

966H

Wheel Loader



Engine

Engine Model	Cat® C11 ACERT™	
Gross Power – SAE J1995	213 kW	286 hp
Net Power – ISO 9249	195 kW	262 hp
Caterpillar engine with ACERT™ Technology – EPA Tier III, EU Stage III Compliant		

Buckets

Bucket Capacities	3.4-4.2 m³	4.5-5.5 yd³
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Weights

Operating Weight	23 698 kg	52,254 lb
For 4.25 m³ (5.5 yd³) general purpose bucket with BOCE		

Operating Specifications

Static Tipping Load, Full Turn	15 474 kg	34,120 lb
For 4.25 m³ (5.5 yd³) general purpose bucket with BOCE		

Engine

Engine Model	Cat® C11 ACERT™	
Gross Power – SAE J1995	213 kW	286 hp
Net Power – ISO 9249	195 kW	262 hp
Net Power – SAE J1349	193 kW	259 hp
Net Power – 80/1269/EEC	195 kW	262 hp
Peak Torque (Net) @ 1,400 rpm	1215 N•m	896 ft-lb
Bore	130 mm	5.12 in
Stroke	140 mm	5.51 in
Displacement	11.1 L	677 in³

- Caterpillar engine with ACERT™ Technology – EPA Tier III, EU Stage III Compliant
- These ratings apply at 1,800 rpm when tested under the specified standard conditions.
- Rating for net power advertised based on power available when the engine is equipped with alternator, air cleaner, muffler and on-demand hydraulic fan drive at maximum fan speed.

Weights

Operating Weight	23 698 kg	52,254 lb
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- For 4.25 m³ (5.5 yd³) general purpose bucket with BOCE

Buckets

Bucket Capacities	3.4-4.2 m³	4.5-5.5 yd³
Max Bucket Capacity	4.2 m³	5.5 yd³

Operating Specifications

Static Tipping Load, Full Turn	15 474 kg	34,120 lb
Breakout Force	188 kN	42,300 lb

- For 4.25 m³ (5.5 yd³) general purpose bucket with BOCE

Transmission

Forward 1	6.7 km/h	4.2 mph
Forward 2	12.6 km/h	7.8 mph
Forward 3	22.1 km/h	13.7 mph
Forward 4	37.4 km/h	23.2 mph
Reverse 1	7.4 km/h	4.6 mph
Reverse 2	13.9 km/h	8.6 mph
Reverse 3	24.3 km/h	15.1 mph
Reverse 4	37.4 km/h	23.2 mph

- Maximum travel speeds (26.5-25 tires).

Hydraulic System

Bucket/Work Tool System – Pump Output	305 L/min	80.6 gal/min
Steering System Pump Type	Piston	
Hydraulic Cycle Time – Raise	5.9 Seconds	
Hydraulic Cycle Time – Dump	1.6 Seconds	
Hydraulic Cycle Time – Lower, Empty, Float Down	2.4 Seconds	
Hydraulic Cycle Time – Total	9.9 Seconds	

- Implement System (Standard), Piston Pump – Rated at 2,100 rpm and 1,000 psi (6900 kPa).
- Cycle time with rated payload

Brakes

Brakes	Meets required standards.
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- Meet OSHA, SAE J1473 OCT90 and ISO 3450-1985 standards.

Axles

Front	Fixed front	
Rear	Oscillating ± 13°	
Maximum Single-Wheel Rise and Fall	502 mm	19.8 in

Tires

Tires	Choose from a variety of tires to match your application.
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- Choice of:
26.5R25, L-2
26.5R25, L-3 (XHA)
26.5R25, L-5 (VSDL)
26.5-25, L-3 (SRG, SHRL)
750/65R25, L-3
- 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. The 26.5-25 size range and other special tires are available on request.

Bucket		General Purpose Bucket
		Bolt-On Edges
Rated Bucket Capacity (\$)	m ³	4.25
	yd ³	5.50
Struck Capacity (\$)	m ³	3.62
	yd ³	4.73
Width (\$)	mm	3220
	ft/in	10'7"
Dump Clearance at Full Lift and 45° Discharge (\$)	mm	3086
	ft/in	10'2"
Reach at Full Lift and 45° Discharge (\$)	mm	1294
	ft/in	4'3"
Reach with Lift Arm Horizontal and Bucket Level (\$)	mm	2737
	ft/in	9'0"
Digging Depth (\$)	mm	108
	in	4.25
Overall Length	mm	8855
	ft/in	29'1"
Overall Height with Bucket at Full Raise	mm	5853
	ft/in	19'2"
Loader Clearance Circle with Bucket in Carry Position (\$)	mm	14 720
	ft/in	48'3"
Static Tipping Load Straight *	kg	17 394
	lb	38,354
Static Tipping Load Full 37° Turn	kg	15 474
	lb	34,120
Breakout Force ** (\$)	kN	188
	lb	42,300
Operating Weight * (\$)	kg	23 698
	lb	52,254

(\$)

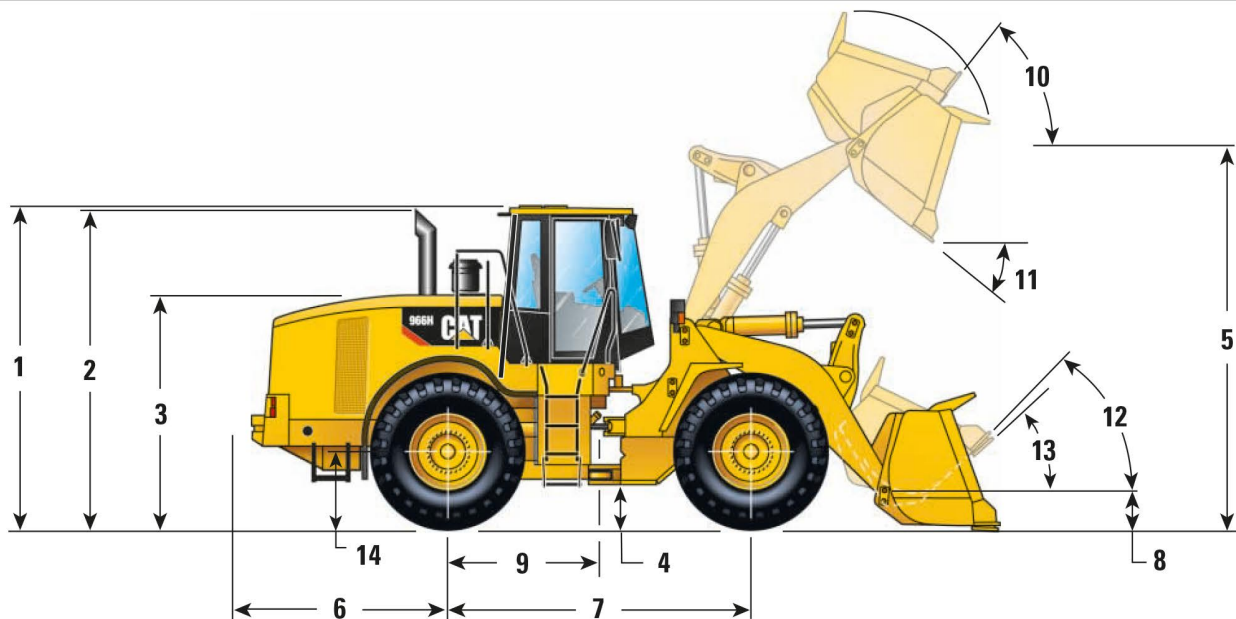
 Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

* Static tipping loads and operating weights shown are based on standard machine configuration with 26.5R25 L-4 Firestone tires, loading fenders, powertrain guard, full fuel tank, coolants, lubricants, air conditioner and operator.

** Measured 102 mm (4.0") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

Dimensions

All dimensions are approximate.



1 Height to top of ROPS	3600 mm (11'10")
2 Height to top of exhaust pipe	3552 mm (11'8")
3 Height to top of hood	2678 mm (8'9")
4 Ground clearance with 26.5R25 L-4 Firestone (see tire chart for other tires)	496 mm (1'8")
5 B-Pin height	4224 mm (13'10")
6 Center line of rear axle to edge of counterweight	2461 mm (8'1")
7 Wheelbase	3450 mm (11'4")
8 B-Pin height @ carry	507 mm (1'8")
9 Center line of rear axle to hitch	1725 mm (5'8")
10 Rack back @ maximum lift	60.8
11 Dump angle @ maximum lift	45
12 Rack back @ carry	47.4
13 Rack back @ ground	41.8
14 Height to center line of axle	815 mm (2'8")

Standard Equipment

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

ELECTRICAL

- Alarm, back-up
- Alternator, 80-amp brushless
- Batteries, Maintenance free (2) 1400 CCA
- Ignition key; start/stop switch
- Lighting system, halogen (6 total)
- Main disconnect switch
- Receptacle, starting, 24-volt
- Starter, electric, heavy-duty
- Starting and charging system (24-volt)

OPERATOR ENVIRONMENT

- Air conditioner, heater and defroster
- Bucket/work tool function lockout
- Cab, pressurized and sound-suppressed ROPS/FOPS
 - Radio-ready (entertainment) includes antenna, speakers and converter (12-volt, 10-amp)
- Cigar lighter and ashtray (12-volt)
- Coat hook (2) with straps
- Computerized monitoring system
 - Instrumentation, gauges:
 - Digital gear range indicator
 - Engine coolant temperature
 - Fuel level
 - Hydraulic oil temperature
 - Speedometer/tachometer
 - Transmission oil temperature
 - Instrumentation, warning indicators:
 - Axle oil temperature
 - Electrical, alternator output
 - Engine air filter restriction
 - Engine inlet manifold temperature
 - Engine oil pressure
 - Fuel level
 - Fuel pressure, hi/low
 - Hydraulic filter bypass
 - Hydraulic oil level
 - Parking brake
 - Primary steering oil pressure
 - Service brake oil pressure
 - Transmission filter bypass
- Controls, electrohydraulic, lift and tilt function
- Horn, electric (steering wheel/console)
- Light, dome (cab)
- Lunchbox, beverage holders and personal tray
- Mirror, rearview (internally mounted)
- Seat, Cat Comfort (cloth) with air suspension
- Seat belt, retractable, 51 mm (2") wide
- Steering column, adjustable angle (SW-CCS) and length (CCS)
- Wet-Arm wipers and washers, front and rear
 - Intermittent front wipers
- Window, sliding (left and right side)

POWER TRAIN

- Brakes, full hydraulic enclosed wet-disc with Integrated Braking System (IBS) and brake wear indicator
- Engine, Cat C11 with ACERT™ Technology and ATAAC
- Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand
- Filters, fuel, primary/secondary
- Filters, engine air, primary/secondary
- Fuel priming pump (electric)
- Muffler, sound suppressed
- Radiator, unit core
- Starting aid, ether (ready)
- Switch, transmission neutralizer lockout
- Torque converter, free wheel stator
- Transmission, automatic, planetary powershift (4F/4R)
- Variable Shift Control (VSC)

OTHER

- Automatic bucket positioner
- Counterweight
- Couplings, Caterpillar O-ring face seal
- Doors, service access (locking)
- Ecology drains, engine, transmission and hydraulics
- Fenders, steel (front and rear)
- Guard, airborne debris
- Hitch, drawbar with pin
- Hood, non-metallic, power tilting
- Hoses, Caterpillar XT™
- Hydraulic oil cooler
- Kickout, lift and tilt, automatic (in-cab adjustable)
- Linkage, Z-bar, cast crosstube/tilt lever
- Oil sampling valves
- Product Link ready
- Remote diagnostic pressure taps
- Service center, electrical and hydraulic
- Sight gauges:
 - Engine coolant
 - Hydraulic oil
 - Transmission oil level
- Steering, load sensing
- Vandalism protection caplocks

TIRES, RIMS, WHEELS

- A tire must be selected from the mandatory attachments section. Base machine price includes an allowance based on a premium radial tire.

ANTIFREEZE

- Premixed 50% concentration of Extended Life Coolant with freeze protection to -34° C (-29° F)