986K
Wheel Loader

*写真は海外仕様機でオプション品を含みます。

Engine	
Engine Model	Cat® C15 ACERT™
Emissions	Japan Small Volume Exempt (U.S. EPA Tier 4 Final/Stage IV)
Gross Power – ISO 14396	335 kW

Buckets	
Bucket Capacities	5-10.3 m³

Operating Specifications	
Rated Payload – Quarry Face	10 tonnes
Rated Payload – Loose Material (Standard)	12.7 tonnes
Rated Payload – Loose Material (High Lift)	11 tonnes
Operating Weight	44 818 kg

特定特殊自動車
軽油
少数特例2014年基準同等
適合車
環境省・経済産業省・国土交通省

オフロード法少数特例
２０１４年基準同等適合車

Lower your cost per ton with built-in durability.

Contents

Cat® Large Wheel Loaders are designed with durability built in, ensuring maximum availability through multiple life cycles. With optimized performance and simplified serviceability, our machines allow you to move more material efficiently and safely at a lower cost per ton.

The new 986K builds upon this legacy of durability, performance, safety, operator comfort, serviceability and sustainability.

Structures

Best built for the toughest conditions.

Lift Arms

Your key to maximum uptime and productivity is our field-proven lift arms.

- Excellent visibility to the bucket edges and work area through a Z-bar design.
- High load stresses are absorbed by the solid steel lift arms.
- Enhance strength in key pin areas through the use of one piece castings.

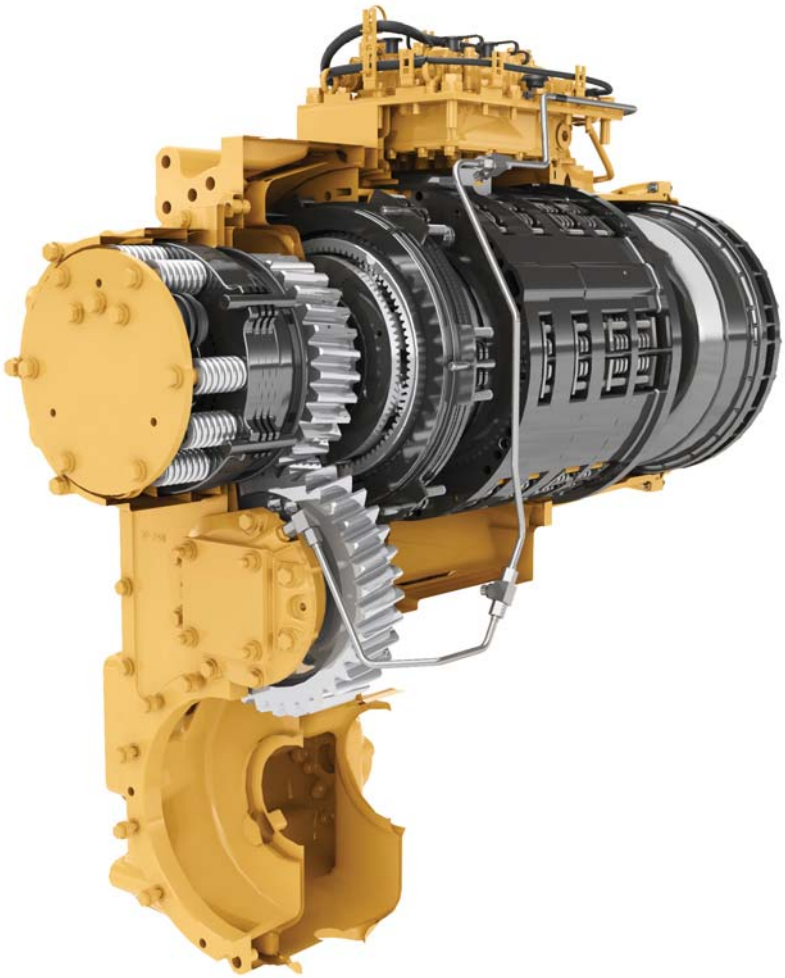
Robust Structures

Your bottom line is improved by highly durable structures that achieve multiple life cycles and withstand the toughest loading conditions.

- Full box-section rear frame resists torsional shock and twisting forces.
- Heavy-duty steering cylinder mounts efficiently transmit loads into the frame.
- Cast axle pivot mounting areas better disperse stress loads for increased structural integrity.

Front Linkage

To ensure long life and reliability, the linkage pin joints feature a greased pin design with optional auto lube system.



Cat® Planetary Powershift Transmission

Building your success begins with a best-in-class transmission designed specifically for mining applications.

- Consistent, smooth shifting and efficiency through integrated electronic controls.
- Heat treated gears and shafts extend component life and maximize reliability.
- Four forward and four reverse speeds to match your application.

Cat C15 ACERT Engine

Durability and efficiency at the heart of your 986K comes from the Cat® C15 ACERT engine. Optimum performance is built in to this 6 cylinder turbocharged engine.

- Meets Japan Small Volume Exemption, Tier 4 Final, and Stage IV emission standards.
- Mechanically Actuated Electronic Unit Injection (MEUI™) gives the C15 ACERT complete control over injection timing, duration and pressure.
- The Advanced Diesel Engine Management (ADEM™) A4 electronic control module manages fuel delivery to optimize performance and provide quick engine response.

Power Train

Move material more efficiently with improved power and control.

Transmission Neutralizer Pedal

- Extends service brake life by neutralizing transmission as service brakes are applied.
- Allows full power to implement system while the machine is stationary during truck loading.

(2) **Set Point for Neutralization** – Start of service brake pressure modulation

(3) **Full Pedal Travel** – Maximum brake pressure

Hydraulics

Productivity enabling you to move more and make more.

Load Sense Hydraulics

Increase efficiency through our Load Sense Hydraulic System. Load sense hydraulics maximize performance by directing hydraulic fluid flow through implement and steering system only when needed.

- Lowered fuel consumption.
- Consistent performance and efficiency with lower system heat.

Electro Hydraulic Controls

Operators increase productivity with our responsive implements feature.

- Operate comfortably through electronically controlled hydraulic cylinder stops.
- Handle easy-to-use soft detent controls.
- Conveniently set automatic implement kickouts from inside the cab.

Steering System

Confident loader operation starts with precise machine control enabled by the 986K's load sensing hydraulic steering system.

- Increase efficiency with our variable displacement piston pumps.
- Achieve precise positioning for easy loading in tight areas with 35 degrees of steering articulation.
- Enhance operator comfort with integrated steering and transmission control functions.

Filtration System

Benefit from extended performance and reliability of your hydraulic system with our advanced filtration system.

- Hydraulic oil cooler return filter.
- Pilot filter.
- Return and case drain screens inside hydraulic tank.
- Axle oil cooler screens if equipped.

Your operators can work more efficiently and stay comfortable with our customer-inspired cab features.

Entry and Exit

Enter and exit the cab easily and safely with these newly designed, ergonomic features.

- Fold up STIC™ steer/armrest.
- Reduced access stairway angles.
- Standard stairway lighting.

Cat Comfort Series III Seat

Enhance comfort and helps reduce operator fatigue with Cat Comfort Series III seat.

- Mid back design and extra thick, contoured cushions.
- Air suspension system.
- Easy-to-reach seat levers and controls for six way adjustments.
- Seat-mounted implement pod and STIC steer that moves with the seat.
- 76 mm wide retractable seat belt.
- Optional 4-point seat belt.

Control Panel

Ergonomic placement of switches and information display keep your operators comfortable all day every day.

- Large backlit membrane switches feature LED activation indicators.
- Switches feature ISO symbols for quick function identification.
- Two position rocker switch activates the electro hydraulic park brake.

Operator Station

Best-in-Class operator comfort and ergonomics.

Environment

Your operator's productivity is enhanced with our clean, comfortable cab environment.

- Experience reduced vibrations from isolated cab mounts and seat air suspension.
- Maintain desired cab temperature with automatic temperature controls.
- Pressurized cab with filtered air.
- Reduced operator sound levels.
- Convenient floor storage tray/lunch box.

Technology Solutions

Greater productivity through Integrated Electronic Systems.

Integrated electronics provide flexible levels of information to both the site and the operator. This integration creates a smart machine and more informed operator, maximizing the productivity of both.

Information Display

We have worked hard to help our customers and operators perform at their best through our newly upgraded touch screen information display.

- Intuitive operation and easy navigation with our enhanced user interface.
- Decrease service time by keeping operators informed about machine systems.

Cat Production Measurement

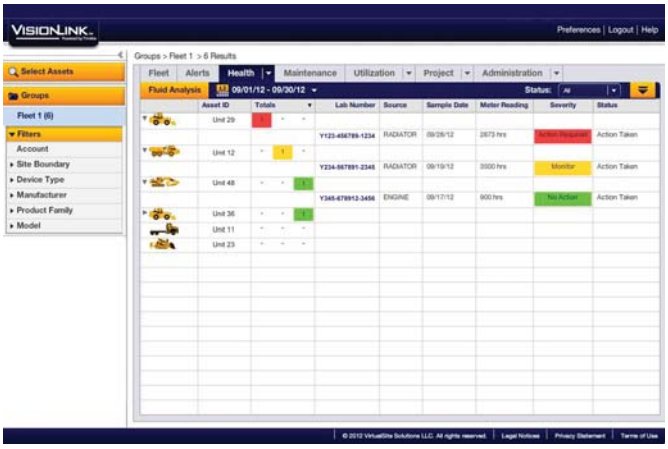
Brings payload weighing to the cab, enabling operators to weight loads on-the-go during loading operations. Loads are weighed as the bucket is raised during the lift cycle – eliminating the need to interrupt the load cycle, improving loading efficiency.

- Operators can view load weights on the information display.
- Instant feedback gives operators the confidence to work more effectively.
- Operators can track recorded weights and cycles using the display.

Cat Product Link™ Elite

Take the guesswork out of asset management with Product Link remote monitoring.

- Remote access to information through the easy-to-use VisionLink® interface.
- Maximize uptime by staying informed on machine systems and diagnostic codes.
- Track machine with utilization, fuel usage, and payload summaries.
- Stay up to date on machine location, service meter hours, and reporting status.



Safety

Making your safety our priority.

We are constantly improving our products in an effort to provide a safe work environment for the operator and those who work on your job site.

Machine Access

- Left and right hand stairs with 45 degree angle enhance safety for operators getting on and off the 986K.
- Continuous walkway with non-skid surfaces are designed into the service areas.
- Maintain three points of contact at all times through ground level or platform accessible service areas.

Visibility

- External handrail mounted rearview mirrors ensure enhanced visibility for safe operation.
- Cat Vision and optional Cat Detect with radar increase operator awareness around the machine.
- Halogen, HID, or LED lights provide excellent workspace visibility.
- Cab mounted LED warning beacons.

Operator Environment

- Reduced vibrations to the operator with isolated cab mounts and seat mounted implement and steering controls.
- Low interior sound levels.
- Pressurized cab with filtered air.
- Standard 76 mm seat belts on the operator seat.

Serviceability

Enabling high uptime by reducing your service time.

We can help you succeed by ensuring your 986K has design features to reduce your downtime.

- Longer service intervals on fluids and filters.
- Safe and convenient service with ground level or platform access and grouped service points.
- Centralized, ground level grease points for injecting grease into linkage pin joints.
- Centralized remote pressure taps for power train components.
- Ground electrical service center with Jump Start Receptacle, Emergency engine shutdown switch, Battery disconnect switch and Circuit breakers.

Customer Support

Your Cat dealers know how to keep your mining machines productive.

Legendary Cat Dealer Support

A valued partner, your Cat dealer is available whenever you need them.

- Preventive maintenance programs and guaranteed maintenance contracts.
- Best-in-class parts availability.
- Improve your efficiency with operator training.
- Genuine Cat Remanufactured parts.

Sustainability

Reducing impact to the environment.

Reducing Impact to the Environment

Sustainability is designed and built into our 986K's features.

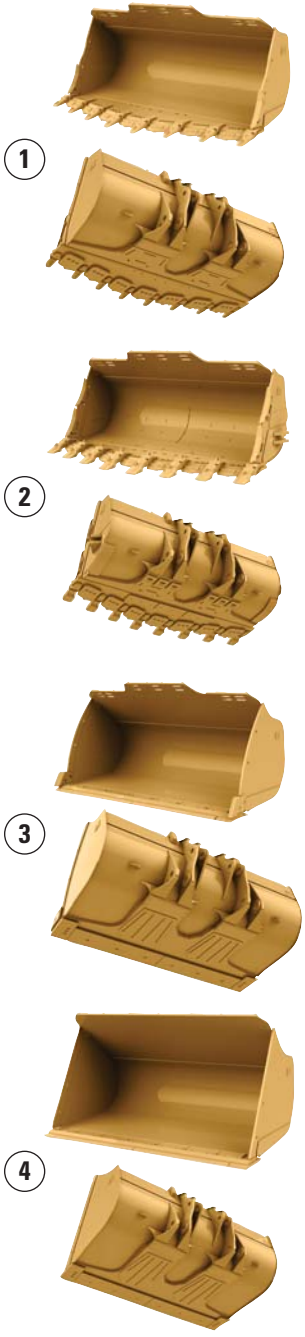
- Engine Idle Shutdown can help you save fuel by avoiding unnecessary idling.
- Reduce waste with our maintenance free or extended maintenance batteries.
- To assist with maximizing machine life, Caterpillar provides a number of sustainable options such as our Reman and Certified Rebuild programs. In these programs, reused or remanufactured components can deliver cost savings of 40 to 70 percent, which lowers operating cost while reducing impact to the environment.
- Caterpillar offers retrofit packages to bring new features to older machines, maximizing your resource. And, when you go through the Cat Certified Rebuild program, these retrofit kits are part of the rebuild process.

Bucket Ground Engaging Tools

Protect your investment.

Performance Series Buckets

Performance Series Buckets feature an optimized profile maximizing material retention and minimizing dig time, translating into significant productivity and fuel efficiency improvements. All 986K buckets are manufactured with the Performance Series design.



1 – Rock Buckets

Designed for use in bank or face loading of limestone and other unprocessed rock. Application also includes truck and hopper loading for a wide range of quarry materials. GET includes spade nose cutting edge with adapters, half arrow segments, bottom wear plates, and side bar protectors.

2 – Heavy Duty Rock Buckets

Designed for use in applications like face loading tightly compacted pit materials or handling materials of moderate abrasion and high impacts. GET are similar to the rock bucket with the addition of floor liner, half radius liners and bolt-on bottom edge wear plates. 20-series mechanically attached wear plates (MAWPS) are provided for additional wear protection and improved serviceability. Base edge end protection, ski plates, additional side wear plates, wings and an extra set of side bar protectors are also included.

3 – General Purpose Buckets

Designed for use primarily in stockpiling, re-handling and aggregate applications. GET includes a straight base edge with a bolt-on cutting edge system. Curved side bars are provided to aid in material retention.

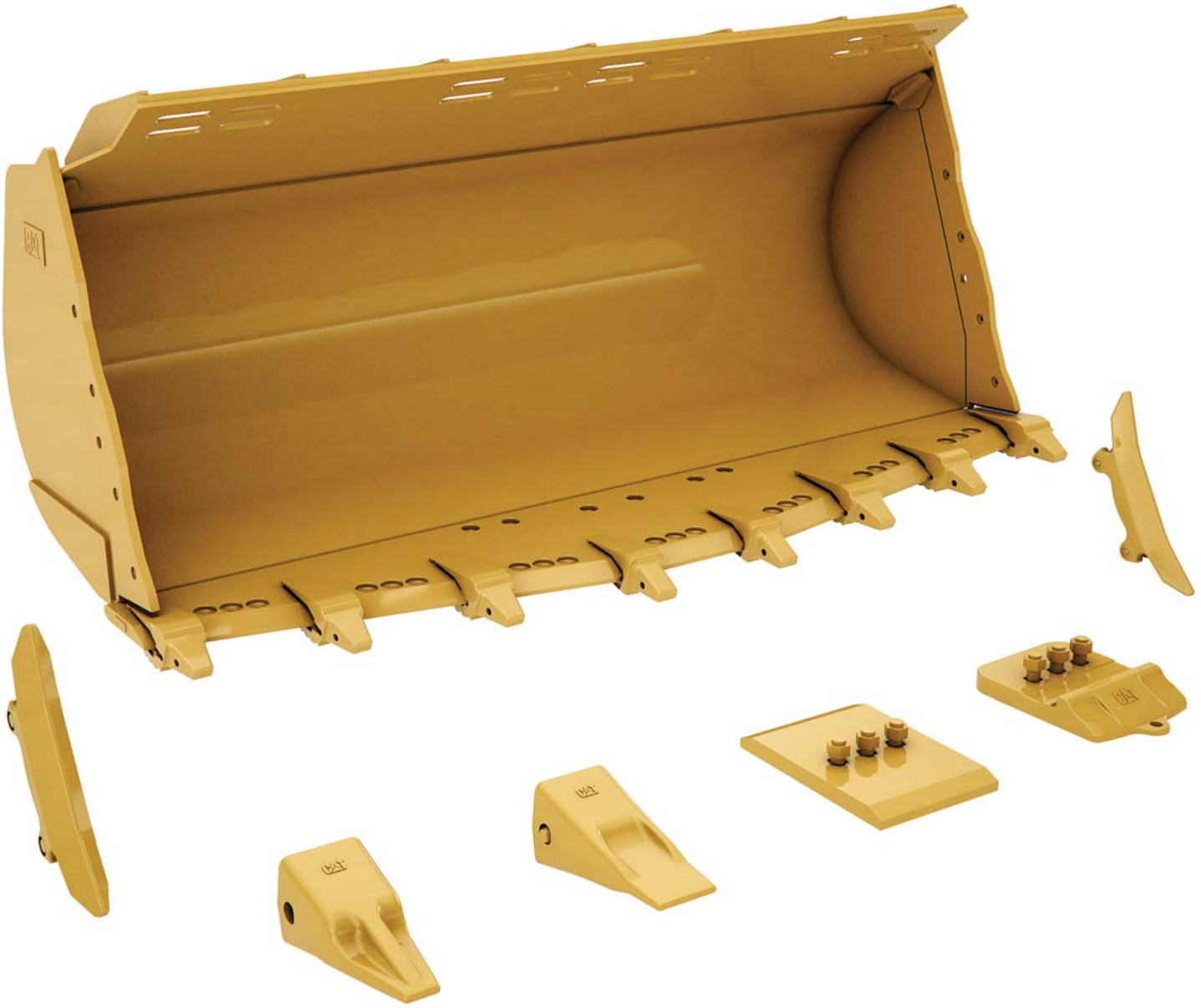
4 – Coal Buckets

Designed with a larger capacity for use in applications with light density and non-abrasive materials. GET includes a straight base edge with a bolt-on cutting edge system.

GET Options

Multiple GET options are available to customize your 986K to your application, such as:

- Sidebar protectors.
- General duty and penetration tips.
- Standard and half arrow segments.



Enhance the productivity of your loader and protect your investment in buckets with our Ground Engaging Tools (GET). Your knowledgeable Cat dealer will work with you to understand your application and needs for the GET that is best for you. For a full list of Cat GET please visit *http://www.cat.com/get.*

System Match Efficiency

Efficient loading/hauling system starts with a perfect match.

	735C	740C/745C	770G	772G	773E/773G
Standard Lift	3	4	4		
High Lift				5	6

Efficient Combination

For full truck payloads with minimum loading time, an efficient loading/hauling system starts with a perfect match. Cat wheel loaders are matched with Cat articulated and off-highway trucks to maximize volume of material moved at the lowest operating cost per ton.

The 986K equipped with the standard linkage is a perfect four pass match for the 770G (38.6 tonnes). The 986K equipped with a high lift linkage is capable of loading a 772G (47.7 tonnes) in 5 passes and a 773E or 773G (56 tonnes) in 6 passes.

Engine

Engine Model	Cat C15 ACERT
Emissions	Japan Small Volume Exemption, Tier 4 Final, Stage IV
Peak Power Speed	1,600 rpm
SAE J1995	340 kW
ISO 14396	335 kW
Rated Speed	2,000 rpm
EEC 80/1269	278 kW
ISO 9249	278 kW
SAE J1349	278 kW
Bore	137 mm
Stroke	171.5 mm
Displacement	15.2 L
Peak Torque @ 1,200 rpm – SAE J1995	2411 N·m
Torque Rise	16%

Operating Specifications

Operating Weight – Standard	44 355 kg
Operating Weight – High Lift	47 175 kg
Rated Payload – Standard (Quarry Face)	10 tonnes
Rated Payload – Standard (Loose Material)	12.7 tonnes
Rated Payload – High Lift (Quarry Face)	10 tonnes
Rated Payload – High Lift (Loose Material)	11 tonnes
Bucket Capacity Range	5-10.3 m^3
Cat Truck Match – Standard	770/735/740/745
Cat Truck Match – High Lift	772/773

Transmission

Transmission Type	Cat Planetary Power Shift
Forward 1	7.3 km/h
Forward 2	12.2 km/h
Direct Drive – Forward 2	12.7 km/h
Direct Drive – Forward 3	22 km/h
Direct Drive – Forward 4	39 km/h
Reverse 1	7.6 km/h
Reverse 2	13.6 km/h
Direct Drive – Reverse 2	14.1 km/h
Direct Drive – Reverse 3	25 km/h
Direct Drive – Reverse 4	40.8 km/h

Hydraulic System – Lift/Tilt

Lift/Tilt System – Circuit	Load Sense
Lift/Tilt System Pumps	2 × 110 cc variable displacement
Maximum Flow at 2,165 rpm	470 L/min
Relief Valve Setting – Lift/Tilt	27 900 kPa
Lift Cylinder – Bore	190 mm
Lift Cylinder – Stroke	1138 mm
Tilt Cylinder – Bore	170 mm
Tilt Cylinder – Stroke	722 mm

Hydraulic Cycle Time

Rackback	4.5 Seconds
Raise	9 Seconds
Dump	3.5 Seconds
Lower	5.2 Seconds
Lower Float Down	4.3 Seconds
Total Hydraulic Cycle Time	21.3 Seconds

Service Refill Capacities

Fuel Tank	535 L
Fuel Tank (Short Lift)	481 L
Cooling Systems	100 L
Crankcase	34 L
Diesel Exhaust Fluid Tank (for Japan 2014 [Tier 4 Final] only)	23 L
Transmission	75 L
Axle Oil	
Differentials and Final Drives – Front	186 L
Differentials and Final Drives – Rear	170 L
Hydraulic System Factory Fill	330 L
Hydraulic System (tank only)	130 L

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.8 kg of refrigerant which has a CO_2 equivalent of 2.574 metric tonnes.

Axles

Front	Fixed
Rear	Trunnion
Oscillation Angle	±12.5°
Oscillation Angle (chain arrangement)	±8.5°

Brakes

Brakes	ISO 3450:2011

Hydraulic System – Steering

ISO 5010:2007	
Steering System – Circuit	Load Sense
Steering System – Pump	Piston, variable displacement
Maximum Flow @ 1,400 rpm	200 L/min
Steering Cutoff Pressure	27 600 kPa
Total Steering Angle	70°

Operator Cab

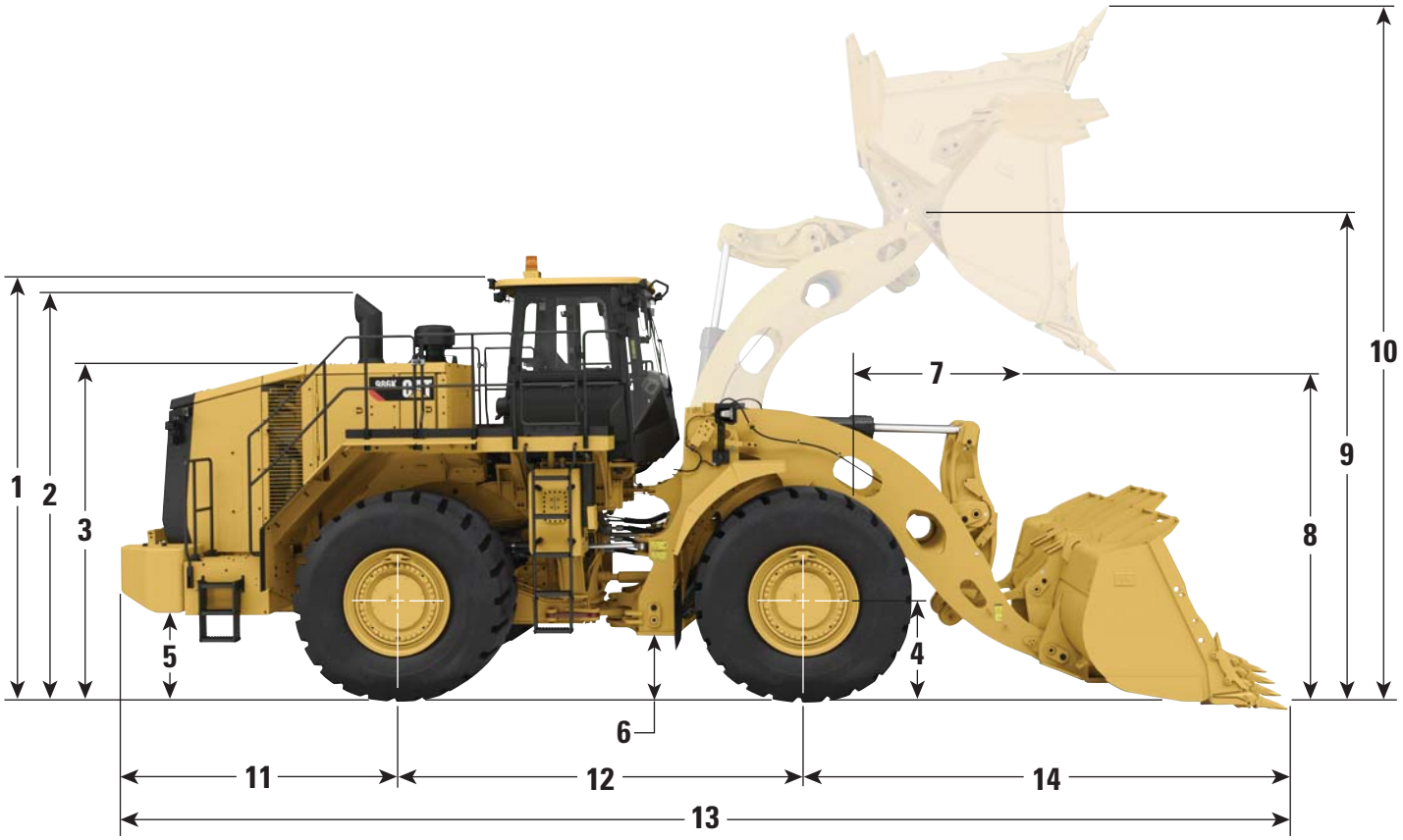
ROPS/FOPS	ROPS/FOPS meet ISO 3471:2008 (ROPS) and ISO 3449:2005 Level II (FOPS)

Sound Performance – Tier 4 Final

	Standard	Suppression
Operator Sound Level (ISO 6396)	72 dB(A)	70 dB(A)
Machine Sound Level (ISO 6395)	112 dB(A)	110 dB(A)

Dimensions

All dimensions are approximate.



		Standard Lift Linkage	High Lift Linkage
1	Ground to Top of ROPS	4100 mm	4100 mm
2	Ground to Top of Exhaust Stacks	4060 mm	4060 mm
3	Ground to Top of Hood	3270 mm	3270 mm
4	Ground to Center of Front Axle	978 mm	978 mm
5	Ground to Fuel Tank Clearance	691 mm	691 mm
6	Ground to Lower Hitch Clearance	459 mm	459 mm
7	Reach at Maximum Lift	2175 mm	2248 mm
8	Clearance at Maximum Lift	3079 mm	3538 mm
9	B-Pin Height at Maximum Lift	4912 mm	5371 mm
10	Maximum Overall Height, Bucket Raised	6817 mm	7276 mm
11	Rear Axle Center Line to Bumper	3132 mm	3132 mm
12	Wheel Base	3810 mm	3810 mm
13	Maximum Overall Length	11 143 mm	11 591 mm
14	Front Axle Centerline to Bucket Tip	4201 mm	4649 mm

Note: Specs are calculated with a 6.1 m^3 rock bucket.

Bucket Capacity/Material Density Selection Guide

Rock Buckets – Standard Lift/High Lift – 10 tonnes Rated Payload (Quarry Face)	
Material Density	**Bucket Volume**
kg/m³	**m³**
1632-1795	6.1
1740-1914	5.7
1865-2051	5.4

General Purpose Buckets – Standard Lift – 12.7 tonnes Rated Payload (Loose Material)*	
Material Density	**Bucket Volume**
kg/m³	**m³**
1512-1663	8.4
1671-1838	7.6
1984-2183	6.9

General Purpose Buckets – High Lift – 11 tonnes Rated Payload (Loose Material)	
Material Density	**Bucket Volume**
kg/m³	**m³**
1310-1440	8.4
1447-1592	7.6
1719-1891	6.9

*Requires aggregate handler attachment.

Note: Rated Payload is the material weight in the bucket that the loader is designed to carry, excluding the weight of the bucket, GET, and wear material. Rated Payloads are published at 100%, even though Caterpillar does allow 110%. These values are given in terms of mass. There is no consideration to loose density weights of various materials since they are so diverse.

Operating Specifications – Standard Lift

Bucket Type		Rock			HD Rock
Ground Engaging Tools		Teeth & Segments			Teeth & Segments
Cutting Edge Type		Spade			Spade
Bucket Part No.		511-5220	512-1130	498-1310	513-7430
Struck Capacity	m^3	4.4	4.8	5.1	4.4
Heaped Capacity (rated)	m^3	5.4	5.7	6.1	5.4
Width	mm	3812	3812	3812	3840
Dump Clearance at Full Lift and 45° Discharge (edge)	mm	3363	3317	3278	3346
Dump Clearance at Full Lift and 45° Discharge (with teeth)	mm	3164	3118	3079	3116
Reach at Lift and 45° Discharge (edge)	mm	1922	1968	2007	1969
Reach at Lift and 45° Discharge (with teeth)	mm	2090	2136	2175	2143
Reach with Lift Arms Horizontal and Bucket Level	mm	3820	3885	3940	3891
Digging Depth	mm	155	155	155	134
Overall Length	mm	11 023	11 088	11 143	11 077
Overall Height with Bucket at Full Raise	mm	6716	6771	6817	6716
Loader Clearance Turning Radius (SAE carry with teeth)	mm	8714	8731	8745	8752
Full Dump Angle	deg	–50	–50	–50	–50
Static Tipping Load Straight (no tire squash)	kg	28 760	28 557	28 400	27 744
Static Tipping Load Straight (with tire squash)	kg	27 211	26 999	26 834	26 204
Static Tipping Load – Full Turn (articulated 35°) (no tire squash)	kg	25 403	25 207	25 056	24 387
Static Tipping Load – Full Turn (articulated 35°) (with tire squash)	kg	23 110	22 902	22 742	22 106
Breakout Force	kN	336	323	313	325
Operating Weight	kg	44 605	44 732	44 818	45 505
Weight Distribution at SAE Carry (unloaded) – Front	kg	23 207	23 440	23 602	24 767
Weight Distribution at SAE Carry (unloaded) – Rear	kg	21 398	21 292	21 215	20 738
Weight Distribution at SAE Carry (loaded) – Front	kg	39 865	40 131	40 324	41 412
Weight Distribution at SAE Carry (loaded) – Rear	kg	14 740	14 600	14 494	14 093

986K Wheel Loader Specifications

Operating Specifications – Standard Lift

Bucket Type		General Purpose				Serrated	Coal
Ground Engaging Tools		BOCE					BOCE
Cutting Edge Type		Straight				Spade	Straight
Bucket Part No.		512-1180	513-7400	513-7420	477-1900	519-1465	513-7450
Struck Capacity	m^3	5.2	5.9	6.6	7.3	5.1	9.0
Heaped Capacity (rated)	m^3	6.1	6.9	7.7	8.4	6.1	10.3
Width	mm	3729	3729	3729	3729	3812	3729
Dump Clearance at Full Lift and 45° Discharge (edge)	mm	3488	3403	3311	3222	3328	3117
Dump Clearance at Full Lift and 45° Discharge (with teeth)	mm	—	—	—	—	3131	—
Reach at Lift and 45° Discharge (edge)	mm	1815	1900	1992	2081	2013	2161
Reach at Lift and 45° Discharge (with teeth)	mm	—	—	—	—	2210	—
Reach with Lift Arms Horizontal and Bucket Level	mm	3396	3516	3646	3772	3928	3903
Digging Depth	mm	143	143	143	143	115	160
Overall Length	mm	10 589	10 709	10 839	10 965	11 099	11 110
Overall Height with Bucket at Full Raise	mm	6860	6964	7078	7000	6779	7219
Loader Clearance Turning Radius (SAE carry with teeth)	mm	8663	8693	8727	8761	8769	8832
Full Dump Angle	deg	–50	–50	–50	–50	–50	–50
Static Tipping Load Straight (no tire squash)	kg	29 324	28 943	28 546	28 212	28 869	27 788
Static Tipping Load Straight (with tire squash)	kg	27 729	27 331	26 916	26 566	27 305	26 080
Static Tipping Load – Full Turn (articulated 35°) (no tire squash)	kg	25 962	25 594	25 211	24 890	25 535	24 465
Static Tipping Load – Full Turn (articulated 35°) (with tire squash)	kg	23 611	23 223	22 817	22 477	23 223	21 973
Breakout Force	kN	374	346	319	297	323	275
Operating Weight	kg	44 255	44 486	44 730	44 905	44 391	45 332
Weight Distribution at SAE Carry (unloaded) – Front	kg	22 496	22 913	23 357	23 692	22 811	24 503
Weight Distribution at SAE Carry (unloaded) – Rear	kg	21 759	21 573	21 373	21 212	21 579	20 829
Weight Distribution at SAE Carry (loaded) – Front	kg	39 169	39 653	40 168	40 571	39 642	41 621
Weight Distribution at SAE Carry (loaded) – Rear	kg	15 085	14 832	14 562	14 333	14 749	13 710

BOCE = Bolt-on Cutting Edge

Operating Specifications – Standard Lift Aggregate Package

Bucket Type		General Purpose				Coal
Ground Engaging Tools		BOCE				BOCE
Cutting Edge Type		Straight				Straight
Bucket Part No.		512-1180	513-7400	513-7420	477-1900	513-7450
Struck Capacity	m^3	5.2	5.9	6.6	7.3	9.0
Heaped Capacity (rated)	m^3	6.1	6.9	7.7	8.4	10.3
Width	mm	3729	3729	3729	3729	3729
Dump Clearance at Full Lift and 45° Discharge (edge)	mm	3488	3403	3311	3222	3117
Dump Clearance at Full Lift and 45° Discharge (with teeth)	mm	—	—	—	—	—
Reach at Lift and 45° Discharge (edge)	mm	1815	1900	1992	2081	2161
Reach at Lift and 45° Discharge (with teeth)	mm	—	—	—	—	—
Reach with Lift Arms Horizontal and Bucket Level	mm	3396	3516	3646	3772	3903
Digging Depth	mm	143	143	143	143	160
Overall Length	mm	10 589	10 709	10 839	10 965	11 110
Overall Height with Bucket at Full Raise	mm	6860	6964	7078	7000	7219
Loader Clearance Turning Radius (SAE carry with teeth)	mm	8663	8693	8727	8761	8832
Full Dump Angle	deg	–50	–50	–50	–50	–50
Static Tipping Load Straight (no tire squash)	kg	35 054	34 650	34 230	33 873	33 451
Static Tipping Load Straight (with tire squash)	kg	33 028	32 605	32 162	31 785	31 281
Static Tipping Load – Full Turn (articulated 35°) (no tire squash)	kg	30 959	30 571	30 168	29 827	29 404
Static Tipping Load – Full Turn (articulated 35°) (with tire squash)	kg	27 835	27 421	26 989	26 625	26 099
Breakout Force	kN	374	346	319	297	275
Operating Weight	kg	46 695	46 926	47 170	47 345	47 772
Weight Distribution at SAE Carry (unloaded) – Front	kg	20 746	21 163	21 607	21 942	22 752
Weight Distribution at SAE Carry (unloaded) – Rear	kg	25 949	25 763	25 563	25 402	25 019
Weight Distribution at SAE Carry (loaded) – Front	kg	41 929	42 431	42 965	43 387	44 501
Weight Distribution at SAE Carry (loaded) – Rear	kg	17 466	17 195	16 906	16 659	15 971

BOCE = Bolt-on Cutting Edge

Operating Specifications – High Lift

Bucket Type		Rock			HD Rock
Ground Engaging Tools		Teeth & Segments			Teeth & Segments
Cutting Edge Type		Spade			Spade
Bucket Part No.		511-5220	512-1130	498-1310	513-7430
Struck Capacity	m^3	4.4	4.8	5.1	4.4
Heaped Capacity (rated)	m^3	5.4	5.7	6.1	5.4
Width	mm	3812	3812	3812	3840
Dump Clearance at Full Lift and 45° Discharge (edge)	mm	3821	3775	3737	3805
Dump Clearance at Full Lift and 45° Discharge (with teeth)	mm	3623	3577	3538	3575
Reach at Lift and 45° Discharge (edge)	mm	1995	2041	2080	2042
Reach at Lift and 45° Discharge (with teeth)	mm	2163	2209	2248	2216
Reach with Lift Arms Horizontal and Bucket Level	mm	4184	4249	4304	4255
Digging Depth	mm	203	203	203	181
Overall Length	mm	11 471	11 536	11 591	11 528
Overall Height with Bucket at Full Raise	mm	7174	7230	7276	7174
Loader Clearance Turning Radius (SAE carry with teeth)	mm	8914	8932	8948	8952
Full Dump Angle	deg	–50	–50	–50	–50
Static Tipping Load Straight (no tire squash)	kg	29 417	29 221	29 070	28 415
Static Tipping Load Straight (with tire squash)	kg	27 919	27 714	27 555	26 924
Static Tipping Load – Full Turn (articulated 35°) (no tire squash)	kg	25 805	25 616	25 471	24 803
Static Tipping Load – Full Turn (articulated 35°) (with tire squash)	kg	23 428	23 225	23 070	22 436
Breakout Force	kN	336	323	312	324
Operating Weight	kg	47 425	47 552	47 638	48 325
Weight Distribution at SAE Carry (unloaded) – Front	kg	22 883	23 132	23 304	24 558
Weight Distribution at SAE Carry (unloaded) – Rear	kg	24 541	24 420	24 333	23 767
Weight Distribution at SAE Carry (loaded) – Front	kg	40 772	41 053	41 255	42 438
Weight Distribution at SAE Carry (loaded) – Rear	kg	16 653	16 498	16 382	15 887

Operating Specifications – High Lift

Bucket Type		General Purpose				Serrated	Coal
Ground Engaging Tools		BOCE					BOCE
Cutting Edge Type		Straight				Spade	Straight
Bucket Part No.		512-1180	513-7400	513-7420	477-1900	519-1465	513-7450
Struck Capacity	m^3	5.2	5.9	6.6	7.3	5.1	9.0
Heaped Capacity (rated)	m^3	6.1	6.9	7.7	8.4	6.1	10.3
Width	mm	3729	3729	3729	3729	3812	3729
Dump Clearance at Full Lift and 45° Discharge (edge)	mm	3946	3862	3770	3680	3787	3575
Dump Clearance at Full Lift and 45° Discharge (with teeth)	mm	—	—	—	—	3590	—
Reach at Lift and 45° Discharge (edge)	mm	1888	1972	2064	2154	2086	2234
Reach at Lift and 45° Discharge (with teeth)	mm	—	—	—	—	2283	—
Reach with Lift Arms Horizontal and Bucket Level	mm	3760	3880	4010	4136	4292	4267
Digging Depth	mm	190	190	190	190	163	208
Overall Length	mm	11 039	11 159	11 289	11 415	11 552	11 558
Overall Height with Bucket at Full Raise	mm	7319	7423	7536	7459	7237	7677
Loader Clearance Turning Radius (SAE carry with teeth)	mm	8861	8894	8931	8967	8967	9038
Full Dump Angle	deg	–50	–50	–50	–50	–50	–50
Static Tipping Load Straight (no tire squash)	kg	29 955	29 587	29 204	28 884	29 533	28 457
Static Tipping Load Straight (with tire squash)	kg	28 416	28 027	27 623	27 283	28 019	26 790
Static Tipping Load – Full Turn (articulated 35°) (no tire squash)	kg	26 339	25 984	25 614	25 307	25 943	24 879
Static Tipping Load – Full Turn (articulated 35°) (with tire squash)	kg	23 905	23 528	23 134	22 807	23 544	22 295
Breakout Force	kN	374	346	319	297	323	275
Operating Weight	kg	47 075	47 306	47 550	47 725	47 211	48 152
Weight Distribution at SAE Carry (unloaded) – Front	kg	22 131	22 576	23 049	23 406	22 457	24 251
Weight Distribution at SAE Carry (unloaded) – Rear	kg	24 944	24 730	24 500	24 319	24 754	23 901
Weight Distribution at SAE Carry (loaded) – Front	kg	40 035	40 546	41 088	41 512	40 498	42 557
Weight Distribution at SAE Carry (loaded) – Rear	kg	17 039	16 760	16 461	16 213	16 713	15 595

BOCE = Bolt-on Cutting Edge

986K Standard Equipment

Standard Equipment

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

ELECTRICAL

- Alarm, back-up
- Alternator, single 145 amp
- Batteries, dry
- Converter, 10/15 amp, 24V to 12V
- Lighting system (halogen, work lights, access and service platform lighting)
- Starting and charging system, 24V
- Starter emergency start receptacle

OPERATOR ENVIRONMENT

- Graphical Information Display, displays real time operating information, performs calibrations and customizes operator settings
- Air conditioner
- Rear vision camera system
- Cab, sound suppressed and pressurized, integrated rollover protective structure (ROPS/FOPS) radio ready for entertainment, includes antenna, speakers and converter (12-volt 5-amp) and power port
- Controls, lift and tilt function
- Heater, defroster
- Horn, electric
- Instrumentation, gauges
  - Coolant temperature
  - Fuel level
  - DEF level
  - Hydraulic oil temperature
  - Power train oil temperature
- Light, cab, dome
- Lunchbox, beverage holders
- Mirrors, rearview (externally mounted)
- Seat, Cat Comfort (cloth), air suspension, six-way adjustable
- Seat belt minder
- Seat belt, retractable, 76 mm wide
- STIC Control System
- UV glass
- Transmission gear indicator
- Wet-Arm wipers/washers (front and rear)
  - Intermittent front and rear wipers
- Lights, directional

POWER TRAIN

- Brakes, oil-cooled, multi-disc, service/ secondary
- Case drain screens
- Crankcase guard
- Electro hydraulic parking brake
- Engine, C15 ACERT MEUI diesel, turbocharged/aftercooled
- Ground level engine shutoff
- Turbine precleaner, engine air intake
- Starting aid, ether, automatic
- Torque converter, Neutralizer
- Transmission, planetary powershift, 4F/3R electronic control
- Manual switch and automatic fuel priming
- Cat Production Measurement ready

OTHER

- Automatic bucket lift kickout/positioner
- Hydraulically driven demand fan
- Couplings, Cat O-ring face seals
- Doors, service access (locking)
- Ecology drains for engine, radiator, hydraulic tank
- Fuel tank, 535 L
- Hitch, drawbar with pin
- Hoses, Cat XT™
- Hydraulic, steering and brake filtration/ screening system
- Cat Clean Emission Module
- Oil sampling valves
- Premixed 50% concentration of extended life coolant with freeze protection to –34° C
- Rear access to cab and service platform
- Steering, load sensing
- Toe kicks
- Vandalism protection caplocks

Optional Equipment

With approximate changes in operating weights, optional equipment may vary. Consult your Cat dealer for specifics.

POWER TRAIN

- –50° C antifreeze
- Engine oil change system, high speed, Wiggins
- Engine block heater 120V or 240V
- High ambient cooling – software
- Cat Production Measurement

MISCELLANEOUS ATTACHMENTS

- Front and rear roading fenders
- Fast fill fuel system (Shaw-Aero)
- Cold Weather Starting (extra two batteries)
- Aggregate Handler

OPERATOR ENVIRONMENT

- Cab powered precleaner
- Cat Detect Vision
- AM/FM/CD/MP3 radio
- Satellite Sirius radio with Bluetooth
- LED warning strobe
- Window pull down visor
- Handrail mounted mirrors

986K Mandatory Attachments

Mandatory Attachments

Select one from each group. Mandatory and optional equipment may vary. Consult your Cat dealer for specifics.

LINKAGE

- Standard with two valves
- Standard with three valves
- High Lift with two valves
- High Lift with three valves
- Autolube
- Manual grease pins

ELECTRICAL

- No Product Link
- Product Link (Satellite)
- Product Link (Cellular)

STEERING

- Standard steering
- Secondary steering

POWER TRAIN

- Axle oil cooler
- Standard axles
- Standard fuel lines
- Heated fuel lines
- No engine brake
- Engine brake

LIGHTING

- Standard lighting
- LED lighting

OPERATOR ENVIRONMENT

- No suppression arrangement
- Sound suppression
- Standard seat
- Heated and ventilated seat
- Standard seat belt
- 4 point seat belt
- Standard cab glass
- Rubber mounted cab glass
- Standard mirror
- Rear vision display
- Rear vision display with Cat Detect (Object Detection)

HYDRAULICS

- Ride control
- No ride control
- Standard hydraulic oil
- Fire resistant (EcoSafe) hydraulic oil
- Cold weather hydraulic oil

Notes

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

AEHQ8035 (05-2017)

Based on the Labor, Safety and Health Laws in Japan, employer of small construction equipment are required to provide specific training for all operators on machines with ship weight less than 3 metric ton. For machines greater than 3 metric ton, operator needs to obtain operator license certification from a Government approved registered training school.