

Cat[®] 980K

WHEEL LOADER

PRELIMINARY

FEATURES:

- Performance Series Buckets With standard Performance Series
 Buckets, operators benefit from reduced dig times and better material
 retention; ultimately translating into significant productivity and fuel
 efficiency improvements.
- Operator Environment The new four post ROPS cab provides enhanced comfort, visibility, and productivity resulting in a more efficient operator. New features include an ergonomic electrohydraulic (EH) joystick steering system with force feedback (speed sensitive), automatic climate control, viscous mounts to reduce noise and vibration levels, post mounted membrane switches, and a curved windshield giving the operator a panoramic view.
- Cat® C13 ACERT™ Engine The innovative Cat C13 ACERT engine is optimized for maximum fuel efficiency and increased power density while meeting all Tier 4 Interim and Stage IIIB emissions requirements.
- Lockup Torque Converter The lockup torque converter on the 980K significantly enhances productivity and fuel efficiency while performing load and carry applications, especially on grades. The lockup clutch eliminates torque converter losses, ultimately resulting in lower fuel consumption while achieving higher travel speeds up a grade.
- Powershift Transmission The K Series™ transmission incorporates a new shifting strategy that delivers smoother shifts and faster acceleration.
- Fuel Efficiency The 980K wheel loader has been integrated as a system; from the linkage and work tool carrying the payload, to the engine, transmission and torque converter moving the machine, the system has been optimized to achieve the lowest cost per ton.
- Customer Support Cat dealers are with customers every step of the way to provide unsurpassed worldwide parts support, trained technicians, training assistance, financing options, and customer support agreements.

Specifications

Engine

Cat® C13 ACE	RT™
303 kW	406 hp
274 kW	369 hp
274 kW	369 hp
2089 N·m	1,541 ft-lb
1959 N·m	1,445 ft-lb
130 mm	5.1 in
157 mm	6.2 in
12.5 L	762.8 in ³
	303 kW 274 kW 274 kW 2089 N·m 1959 N·m 130 mm 157 mm

 Cat engine with ACERT™ Technology – meets EPA Tier 4 Interim/ EU Stage IIIB requirements.

Weights

Operating Weight	30 319 kg	66,823 lb

• For 5.3 m³ (6.9 yd³) general purpose buckets with bolt-on cutting edges.

Buckets

Bucket Capacities	4.00 m³- 12.20 m³	5.25 yd³- 16.00 yd³

Operating Specifications

Static Tipping Load Full 37° Turn –		
ISO 14397-1*	18 805 kg	41,447 lb
Static Tipping Load Full 37° Turn –		
Rigid Tires**	19 967 kg	44,008 lb
Breakout Force	238 kN	53,475 lb

- For 5.3 m³ (6.9 yd³) general purpose buckets with bolt-on cutting edges.
- *Full compliance to ISO 14397-1 (2007) Section 1 thru 6, which requires 2% verification between calculations and testing.
- ** Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

Transmission

	Standard To	orque Converter	Lockup Tor	que Converter
Forward 1	6.6 km/h	4.1 mph	6.6 km/h	4.1 mph
Forward 2	11.7 km/h	7.3 mph	12.3 km/h	7.7 mph
Forward 3	20.5 km/h	12.9 mph	21.8 km/h	13.6 mph
Forward 4	35.8 km/h	22.4 mph	38.8 km/h	24.1 mph
Reverse 1	7.5 km/h	4.6 mph	7.5 km/h	4.7 mph
Reverse 2	13.3 km/h	8.3 mph	14.1 km/h	8.8 mph
Reverse 3	23.3 km/h	14.8 mph	24.9 km/h	15.5 mph
Reverse 4	40.8 km/h	26.3 mph	44.3 km/h	27.5 mph

 Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 887 mm (35 in) roll radius.



980K Wheel Loader

Hydraulic System

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Steering System Pump Type	Piston	
Implement System – Maximum Pump Output (2,200 rpm)	460 L/min	121.5 gal/min
Implement System – Maximum Operating Pressure	31 000 kPa	4,496 psi
Implement System – Optional 3rd Function Maximum Flow	300 L/min	79.3 gal/min
Implement System – Optional 3rd Function Maximum Pressure	20 700 kPa	3,000 psi
Hydraulic Cycle Time – Raise from Carry Position	6.4 Seconds	
Hydraulic Cycle Time – Dump at Maximum Raise	1.7 Seconds	
Hydraulic Cycle Time — Lower, Empty, Float Down	3.3 Seconds	
Hydraulic Cycle Time – Total	11.4 Seconds	3
Cycle time with rated payload.		

Brakes

Brakes	Meet OSHA, SAE J1473
Diakes	•
	OCT90 and ISO 3450-1985
	required standards

Axles

Front	Fixed	
Rear	Oscillating ±1	3 degrees
Maximum Single-Wheel Rise and Fall	548 mm	21.6 in

Tires

- Choose from a variety of tires to match your application.
- Choices include:
 29.5R25 VMT BS L3 Radial
 29.5-25 SRG LD FS E3/L3 Bias
 29.5R25 XHA2 MX L3 Radial
 29.5R25 XLD D1 MX L4 Radial
 29.5R25 VSNT BS L4 Radial
 29.6-25 SDT LD FS L5 Bias
 29.5R25 VSDL BS L5 Radial
 29.5R25 XLDD2 MX L5 Radial
 29.5R25 XLDD2 MX L5 Radial
 29.5R25 X MINE D2 MX L5 Radial
- NOTE: In certain applications (such as load and carry), the loader's
 productive capabilities might exceed the tires' tonnes-km/h (ton-mph)
 capabilities. Caterpillar recommends that you consult a tire supplier to
 evaluate all conditions before selecting a tire model. Other special tires
 are available on request.

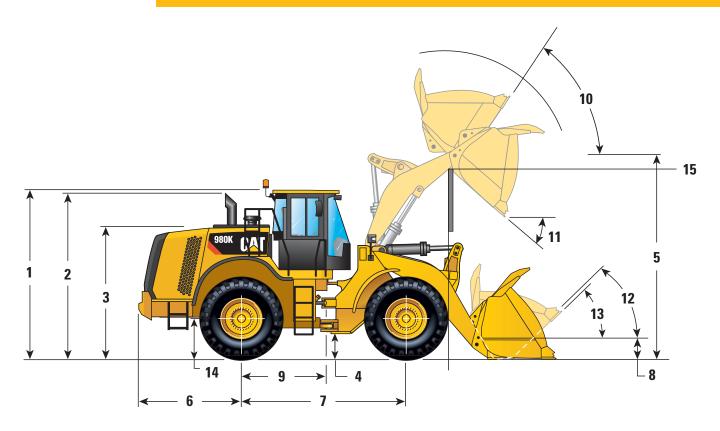
Cab

ROPS/FOPS	Meets SAE and
	ISO standards

- Cat cab with a four post integrated Rollover Protective Structure (ROPS) are standard in North America and Europe.
- ROPS meets SAE J1040 APR88 and ISO 3471:1994 criteria.
- Falling Objects Protective Structure (FOPS) meets SAE J231 JAN81 and ISO:1992 Level II criteria.
- The sound values indicated below are for specific operating conditions only. Machine and operator sound levels will vary at different engine and/or cooling fan speeds. Hearing protection may be needed when the machine is operated with a cabin that is not properly maintained, or when the doors and/or windows are open for extended periods or in a noisy environment.
- The operator sound pressure level for a standard machine configuration, measured according to the procedures specified in ISO 6396:2008, is 73 dB(A) with the cooling fan speed set at maximum value.
- The machine sound power level for a standard machine configuration, measured according to the procedures specified in ISO 6395:2008, is 112 dB(A) with the cooling fan speed set at maximum value.
- The machine sound pressure level for a standard machine configuration, measured according to the procedures specified in SAE J88:2006, is 77 dB(A). The measurement was conducted under the following conditions: distance of 15 m (49.2 ft), moving forward in an intermediate gear ratio, static hydraulic cycle (with no payload) and with the cooling fan speed set at maximum value.
- The operator sound pressure level for a machine installed with a Low Sound package, measured according to the procedures specified in ISO 6396:2008, is 72 dB(A) with the cooling fan speed set at maximum value.
- The machine sound power level for a machine installed with a Low Sound package, measured according to the procedures specified in ISO 6396:2008, is 109 dB(A) with the cooling fan speed set at maximum value.

Service Refill Capacities

Fuel Tank – Standard	447 L	118.1 gal
Cooling System	70 L	18.5 gal
Crankcase	37 L	9.8 gal
Transmission	73 L	19.3 gal
Differentials and Final Drives – Front	84 L	22.2 gal
Differentials and Final Drives – Rear	84 L	22.2 gal
Hydraulic Tank	280 L	74.0 gal



Dimensions (All dimensions are approximate and based on L3 Michelin XHA2 tires.)

1 Height to Top of ROPS	3547 mm	11'7"
2 Height to Top of Exhaust Pipe	3518 mm	11'6"
3 Height to Top of Hood	2828 mm	9'3"
4 Ground Clearance with 29.5R25 (See Tire Option Chart for Other Tires)	475 mm	1'6"
5 B-Pin Height – Standard	4508 mm	14'9"
B-Pin Height – High Lift	4729 mm	15'6"
6 Center Line of Rear Axle to Edge of Counterweight	2510 mm	8'2"
7 Wheelbase	3700 mm	12'1"
8 B-Pin Height @ Carry – Standard	642 mm	2'1"
9 Center Line of Rear Axle to Hitch	1725 mm	5'7"
10 Rack Back @ Maximum Lift	61 degrees	
11 Dump Angle @ Maximum Lift	52 degrees	
12 Rack Back @ Carry	49 degrees	
13 Rack Back @ Ground	41 degrees	
14 Height to Center Line of Axle	798 mm	2'7"
15 Lift Arm Clearance — Standard Lift	3764 mm	12'4"
Lift Arm Clearance – High Lift	4010 mm	13'3"



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AEHQ6252 (03-11)

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