

Cat® C13 Diesel Engine with ACERT™ Technology					
Gross Power (SAE J1995)	229 kW/311 hp				
Net Power (ISO 9249) at 1800 rpm	214 kW/291 hp				
Bucket Capacity	3.8 to 5.5 m ³				
Operating Weight	25 800 to 27 500 kg				

Engine

Cat C13 with ACERT T	echno	ology
Gross Power	229 1	kW/311 hp
Net Power at 1800 rpm		
ISO 9249	214	kW/291 hp
80/1269/EEC	214	kW/291 hp
Peak Torque (net) at 1400	0 rpm	1332 Nm
Total Torque Rise		40%
Bore		130 mm
Stroke		157 mm
Displacement		12.5 liter

- All engine horsepower (hp) are metric including front page.
- EU Stage IIIA compliant.
- 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.

Sound

- The operator sound pressure level measured according to the procedures specified in ISO 6394:1998 is 71 dB(A) for the cab offered by Caterpillar, when properly installed, maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environments.
- The European Union 2000/14/EC labeled spectator sound power level is 108 dB(A).

ROPS/FOPS

- Caterpillar cab with integrated Rollover Protective Structure (ROPS) is standard in Europe.
- Rollover Protective Structure ROPS meets ISO 3471:1994 criteria.
- Falling Objects Protective Structure (FOPS) meets ISO 3449:1992 Level II criteria.

Brakes

Meet ISO 3450:1996 standard.

Operating Specifications

Operating Weight	25 800 kg
Static Tipping Load,	
Full Turn	17 610 kg
Breakout Force	235 kN
Bucket Capacities	3.8 to 5.5 m ³

 Operating weight with
 4.5 m³ universal plus bucket and bolt-on cutting edge.

Hydraulic System

Implement System	
Pump Output	320 l/min
Relief lift and tilt valve setting	310 bar
Hydraulic Cycle Times	seconds
Raise	5.9
Dump	2.1
Lower, Empty, Float Down	2.4
Total	10.4

- Implement system, variable axial piston pump (rated at 2100 rpm and 69 bar)
- Cycle times with rated payload

Transmission

Forward	km/h
1	7
2	13
3	21
4	37
Reverse	
1	8
2	14
3	24
4	39

Maximum travel speeds (26.5–25 tires)

Axles

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

Service Refill Capacities

	Liters
Fuel Tank	380
Cooling System	39
Crankcase	35
Transmission	50
Differentials and Final Drives	
Front	64
Rear	64
Hydraulic Tank	110

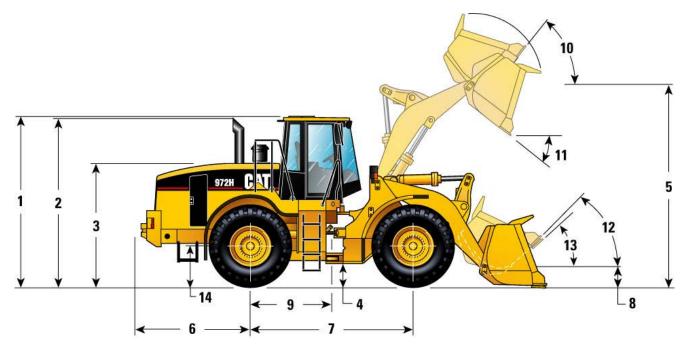
Tires

26.5 R 25, L-3 (XHA MX) 26.5 R 25, L-3 (VMT BS) 26.5 R 25, L-2 (GP2B GY) 750/65 R 25, L-3 (MX) 26.5 R 25, L-3 (RT3B GY)

In certain applications (such as load and carry) the loader's productive capabilities might exceed the tires' tonnes-km/h 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.

Dimensions

All dimensions are approximate



		mm
1	Height to top of ROPS	3580
2	Height to top of exhaust pipe	3532
3	Height to top of hood	2658
4	Ground clearance with 26.5 R 25, L-3	476
5	Bucket hinge pin height (B-pin)	4445
6	Center line of rear axle to edge of counterweight	2461
7	Wheelbase	3450
8	Bucket hinge pin height at carry (B-pin)	485
9	Center line of rear axle to hitch	1725

10 Rack back at maximum lift	55°
11 Dump angle at maximum lift	52°
12 Rack back at carry	47°
13 Rack back at ground	41°
14 Height to center line of axle	795 mm

Tire Specifications

	Width over tires	Change in vertical dimensions	Change in operating weight	Change in static tipping load
	mm	mm	kg	kg
26.5 R 25, L-3 (XHA MX)	2970	0	0	0
26.5 R 25, L-3 (VMT BS)	2968	-10	+80	-17
26.5 R 25, L-2 (GP2B GY)	2965	0	-48	-33
26.5-25 20 PR, L-3 (SHRL GY)	2927	0	-220	-107
26.5-25 20 PR, L-3 (SRG FS)	2945	-24	-324	-454
750/65 R 25, L-3 (MX)	3029	0	-228	-40
26.5 R 25, L-3 (RT3B GY)	2970	0	+10	+8
26.5 R 25, L-5 (VSDL BS)	2909	+20	+1248	+871
26.5-25, L-4 (SRG FS)	2955	+20	+34	+24

Operation Specifications Rated bucket capacity m^3 Struck capacity m^3 Width mm Dump clearance at full lift and 45° mm discharge 4 Reach at full lift and 45° discharge 4 mm Reach with lift arms horizontal mm and bucket level 4 Digging depth mm Overall length 4 mm Overall height with bucket at full raise Loader turning radius with bucket mm in carry position Static tipping load straight 1 kg Static tipping load kg at full articulation (37°)1 Breakout force² kN

Universal Plus Buckets

Bolt-on Cutting Edge	Tips and Segments						
5.5*	5.5*	5*	5*	4.8	4.8	4.5	4.5
4.75	4.75	4.25	4.25	4.1	4.1	3.8	3.8
3220	3303	3220	3303	3220	3303	3220	3303
3075	2912	3117	2955	3145	2983	3202	3040
1331	1458	1288	1415	1260	1387	1203	1331
3083	3288	3023	3228	2983	3188	2903	3108
100	95	100	95	100	95	100	95
9290	9514	9230	9454	9190	9414	9110	9334
6264	6264	6207	6207	6167	6167	6090	6090
7500	7604	7483	7587	7472	7576	7450	7554
19625	19438	19704	19518	19779	19595	19855	19672
17384	17197	17461	17276	17535	17351	17610	17426
206	204	215	213	221	220	235	234
2411	2548	2349	2486	2290	2427	2232	2369
25983	26120	25921	26058	25862	25999	25804	25941

^{*} Light material only

kg

kg

Dimensions for dump clearance, reach and overall length:

⁴ Actual dimensions taken at the tip of the Ground Engaging Tools, either the tip of the bolt-on cutting edge or the tip of the teeth, type long.

Bucket weight

Operating weight 1

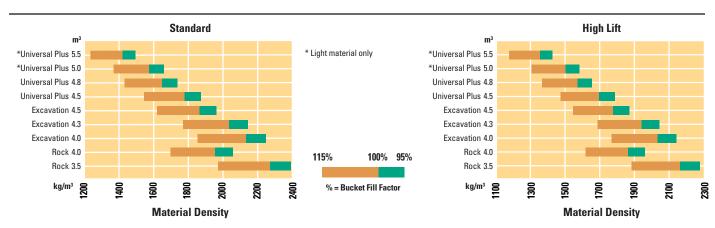
¹ Static tipping load and operating weight shown are based on average machine configuration with sound suppression cab and ROPS, secondary steering, air conditioning, ride control, limited slip rear, roading fenders, autolube, front access platform, back-up alarm, 26.5 R 25, L-3, tires for Universal Plus buckets, L-4 tires for General Excavation buckets, L-5 tires for Rock buckets, full fuel tank, coolant, lubricants, lights, directional signals, CE plates and operator.

² For buckets with adapters, tips and segments, value is measured 102 mm behind the tip of the segment, with bucket hinge pin as pivot point, in accordance with SAE J732C.

³ All buckets shown can be used on the high lift arrangement. High lift column shows changes in specifications from standard lift to high lift. Add or subtract as indicated to or from specifications given for appropriate bucket to calculate high lift specifications.

General Excavation Buckets						Rock Bucke	High Lift ³		
Bolt-on Cutting Edge	Tips and Segments	Bolt-on Cutting Edge	Tips and Segments	Bolt-on Cutting Edge	Tips and Segments	Bolt-on Cutting Edge	Tips and Segments	Tips and Segments	
4.5	4.5	4.3	4.3	4	4	4	4	3.5	same
3.8	3.8	3.6	3.6	3.4	3.4	3.4	3.4	2.9	same
3220	3303	3220	3303	3059	3142	3289	3258	3258	same
3275	3122	3314	3162	3314	3185	3252	3093	3205	+335
1299	1438	1270	1410	1270	1429	1426	1608	1570	+23
2909	3114	2859	3064	2859	3064	3011	3252	3142	+274
83	78	83	78	83	78	71	76	76	-4
9112	9336	9062	9286	9062	9263	9225	9476	9366	+336
6127	6127	6081	6081	6081	6081	6413	6413	6303	+336
7453	7557	7439	7543	7366	7459	7516	7576	7544	167
19472	19289	19610	19428	19735	19554	19725	19885	20154	-1883
17247	17065	17377	17196	17502	17321	17453	17582	17838	-1720
232	231	241	240	242	241	212	213	232	-6
2426	2563	2365	2502	2252	2389	2689	2636	2769	same
26217	26354	26156	26293	26043	26180	27341	27421	27288	+95

Bucket Selection Guide



In accordance with SAE J818, these data consider the bucket load to be equal to half of the static tipping load at full turn.

Standard Equipment

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

Electrical

Alternator, 80-amp brushless Batteries, maintenance-free (2) Battery disconnect switch Ignition key; start/stop switch Starter, electric, heavy-duty Starting and charging system (24-volt)

Working lights, halogen (6 total)

Operator Environment

Bucket/work tool function lockout Cab, pressurized and sound-suppressed ROPS/FOPS Radio-ready (entertainment) includes antenna, speakers and converter (12-volt, 10-amp)

Caterpillar 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 air temperature
Engine oil pressure
Fuel level
Fuel pressure, high/low
Hydraulic filter bypass
Hydraulic oil level
Parking brake
Primary steering oil pressure
Service brake oil pressure
Transmission oil filter bypass

Cigar lighter (12-volt), ashtray Coat hook (2) with straps Controls, electrohydraulic, lift and tilt function Fender extensions, front and rear Horn, electric (steering wheel/console) Light, dome (cab) Lunchbox, beverage holders and personal tray Mirrors, external Seat, Cat Comfort (cloth) with air suspension Seat belt, retractable, 51 mm Steering column, adjustable angle (steering wheel and Command Control) length (Command Control) Sun visor, front Wet-Arm wipers and washers, front and rear Intermittent front wipers

Power Train

Window, sliding left

Brakes, full hydraulic enclosed wet-disc with Integrated Braking System (IBS) and brake wear indicator Engine, Cat C13 with ACERT technology and air to air aftercooler 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/manual, planetary powershift (4F/4R)

Variable Shift Control (VSC)

Other

Automatic bucket positioner
Counterweight
Doors, service access (locking)
Ecology drains, engine, transmission
and hydraulics
Fenders, steel (front and rear)
Grill, airborne debris
Hitch, drawbar with pin
Hood, non-metallic, power tilting

Hose couplings, Caterpillar O-ring face seal

Hoses, Caterpillar XTTM Hydraulic oil cooler

Kickout, lift and tilt, automatic (in-cab adjustable)

Linkage, Z-bar, cast crosstube/tilt lever Oil sampling valves (engine, transmission and hydraulic oils)

Product Link ready

Remote diagnostic pressure taps (steering, hydraulic, transmission and brakes)

Service center, electrical and hydraulic Sight gauges:

Engine coolant
Hydraulic oil
Transmission oil level
Steering, load sensing

Tires, Rims, Wheels

A tire must be selected from the mandatory attachments section (price list). 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

Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for specifics.

Alarm, back-up Air conditioner, heater and defroster Aggregate Autodig System Autolube Axle oil cooler, front and rear axles Buckets, quick coupler, work tools and Ground Engaging Tools (GET) see Cat dealer for details Cat Machine Security System (MSS) Camera package, rear vision, includes a monitor Cooling, high-ambient, 50°C Differentials Limited slip, front or rear NO-SPIN, rear Drain, axle ecology Fenders, narrow Fenders, roading Guard, axle seal Guard, front window, wide or small mesh Guard, power train Guard, vandalism Heater, engine coolant, 240-volt Hydraulic arrangement, three-valve Joystick control, two- or three-valve Lights directional high intensity discharge (HID)

Mirror, rearview (internally mounted) Mirrors, heated external Mirrors, heated external, folding Open canopy Payload Control System Payload Control System Printer Platform, window cleaning Precleaner, turbine Precleaner, turbine/trash Product Link Radio, AM/FM (cassette) Receptacle, jump-start, 24-volt Remote pressure taps (transmission, steering, torque converter and implement systems) Ride Control System, two- or three-valve Seat, Deluxe (heated cushion, high back extension, ride zone indicator, operator weight shock adjustment) Sound suppression, exterior Steering, Command Control System Steering, secondary Switch FNR (steering wheel machines) Special Machine Arrangements High Lift Arrangement, two- and three-valve Toolbox Vandalism protection caplocks Window, sliding right

Merchandising Arrangement 0

(not for EU regulated countries) Wheel Loader, SW Air conditioner Precleaner, turbine

Merchandising Arrangement 1

Wheel Loader, SW Conversion, CE mark Air conditioner Tool box

Merchandising Arrangement 2

Wheel Loader, SW Conversion, CE mark Air conditioner Differential, limited slip, rear Ride control, 2 valve

Merchandising Arrangement 3

Wheel Loader, SW Conversion, CE mark Air conditioner Aggregate Autodig Limited Slip Differential, rear Ride control, 2 valve Seat, Deluxe

Merchandising Arrangement 4

Wheel Loader, SW Conversion, CE mark Air conditioner Hydraulics, 3 valve Ride control, 3 valve

Other Special Arrangements

High Lift Arm, provides +335 mm dump clearance High Capacity Lift Arm (972H Plus), provides +7% payload capacity Access package (15° inclined ladder and front access platform)

972H Plus

roading

warning beacon

work, cab-mounted

Extended capacity lift arm.

Higher	pay	load	l

- Increased full turn static tipping load
- Greater truck match possibilities
- Increased stability

Main specification changes compared to the standard lift arm operating specifications:

Straight static tipping load +1215 kg
Full turn static tipping load +1070 kg

Dump clearance

at full lift and 45° discharge -223 mm