Product Specifications For 986



Engine

Engine Model	C15 Cat®
Peak Power Speed	1600
Peak Power Speed - Gross - SAE J1995	456 hp
Engine Power - ISO 14396	449 hp
Net Power - SAE J1349	373 hp
Rated Speed	2000
Rated Speed - 2,000 rpm - EEC 80/1269	373 hp
Rated Speed - 2,000 rpm - EEC 80/1269 (DIN)	378 hp
Rated Speed - 2,000 rpm - ISO 9249	373 hp
Rated Speed - 2,000 rpm - ISO 9249 (DIN)	378 hp
Bore	5.4 in
Stroke	6.75 in
Displacement	927 in²
Peak Torque - 1,200 rpm - SAE J1995	1778 lb/ft
Torque Rise	16%

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Ε	m	IS	S	0	ns	

U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards and Brazil MAR-1 emission standards, equivalent to China Nonroad Stage III, U.S. EPA Tier 3 and EU Stage IIIA

Transmission

Transmission Type	Cat planetary power shift
Forward - 1	5 mile/h
Forward - 2	8 mile/h
Direct Drive - Forward 2	8 mile/h
Direct Drive - Forward 3	14 mile/h
Direct Drive - Forward 4	24 mile/h
Reverse - 1	5 mile/h
Reverse - 2	8 mile/h
Direct Drive - Reverse 2	9 mile/h
Direct Drive - Reverse 3	16 mile/h
Direct Drive - Reverse 4	25.4 mile/h

Operating Specifications

Operating Weight - Standard	97785 lb
Operating Weight - High Lift	104005 lb
Rated Payload - Standard (Quarry Face)	11 ton (US)
Rated Payload - Loose Material (Standard)	14 ton (US)
Rated Payload - High Lift (Quarry Face)	11 ton (US)

Rated Payload - Loose Material (High Lift)	12.1 ton (US)
Bucket Capacity Range	5-10,3 m³ (6,5-13,5 yd.³)
Cat Truck Match - Standard	770/735/740/745
Cat Truck Match - High Lift	772/773

Hydraulic System - Lift/Tilt

Lift/Tilt System - Circuit	Load Sense
Lift/Tilt System - Pump	2 × 110 cc variable displacement
Maximum Flow at 2,165 rpm	123 gal/min
Relief Valve Setting - Lift/Tilt	4050 psi
Lift Cylinder - Bore	7.5 in
Lift Cylinder - Stroke	45 in
Tilt Cylinder - Bore	6.7 in
Tilt Cylinder - Stroke	28.4 in

Hydraulic Cycle Times

Rack Back	4.5 s
Raise	9 s
Dump	3.5 s
Lower	5.2 s
Lower Float Down	4.3 s
Total Hydraulic Cycle Time	21.3 s

Hydraulic System - Steering

Steering System - Circuit	Load Sense
Steering System - Pump	Piston, variable displacement
Maximum Flow at 1,400 rpm	52 gal/min
Steering Cut Off Pressure	4000 psi
Total Steering Angle	70°

Air Conditioning System

Air Conditioning 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 CO2 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

Operator's Cab

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

Service Refill Capacities

Fuel Tank	141 gal (US)

Fuel Tank - Short Lift 127 gal (US)

26 gal (US)
9 gal (US)
6 gal (US)
20 gal (US)
49 gal (US)
45 gal (US)
87 gal (US)
34 gal (US)

Sound Performance - Standard

Operator Sound Level (ISO 6396)	72 dB(A)
Machine Sound Level (ISO 6395)	112 dB(A)
Note	The operator sound pressure level was measured according to the test procedures and conditions specified in ISO 6396:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed. Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment. The machine sound power level was measured according to the test procedures and conditions specified in ISO 6395:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.

Sound Performance - Suppression

Operator Sound Level (ISO 6396)	72 dB(A)
Machine Sound Level (ISO 6395)	110 dB(A)

Note

The operator sound pressure level was measured according to the test procedures and conditions specified in ISO 6396:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed. Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.

The machine sound power level was measured according to the test procedures and conditions specified in ISO 6395:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.

Dimensions (Approximate) - Standard Lift Linkage

Ground to Top of ROPS	13.5 ft
Ground to Top of Exhaust Stacks	13.3 ft
Ground to Top of Hood	10.7 ft
Ground to Center of Front Axle	3.2 ft
Ground to Fuel Tank Clearance	2.3 ft
Ground to Lower Hitch Clearance	1.5 ft
Reach - Maximum Lift	7.1 ft
Clearance at Maximum Lift	10.1 ft
B-Pin Height - Maximum Lift	16.1 ft
Maximum Overall Height - Bucket Raised	22.4 ft
Rear Axle - Centerline to Bumper	10.3 ft
Wheel Base	12.5 ft
Maximum Overall Length	36.6 ft
Front Axle Centerline to Bucket Tip	13.8 ft

Dimensions (Approximate) - High Lift Linkage

Ground to Top of ROPS	13.5 ft
Ground to Top of Exhaust Stacks	13.3 ft
Ground to Top of Hood	10.7 ft
Ground to Center of Front Axle	3.2 ft
Ground to Fuel Tank Clearance	2.3 ft
Ground to Lower Hitch Clearance	1.5 ft
Reach - Maximum Lift	7.4 ft
Clearance at Maximum Lift	11.6 ft
B-Pin Height - Maximum Lift	17.6 ft
Maximum Overall Height - Bucket Raised	23.9 ft
Rear Axle - Centerline to Bumper	10.3 ft
Wheel Base	12.5 ft
Maximum Overall Length	38 ft
Front Axle Centerline to Bucket Tip	15.3 ft
Note	All dimensions are approximate. Specs are calculated with a 6.1 m³ (8 yd³) rock bucket.

Dimensions (Approximate) - Quick Coupler And 6.1 M³ (8.0 Yd³) Bucket

Ground to Top of ROPS	13.5 ft			
Ground to Top of Exhaust Stacks	13.3 ft			
Ground to Top of Hood	10.7 ft			
Ground to Center of Rear Axle	3.2 ft			
Ground to Fuel Tank Clearance	2.3 ft			
Ground to Lower Hitch Clearance	1.5 ft			
Reach at Maximum Lift	8 ft			
Clearance at Maximum Lift	10.7 ft			
B-Pin Height at Maximum Lift	15 ft			
Maximum Overall Height, Bucket Raised	20.9 ft			
Rear Axle Center Line to Bumper	10.3 ft			
Wheel Base	12.5 ft			
Maximum Overall Length	35 ft			
Front Axle Centerline to Bucket Tip	12.2 ft			
Dimensions (Annroximate) - Quick Counter And Fork				

Dimensions (Approximate) - Quick Coupler And Fork

Ground to Top of ROPS	13.5 ft
Ground to Top of Exhaust Stacks	13.3 ft
Ground to Top of Hood	10.7 ft
Ground to Center of Rear Axle	3.2 ft

Ground to Fuel Tank Clearance	2.3 ft
Ground to Lower Hitch Clearance	1.5 ft
B-Pin Height at Maximum Lift	15 ft
Rear Axle Center Line to Bumper	10.3 ft
Wheel Base	12.5 ft
Maximum Overall Length	35.4 ft
Front Axle Centerline to Bucket Tip	12.6 ft

986 Standard Equipment

NOTE

Standard and optional 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 (3 in) 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

Cat Production Measurement ready

Brakes, oil-cooled, multi-disc, service/secondary

Case drain screens

Crankcase guard

Electro hydraulic parking brake

Engine, C15 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

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 (141 gal)

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 (-29° F)

Rear access to cab and service platform

Steering, load sensing
Toe kicks
Vandalism protection caplocks

986 Optional Equipment

NOTE

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

POWER TRAIN

–50° C (–58° F) 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)

OTHER OPTIONAL CONFIGURATIONS

Aggregate Handler Block Handler

OPERATOR ENVIRONMENT

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