker bar helps protect against trash climbing up the tracks.
- 6) Heavy duty sealed bottom guard is hinged for easy cleaning. Optional center-opening powered bottom guard makes cleanout even easier.
- 7) Rotating bushings on tilt cylinder lines help wrapping material to roll off hoses.



- 8) Optional Cab with enhanced dual pane glass, powered air precleaner and high efficiency filter offer higher cab pressurization for a cleaner cab and better operator comfort.
- 9) Quick access cab floor option offers tool-less access to the floor plate opening.
- 10) Engine precleaner with screen delivers cleaner air to the power train.
- 11) 10 premium LED lights illuminate the work area.
- 12) Ducted alternator for longer life.
- 13) Landfill blades are equipped with a trash rack to increase productive capacity when machine works in lighter material like waste. Wear plate helps extend blade life.

- 14) Pivot shaft seal guards help prevent debris from entering and damaging seals.
- 15) Final drive guarding helps prevent wire wrap and helps keep dirt and debris away from the Duo-Cone™ seals.
- 16) Waste Handler Undercarriage:

- Heavy Duty Extended Life (HDXL) undercarriage includes Kevlar® guarded, sealed idlers to help prevent debris such as wire, string or plastic bags from wrapping into seals.
- Press-fit bushings and Positive Pin Retention (PPR2) are particularly well suited for impact applications such as forestry, waste, rock, or V-ditching.

D8 Waste Handler Specifications

Ripper

	Single-Shank, Adjustable Parallelogram		Multi-Shank, Adjustable Parallelogram	
Number of Pockets	1		3	
Overall Beam Width	—	2464 mm	97 in	
Maximum Clearance Raised (under tip, pinned in bottom hole)	636 mm	25 in	593 mm	23.4 in
Maximum Penetration (standard tip)	1130 mm	44.4 in	780 mm	30.7 in
Maximum Penetration Force (shank vertical)	127.3 kN	28,620 lb	124.2 kN	27,920 lb
Pry out Force	222.7 kN	50,070 lb	—	
Pry out Force (Multi-Shank Ripper with one tooth)	—	222.9 kN	51,230 lb	
Weight* (without hydraulic controls)	4057 kg	8,944 lb	—	
Weight				
With One Shank	—	3949 kg	8,706 lb	
Each Additional Shank	—	343 kg	756 lb	
Total Operating Weight* (with SU-Waste Blade and Ripper)	41 346 kg	91,152 lb	41 238 kg	90,914 lb

* Total Operating Weight: Includes hydraulic controls, blade tilt cylinder, coolant, lubricants, 100% fuel. ROPS, FOPS cab, Waste Package, SU-Waste blade, ripper, 610 mm (24 in) ES Trapezoidal shoes, and operator.

Winches

Winch Model	PA140VS		W12E	
Weight*	2136 kg	4,709 lb	2880 kg	6,350 lb
Oil Capacity	15 L	4 gal	121 L	32 gal
Increased Tractor Length	781 mm	30.7 in	669 mm	26.4 in
Winch Length	1614 mm	63.5 in	1485 mm	58.5 in
Winch Case Width	1226 mm	48.3 in	1216 mm	48.0 in
Drum Width	332 mm	13.1 in	281 mm	12.0 in
Flange Diameter	610 mm	24.0 in	635 mm	25.0 in
Recommended Cable Size	29 mm	1.13 in	29 mm	1.13 in
Optimal Cable Size	32 mm	1.25 in	32 mm	1.25 in
Drum Capacity				
Recommended Cable Length	84 m	276 ft	69 m	227 ft
Optional Cable	62 m	204 ft	55 m	181

• PA140VS – Variable speed, hydraulically driven, dual braking system, three roller fairlead.

• W12E – Fixed speed, PTO driven.

*When Cat Grade with 3D antennas are installed, overall machine height increases by approximately 50 mm (2 in).

D8 Waste Handler 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 – meets U.S. EPA Tier 4 Final/Korea Tier 4 Final emission standards		✓	Attachment Ready Option (ARO)	✓
Cat C15 engine – meets EU Stage V emission standards		✓	AutoCarry/AutoRip, single tilt or dual tilt	✓
24V electric start	✓		Cat Grade with 3D	✓
4-speed fully automatic transmission	✓		Cat Grade with Slope Assist	✓
Air filter with electronic service indicator	✓		Cat Slope Indicate	✓
Air-to-air Aftercooler (ATAAC)	✓		Command for Dozing Ready	✓
Auto reversing fan	✓		Grade Control Ready	✓
Automatic ether starting aid	✓		Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓
Cat exclusive power train oil filter with extended service intervals	✓		Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓
Electric fuel priming pump	✓		Product Link™ – Cellular or Dual Mode	✓
Electronic parking brake	✓		OPERATOR ENVIRONMENT	
Electronic transmission control module	✓		Access/egress lighting with shutdown timer	✓
Electronically-controlled powershift transmission	✓		Adjustable armrests	✓
Engine precleaner with screen	+		AM/FM, Bluetooth® Radio	✓
Extended life coolant	✓		Cab glass – enhanced 40 psi	✓
Extreme service brakes		✓	Cab glass – enhanced dual pane	*
Four planet, double-reduction planetary final drives	✓		Deactivation switch for hydraulic controls	✓
High debris cooling package – 6 fins per inch	✓		Decelerator pedal	✓
High performance single plane cooling system	✓		Electronic governor switch	✓
High speed oil change system		✓	Heater and ventilation	✓
Precleaner, strata-tube dust ejector	✓		Interior LED courtesy lights	✓
Prescreener		✓	Provision for wire passage in/out of cab	✓
Sound attenuated exhaust system	✓		Quick opening floor plates	+
Thermal wrapped engine	+		Rearview mirror	✓
Torque divider with lock-up clutch	✓		Retractable seat belt	✓
Turbocharger		✓	ROPS mounted air conditioner	✓
Water separator	✓		ROPS/FOPS sound suppressed cab	✓
+ Included in Waste Handler Package			Seat – air suspension cloth	✓
			Seat – heated and ventilated	✓
			Seat – heated cloth	✓
			Touchscreen operator interface	✓
			Visibility arrangement – mirrors	✓
			Visibility arrangement – single camera	✓
			Window shades	✓
			Wipers, intermittent	✓

* Recommended

+ Included in Waste Handler Package

D8 Waste Handler 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
UNDERCARRIAGE				
Standard or LGP undercarriage	✓			
8-roller tubular track roller frame	✓			
Hydraulic track adjusters	✓			
Replaceable sprocket rim segments	✓			
Rollers and idlers – lifetime lubricated	✓			
Suspension-type undercarriage	✓			
Track guide	✓			
Two-piece master links	✓			
Positive Pin Retention (PPR)	+			
undercarriage, suspended, guarded – 44 section track, sealed and lubricated, single grouser shoes				
610 mm (24 in) PPR extreme service, trapezoidal hole shoes	*			
Heavy Duty, Extended Life (HDXL)	+			
undercarriage, suspended guarded – 44 section track, sealed and lubricated, single grouser shoes				
Carrier rollers, none	+			
Final drives, standard or LGP, guarded	+			
HYDRAULICS				
Cat exclusive hydraulic oil filter with extended service intervals			✓	
Dozer tilt hydraulics – dual tilt				✓
Dozer tilt hydraulics – single tilt			✓	
Electronically enabled quick drop valve			✓	
Electronically controlled, load-sensing dozer lift and tilt hydraulics			✓	
Electronically controlled, load-sensing rear hydraulics, ripper or winch ready			✓	
Independent steering and work tool pumps			✓	
Ripper hydraulics				✓
Winch hydraulics				✓
ELECTRICAL				
24V to 12V converter			✓	
Back-up alarm			✓	
Diagnostic connector			✓	
Forward warning horn			✓	
Ground level service center with hour meter			✓	
Lights – premium 10-light package	+			
Warning strobe light				*
Warning strobe light mount				*
BULLDOZERS (see chart for available blade options)				
8SU/U, guarded – single or dual tilt			+	
8 LGP – single tilt guarded			+	

** For optional track shoe offerings, please refer to chart on page 15.

* Recommended

+ Included in Waste Handler Package

* Recommended

+ Included in Waste Handler Package

(continued on next page)

D8 Waste Handler 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			FLUIDS, LUBRICANTS, COOLANTS	
Standard	✓		Engine coolant, standard -37°C (-35°F)	✓
Extreme		✓	Engine coolant, arctic -51°C (-60°F)	✓
BOTTOM GUARDS			OTHER STANDARD EQUIPMENT	
Hinged	✓		Electronically controlled power differential steering	✓
Powered		✓	Engine compartment service light	✓
Heavy duty, sealed	+		Front pull device	✓
REAR ATTACHMENTS			HVAC box – corrosive resistant	✓
Single-shank ripper	✓		Hydraulic oil cooler	✓
Single-shank ripper with pin puller	✓		Lift cylinder mounting	✓
Single-shank ripper with striker bar	✓		Pinned equalizer bar	✓
Single-shank ripper with pin puller and striker bar	*		S-O-S SM sampling ports	✓
Multi-shank ripper	✓		Vandalism protection for fluid compartments	✓
Multi-shank ripper with striker bar	*		GUARDS	
Rear counterweight	✓		Fan debris guard	✓
Rigid drawbar	✓		Fast fuel guard	✓
Rear striker bar	*		Fuel tank guard	+
Variable speed winch	✓		Grill debris guard	✓
PTO winch	✓		Rear screen	✓
STARTERS, BATTERIES, AND ALTERNATORS			Striker bars, front, suspended	✓
Batteries – Heavy Duty	✓		Sweeps group	✓
Batteries – Arctic	✓		OTHER ATTACHMENTS	
Alternators – 150 Amp	✓		Black painted blade	✓
Alternators – 150 Amp, ducted	+		Push arm grab handles	✓
Starting aids – engine heaters	✓			
Engine coolant heater (120V)	✓			

* Recommended

+ Included in Waste Handler Package

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AEXQ3344 (09-2021)

Build Number: 21B

(Aus-NZ, Europe, N Am,
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