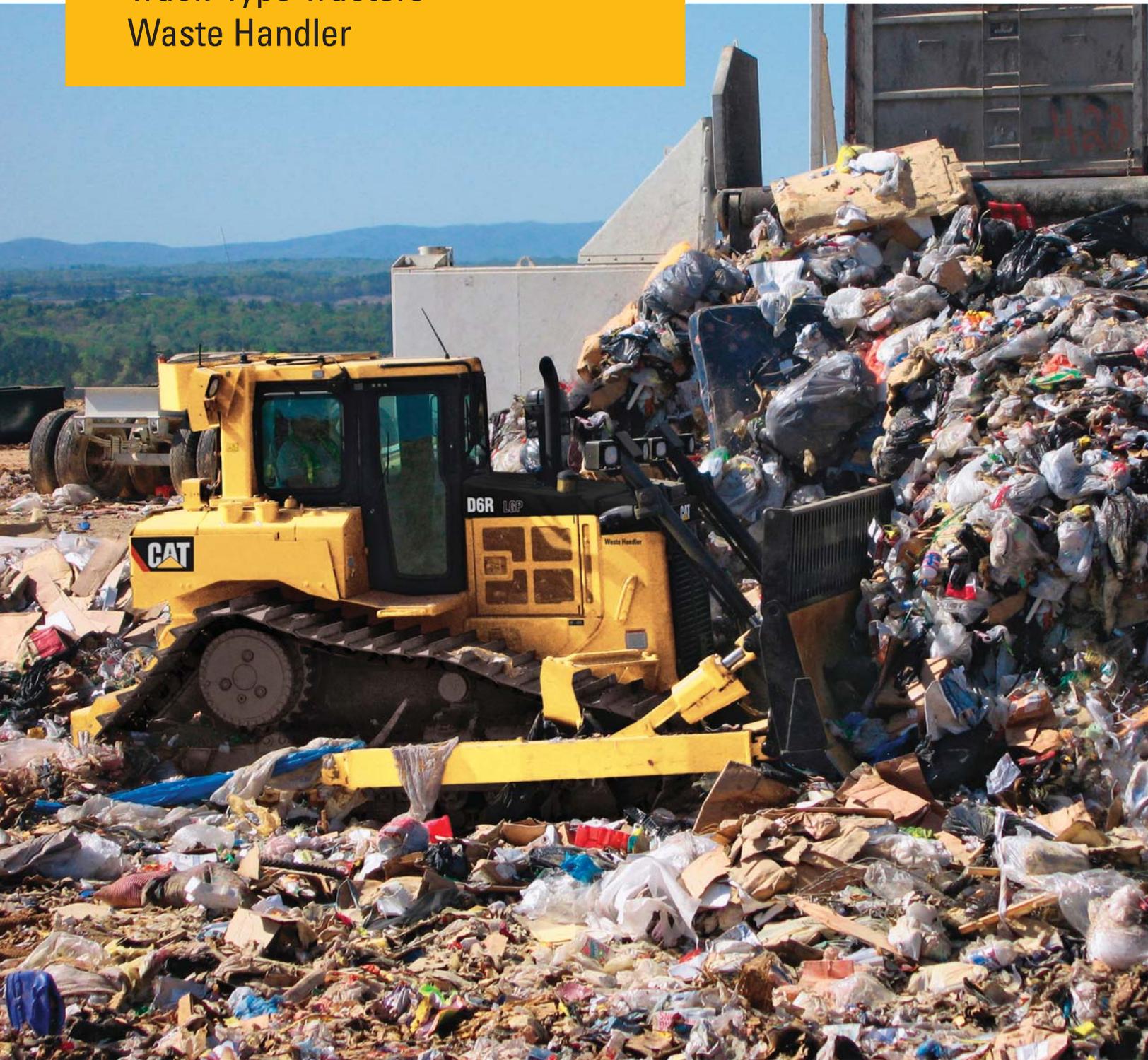


# D6R, D7R, D8R

Track-Type Tractors  
Waste Handler



Engine	Engine Model	Net Power – ISO 9249		Weights	Operating Weight	
D6R	Cat® C9 ACERT™	145 kW	195 hp	D6R XL	22 520 kg	49,648 lb
D7R	Cat C9 ACERT	179 kW	240 hp	D6R LGP	23 800 kg	52,470 lb
D8R	Cat 3406C DITA	228 kW	305 hp	D7R	27 610 kg	60,870 lb
				D7R LGP	29 570 kg	65,190 lb
				D8R	37 630 kg	82,880 lb
				D8R LGP	37 960 kg	83,687 lb

Note: Net Power is at rated engine speed.

## Features

### Waste Handling Guards

*Extensive specialized guarding helps protect critical machine components, body panels and the radiator from being damaged by debris under harsh waste handling environments. Minimizing build-up helps prevent component damage.*

### Debris Resistant Features

*A variety of debris environment features are included with the Waste Handling Arrangement to reduce plugging, extend service life, and enhance productivity.*

### Serviceability and Support

*The major component modular design concept moves a generation ahead in simplified service and repair. Customer support is unmatched in the industry.*



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**Caterpillar has been the world leader in Track-Type Tractors for more than a century. The D6R, D7R and D8R deliver legendary Cat durability and reliability with proven technology designed to improve your productivity and your bottom line. From rugged structures to fully integrated engine and power train systems, the D6R, D7R and D8R is a world-class tractor built to help you produce the highest quality work in demanding conditions seen in land-fill operations globally.**

# Waste Handling Guards

Protecting critical machine components, maximizing productivity, safety

## Radiator Guard

The heavy-duty hinged radiator guard protects the cooling system.

## Crankcase (belly) Guards

The crankcase (belly) guards serve a dual purpose. They help prevent contact damage to vital power train components, and help keep debris out of the power train compartments.

## Tilt Cylinder Lines Guards

The tilt cylinder lines guards help protect hydraulic lines from contact damage, while maintaining hose flexibility.

## Pivot Shaft Seal Guards

The pivot shaft seal guards (D7R, D8R) help prevent debris from entering and damaging the Duo-Cone™ seals as well as protecting the bolts on the pivot shaft seal retainers.

## Final Drive Seal Guards

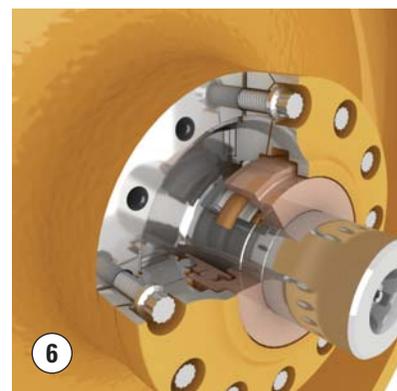
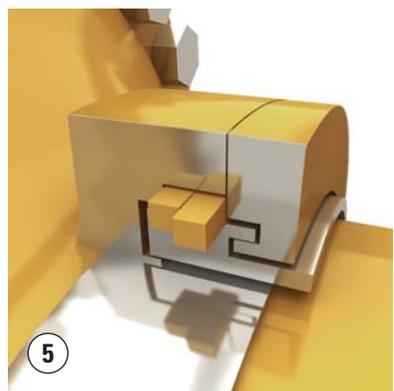
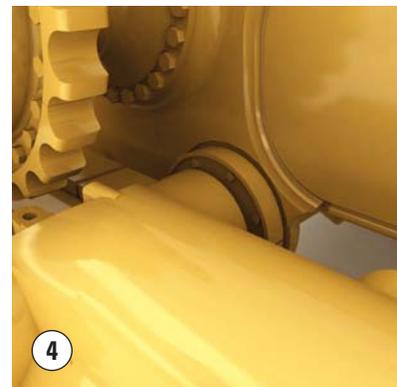
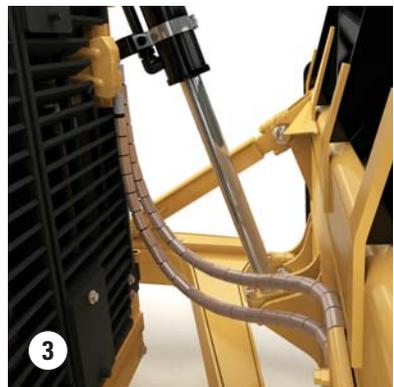
The final drive seal guards help prevent wire, nylon strapping, etc., from wrapping around and damaging the Duo-Cone seals. The outer guard is now stationary, thicker, and has increased hardness, all of which help prevent excessive wear from debris. This design offers superior protection to the seal. Debris would have to make four 90° turns, penetrate the packing material, and then make two additional 90° turns.

## Idler Seal Guards

The idler seal guards help keep wire, fishing line, strapping, etc., from wrapping around and damaging the Duo-Cone seals.

## Chassis Guards

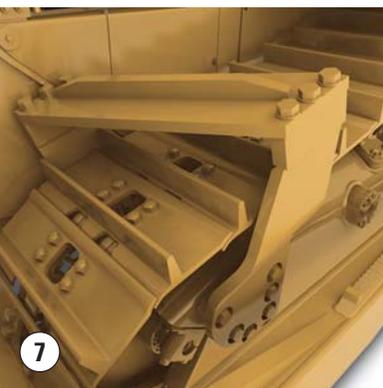
The chassis guards help protect the engine compartment by deflecting debris from rising upward along the chassis.



- 1) Heavy-Duty Hinged Radiator Guard
- 2) Heavy-Duty Hinged Crankcase Guards
- 3) Tilt Cylinder Line Guards
- 4) Pivot Shaft Seal Guards (D7R, D8R)
- 5) Final Drive Seal Guards
- 6) Idler Seal Guards
- 7) Chassis Guarding and Sealing

# Debris Resistant Features

Enhancing productivity and preventing damage



## High-Capacity Alternator

The high-capacity alternator provides additional power required for electrical accessories such as supplemental lights and communications and entertainment radios. Ducting is provided that helps prevent debris from entering into the alternator.

## Cat® Turbine Air Precleaner

The Cat turbine provides improved engine air filtration by using the OPTIMAX dual-stage precleaner powered by the engine's intake and exhaust airflows. Intake air is spun by a flow driven impeller. Debris stratifies along the outer wall and is ejected back into the environment. Remaining contaminants are collected and removed by a secondary scavenger system, allowing only precleaned air to continue to the engine's air filter.

## Heavy-Duty Steps and Handles

The heavy-duty steps and handles are manufactured from plate steel and solid rod to withstand the rigors of landfill operation.

## Rear Striker Bars

The rear striker bars incorporate a rigid drawbar and housing with large access doors for storage on machines not equipped with rippers. The rear striker bars are counterweight ready in case additional rear weight is needed.

## Front Striker Bars

The front striker bars angled design prevents debris from riding up the track and damaging the fenders or fuel and hydraulic tanks.

## Clamshell Guards

The clamshell guard provides a non-rotating guard installed over the final drives to help prevent wire wrap. The guard includes inspection plates.

## Ejector Fan

The ejector fan has curled training edges that radially deflect debris from the radiator cores to reduce instance of plugging radiator cores.

## Cat Landfill Blades

The Cat Landfill blades increase the dozing capacity in trash and help prevent material spilling over the blade from entering the radiator.

1) High Capacity Ducted Brushless Alternator 2) Turbine Precleaner 3) Heavy-Duty Handles 4) Rear Striker Bar with Additional Counterweight  
5) Clamshell Guards (optional) 6) Ejector Fan 7) Front Striker Bars 8) Landfill Blades

### Laminated Thermal Shields

The laminated thermal shields cover the exhaust stack inside the compartment, hot-side of the turbocharger, and the exhaust manifold. These shields reduce surface temperatures well below the flash point of most common combustibles encountered. The Cat Waste Handlers feature water-cooled turbochargers to further aid in lowering surface temperatures.

### ROPS-mounted Air Conditioner Condenser and Fans

The ROPS mounted air conditioner and fans are relocated from the engine compartment to the ROPS.

- Moving the condenser and fans away from the radiator reduces the concentration of debris and plugging. This relocation also increases the cooling capacity of the machine for operation in higher temperatures.

**Note:** The ROPS-mounted position on the D8R raises the height of the machine an additional 30.5 cm (12 in).

### Hydraulic and Fuel Tank Guard

The hydraulic and fuel guard helps protect implement hydraulic oil tank, battery box and fuel tank.

### Trash Resistant Radiator

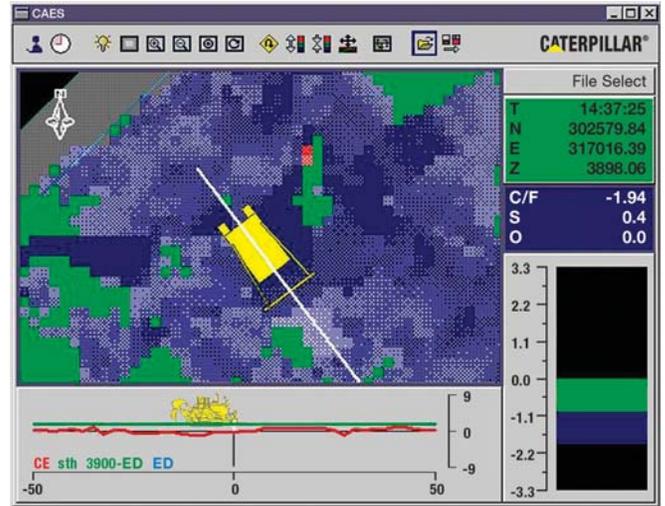
The Cat Waste Handling Track-type Tractors feature trash resistant radiators that have increased spacing between core fins to prevent debris plugging of the radiator.



9



10



# Technology Solutions

Technology to reduce costs and improve productivity

## Computer Aided Earthmoving System (CAES)

The Computer Aided Earthmoving System (CAES) is a high-technology landfill tool that allows maximum compaction, attain tighter grades/slopes, and conserve valuable cover soil without stakes and crews, which improves safety on site.

By monitoring compaction progress and grade control, operators have information they need to maximize the efficiency of the machine, resulting in proper drainage and optimum air space. This advanced technology tool also aids in the identification of site-specific storage areas for materials requiring specialized handling and placement records, such as hazardous, medial, sludge and industrial materials.

Using Global Navigation Satellite System (GNSS) technology, machine mounted components, a high speed radio network and office management software, this system delivers information on an in-cab display to help improve productivity and efficiency on site.

**Note:** Contact your Cat dealer for further information on CAES in landfills and authorization/licensing compatibility in your area.

# Serviceability

## Stay up and running

Cat machines are designed with serviceability in mind. Modular components, easy access to regular service points and features that enable quicker diagnostics all add up to less maintenance time and more time on the job.

### Diagnostic Connector

A diagnostic connector allows the Cat dealer's electronic test instruments to quickly troubleshoot systems of access of any stored data with the use of Electronic Technician (Cat ET).

**Note:** Diagnostic Connectors apply to the D6R and D7R WHA.

### Ecology Drain

The ecology drains provide an environmentally safer method to drain fluids. They are a recommended item that are included on the radiator, hydraulic tank and major power train components.

### Grouped Service Points

Grouped service points and easy access to service areas make routine inspections fast and convenient.

### Scheduled Oil Sampling (S-O-S<sup>SM</sup>) Analysis

Monitor machine health and identify key maintenance needs before they lead to downtime through Cat Scheduled Oil Sampling. Cat machines feature live sampling ports for the engine oil, power train hydraulics and coolant. Cat oil sampling offers accurate analysis using tests designed by Caterpillar for Cat products, as well as knowledgeable interpretation of the results.

### Built to be Rebuilt

Major components on Cat Track-Type Tractors are built to be rebuilt, extending the useful life of the machine. Machine and component rebuilds save money, and offer a sustainability element by saving raw materials and natural resources. See your Cat dealer to learn more about rebuild options.





# Total Customer Support

## Renowned dealer support

Only Cat machines come with the industry's best sales and service support – the Cat dealer network. From helping you choose the right machine to ongoing support, your Cat dealer provides the best in sales and service. Manage your costs with preventive maintenance programs like Custom Track Service, Scheduled Oil Sampling (S·O·S<sup>SM</sup>) analysis, and guaranteed maintenance contracts. Stay productive with best-in-class parts availability. Your Cat dealer can even help with operator training to help you boost your profits.

And when it's time for replacement, your Cat dealer can help you save even more with Genuine Cat Remanufactured parts. Remanufactured power train and hydraulic components cost less, but come with the same warranty and reliability as new products. Talk with your Cat dealer to learn more about reducing waste and saving money through Cat Remanufacturing.

## Engine – D6R XL

Engine Model	Cat® C9 ACERT™	
Flywheel Power <sup>(1)</sup>	145 kW	195 hp
No. of Cylinders	6 In-line	
Displacement	8.8 L	537 in <sup>3</sup>

## Operating Specifications – D6R XL

Operating Weight	22 520 kg	49,648 lb
Height – Top of ROPS	3195 mm	126 in
Width – Over Trunnions	2640 mm	104 in
Length – with Blade	5332 mm	210 in
Length – without Blade	3860 mm	152 in
Ground Clearance	383 mm	15 in

## Track – D6R XL

Width of Standard Track Shoe <sup>(2)</sup>	560 mm	22 in
Length of Track on Ground	2871 mm	113 in
Track Gauge	1880 mm	74 in

## Landfill Blades – D6R XL

Semi-Universal – Width	3260 mm	128.3 in
Semi-Universal – Capacities with Trash Rack	11.2 m <sup>3</sup>	14.3 yd <sup>3</sup>

<sup>(1)</sup> Flywheel power is at rated engine speed.

<sup>(2)</sup> Optional 610 mm (24 in) shoe with TRAP-hole available. Not compatible with Front Striker bar option.

## Engine – D6R LGP

Engine Model	Cat® C9 ACERT™	
Flywheel Power <sup>(1)</sup>	145 kW	195 hp
No. of Cylinders	6 In-line	
Displacement	8.8 L	537 in <sup>3</sup>

## Operating Specifications – D6R LGP

Operating Weight	23 800 kg	52,470 lb
Height – Top of ROPS	3245 mm	128 in
Width – Over Trunnions	3941 mm	155 in
Length – with Blade	5465 mm	215 in
Length – without Blade	4247 mm	167 in
Ground Clearance	433 mm	17 in

## Track – D6R LGP

Width of Standard Track Shoe	914 mm	36 in
Length of Track on Ground	3275 mm	129 in
Track Gauge	2290 mm	90.2 in

## Landfill Blades – D6R LGP

Straight – Width	4063 mm	160 in
Straight – Capacities with Trash Rack	9.3 m <sup>3</sup>	12.1 yd <sup>3</sup>

## Engine – D7R

Engine Model	Cat® C9 ACERT™	
Flywheel Power <sup>(1)</sup>	179 kW	240 hp
No. of Cylinders	6 In-line	
Displacement	8.8 L	537 in <sup>3</sup>

## Operating Specifications – D7R

Operating Weight	27 610 kg	60,870 lb
Height – Top of ROPS	3280 mm	129 in
Width – Over Trunnions	2876 mm	113 in
Length – with Blade	6037 mm	238 in
Length – without Blade	4736 mm	187 in
Ground Clearance	416 mm	16 in

## Track – D7R

Width of Standard Track Shoe	610 mm	24 in
Length of Track on Ground	2870 mm	113 in
Track Gauge	1980 mm	78 in

## Landfill Blades – D7R

Semi-Universal – Width	3690 mm	145.3 in
Semi-Universal – Capacities with Trash Rack	14.0 m <sup>3</sup>	18.4 yd <sup>3</sup>

# Specifications

## Engine – D7R LGP

Engine Model	Cat® C9 ACERT™	
Flywheel Power <sup>(1)</sup>	179 kW	240 hp
No. of Cylinders	6 In-line	
Displacement	8.8 L	537 in <sup>3</sup>

## Operating Specifications – D7R LGP

Operating Weight	29 570 kg	65,190 lb
Height – Top of ROPS	3360 mm	132.3 in
Width – Over Trunnions	3396 mm	134 in
Length – with Blade	5807 mm	229 in
Length – without Blade	4736 mm	187 in
Ground Clearance	496 mm	19.5 in

## Track – D7R LGP

Width of Standard Track Shoe	914 mm	36 in
Length of Track on Ground	3175 mm	125 in
Track Gauge	2235 mm	88 in

## Landfill Blades – D7R LGP

Straight – Width	4500 mm	177.2 in
Straight – Capacities with Trash Rack	12.3 m <sup>3</sup>	16.1 yd <sup>3</sup>

<sup>(1)</sup> Flywheel power is at rated engine speed.

## Engine – D8R

Engine Model	Cat® 3406C DI TA	
Flywheel Power <sup>(1)</sup>	228 kW	305 hp
No. of Cylinders	6 In-line	
Displacement	14.6 L	893 in <sup>3</sup>

## Operating Specifications – D8R

Operating Weight	37 630 kg	82,880 lb
Height – Top of ROPS <sup>(2)</sup>	3498 mm	138 in
Width – Over Trunnions	3050 mm	120 in
Length – with Blade	6438 mm	253.5 in
Length – without Blade	4554 mm	179.3 in
Ground Clearance	528 mm	20.8 in

## Track – D8R

Width of Standard Track Shoe	710 mm	28 in
Length of Track on Ground	3206 mm	126 in
Track Gauge	2082 mm	82 in

## Landfill Blades – D8R

Semi-Universal – Width	3937 mm	155 in
Semi-Universal – Capacities with Trash Rack	20.0 m <sup>3</sup>	26.1 yd <sup>3</sup>

<sup>(2)</sup> Includes ROPS mounted air conditioner installed.

## Engine – D8R LGP

Engine Model	Cat® 3406C DI TA	
Flywheel Power <sup>(1)</sup>	228 kW	305 hp
No. of Cylinders	6 In-line	
Displacement	14.6 L	893 in <sup>3</sup>

## Operating Specifications – D8R LGP

Operating Weight	37 960 kg	83,687 lb
Height – Top of ROPS <sup>(2)</sup>	3498 mm	138 in
Width – Over Trunnions	3396 mm	134 in
Length – with Blade	6281 mm	247.3 in
Length – without Blade	4554 mm	179.3 in
Ground Clearance	519 mm	20.4 in

## Track – D8R LGP

Width of Standard Track Shoe	710 mm	28 in
Length of Track on Ground	3206 mm	126 in
Track Gauge	2337 mm	92 in

## Landfill Blades – D8R LGP

Semi-Universal – Width	4400 mm	173.2 in
Semi-Universal – Capacities with Trash Rack	21.1 m <sup>3</sup>	27.6 yd <sup>3</sup>



# D6R, D7R, D8R Track-Type Tractors Waste Handler

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

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