953K/963K

Track Loaders

	953K		963K	
Engine				
Engine Model	Cat® C7.1 ACERT™		Cat C7.1 ACERT	
Engine Power (Maximum) – ISO 14396	129 kW	173 hp	165 kW	221 hp
Engine Power (Maximum) – ISO 14396 (DIN)		175 hp		224 hp
Net Power (Rated) – ISO 9249/SAE J1349	115 kW	154 hp	144 kW	193 hp
Net Power (Rated) – ISO 9249/SAE J1349 (DIN)		156 hp		196 hp
Weights				
Operating Weight	15 642 kg	34,484 lb	20 308 kg	44,771 lb
Operating Weight – Wide Gauge	17 747 kg	39,125 lb	22 712 kg	50,071 lb

953K/963K Features

Fuel Efficiency
*A more fuel efficient Cat C7.1 ACERT engine and Eco Mode combine to give you a 10-25 percent reduction in fuel use.**

Performance
*Smarter power train management gives you power when you need it and improved implement and steering response.**

Ease of Operation
Cab updates offer added comfort and convenience for operators. New handles and steps make access/egress even easier from the front or the back of the tracks.

Technology
Remote monitoring with Product Link™/ VisionLink® helps you manage your fleet more effectively and profitably.

**Compared to D Series models.*

Contents

Save money and transport time with one rugged machine for land clearing, digging, grading, truck loading, slope work and more. Crawler loaders give you reduced ground pressure and better traction so you can start the job earlier and work longer in soft underfoot conditions. Purpose-built Waste Handler, Ship Hold and Partial Steel Mill configurations stand up to the toughest applications. This new generation of Cat track loaders brings you all of this, plus improved performance and fuel efficiency.

Operator Environment

Comfort and productivity

Updated cab gives operators added comforts like adjustable armrests and controls, improved air conditioning system and a heated/ventilated seat option. The Liquid Crystal Display (LCD) operator interface makes it simple to customize machine performance features and to view machine operating and service information.

Excellent visibility to the bucket and all around the machine helps operators work more confidently. Reduced engine noise* makes the environment quieter for the operator and others around the worksite.

Cab-mounted heating/ventilation/air conditioning (HVAC) system gives you more cooling capability, and removes the condenser from under the hood for reduced heat and easier service.

*Compared to D Series models.

Implement and Steering Controls

- Electro-Hydraulic Implement Controls provide responsive, smooth and precise control of bucket and lift arms.
- Choose from either joystick or two-lever implement controls to match operator preference or application.
- Speed/steering controls are available as either a joystick or as V-lever and foot pedals.
- Optimize speed for the application, especially in lower range, with six ground speed ranges Forward and Reverse.
- A variable throttle control dial lets you use preset engine speeds, customized for operator preference.
- Selectable Electro-Hydraulic maps allow you to set implement response – fine, normal, coarse – to match operator preference or application.
- Hydrostatic Drive system provides quick machine travel speed, on-the-go directional changes and counterrotation.

Engine

A Cat C7.1 ACERT engine gives you the power and reliability you need to get the job done. More torque at lower engine speed gives you faster machine response under load.

Fuel Efficiency/Eco Mode

The more efficient engine and an **Eco Mode** combine to deliver a 10-25 percent reduction in fuel consumption compared to the D Series models. Eco Mode automatically reduces engine speed, but maintains selected ground speed under lighter loads.

Hydrostatic Drive

A new Electronic Control Module gives you smarter power train management, resulting in smoother implement/steering response and improved steering performance over the previous model. Power reaches the ground more efficiently based on the demands of the application, giving you fast acceleration and shorter cycle times. The electronically controlled Hystat drive uses variable displacement pumps and drive motors to power each track independently, delivering fast acceleration and infinitely variable speed. The operator can command smooth machine turns and counterrotation.

Cooling System

The single unit cooling system incorporates the radiator, air-to-air aftercooler, oil cooler and fan installation. The cooling module is located at the rear of the loader, away from dust and debris stirred up by the bucket while the machine is working. The radiator has 6.5 fins per inch to help reduce plugging. A simple, side-by-side design reduces debris and makes cleaning easier. The fold-down design gives you easy access.

A hydraulic demand fan reduces speed in cooler conditions to conserve power, save fuel and decrease sound levels. An optional reversing fan is available for high debris conditions.

Efficiency and Performance

Get the job done

Load-Sensing Hydraulics

Field-proven system senses the load and continuously adjusts hydraulic power to maximize your efficiency. Operators have precise control and the power needed for simultaneous lift, tilt and travel.

Position Sensing Cylinders

Position Sensing Cylinders allow the operator to set lift and tilt kickouts to match the application without leaving the cab. Linkage can be automatically set to specific positions for increased productivity. Advanced automatic features help make start/stop motions smoother, reducing vibration in the cab.

Automatic Kickouts

Standard programmable automatic kickouts provide flexibility and productivity for precise load and dump target heights. Tilt and lift kickouts are easily set by positioning the bucket or attachment and pressing a button on the right-hand control panel in the cab.

Equipped for the Job
Optimize your machine

Buckets

- **General Purpose** – Loadability and long life in applications like hard bank excavating, stripping, stockpile loading.
- **Multi-Purpose** – Versatility for loading, stripping, clearing, bulldozing, picking up debris, fine grading. Bucket clamps hydraulically to grip or handle other tough-to-grasp materials.
- **Performance Series** – Move up to 10 percent more material per hour.
- **Special Application** – Optimized for waste/landfill and ship hold work.
- **K Series™ Bucket Tooth System** stays sharp, holds tight and allows for simple changes. Lower-profile for optimal sharpness, penetration and digging ability throughout tip life.
- **Fusion™ Quick Coupler** option adds versatility by allowing easy use of forks, buckets, etc. from wheel loaders and other Fusion compatible machines.

Undercarriage

- Oscillating undercarriage decreases ground shock for increased stability and smoother ride. Heavy Duty track standard for aggressive applications like land clearing, side-slopes or rocky terrain.
- For low ground pressure work or added flotation, choose the LGP package with wide gauge undercarriage and wider track shoes and bucket.

Ripper

Multi shank ripper adds extra versatility and force to expand the machine's range of applications.

Safety
Designed with protection in mind

- New handles and steps help operators climb on and off the machine more easily, from the front or the back of the tracks.
- Excellent visibility to the bucket and all around the machine helps operators work more confidently.
- Rear vision camera* enhances visibility behind the machine.
- New seat belt indicator gives an alarm and registers fault code through Product Link if the operator fails to buckle up, enhancing job site safety.
- Improved ergonomics, a quieter engine and reduced effort controls help lessen fatigue so operators are better able to remain fresh and focused.

**Not available in all areas. Please consult your Cat dealer for details.*

Emissions Technology
Proven, integrated solutions

For regions utilizing U.S. EPA Tier 4 Final/ EU Stage IV emission standards, emissions reduction technology is designed to be transparent. Regeneration runs automatically in the background while you work.

Across a variety of applications, 953K/963K models typically have used Diesel Exhaust Fluid a rate of 2.5-3 percent of fuel consumption for excellent fluid efficiency. Conveniently refill from ground level when you refuel.

When the machine is turned off, a pump will automatically purge the DEF lines. If engine/aftertreatment temperatures are high, Delayed Engine Shutdown will activate automatically to cool the machine and then purge the lines. For complete aftertreatment information, please refer to the Operation and Maintenance Manual.

Waste Handler
Designed for performance

- Versatile machine for loading, sorting, excavation and spreading cover, well suited to the landfill or transfer station.
- Specialized guarding, striker bars and seals help protect the machine and components from impact and airborne debris.
- Final Drive guarding helps prevent wrapping and damage.
- Screen helps protect windshield and operator from breakage and debris.
- Cooling system is designed for high debris environments – radiator fan folds out for easy cleanout access.
- Specialized air handling features help deliver cleaner air to the machine and to the cab.
- Landfill buckets, equipped with heavy-duty trash rack, offer increased capacity and reduced spillage.
- Center-hole track helps reduce packing. Choose from a variety of shoe types and widths to optimize the loader for your application.
- Optional rear vision camera* enhances visibility behind the machine.

Enhanced Cleaning Package

Reduce cleaning time, add machine protection and increase compaction with an enhanced package* for waste handling track loaders.

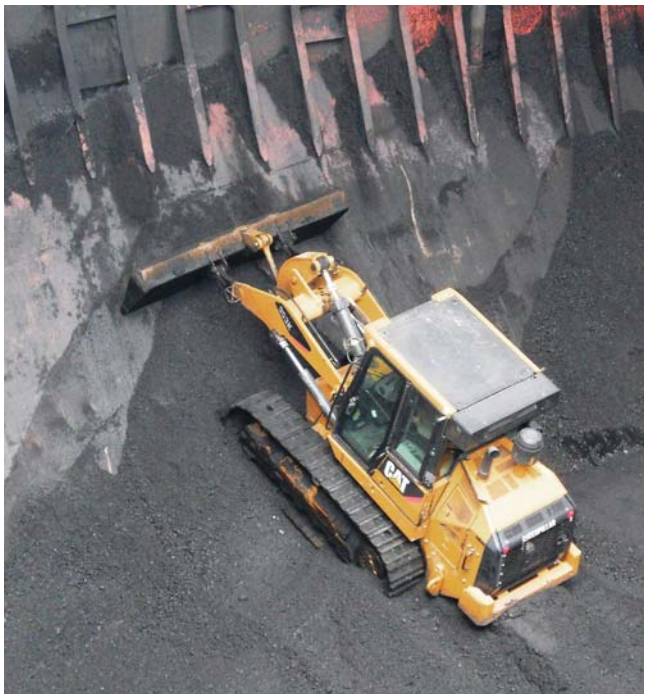
- Standard width track shoe helps free waste from between the track roller frame, tracks and chassis for faster cleaning.
- Design helps reduce damage caused by debris carried on the tracks.
- Heavier waste configuration combined with narrower track shoes increases ground pressure for greater compaction.

**Not available in all areas. Please consult your Cat dealer for details.*

Ship Hold Package

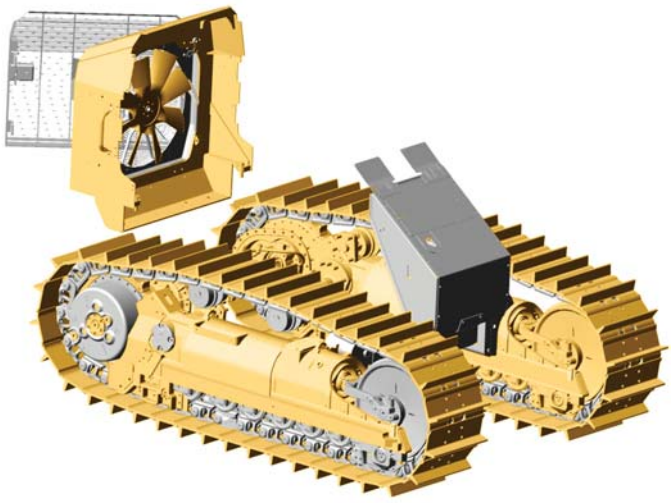
High reach and maneuverability

- Optimal combination of traction, high reach and machine balance makes track loaders ideal for working in ship holds and port handling duties.
- Specialized implements, like coal buckets and trim blades, help you sweep down walls and handle a variety of materials.
- Fusion Quick Coupler option adds versatility with easy use of forks, buckets and other attachments from compatible machines.
- Specialized sealing, guards and bumpers help protect key components.
- Front and rear eyes widely spaced for stability during lifting.
- Added lighting packages help illuminate the work area.



Partial Steel Mill Package

High temperature performance



- Base package facilitates dealer upgrades to equip your track loader for work in high temperature environments.
- Steel Mill undercarriage with high temperature seals for durability.
- Guards for final drives Duo-Cone® seals and equalizer bar side pivots.
- Welded side bars reduce thermal distortion of the track roller frame and protect the steel mill walls.
- Heavy duty front guard.
- Rear/fan door guard with latches for easy cleanout access.
- Fire retardant oil.
- Steel Mill bucket available.

Please consult with your Cat dealer for availability. This package does not include modifications required to work in hot slag.

Serviceability and Customer Support

When uptime counts

Ease of Service

- Designed to help you take care of routine maintenance and get back to work.
- Grouped service points located behind large access doors; daily grease points in easy reach at ground level.
- Service mode in the operator display shows hydrostatic and implement pressure for easier troubleshooting and servicing.
- Cooling system access from the engine compartment with fold-down fan for easy clean-out.
- Handy bracket holds a shovel for quick undercarriage clean-out.
- Tilt cab allows easy access to drive train and hydraulic systems.
- When equipped, Diesel Particulate Filter in the Clean Emissions Module designed to work for the life of the engine without needing to clean or replace the filter.

Cat Connect Technologies

- Product Link* is deeply integrated into your machine. Easy access to timely information like machine location, hours and event codes via the online VisionLink user interface can help you manage your fleet and reduce operating costs.

**Product Link not available in all areas. Please consult your Cat dealer for details.*

Engine

Engine Model	Cat C7.1 ACERT	
Engine Power (Maximum)		
SAE J1995	132 kW	177 hp
ISO 14396	129 kW	173 hp
ISO 14396 (DIN)		175 hp
Net Power (Rated)		
ISO 9249/SAE J1349	115 kW	154 hp
ISO 9249/SAE J1349 (DIN)		156 hp
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	427.8 in^3

- Engine ratings at 1,800 rpm.
- No derating required up to 3000 m (9,842 ft) altitude.
- All nonroad Tier 4 Interim and Final, Stage IIIB and IV and Korea Tier 4 Final diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD, containing 15 ppm sulfur or less). Biodiesel blends up to B20 (20% blend by volume) are acceptable when blended with 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.

Drive System

Maximum Travel Speed	10 km/h	6.2 mph
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

Undercarriage

Track Shoe Type	Double Grouser	
Track Shoe Width – Standard	480 mm	19 in
Track Shoe Width – Optional	380 mm	15 in
Track Shoe Width – Wide Gauge	800 mm	31.5 in
Track Rollers/Shoes – Each Side	6/37	
Track on Ground	2320 mm	91.3 in
Ground Contact Area – Standard Shoe	2.2 m^2	3.41 in^2
Ground Contact Area – Optional Shoe	1.8 m^2	2.79 in^2
Ground Contact Area – Wide Gauge	4.17 m^2	6,465 in^2
Ground Pressure[1] – Standard Shoe*	60.7 kPa	8.8 psi
Ground Pressure[1] – Optional Shoe*	76.7 kPa	11.1 psi
Ground Pressure[1] – Wide Gauge*	41.7 kPa	6.1 psi
Ground Pressure – Standard Shoe*	59.6 kPa	8.6 psi
Ground Pressure – Optional Shoe*	75.3 kPa	10.9 psi
Ground Pressure – Wide Gauge*	41.1 kPa	6.0 psi
Grouser Height – Double Grouser	35 mm	1.4 in
Track Gauge	1836 mm	72.3 in
Track Gauge – Wide Gauge	2136 mm	84.1 in
Link Pitch	190 mm	7.48 in

* ISO 16754:2008.

[1] Machine equipped with Tier 4 Final/Stage IV emissions reduction technology.

- Wide Gauge Arrangement available for lower ground pressure applications.
- Ground pressure is calculated using operating weight of machine with General Purpose bucket, teeth and segments.

Service Refill Capacities

Fuel Tank	265 L	70 gal
Cooling System	32 L	8.45 gal
Crankcase (with filter)	16.5 L	4.5 gal
Final Drives (each)	10.8 L	2.8 gal
Hydraulic Tank	70 L	18.5 gal
Pivot Shaft	0.7 L	0.18 gal
DEF Tank	16 L	4.22 gal

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.1 kg of refrigerant which has a CO_2 equivalent of 1.573 metric tonnes.

953K Track Loader Specifications

Electrical System

Type	24V DC
Battery Capacity	900 CCA
Battery Voltage	12V
Battery Quantity	2
Alternator – 105 Amps	Heavy-Duty Brushless (Tier 4/Stage IV)
Alternator – 115 Amps	Heavy-Duty Brushless (Tier 3/Stage IIIA)

Weights (Tier 4 Final/Stage IV)

Operating Weight	15 642 kg	34,484 lb
Operating Weight – Wide Gauge	17 747 kg	39,125 lb
Operating Weight – Waste Handler	15 720 kg	34,656 lb
Shipping Weight	14 377 kg	31,696 lb
Shipping Weight – Wide Gauge	16 087 kg	35,465 lb
Shipping Weight – Waste Handler	14 455 kg	31,867 lb

- Operating Weight: Includes coolant, lubricants, 100% fuel tank, ROPS/FOPS cab, General Purpose bucket with long bolt-on teeth and segments and 75 kg (165 lb) operator.
- Shipping Weight: Includes coolant, lubricants, 10% fuel tank, ROPS/FOPS cab and no bucket.

Weights

Operating Weight	15 355 kg	33,852 lb
Operating Weight – Wide Gauge	17 460 kg	38,492 lb
Operating Weight – Waste Handler	15 433 kg	34,024 lb
Shipping Weight	14 090 kg	31,063 lb
Shipping Weight – Wide Gauge	15 800 kg	34,833 lb
Shipping Weight – Waste Handler	14 168 kg	31,235 lb

- Operating Weight: Includes coolant, lubricants, 100% fuel tank, ROPS/FOPS cab, General Purpose bucket with long bolt-on teeth and segments and 75 kg (165 lb) operator.
- Shipping Weight: Includes coolant, lubricants, 10% fuel tank, ROPS/FOPS cab and no bucket.

Buckets

Capacity – General Purpose	1.8 m^3	2.4 yd^3
Capacity – Performance Series	2.1 m^3	2.7 yd^3
Capacity – Multi-Purpose	1.6 m^3	2.1 yd^3
Capacity – Landfill	2.3 m^3	3.0 yd^3
Bucket Width – General Purpose	2485 mm	97.8 in
Bucket Width – Performance Series	2536 mm	99.8 in
Bucket Width – Multi-Purpose	2471 mm	97.3 in
Bucket Width – Landfill	2485 mm	97.8 in

- Bucket equipped with teeth and segments.

Bucket Cycle Times

Lift	5.4 seconds
Power Down	3.0 seconds
Float Down	2.0 seconds
Dump at Maximum Height (from full rackback)	1.3 seconds
Rackback at Maximum Height (from full dump)	1.4 seconds

Hydraulic System – Implement

Type	Closed center, load sensing piston	
Output	176 L/min	44.6 gal/min
Main Relief Valve Setting	28 000 kPa	4,061 psi

Ripper Specifications

Type	Radial	
Number of Pockets	3	
Overall Width/Beam	1952 mm	76.9 in
Shank Cross Section	50 mm × 109 mm	1.96 in × 4.2 in
Ground Clearance	507 mm	20 in
Penetration	290 mm	11.4 in
Ripping Width	1800 mm	70.9 in
Cylinders – Bore	101.6 mm	4 in
Cylinders – Stroke	270 mm	10.6 in
Added Machine Length with Ripper in Transport Position	437 mm	17.2 in

Standards

ROPS/FOPS

- ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria ISO 3471:2008.
- FOPS (Falling Object Protective Structure) meets ISO 3449-2005 Level II.

Brakes

- Brakes meet the standard ISO 10265:2008.

Sound and Vibration Information

- The declared dynamic operator sound pressure level when "ISO 6396:2008" is used to measure the value for an enclosed cab. The measurements were conducted at the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The cab was properly installed and maintained. The measurements were conducted with the cab doors and the cab windows closed.
  NOTE: The dynamic operator sound pressure level uncertainty is ± 2 dB(A).

953K[1]	71 dB(A)

- Hearing protection may be needed when the machine is operated with an open operator station for extended periods, in a noisy environment or with a cab that is not properly maintained.
- The guaranteed exterior sound power level is measured according to the dynamic test procedures and the conditions that are specified in "ISO 6395:2008." The measurements were conducted at the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

953K[1]	107 dB(A)

- Sound Level Information for Machines in European Union Countries and in Countries that Adopt the "EU Directives":
  If equipped, the certification label is used to verify the environmental sound certification of the machine to the requirements of the European Union. The value that is listed on the label indicates the guaranteed exterior sound power level (L_{WA}) at the time of manufacture for the conditions that are specified in "2000/14/EC."

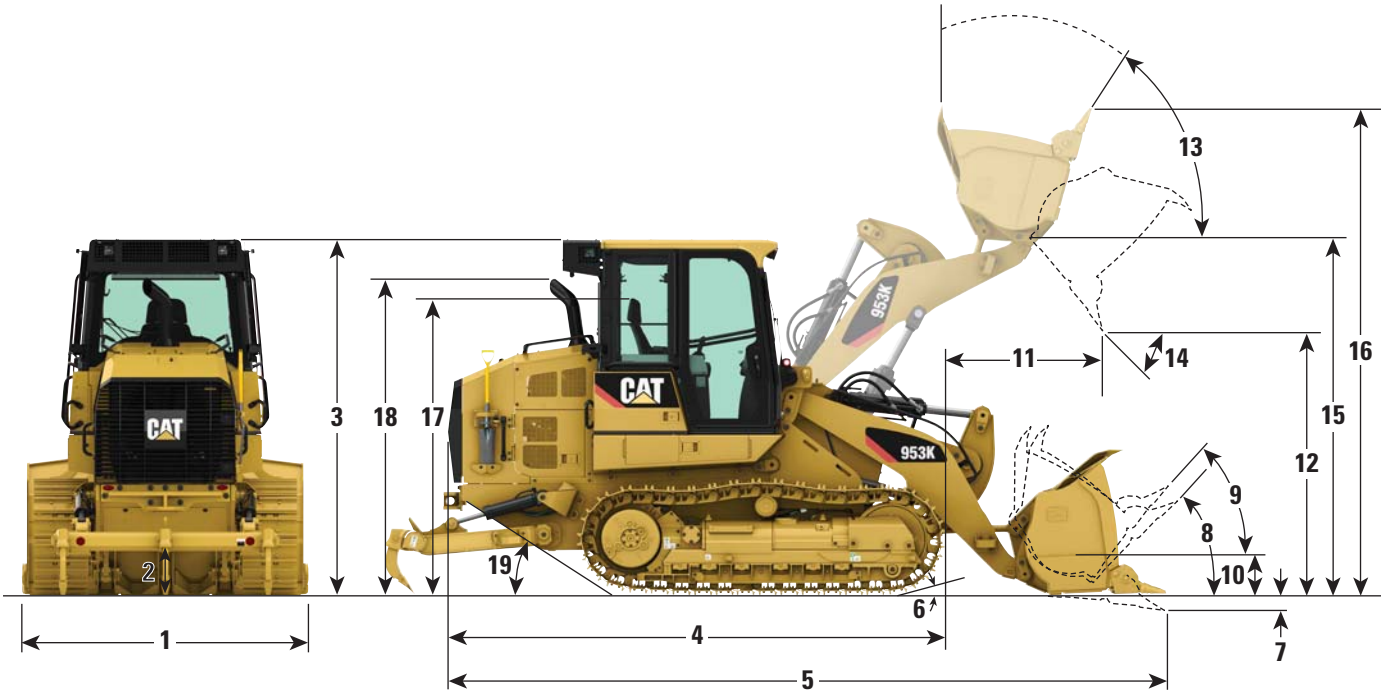
953K[1]	109 dB(A)

[1] Machine equipped with Tier 4 Final/Stage IV emissions reduction technology.

953K Track Loader Specifications

Dimensions

All dimensions are subject to change without notice.



1	Overall Machine Width without Bucket:		
	With Standard Tracks – 480 mm (19.7 in) Shoes	2316 mm	91.2 in
	With Narrow Tracks – 380 mm (14.9 in) Shoes	2216 mm	87.2 in
	With Wide Gauge Tracks – 800 mm (31.5 in) Shoes	2936 mm	115.6 in
2	Ground Clearance	417 mm	16.4 in
3	Machine Height to Top of Cab	3155 mm	124.2 in
4	Length to Front of Track	4545 mm	178.9 in
5	Overall Machine Length*	6389 mm	251.5 in
6	Carry Position Approach Angle	15°	
7	Digging Depth*	140 mm	5.5
8	Maximum Rollback at Ground	43°	
9	Maximum Rollback at Carry Position	50°	
10	Bucket Height in Carry Position	548 mm	21.6 in
11	Reach at Full Lift Height and 45° Dump*	1195 mm	47 in
12	Clearance at Full Lift Height and 45° Dump*	2694 mm	106 in
13	Maximum Rollback, Fully Raised	52°	
14	Maximum Dump, Fully Raised	53°	
	Grading Angle	74°	
15	Height to Bucket Hinge Pin	3610 mm	142.1 in
16	Overall Machine Height, Bucket Fully Raised	4666 mm	183.7 in
17	Height to Top of Seat with Headrest	2596 mm	102.2 in
18	Height to Top of Stack	2804 mm	110.3 in
19	Ramp Angle	29°	

* With general purpose bucket and extra duty teeth.

Dimensions vary with bucket. Refer to Operating Specifications chart.

Operating Specifications

		General Purpose Bucket			Multi-Purpose Bucket			Flush Mounted Teeth	Performance Series Bucket
Attachments on Bucket Cutting Edge		**None**	**Long Teeth & Segments**	**Bolt-on Edge**	**None**	**Long Teeth & Segments**	**Bolt-on Edge**	**Long Teeth**	**Long Teeth & Segments**
Bucket Weight	kg	990	1216	1100	1498	1724	1608	1090	1419
	lb	2,183	2,681	2,425	3,302	3,801	3,545	2,403	3,218
Rated Load Nominal Heaped§	kg	2924	3096	3096	2580	2752	2752	2924	3612
	lb	6,670	6,960	6,960	5,800	6,090	6,090	6,670	7,830
Rated Capacity Nominal Heaped	m^3	1.7	1.8	1.8	1.5	1.6	1.6	1.7	2.1
	yd^3	2.3	2.4	2.4	2.0	2.1	2.1	2.3	2.7
Struck Capacity	m^3	1.5	1.6	1.6	1.3	1.4	1.4	1.5	1.9
	yd^3	1.9	2.1	2.1	1.7	1.8	1.8	1.9	2.5
Bucket Width Overall*#	mm	2392	2485	2454	2378	2471	2440	2438	2536
	in	94.2	97.8	96.6	93.6	97.3	96.1	96.0	99.8
Teeth		none	***	none	none	***	none	***	***
Dimensions and Weights									
Overall Height	mm	3155	3155	3155	3155	3155	3155	3155	3155
	in	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.2
Overall Operating Height*	mm	4823	4823	4823	4823	4823	4823	4823	4972
	in	190.0	190.0	190.0	190.0	190.0	190.0	190.0	195.7
Clearance at 45° Dump	mm	2909	2694	2844	2792	2577	2727	2733	2585
Maximum Lift*	in	114.5	105.8	112.0	109.9	101.5	107	107.6	107.6
Reach at 45° Dump Maximum Lift*	mm	1002	1195	1042	1099	1292	1139	1234	1244
	in	39.4	47.1	41	43.3	51	44.8	48.6	49.0
Reach at 45° Dump	mm	1003	1195	1054	1045	1237	1096	1195	1257
2133 mm (84 in) Clearance*	in	39.5	47.0	41.5	41.1	48.7	43.2	47.0	49.5
Bottom Dump Clearance at 45°	mm	—	—	—	3182	3182	3182	—	—
Dump Maximum Lift	in	—	—	—	125.3	125.3	125.3	—	—
Bottom Dump Reach at 45°	mm	—	—	—	559	559	559	—	—
Dump Maximum Lift	in	—	—	—	22	22	22	—	—
Reach with Lift Arm Horizontal	mm	2099	2389	2171	2213	2503	2285	2361	2477
and Bucket Level	in	87	94	85.5	87.1	98.5	89.9	93	98
Overall Length – Bucket Level	mm	6121	6389	6194	6234	6502	6306	6385	6476
on Ground*	in	241.0	251.5	243.8	245.4	256.0	248.3	251	255
Digging Depth*	mm	92	140	117	142	190	167	105	140
	in	3.6	5.5	4.6	5.6	7.5	6.6	4.1	5.5
Full Dump at Maximum Lift*	deg	53	53	53	49	49	49	53	53
Carry Height*	mm	548	548	548	548	548	548	548	548
	in	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
Rackback at Carry*	deg	50	50	50	50	50	50	50	50
Rackback at Ground*	deg	43	43	43	43	43	43	43	43
Grading Angle Maximum*	deg	74	74	74	74	74	74	74	74
Static Tipping Load Minimum*##	kg	10 877	10 651	10 767	10 354	10 128	10 244	10 777	10 448
	lb	23,980	23,482	23,737	22,827	22,329	22,585	23,759	23,034
Breakout with Tilt Cylinders	N	164 616	150 709	150 709	143 920	133 176	133 176	155 441	137 021
Level at Ground*	lbf	37,007	33,880	33,880	32,354	29,939	29,939	34,945	30,804
Lift Capacity to Full Lift –	kg	6822	6596	6712	6314	6088	6204	6722	6393
Bucket Racked*	lb	15,040	14,542	14,797	13,920	13,422	13,677	14,819	14,094
Lift Capacity at Ground Line –	kg	12 157	11 931	12 047	11 649	11 423	11 539	12 057	11 728
Bucket Racked*	lb	26,801	26,303	26,559	25,681	25,183	25,439	26,581	25,856
Shipping Weight without Bucket**	kg	14 377	14 377	14 377	14 414	14 414	14 414	14 377	14 377
	lb	31,696	31,696	31,696	31,777	31,777	31,777	31,696	31,696
Operating Weight with Bucket##	kg	15 642	15 868	15 752	16 187	16 413	16 297	15 516	16 071
	lb	34,484	34,983	34,727	35,686	36,184	35,928	34,207	35,430

* SAE J732 JUN92.

** With 10% fuel. All other fluid compartments full. No operator, no bucket pins. Subtract 287 kg (633 lb) for machines not equipped with Tier 4 Final/Stage IV emissions reduction technology.

*** Eight bolt-on with replaceable tips.

\# Width at cutting edge.

Full fuel, 75 kg (165 lb) operator, standard machine. Subtract 287 kg (633 lb) for machines not equipped with Tier 4 Final/Stage IV emissions reduction technology.

§ Calculation based on 1720 kg/m^3 (2,900 lb/yd^3) of loose dirt.

963K Track Loader Specifications

Engine

Engine Model	Cat C7.1 ACERT	
Engine Power (Maximum)		
SAE J1995	168 kW	225 hp
ISO 14396	165 kW	221 hp
ISO 14396 (DIN)		224 hp
Net Power (Rated)		
ISO 9249/SAE J1349	144 kW	193 hp
ISO 9249/SAE J1349 (DIN)		196 hp
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	427.8 in^3

- Engine ratings at 1,800 rpm.
- No derating required up to 3000 m (9,842 ft) altitude.
- All nonroad Tier 4 Interim and Final, Stage IIIB and IV and Korea Tier 4 Final diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD, containing 15 ppm sulfur or less). Biodiesel blends up to B20 (20% blend by volume) are acceptable when blended with 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.

Drive System

Maximum Travel Speed	10 km/h	6.2 mph
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

Undercarriage

Track Shoe Type	Double Grouser	
Track Shoe Width – Standard	550 mm	22 in
Track Shoe Width – Optional	450 mm	18 in
Track Shoe Width – Wide Gauge	800 mm	31 in
Track Rollers – Each Side	7	
Number of Shoes – Each Side	38	
Track on Ground	2542 mm	100 in
Ground Contact Area – Standard Shoe*	3.2 m^2	4,900 in^2
Ground Contact Area – Optional Shoe*	2.6 m^2	4,013 in^2
Ground Contact Area – Wide Gauge*	4.6 m^2	7,136 in^2
Ground Pressure[1] – Standard Shoe*	62.9 kPa	9.1 psi
Ground Pressure[1] – Optional Shoe*	76.9 kPa	11.1 psi
Ground Pressure[1] – Wide Gauge*	48.4 kPa	7.0 psi
Ground Pressure – Standard Shoe*	62.0 kPa	9.0 psi
Ground Pressure – Optional Shoe*	75.8 kPa	11 psi
Ground Pressure – Wide Gauge*	47.8 kPa	6.9 psi
Grouser Height – Double Grouser	42 mm	1.65 in
Track Gauge	1850 mm	72.8 in
Track Gauge – Wide Gauge	2100 mm	82.7 in
Link Pitch	202.8 mm	8.0 in

* ISO 16754:2008.

[1] Machine equipped with Tier 4 Final/Stage IV emissions reduction technology.

- Wide Gauge Arrangement available for lower ground pressure applications.
- Ground pressure is calculated using operating weight of machine with General Purpose bucket.

Service Refill Capacities

Fuel Tank	320 L	84.5 gal
Cooling System	32 L	8.45 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
DEF Tank	16 L	4.22 gal

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.1 kg of refrigerant which has a CO_2 equivalent of 1.573 metric tonnes.

Electrical System

Type	24V DC
Battery Capacity	1,120 CCA
Battery Voltage	24V
Battery Quantity	2
Alternator – 105 Amps	Heavy-Duty Brushless (Tier 4/Stage IV)
Alternator – 115 Amps	Heavy-Duty Brushless (Tier 3/Stage IIIA)

Weights (Tier 4 Final/Stage IV)

Operating Weight	20 308 kg	44,771 lb
Operating Weight – Wide Gauge	22 712 kg	50,071 lb
Operating Weight – Waste Handler	20 611 kg	45,439 lb
Shipping Weight	18 418 kg	40,604 lb
Shipping Weight – Wide Gauge	20 390 kg	44,952 lb
Shipping Weight – Waste Handler	18 572 kg	40,944 lb

- Operating Weight: Includes coolant, lubricants, 100% fuel tank, ROPS/FOPS cab, General Purpose bucket with long bolt-on teeth and segments and 75 kg (165 lb) operator.
- Shipping Weight: Includes coolant, lubricants, 10% fuel tank, ROPS/FOPS cab and no bucket.

Weights

Operating Weight	20 021 kg	44,138 lb
Operating Weight – Wide Gauge	22 425 kg	49,438 lb
Operating Weight – Waste Handler	20 322 kg	44,802 lb
Shipping Weight	18 131 kg	39,972 lb
Shipping Weight – Wide Gauge	20 103 kg	44,319 lb
Shipping Weight – Waste Handler	18 285 kg	40,311 lb

- Operating Weight: Includes coolant, lubricants, 100% fuel tank, ROPS/FOPS cab, General Purpose bucket with long bolt-on teeth and segments and 75 kg (165 lb) operator.
- Shipping Weight: Includes coolant, lubricants, 10% fuel tank, ROPS/FOPS cab and no bucket.

Buckets

Capacity – General Purpose	2.5 m^3	3.2 yd^3
Capacity – Performance Series	2.8 m^3	3.7 yd^3
Capacity – Multi-Purpose	2.0 m^3	2.6 yd^3
Capacity – Wide Flush	2.8 m^3	3.7 yd^3
Capacity – Landfill	3.1 m^3	4.1 yd^3
Bucket Width – General Purpose	2612 mm	102.8 in
Bucket Width – Performance Series	2712 mm	106.8 in
Bucket Width – Multi-Purpose	2575 mm	101.3 in
Bucket Width – Wide Flush	2998 mm	118.1 in
Bucket Width – Landfill	2612 mm	102.8 in

- Bucket equipped with teeth and segments.

Bucket Cycle Times

Lift	5.5 seconds
Power Down	3.7 seconds
Float Down	2.0 seconds
Dump at Maximum Height (from full rackback)	1.3 seconds
Rackback at Maximum Height (from full dump)	1.4 seconds

Hydraulic System – Implement

Type	Closed center, load sensing piston	
Output	230 L/min	60.8 gal/min
Main Relief Valve Setting	27 500 kPa	3,989 psi

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	4.5 in
Cylinders – Stroke	289 mm	11.3 in
Added Machine Length with Ripper in Transport Position	610 mm	24.0 in

Standards

ROPS/FOPS

- ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria ISO 3471:2008.
- FOPS (Falling Object Protective Structure) meets ISO 3449-2005 Level II.

Brakes

- Brakes meet the standard ISO 10265:2008.

Sound and Vibration Information

- The declared dynamic operator sound pressure level when "ISO 6396:2008" is used to measure the value for an enclosed cab. The measurements were conducted at the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The cab was properly installed and maintained. The measurements were conducted with the cab doors and the cab windows closed.
  NOTE: The dynamic operator sound pressure level uncertainty is ± 2 dB(A).

963K[1]	73 dB(A)
963K	75* dB(A)

- Hearing protection may be needed when the machine is operated with an open operator station for extended periods, in a noisy environment or with a cab that is not properly maintained.
- The guaranteed exterior sound power level is measured according to the dynamic test procedures and the conditions that are specified in "ISO 6395:2008." The measurements were conducted at the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

963K[1]	109 dB(A)
963K	111* dB(A)

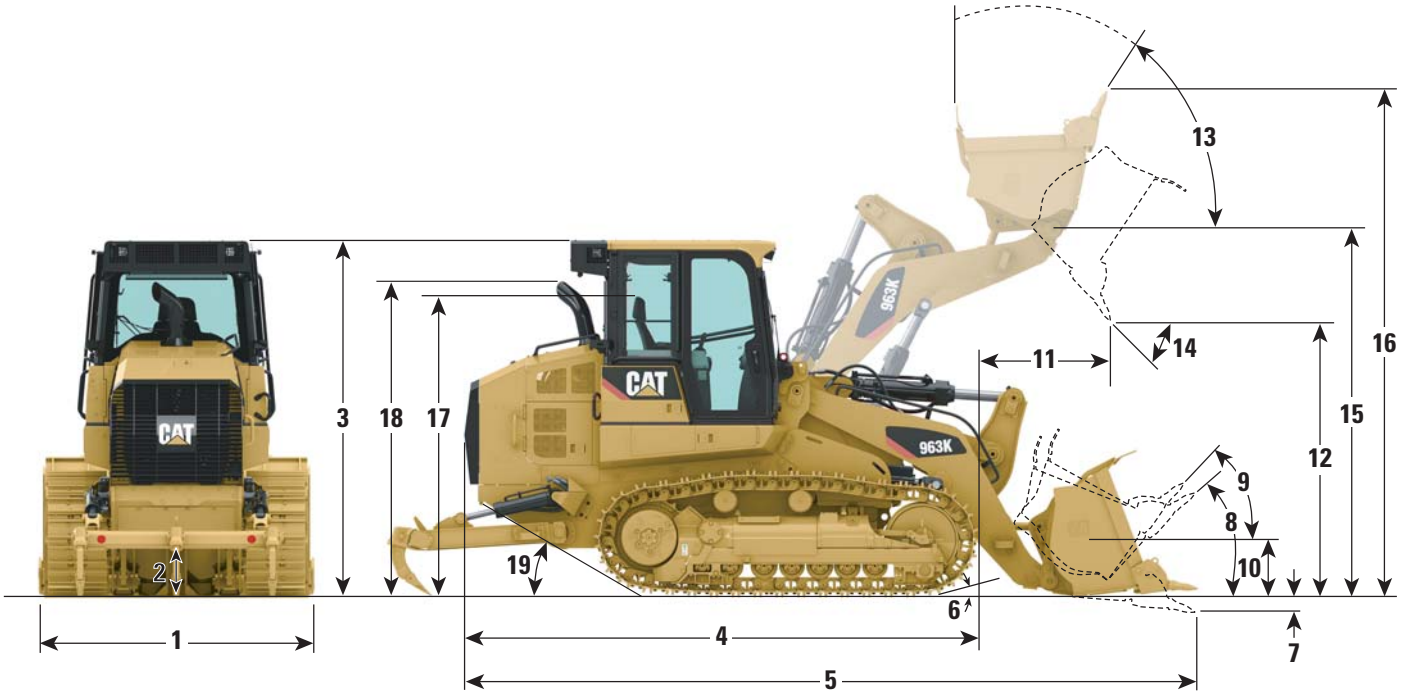
- Sound Level Information for Machines in European Union Countries and in Countries that Adopt the "EU Directives":
  If equipped, the certification label is used to verify the environmental sound certification of the machine to the requirements of the European Union. The value that is listed on the label indicates the guaranteed exterior sound power level (L_{WA}) at the time of manufacture for the conditions that are specified in "2000/14/EC."

963K[1]	111 dB(A)

[1] Machine equipped with Tier 4 Final/Stage IV emissions reduction technology.
* Temporary value.

Dimensions

All dimensions are approximate.



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		90.5 in
	With Wide Gauge Tracks – 800 mm (31.5 in) Shoes	2900 mm		114.2 in
2	Ground Clearance	471 mm		18.5 in
3	Machine Height to Top of Cab	3325 mm		130.9 in
4	Length to Front of Track	4943 mm		194.6 in
5	Overall Machine Length*	7001 mm		275.6 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	2808 mm		110.6 in
18	Height to Top of Stack	2940 mm		115.7 in
19	Ramp Angle		29°	

* With General Purpose bucket and extra duty teeth.

Dimensions vary with bucket. Refer to Operating Specifications chart.

963K Track Loader Specifications

Operating Specifications

		General Purpose Bucket			Multi-Purpose Bucket			Flush Mounted Teeth	Performance Series Bucket
Attachments on Bucket Cutting Edge		**None**	**Long Teeth & Segments**	**Bolt-on Edge**	**None**	**Long Teeth & Segments**	**Bolt-on Edge**	**Long Teeth**	**Long Teeth & Segments**
Bucket Weight	kg	1508	1866	1721	1942	2236	2155	1619	1951
	lb	3,324.5	4,113.8	3,794.1	4,281.3	4,929.5	4,750.9	3,569.2	4,301.1
Rated Load Nominal Heaped§	kg	3958	4214	4214	3216	3388	3440	4214	4712
	lb	8,721.4	9,290.2	9,290.2	7,090	7,469.2	7,583.8	9,290.2	10,387
Rated Capacity Nominal Heaped	m^3	2.3	2.45	2.45	1.9	2.0	2.0	2.45	2.8
	yd^3	3.0	3.2	3.2	2.4	2.6	2.6	3.2	3.66
Struck Capacity	m^3	2.0	2.14	2.14	1.6	1.7	1.7	2.0	2.5
	yd^3	2.61	2.79	2.79	2.09	2.22	2.22	2.61	3.27
Bucket Width Overall*#	mm	2508	2612	2539	2482	2575	2515	2583	2712
	in	98.7	102.8	99.9	97.7	101.3	99	101.6	106.8
Teeth		none	***	none	none	***	none	***	***
Dimensions and Weights									
Overall Height	mm	3325	3325	3325	3325	3325	3325	3325	3325
	in	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9
Overall Operating Height*	mm	5402	5402	5402	5308	5308	5308	5402	5402
	in	212.6	212.6	212.6	208.9	208.9	208.9	212.6	212.6
Clearance at 45° Dump Maximum Lift*	mm	3155	2915	3068	3000	2772	2909	2951	2840
	in	124.2	114.7	120.7	118.1	109.1	114.5	116.1	111.8
Reach at 45° Dump Maximum Lift*	mm	1160	1373	1215	1079	1253	1119	1397	1298
	in	45.7	54.1	47.8	42.5	49.3	44	55	51.1
Reach at 45° Dump 2133 mm (84 in) Clearance*	mm	1784	1899	1806	1598	1650	1607	1940	1824
	in	70.2	74.8	71.1	62.9	65	63.3	76.4	71.8
Bottom Dump Clearance at 45° Dump Maximum Lift	mm	—	—	—	3450	3450	3450	—	—
	in	—	—	—	135.8	135.8	135.8	—	—
Bottom Dump Reach at 45° Dump Maximum Lift	mm	—	—	—	627	627	627	—	—
	in	—	—	—	24.7	24.7	24.7	—	—
Reach with Lift Arm Horizontal and Bucket Level	mm	2289	2604	2386	2346	2622	2447	2601	2604
	in	90.1	102.5	93.9	92.4	103.2	96.4	102.4	102.5
Overall Length – Bucket Level on Ground*	mm	6644	7001	6766	6758	7073	6880	6967	7107
	in	261.6	275.6	266.4	266.1	278.5	270.9	274.3	279.8
Digging Depth*	mm	80	138	115	161	209	191	95	138
	in	3.1	5.4	4.5	6.3	8.2	7.5	3.7	5.4
Full Dump at Maximum Lift*	deg	53	53	53	43	43	43	53	53
Carry Height*	mm	457	457	457	540	540	540	457	457
	in	18	18	18	21.6	21.6	21.6	18	18
Rackback at Carry*	deg	50	50	50	52	52	52	50	50
Rackback at Ground*	deg	43	43	43	45	45	45	43	43
Grading Angle Maximum*	deg	63	63	63	63	63	63	63	63
Static Tipping Load Minimum*##	kg	14 969	14 462	14 685	14 487	14 124	14 208	14 815	14 377
	lb	33,001	31,883.1	32,375	31,938.3	31,138	31,323.3	32,661.5	31,696
Breakout with Tilt Cylinders Level at Ground*	N	208 658	203 868	206 184	193 265	189 538	190 769	207 438	185 273
	lbf	46,908	45,831	46,352	43,447	42,609	42,886	46,634	41,651
Lift Capacity to Full Lift – Bucket Racked*	kg	8803	8479	8609	8382	8152	8203	8703	8394
	lb	19,407	18,693	18,979.57	18,479	17,972	18,084.5	19,186.8	18,505
Lift Capacity at Ground Line – Bucket Racked*	kg	18 574	18 655	19 031	18 559	17 888	18 082	19 300	18 570
	lb	40,948.6	41,127	41,956	40,915.5	39,436.2	39,863.9	42,549	40,940
Shipping Weight without Bucket**	kg	18 418	18 418	18 418	18 473	18 473	18 473	18 418	18 418
	lb	40,605	40,605	40,605	40,726	40,726	40,726	40,605	40,605
Operating Weight with Bucket##	kg	20 308	20 668	20 509	20 786	21 051	20 987	20 408	20 753
	lb	44,771	45,565	45,215	45,825	46,410	46,268	44,992	45,753

* SAE J732 JUN92.

** With 10% fuel. All other fluid compartments full. No operator, no bucket pins. Subtract 287 kg (633 lb) for machines not equipped with Tier 4 Final/Stage IV emissions reduction technology.

*** Eight bolt-on with replaceable tips.

Width at cutting edge.

Full fuel, 75 kg (165 lb) operator, standard machine. Subtract 287 kg (633 lb) for machines not equipped with Tier 4 Final/Stage IV emissions reduction technology.

§ Calculation based on 1720 kg/m^3 (2,900 lb/yd^3) of loose dirt.

Standard Equipment

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

POWER TRAIN

- Cat C7.1 ACERT diesel engine, turbo charged with Air-To-Air After Cooler (ATAAC)
- Modular cooling system for engine air intake, oil and water
- Radiator fan, electronically controlled, hydraulically driven, temperature sensing, on demand
- Electro Hydrostatic Control (EHC) for transmission with travel and work modes
- Engine idle shutdown
- Auto engine speed control
- Electric fuel pump
- Water separator
- Air cleaner dry-type, axial seal with integral precleaner and dust ejection system, electronic filter condition indicator
- Starting aid, glow plug
- Caterpillar extended life coolant

UNDERCARRIAGE

- Caterpillar heavy duty undercarriage:
  - 953K (37 sections), 1836 mm (72.3 in) track gauge
  - 963K (38 sections), 1850 mm (72.8 in) track gauge
- Track guiding guards, end section
- Track adjuster, hydraulic
- Sprocket rims, with replaceable bolt-on tough steel segments
- Guards, sprocket
- Six track rollers per side (953K)/seven track rollers per side (963K), with two upper carrier rollers, lifetime lubricated
- Idlers, conventional type, lifetime lubricated
- Oscillating track roller frames

ELECTRICAL

- Alternator, 24V, heavy duty brushless
- Backup alarm
- Electric horn
- Two heavy duty batteries, high output, maintenance free:
  - 953K, 900 CCA
  - 963K, 1,120 CCA
- Switch, main disconnect
- Starter, electric (heavy duty, 24V)

OPERATOR ENVIRONMENT

- Pressurized, sound suppressed, ROPS/FOPS cab with tinted glass and right side sliding window
- Air conditioning and heating
- Heater/defroster with automatic temperature control
- Seat, fabric-covered, air suspended, adjustable
- Adjustable armrests
- Electro hydraulic, seat mounted control levers with faster processing
- Seat belt, retractable, with buckling indicator on dash
- Electronic Monitoring System with gauges for:
  - Engine coolant temperature
  - Hydraulic oil temperature
  - Fuel level
  - Engine oil pressure
  - Diesel Exhaust Fluid level (when equipped)
- Engine RPM and gear display
- Hour meter, electronic
- Throttle switch rotary with Eco Mode
- Center brake pedal
- Independent forward/reverse speed range settings
- Travel speed limiter, electronic
- Mirror, rearview, inside, adjustable
- Radio ready. Includes 24V to 12V converter, speakers, antenna and 12V power outlet
- Coat hook
- Storage compartments under left armrest
- Document holder on right console
- Floor mat, rubber, heavy duty
- Windshield washers and wipers, multiple speed front and rear
- Durable metal roof
- Parking brake switch and “brake-on” indicator light
- Fender

OTHER STANDARD EQUIPMENT

- Sound suppression, exterior
- Z-bar loader linkage
- Load sensing variable displacement implement pump
- Implement cylinders with sensors
- Operator programmable lift and tilt kickouts
- Engine enclosure with lockable doors
- Radiator core 6.5 fins-per-inch, debris resistant
- Hinged radiator guard and swing out fan
- Full bottom guards
- Ecology drains on hydraulic oil tank
- Product Link ready
- Oil sampling valves
- Cat XT™ hoses
- HYDO™ Advanced 10

Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

POWER TRAIN

- Cat C7.1 ACERT diesel engine with engine mounted aftertreatment to meet U.S. EPA Tier 4 Final/EU Stage IV/ Korea Tier 4 Final emission standards
  OR
  Cat C7.1 ACERT diesel engine to meet China Nonroad Stage III, India Bharat III, Eurasian Economic Union Stage IIIA UN ECE R96 Stage IIIA emission standards, equivalent to Tier 3/Stage IIIA (available mid-2018)
- Demand fan, reversing
- Air inlet, precleaner, turbine
- Transmission control, V-lever or joystick

OPERATOR ENVIRONMENT

- Standard cab with four halogen lights (two forward-facing roof mounted, two rear-facing integrated into air conditioning unit)
- Deluxe cab with sliding windows, Bluetooth® radio microphone, eight LED lights (four forward-facing, two sideways facing, two rear-facing integrated into air conditioning unit)
- Seat, cloth, air suspension, no side-to-side isolator
- Seat, cloth, air suspension, heated, side-to-side isolator
- Radio, AM/FM/AUX/USB/Bluetooth
- Easy access package (grab irons and steps)
- Cab air precleaner
- Front light guards
- Windshield protection

HYDRAULICS

- Hydraulic oil, biodegradable
- Hydraulic oil, EcoSafe (Steel Mill Arrangement)
- Hydraulics Packages
  - General Purpose
    - Two-valve, joystick
    - Three-valve, joystick
    - Two-valve, two levers
    - Three-valve, two levers
  - Multi-Purpose
    - Three-valve, joystick
    - Four-valve, joystick

FUEL SYSTEMS

- Fast fill fuel tank
- Fuel tank refueling pump

UNDERCARRIAGE

- Idler guard
- Idler guard, ship hold
- Full length track roller guard
- Full length track roller guard, heavy duty
- Track Groups (37 sections)
  - Heavy Duty Track Groups
    - 380 mm (15 in) double grouser
    - 380 mm (15 in) double grouser, sealed
    - 480 mm (19 in) double grouser
    - 480 mm (19 in) double grouser, center hole
    - 800 mm (31 in) double grouser
  - SystemOne™ Track Groups
    - 380 mm (15 in) double grouser
    - 480 mm (19 in) double grouser

BUCKETS

- General Purpose
  - 1.7 m^3 (2.2 yd^3), flush
  - 1.8 m^3 (2.4 yd^3)
  - 1.8 m^3 (2.4 yd^3), full edge
  - 1.8 m^3 (2.4 yd^3), heavy duty
  - 2.1 m^3 (2.7 yd^3), Performance Series
- Multi-Purpose
  - 1.6 m^3 (2.1 yd^3)
- Wide
  - 2.2 m^3 (2.9 yd^3), flush
- Landfill
  - 2.3 m^3 (3.0 yd^3)
  - 2.1 m^3 (2.7 yd^3), heavy duty

STARTERS, BATTERIES AND ALTERNATORS

- Cold weather package, 120V – two 12V batteries (1,400 CCA), 120V engine coolant heater, ether starting aid
- Antifreeze –50° C (–58° F)

OTHER ATTACHMENTS

- Counterweight, light, 230 kg (507 lb)
- Counterweight, additional, 220 kg (485 lb)
- Ripper, multi-shank
- Hitch, ripper
- Striker bars, rear
- Additional work tools
  - Fusion Quick Coupler
  - Blades
  - Forks
  - Material handling arms
  - Rakes
  - Trim blade or two-way dozer

ELECTRICAL

- Rotating beacon

MAINTENANCE AND RELATED ATTACHMENTS

- Fuel tank sediment pump
- High speed oil change system
- Service package, extended
  - Manual hydraulic system enabling cab tilt and lock at 30 degrees safely in the field
  - Windshield, sealed
  - Shovel holder (shovel not included)

TECHNOLOGY PRODUCTS

- Product Link – Satellite
- Product Link – Cellular
- Grade Control receiver mast

SPECIAL ARRANGEMENTS

- Waste Package, Heavy Duty
- Waste Package, Heavy Duty, Enhanced Cleaning
- Ship Hold Package, Heavy Duty
- Partial Steel Mill Package, Heavy Duty
- Low Ground Pressure Package, Heavy Duty

Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

POWER TRAIN

- Cat C7.1 ACERT diesel engine with twin turbocharger and engine mounted aftertreatment to meet U.S. EPA Tier 4 Final/EU Stage IV/Korea Tier 4 Final emission standards
  OR
  Cat C7.1 ACERT diesel engine to meet China Nonroad Stage III, India Bharat III, Eurasian Economic Union Stage IIIA UN ECE R96 Stage IIIA emission standards, equivalent to Tier 3/Stage IIIA
- Demand fan, reversing
- Air inlet, precleaner turbine
- Transmission control, V-lever or joystick

OPERATOR ENVIRONMENT

- Standard cab with four halogen lights (two forward-facing roof mounted, two rear-facing integrated into air conditioning unit)
- Deluxe cab with sliding windows, Bluetooth radio microphone, eight LED lights (four forward-facing, two sideways facing, two rear-facing integrated into air conditioning unit)
- Seat, cloth, air suspension, no side-to-side isolator
- Seat, cloth, air suspension, heated, side-to-side isolator
- Radio, AM/FM/AUX/USB/Bluetooth
- Easy access package (grab irons and steps)
- Cab air precleaner
- Lights, additional guarded
- Windshield protection

HYDRAULICS

- Hydraulic oil, biodegradable
- Hydraulic oil, EcoSafe (Steel Mill Arrangement)
- Hydraulics Packages
  - General Purpose
    - Two-valve, joystick
    - Three-valve, joystick
    - Two-valve, two levers
    - Three-valve, two levers
  - Multi-Purpose
    - Three-valve, joystick
    - Four-valve, joystick

FUEL SYSTEMS

- Fast fill fuel tank
- Fuel tank refueling pump

UNDERCARRIAGE

- Idler guard
- Idler guard, ship hold
- Final drive abrasion guard, two-piece
- Final drive abrasion guard, three-piece
- Full length track roller guard
- Track Groups (38 sections)
  - Heavy Duty Track Groups
    - 430 mm (17 in) triple grouser, sealed
    - 450 mm (18 in) double grouser, narrow
    - 450 mm (18 in) double grouser, center hole
    - 460 mm (18 in) single grouser, sealed and lubricated, center hole
    - 550 mm (22 in) double grouser
    - 550 mm (22 in) double grouser, center hole
    - 560 mm (22 in) single grouser, extreme service
    - 800 mm (31 in) double grouser
  - SystemOne Track Groups
    - 450 mm (18 in) double grouser, narrow
    - 550 mm (22 in) double grouser

BUCKETS

- General Purpose
  - 2.3 m³ (3.0 yd³), flush
  - 2.5 m³ (3.2 yd³)
  - 2.5 m³ (3.2 yd³), full edge
  - 2.5 m³ (3.2 yd³), heavy duty
  - 2.8 m³ (3.7 yd³), Performance Series
- Multi-Purpose
  - 2.0 m³ (2.6 yd³)
  - 2.0 m³ (2.6 yd³), heavy duty
  - 2.7 m³ (3.5 yd³), landfill, heavy duty
- Wide
  - 2.8 m³ (3.7 yd³)
- Landfill
  - 3.1 m³ (4.1 yd³), heavy duty

STARTERS, BATTERIES AND ALTERNATORS

- Engine coolant heater, 120V
- Engine coolant heater, 240V
- Cold weather package, 120V – two 12V batteries (1,400 CCA), 120V engine coolant heater, ether starting aid*
- Cold weather package, 240V – two 12V batteries (1,400 CCA), 240V engine coolant heater, ether starting aid*
- Antifreeze –50° C (–58° F)

OTHER ATTACHMENTS

- Counterweight, light, 325 kg (716 lb)
- Counterweight, additional, 305 kg (672 lb)
- Ripper, multi-shank
- Hitch, ripper
- Striker bars, rear
- Additional work tools
  - Fusion Quick Coupler
  - Blades
  - Forks
  - Material handling arms
  - Rakes

GUARDS

- Lift cylinder guards
- Tilt cylinder guards

ELECTRICAL

- Rotating beacon

MAINTENANCE AND RELATED ATTACHMENTS

- Fuel tank sediment pump
- High speed oil change system
- Service package, extended
  - Manual hydraulic system enabling cab tilt and lock at 30 degrees safely in the field
  - Windshield, sealed
  - Shovel holder (shovel not included)

TECHNOLOGY PRODUCTS

- Product Link – Satellite
- Product Link – Cellular
- Grade Control receiver mast

SPECIAL ARRANGEMENTS

- Waste Package, Heavy Duty
- Waste Package, Heavy Duty, Enhanced Cleaning
- Ship Hold Package, Heavy Duty
- Partial Steel Mill Package, Heavy Duty
- Low Ground Pressure Package, Heavy Duty

*Tier 4 Final/Stage IV machines only

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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(Global, except Japan)

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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