

963D WH

Waste Handler



Supplement

Note: For standard specifications and features, refer to the standard Caterpillar® specalog for this machine.

Engine

Engine Model	Cat® C6.6 ACERT™	
Net Flywheel Power	141 kW	189 hp

Buckets

Capacity – GP with trash rack	3.1 m ³	4.05 yd ³
Capacity – MP with trash rack	2.7 m ³	3.5 yd ³

Weights

Operating Weight	21 000 kg	46,297 lb
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Increased horsepower, excellent maneuverability, redesigned new cab design for operator comfort and the new implement system increase your productivity and make the new 963D unsurpassed in versatility.

Versatility

The track loader is the all-purpose machine for large or small landfills. It can work alone, doing a wide variety of jobs, or it can act as a support machine, complementing other on-site machines in their specific applications.

The track loader has the ability to:

- Excavate
- Carry
- Stockpile
- Load
- Cover
- Sort
- Shred
- Doze
- Compact
- Grade

Working with soil, sludge, trash, recyclables, white goods, construction/demolition materials and compost, track loaders bring an appetite for a variety of tasks to all sizes of landfills. Just as important, they can provide backup capabilities to other machines on the site.

Engine

The Cat® C6.6 ACERT engine utilizes the Caterpillar® Common Rail fuel delivery system. Designed for performance, durability, serviceability, and fuel economy, it meets EPA Tier 3, EU Stage IIIA and Japan Ministry of Land, Infrastructure & Transport Step 3 emission standards.

Serviceability

The 963D WH design offers reduced maintenance, convenient access to components, easy diagnostic capabilities, as well as easy and economical component replacement possibilities. Cat® dealers also provide quick parts availability.



Transfer Stations

In transfer stations, track loaders:

- shred and densify materials, maximizing transfer trailer loads without further processing
- offer outstanding maneuverability in tight areas
- can stockpile during peak periods

Work Tools

- Bucket – General Purpose with trash rack
- Bucket – Multi-purpose with trash rack

Total Customer Support

Your Caterpillar® dealer offers a wide range of services which can be set up with a Customer Support Agreement. A customized plan, from PM service to total machine maintenance, with flexible financing, allows for optimal return on investment.

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1) Cab, front rubber mounted glass

- For easy replacement. Limits downtime of the machine during windshield repair

2) Eight lights

- Four at the front, mounted on the top corner of the windshield, four at the back located in the A/C guard. Increases work time.

3) Guard, Idler

- Protects and limits the entry of debris to the tensioning system. Includes scrapers mounted around idler.

4) Final drive seal guards

- Metallic outside ring welded to the final drive. Helps protect seals from damage due to wrapping of wire or plastic.

5) Idler with seal protection

- Steel rings integrated into the idler design
- Helps keep wire, fishing line, strapping from damaging the Duo-Cone Seals

6) Guard, lift lines

- Protects the lift lines coming out of the chassis

7) Lift cylinder guard

- Protects lift cylinder hydraulic tube

8) Tilt cylinder guard

- Helps keep the rod surface from being damaged by falling debris

Waste Handling Arrangement includes: 1, 2, 3, 4, 5, 6, 9, 10 and 11

Transfer Station Arrangement includes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12

Optional Attachments include: 13, 14 and 15



9) Turbine precleaner

- Reduce particles coming in the engine air inlet. Extends engine filter life.

10) Sealing

- Prevents entry of debris in the engine compartment to limit plugging of radiator core. D series machine offers reduced and sealed gaps between sheet metal and other components.

11) Hydraulic reversible fan

- Purges debris from the radiator and engine compartment by reversing the airflow. The actuator switch is located on the right hand side console. Limits radiator plugging, increase maintenance interval.

12) Hinged grill and radiator fan

- Access for cleaning and maintenance to fan and radiator is outstanding. Angled louvers direct air upward away from the ground.

HD rear bumper (not shown)

- Offer an optimal protection to the rear of the machine and especially the cooling system. Includes a Heavy Duty grill with latch for quick opening and easy maintenance.

13) Rear striker bars

- Keep trash from damaging the fenders. Highly recommended in waste application. Extends sheet metal life.

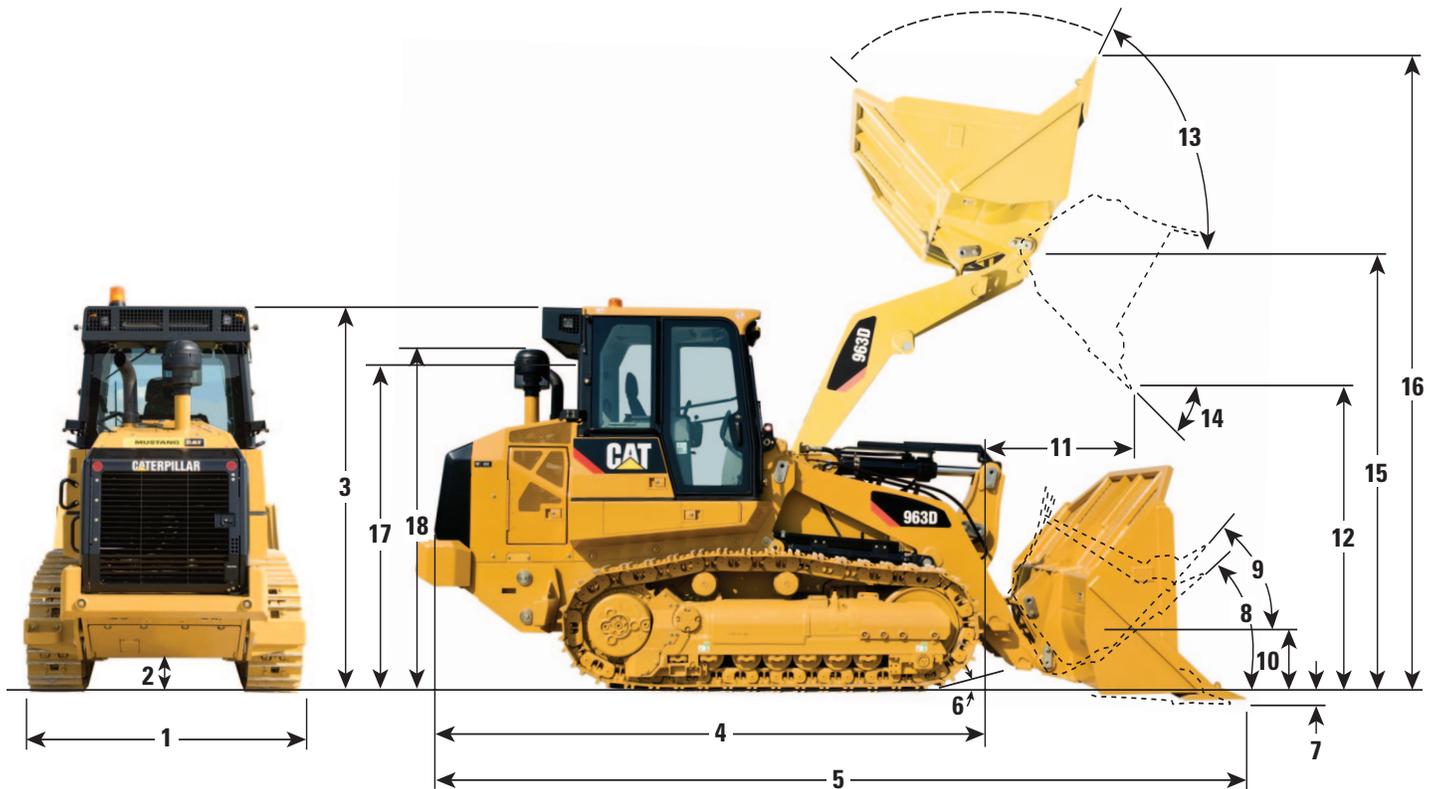
14) Track

- Center Hole track – reduces track packing, limits track components wear out. Extends undercarriage life.
- Double Grouser Track – provides good balance of traction and a smooth ride.
- Single Grouser Track – Aggressive track for good chopping action in debris and offers the best traction in poor underfoot conditions.

15) Landfill buckets

- Bucket equipped with heavy-duty trash rack. It increases bucket capacity in trash, reduces spillage, helps protect tilt cylinder rod. General purpose and multi-purpose options available.

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1	Overall machine width without bucket:	
	with standard tracks – 550 mm (21.6 in) shoes	2400 mm (94.5 in)
	with narrow tracks – 450 mm (17.7 in) shoes	2300 mm (90.6 in)
2	Ground clearance	471 mm (18.5 in)
3	Machine height to top of cab	3335 mm (131.3 in)
4	Length to front of track	4749 mm (187 in)
5	Overall machine length*	6941 mm (273.3 in)
6	Carry position approach angle	15°
7	Digging depth*	138 mm (5.4 in)
8	Maximum rollback at ground	43°
9	Maximum rollback at carry position	50°
10	Bucket height in carry position	457 mm (18 in)
11	Reach at full lift height and 45° dump*	1373 mm (54 in)
12	Clearance at full lift height and 45° dump*	2915 mm (114.8 in)
13	Maximum rollback, fully raised	52°
14	Maximum dump, fully raised	53°
	Grading angle	63°
15	Height to bucket hinge pin	3940 mm (155.1 in)
16	Overall machine height, bucket fully raised	5402 mm (212.7 in)
17	Height to top of seat with headrest	2790 mm (109.8 in)
18	Height to top of stack	2953 mm (116.3 in)

* With general purpose bucket and extra duty teeth.

Dimensions vary with bucket. Refer to Operating Specifications chart.

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Specifications

Engine

Engine Model	Cat® C6.6 ACERT™	
Flywheel Power	141 kW	189 hp
Net Power – Caterpillar	141 kW	189 hp
Net Power – ISO 9249	141 kW	189 hp
Net Power – SAE J1349	141 kW	189 hp
Net Power – EEC 80/1269	141 kW	189 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	6.6 L	403 in ³

Undercarriage

Track Shoe Type	Double Grouser	
Track Shoe Width – Standard	550 mm	21.6 in
Track Shoe Width – Optional	450 mm	17.7 in
Track Rollers – Each Side	7	
Number of Shoes – Each Side	38	
Track on Ground	2542 mm	100 in
Ground Contact Area – Standard Shoe	2.8 m ²	4,340 in ²
Ground Contact Area – Optional Shoe	2.3 m ²	3,565 in ²
Ground Pressure – Standard Shoe	70.9 kPa	10.3 psi
Ground Pressure – Optional Shoe	85.5 kPa	12.4 psi
Grouser Height – Double Grouser	42 mm	1.65 in
Track Gauge	1850 mm	72.8 in

Drive System

Track Motor	Two, variable displacement, bent axis motors	
Drive System	Hydrostatic drive with infinite machine speeds to 10.0 km/h (6.2 mph)	
Drive Pump	Two, variable-displacement, slipper-type axial piston pumps	
Track Motor	Two, variable-displacement, bent axis motors	
Relief Valve Setting	47 500 kPa (6,890 psi)	

Service Refill Capacities

Fuel Tank	400 L	105.6 gal
Cooling System	31.5 L	8.3 gal
Crankcase (with Filter)	16.5 L	4.4 gal
Final Drives (each)	15 L	4 gal
Hydraulic Tank	90 L	23.7 gal
Pivot Shaft	1.8 L	0.5 gal

Weights

Operating Weight	21 000 kg	46,297 lb
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Buckets

Capacity – General Purpose	3.1 m ³	4.1 yd ³
Capacity – Multi-Purpose	2.7 m ³	3.5 yd ³
Bucket Width – General Purpose	2612 mm	102.8 in
Bucket Width – Multi-Purpose	2575 mm	101.3 in

Ripper Specifications

Type	Radial	
Number of pockets	3	
Overall Width/Beam	1950 mm	76.7 in
Shank cross section	58.5 mm × 138 mm	50 in × 5.4 in
Ground Clearance	595 mm	23.4 in
Penetration	295 mm	11.6 in
Ripping Width	1836 mm	72.3 in
Cylinders – Bore	114.3 mm	4.49 in
Cylinders – Stroke	289 mm	11.3 in
Addition to Machine Length due to Ripper (in Transportation Position)	610 mm	24 in

Hydraulic System – Equipment

Type	Closed center, load sensing/piston	
Output	209 L/min	55.2 gal/min
Main Relief Valve Setting	27 500 kPa	3,989 psi

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Specifications

Standards

ROPS/FOPS

Brakes

Cab

- ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria SAE J1040 MAY94, ISO 3471:1994 DLV criteria SAE J397B, ISO 3164:1995.
- FOPS (Falling Object Protective Structure) meets SAE J/ISO 3449 APR98 Level II, ISO 3449:1992 Level II DLV criteria SAE J397B, ISO 3164:1995.
- Brakes meet SAE J/ISO 10265 MARCH99 ISO 10265:1998.
- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT 98 is 80 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- The operator sound pressure level measured according to the procedures specified in ISO 6396:1992 is 76 dB(A) for the cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection is recommended when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.
- The exterior sound pressure level for the standard machine measured at a distance of 15 meters according to the test procedures specified in SAE J88 APR 95, mid-gear-moving operation, is 80 dB(A).
- The labeled sound power level is 111 dB(A) measured according to the test procedure and conditions specified in 2000/14/EC.

Bucket Cycle Times

Lift – Seconds 5.7

Power Down – Seconds 3.7

Float Down – Seconds 2.0

Dump at Max Height
from full rackback – Seconds 1.3

Rackback at Max Height
from full dump – Seconds 1.5

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