





3.3 to 3.8 m ³	4.25 to 5.0 yd3
20 905 kg	46,096 lb
175 kW	235 HP
164 kW	220 HP
	20 905 kg 175 kW

966F Series II Wheel Loader

State-of-the-art design and superior quality allow you to maximize productivity.

Engine

Cat 3306 engine is built for performance, durability, serviceability and excellent fuel economy. **pg. 4**

Power Train

Automatic planetary power shift transmission allows for on-the-go speed and direction changes, while heavy duty axles with enclosed full-hydraulic disc brakes are designed to provide optimum performance in all kinds of applications and operating environments. pg. 5

Frame and Loader Linkage

Box-section frame and four-plate loader tower absorb shock and reduce stress. Spread hitch design provides strength, allows excellent service access and reduces stress loads on hitch pins and roller bearings. Low maintenance Z-bar design provides optimum breakout forces. pg. 6

Top performance.

Caterpillar high-tech design provides tough breakout force, fast load and cycle times, and precise maneuvering.

Reliable, durable operation.

Rugged construction and easy maintenance guarantee long life with low operating costs.



Hydraulics

Powerful Caterpillar hydraulics provide strength and versatility for various applications, giving the 966F Series II exceptional lift capacity and load handling. Hydraulics are also the key to automotive-like steering and ride control. pg. 7

Operator's Station

In the roomier new cab, thoughtfully positioned levers and switches put the operator in control, while the automatic shift simplifies the work. The Computerized Monitoring System features a Vacuum Fluorescent Display for excellent readability. Low closed-door sound levels (75 dB(A) when measured per ISO 6394 or 86/662/EEC) reduce operator fatigue on cab equipped machines. pg. 8-9

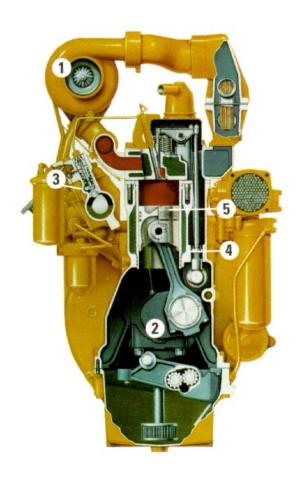
Buckets

Wide selection of general purpose, penetration and rock buckets—along with various tooth and tip options—allow you to match the machine to the job. **pg. 10-11**



3306 Engine

The six-cylinder, turbocharged engine is built for power, reliability and economy.



Powerful performance. The 966F Series II performs at full-rated gross power of 175 kW (235 hp). The four-stroke cycle design delivers long power strokes and efficient fuel combustion. The turbocharged Caterpillar 3306 engine is precisely engineered and stringently tested to maintain a tradition of quality. It does it all with profit-boosting performance, heavy duty durability and reliability, built-in serviceability and excellent fuel economy.

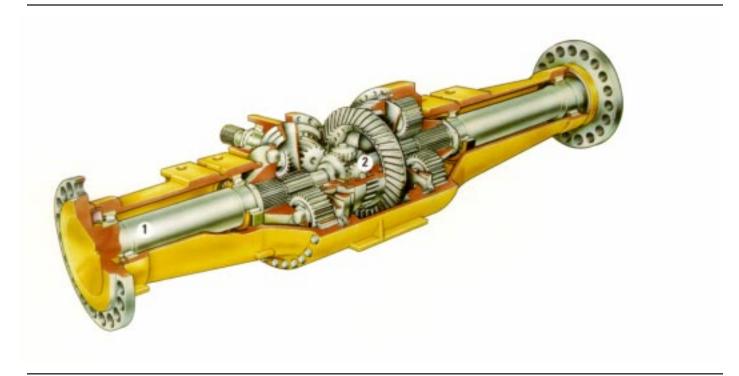
- **1 Turbocharger** enhances performance and engine efficiency, especially at high altitudes.
- **2 Crankshaft** is a steel forging, carburized and quench hardened for long-term durability.
- 3 High-pressure direct injection fuel system provides excellent fuel atomization for unmatched fuel economy, reliability and durability.
- 4 Full-length water cooled cylinder liners provide maximum heat transfer.
- **5 Oil-cooled pistons** increase heat dissipation and promote longer piston life

Modular radiator cools efficiently. Grill swings out for easy repair or installation of individual modules and sight gauge allows for quick check of coolant level. Optional trash resistant radiator with 6 fins per inch is available.

- **Easy maintenance.** The engine can be rebuilt for a second life. Caterpillar remanufactured parts are available to economically replace many components. Some innovative maintenance features of the 3306 engine:
- Connecting rods can be removed through the tops of the cylinders.
- Camshaft followers and pushrods can be easily replaced without removing the camshaft.
- Water pump can be serviced as a unit or rebuilt.

Power Train

The Cat® power train makes dependable performance a standard feature.

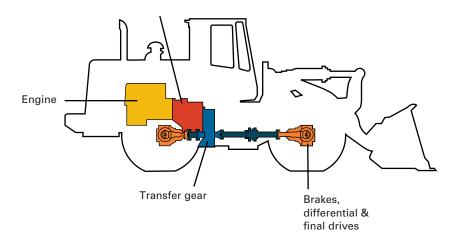


1 Heavy duty axles and brakes are designed to last in all kinds of operating conditions. Planetary final drives use full-floating bronze sleeve bearings in the planet gears and differential pinion. Full-hydraulic wet disc brakes are adjustment free and fully enclosed to lock out contaminants. Patented Duo-Cone Seals between the axle shafts and housings keep lubrication in and dirt out. Oscillating rear axle ensures four-wheel ground contact for traction and stability, even on rugged terrain.

2 Optional limited-slip differentials and NoSPIN rear differential are available to deliver maximum traction in low traction or inconsistent ground conditions.

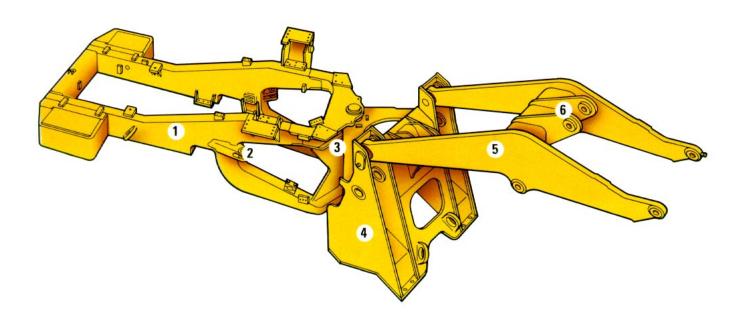
Planetary power shift transmission with automatic shift capability allows on-the-go shifting, while hydraulic modulation cushions the shift and reduces stress on components. Large diameter, perimeter-mounted clutch plates are continuously oil-cooled for dependable, long life.

Transmission



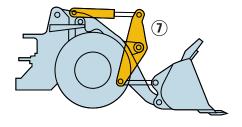
Frame and Loader Linkage

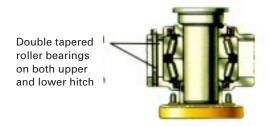
Superior construction means superior strength.



- **1 Full box-section frame** absorbs shock and twisting forces while supporting rigid component alignment.
- **2 Spread-hitch design** provides strength in the articulation area and reduces stress on the hitch pins and roller bearings. The use of castings in high stress areas distributes stress loads better.
- **3 35° center-point articulation** allows cycling in tight quarters.
- **4 Full four-plate loader tower** provides rigid mounting for lift arms, resists stress and protects hydraulic cylinders and lines from damage by debris.
- **5 Lift arms** are made of solid steel to stand up to any stress load.

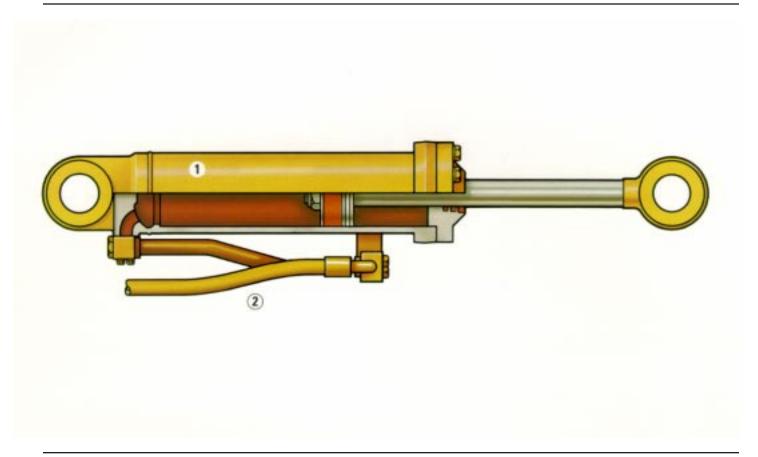
- **6 Cast cross tube** provides extra rigidity and maintains pin bore alignment.
- 7 Z-bar loader linkage gives the 966F Series II tremendous breakout force in all materials. The streamlined design—with fewer pivot points and sealing to maintain pin lubrication—allows for longer maintenance intervals. Cast tilt lever and forged tilt link efficiently transmit high breakout forces from the tilt cylinder.
 - **Optional high lift design.** An arrangement with longer lift arms and modified tilt cylinder is available for increased reach and dump clearance.





Hydraulics

Powerful hydraulics are the invisible force behind the loader's muscle and flexibility.



High capacity lift. Quick hydraulics make it easy to lift heavy, full bucket loads. The bucket automatically returns to a preset lift height and digging angle, which ensures accuracy and cuts down on operator distractions.

Smooth steering. Hydraulic steering system with dedicated pump has automotive-type feel for precise, comfortable control. Large-bore steering cylinders allow excellent maneuverability.

Automatic Ride Control. The 966F features an optional automatic ride control system that uses a nitrogen-oil accumulator in line with hydraulic lift cylinders as a shock absorber. In automatic, the system is activated when the speed exceeds 9.7 kph (6mph) and deactivated at speeds below 9.7 kph (6 mph), resulting in better movement into the stockpile, more efficient lifting and loading. Automatic ride control also provides a more controlled ride and greater payload retention. Collectively these benefits contribute to improved operator efficiency, lower operating cost and enhanced productivity.

- 1 Large-bore lift and tilt cylinders ensure efficient load handling.
- **2 Cat's XT-3 hydraulic hose** is exceptionally strong and flexible. Reusable couplings prolong the hose assembly's life.

0-Ring Face Seals (ORFS) provide positive, dry sealing.

Operator's Station

Comfort and control - top-quality operator's station will help maximize productivity.





- 1 Exceptional all-around visibility reduces strain and fatigue, making operators more productive.
- 2 Caterpillar Monitoring System with electronic analog gauges is a highly effective and reliable diagnostic system. As a warning system, it constantly checks machine functions and tells the operator when there's a problem. Easy-to-read gauges display fuel level, temperatures for coolant, transmission and hydraulic oil, alternator output, machine speed, engine RPM and gear range. Also displays hour meter, odometer and optional digital speedometer readings. As a diagnostic system, it identifies conditions, shows current readings and plays back readings registered during recent operations.
- 3 Automatic shift control allows the operator to concentrate on the work, not gear selection. Preset factory shift points ensure each shift occurs at optimum torque. A switch allows the operator to select either automatic or manual shifting. The low-effort shift control allows one-hand shifting for speed or directional changes.
- 4 Quick Gear Kickdown Button lets the operator easily downshift to a lower gear. It's a convenient way to downshift that saves time, increases bucket fill factors and lowers cycle times.
- **5 Steering column** adjusts to multiple positions. The leather-like steering wheel and transmission control provide a sure grip and comfortable feel. The horn is conveniently located in the center of the steering wheel.

- **6 Transmission neutralizer lockout switch** enables the left or right brake pedal to be used as a brake/neutralizer or brake only. Switch is on the right hand console.
- 7 Convenient low effort bucket controls allow for precise bucket loading and dumping. Optional third valve and control are available.
- 8 New Contour Series Seat is designed for comfort and support. Seat cushions reduce pressure on the lower back and thighs while allowing unrestricted arm and leg movement.
- **9 Built-in storage space** is designed to hold cups, lunch box, thermos and personal items.
- 10 Repositioned vents throughout the cab keep fresh air flowing while improving the cab's heating, cooling, defrost and defog capability.

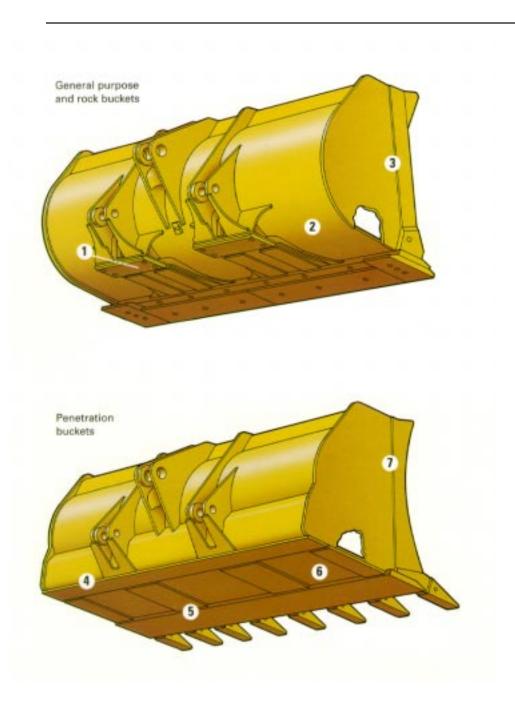
Radio Ready means this cab includes 12-volt converter (2-amp), speakers, antenna, all wiring and brackets for entertainment or communications radio installation.

Windshield washers/wipers are standard features on front and rear windows. Front wiper has intermittent speed capability and inthe-blade washer delivery system.

Optional Payload Measurement System offers on-the-go weighing to assist operators in loading trucks more accurately.

Buckets

A choice of 12 buckets lets you tailor the machine to the job.



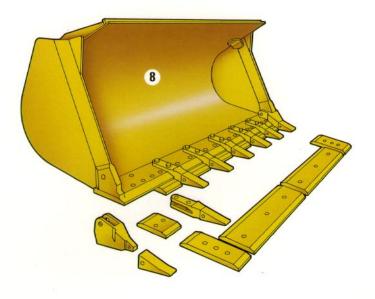
Rugged design. All buckets are built with shell-tine construction that resists twisting and distortion.
Replaceable, bolt-on wear plates protect the bucket bottom. Patented Cat Corner Guard Cutting Edge System protects the corners for long-term wear.

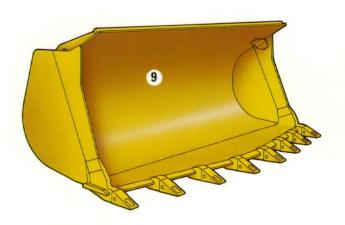
General purpose and rock buckets— excellent for excavating, stockpiling and general purpose work

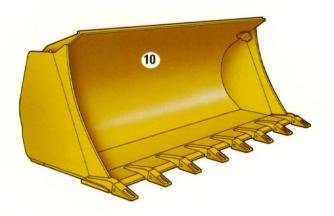
- 1 Bolt-on wear plates
- 2 Sloped floor
- **3** Straight, sharp side bar

Penetration buckets—excellent for site preparation work

- 4 Full-width backdrag edge
- **5** Fore/aft wear strips
- 6 Flat floor
- 7 Curved, sharp side bar







- 8 General purpose buckets are available with teeth, teeth and segments or reversible cutting edges. All options bolt on.
- 9 Rock buckets have a spade-edge design that makes them well suited to high-impact jobs. Rock buckets are available with or without teeth.
- 10 Penetration buckets are the right choice for moderate breakout force. The flush-mount teeth are welded on.

Tooth Options

Flush-Mount

Bottom Strap



Two Strap Two Bolt

Unitooth





Tip Options

Short







Abrasion

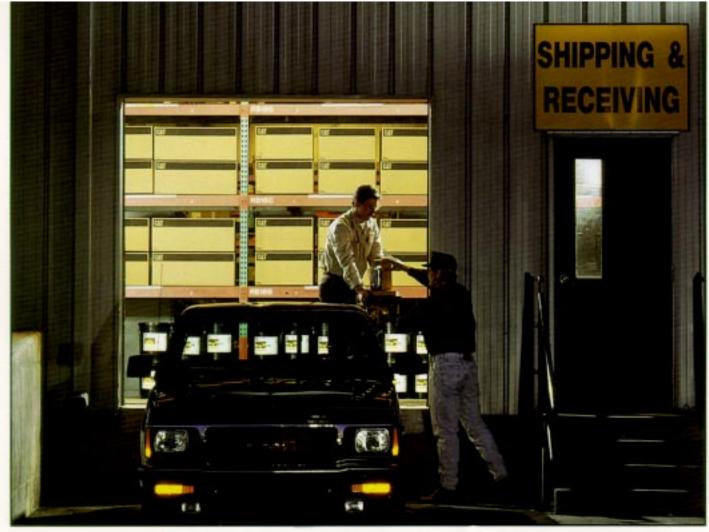


Penetration



Complete Customer Support

When you buy a Cat machine, you also get Caterpillar's total commitment to customer support.



Easy maintenance. In addition to the servicing features built into the engine (see page 4), the 966F Series II includes:

- Hinged doors for access to battery boxes.
- Diagnostic connector to analyze electrical functions quickly.
- Ground-level access to lubrication points.
- Hydraulic pressure taps for checking hydraulic pressures.

Cat dealers are also available to help you manage your machine service. Ask about our preventive maintenance programs. Parts availability. Most Cat parts are immediately available from any dealer. Cat dealers rely on our worldwide computer network to find parts instantly and minimize your machine downtime. Many components are economically available as Caterpillar Remanufactured parts.

Flexible financing. Your dealer can arrange affordable financing for the entire Caterpillar equipment line. Talk to your dealer to learn how terms can be structured to meet your cash flow requirements.

Engine

Four-stroke cycle, six cylinder 3306 turbocharged diesel engine.

Ratings at 2200 RPM	kW	HP
Gross power	175	235
Flywheel power	164	220
DIN 70020	170	228
ISO 1585	164	220
ISO 3046-2	164	220
EEC 80/1269	164	220
ISO 9249	164	220

Dimensions

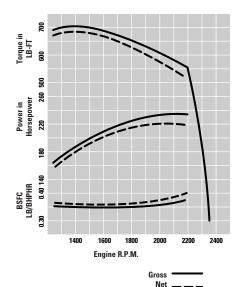
Bore	120.7 mm	4.75 in.
Stroke	152.4 mm	6.0 in.
Displacement	10.5 liters	638 cu in.

Exhaust emissions

The 3306 DITA meets the following emissions requirements:

- EEC JUL 1997
- US EPA JAN 1996
- Japan MOC APRIL 1997

	g/kVVh	g/hp-hr
Hydrocarbons (HC)	0.50	0.37
Carbon monoxide (CO)	1.74	1.30
Nitrogen oxides (NO _x)	8.35	6.23



Power rating conditions

- based on SAE J1349 standard conditions of 25°C (77°F) and 100 kPa (29.6")
- used 35° API, 16°C (60°F), gravity fuel
- fuel had LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29°C (85°F)
- fuel density of 838.9 g/L (7.001 lb/gal)
- flywheel power ratings are for engine equipped with fan, alternator, air cleaner, water pump, fuel pump, muffler, and lubricating oil pump
- no derating required up to 2286 m (7500 ft) altitude

Features

- direct-injection fuel system with individual adjustment-free injection pumps and valves
- 3-ring aluminum-alloy pistons, camground, tapered and cooled by oil spray
- spiral ground, stellite faced valves
- tapered connecting rods
- one-piece cylinder head design with integrally cast intake manifold
- deep-skirted cast cylinder block
- induction-hardened, forged crankshaft
- gear driven water pump, air compressor and power steering pump
- direct-electric 24-volt starting and charging system with 12-volt, 100 amp-hour batteries
- standard ether starting aid
- standard oil cooler

Transmission

Planetary power shift transmission with four speeds forward and reverse.

Maximum travel speeds (standard 26.5-25 tires)

		km/h	MPH
Forward	1	7.3	4.5
	2	13.0	8.1
	3	22.5	14.0
	4	38.8	24.1
Reverse	1	8.3	5.2
	2	14.8	9.2
	3	25.6	15.9
	4	43.9	27.3

Features

- automatic shift capability
- Quick Gear Kickdown Switch
- single lever to control both speed and direction
- single-stage, single-speed torque converter
- optional extreme service transmission is available (recommended for millyard/logging applications)

Axles

Fixed front, oscillating rear ($\pm 13^{\circ}$).

Features

- maximum single-wheel rise and fall: 495 mm (19.5")
- differentials, enclosed brakes and final drives included
- threaded nuts to set bearing pre-load
- Duo-Cone Seals between axle and housing
- uses SAE 30W (oil change interval: 2000 hours or 1 year)

Brakes

Meets the following standards: OSHA, SAE J1473 DEC84, ISO 3450-1985.

Service brake features

- full-hydraulic wet disc brakes
- completely enclosed and sealed
- adjustment-free
- separate circuits for front and rear axles
- dual pedal braking system with switchable left pedal

Parking brake features

- mechanical, shoe-type brake
- mounted on transmission output shaft for manual operation

Secondary brake features

 Computerized Monitoring System alerts operator if pressure drops and automatically applies parking brake

Final Drives

Planetary final drives consist of ring gears and planetary carrier assemblies.

Features

- ring gears are pressed in and doweled to axle housings
- carrier assemblies include:
 - planet gears with full-floating bronze sleeve bearings
 - planet shafts
 - retaining pins
 - bearings
 - sun gear shafts
 - planetary carriers

Loader Hydraulic System

Open-centered, interrupted series system with full-flow filtering. System is completely sealed. Pilot-operated controls.

Implement system, vane-type pump		
Output at 2092 RPM and		
6900 kPa (1000 psi)		
with SAE 10W oil at 66°C (150°F)	302 liters/min	79 gpm
Relief valve setting	20 700 kPa	3000 psi
Cylinders, double acting:		
lift, bore and stroke	178 x 759 mm	7.00 x 29.8"
Cylinders, double acting:		_
tilt, bore and stroke	210 x 535 mm	8.25 x 21.0"
Pilot system, vane-type pump		
Output at 2092 RPM and		
6900 kPa (1000 psi)		
with SAE 10W oil at 66°C (150°F)	21.0 liters/min	5.5 gpm
Relief valve setting	2525 kPa	366 psi

Hydraulic cycle time	
Raise	7.1
Dump	2.0
Lower, empty, float down	2.4
Total	11.5 seconds

Features

- completely enclosed system
- low effort, pilot-operated controls
- full-flow filtering
- reusable couplings with O-Ring Face Seals

Cab

Caterpillar cab and Rollover Protective Structure (ROPS) are standard in North America, Europe and Japan.

Features

- meets OSHA and MSHA limits for operator sound exposure with doors and windows closed (according to ANSI/SAE J1166 JUL87)
- ROPS meets the following criteria:
 - SAE J394
 - SAE 1040 APR88
 - ISO 3471-1986
- also meets the following criteria for Falling Objects Protective Structure:
 - SAE J231 JAN81
 - ISO 3449-1984

Note

When properly installed and maintained, the cab offered by Caterpillar when tested with doors and windows closed according to ANSI/SAE J1166 MAY90, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture. The operator sound pressure level is 75 dB(A) when measured per ISO 6394 or 86/662/EEC.

Tires

Tubeless, nylon, loader design tires.

Choice of

- 26.5-25, 14 PR (L-2) standard
- 26.5-25, 20 PR (L-3)
- 26.5-R25 GP-2B(L-2/3) radial
- 26.5-R25 XHA (L-3) radial
- 23.5-25, 16 PR (L-2)
- 23.5-25, 16 PR (L-3)
- **23.5-25, 24 PR (L-3)**
- 23.5-R25 GP-2B (L-2/3) radial
- 23.5-R25 XHA (L-3) radial

Note

In certain applications (such as load-and-carry work) 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.

Steering

Full hydraulic power steering.

Ratings

Minimum turning rad	dius	
(over tire)	6779 mm	(22'3")
Steering angle, each	direction	35°

Hydraulic output at 2092 RPM and 6900 kPa (1000 psi)

189 liters/min (50 gpm)

Relief valve setting 20 700 kPa (3000 psi)

Features

- center-point frame articulation
- hydraulic neutralizer steering stops
- dedicated hydraulic steering pump
- front and rear wheels track
- flow-amplified, open-center, pressurecompensated system
- steering-wheel operated metering pump controls flow to steering cylinders
- full-flow filtering
- adjustable steering column

Bucket Controls

Pilot-operated lift and tilt circuits.

Lift circuit features

- four positions: raise, hold, lower and float
- can adjust automatic kickout from horizontal to full lift

Tilt circuit features

- three positions: tilt back, hold, and dump
- can adjust automatic bucket positioner to desired loading angle
- does not require visual spotting

Controls

- two-lever control standard
- optional single-lever control available
- both types of controls available with three-valve hydraulic system

Service Refill Capacities

	L	Gallons
Fuel tank	377	99.6
Cooling system	41	11.0
Crankcase	28	7.3
Transmission	59	15.0
Differentials and final	drives	
front	47	12.4
rear	47	12.4
Hydraulic system		
(including tank)	205	54.2
Hydraulic tank	140	37.0

Operation Specifications

		Generar	pui pose bue	Ket					
Rated bucket capacity		3.8		3.6			3.5		
	yd^3	5.0		4.75			4.5		
		Bolt-on edges	Teeth & segments	Teeth	Bolt-on edges	Teeth & segments	Teeth	Bolt-on edges	Teeth & segments
Struck capacity	m^3	3.25	3.25	3.04	3.18	3.18	2.76	2.91	2.91
	yd ³	4.26	4.26	3.95	4.17	4.17	3.59	3.81	3.81
Width	mm	3059	3107	3107	3059	3107	3107	3059	3107
	in	120	122	122	120	122	122	120	122
Dump clearance at full	mm	2981	2845	2845	2981	2845	2845	3055	2921
lift and 45° discharge	ft/in_	9'9"	9'4"	9'4"	9'9"	9'4"	9'4"	10'0"	9'7"
Reach at full lift	mm	1275	1398	1398	1275	1398	1398	1227	1352
and 45° discharge	ft/in	4'2"	4'7"	4'7"	4'2"	4'7"	4'7"	4'0"	4'5"
Reach at 45° discharge	mm	1832	1892	1892	1832	1892	1892	1814	1883
and 2130 mm (7 ft 0 in) clearance	ft/in	6'0"	6'2"	6'2"	6'0"	6'2"	6'2"	5'11"	6'2"
Reach with lift arms	mm	2583	2764	2764	2583	2764	2764	2493	2674
horizontal and bucket level	ft/in	8'6"	9'1"	9'1"	8'6"	9'1"	9'1"	8'2"	8'9"
Digging depth	mm	82	82	52	82	82	52	82	82
	in	3.2	3.2	2.0	3.2	3.2	2.0	3.2	3.2
Overall length	mm	8303	8506	8506	8213	8506	8506	8213	8416
	ft/in	27'3"	27'11"	27'11"	26'11"	27'11"	27'11"	26'11"	27'7"
Overall height with bucket	mm	5589	5589	5589	5589	5589	5589	5515	5515
at full raise	ft/in_	18'4"	18'4"	18'4"	18'4"	18'4"	18'4"	18'1"	18'1"
Loader clearance circle with	mm	14 722	14 876	14 876	14 722	14 876	14 876	14 674	14 828
bucket in carry position	ft/in	48'4"	48'10"	48'10"	48'4"	48'10"	48'10"	48'2"	48'8"
Static tipping load straight**	kg	14 130	14 372	14 275	14 094	13 960	14 293	14 249	14 056
	lb	31,157	31,690	31,476	31,077	30,782	31,516	31,419	30,993
Static tipping load	kg	12 854	13 057	12 987	12 818	12 684	13 005	12 966	12 772
full 35° turn**	lb	28,343	28,791	28,636	28,264	27,968	28,676	28,590	28,162
Breakout force***	kN	201.0	200.2	215.5	201.1	201.0	215.9	216.6	214.9
	lb	45,187	45,007	48,446	45,209	45,187	48,536	48,693	48,311
Operating weight**	kg	20 732	20 905	20 751	20 725	20 898	20 744	20 672	20 845
	lb	45,714	46,096	45,756	45,699	46,080	45,741	45,582	45,963

General purpose bucket

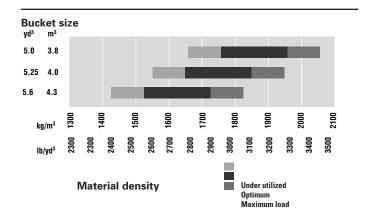
^{*} All buckets shown can be used on high lift arrangement. High lift column shows changes in specifications from standard lift to high lift. Add or subtract as indicated to or from specifications given for appropriate bucket to calculate high lift specifications.

^{**} Static tipping load and operating weight shown include sound-suppression cab and ROPS, 26.5-25 tires, full fuel tank, coolant, lubricants and operator.

^{***} Measured 102 mm (4.0"): behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732c.

	Penetration bucket	Rock bucket		High Lift Arrangement*
3.3 4.25	3.6 4.75	3.5 4.5		same same
Teeth	Teeth	No teeth	Bottom strap teeth	
2.76	3.12	2.94	2.94	same
3.62	4.09	4.51	4.51	same
3107	3128	3085	3085	same
122	123	121	121	same
2921	2769	3016	2801	+600
9'7"	9'1"	9'11"	9'2"	+23.6"
1352	1318	1358	1523	+37
4'5"	4'4"	4'5"	5'0"	+1.5"
1883	1774	1930	1995	+497
6'2"	5'10"	6'4"	6'6"	+19.6"
2674	2786	2616	2877	+465
8'9"	9'2"	8'7"	9'5"	+18.3"
52	52	52	52	same
2.0	2.0	2.0	2.0	same
8416	8491	8311	8630	+576
27'7"	22'10"	27'3"	28'4"	+22.7"
5515	5589	5610	5610	+600
18'1"	18'4"	18'5"	18'5"	+23.6"
14 828	14 880	14 748	14 926	+251
48'8"	48'10"	48'5"	49'0"	+9.9"
14 433	14 184	14 377	14 303	-468
31,825	31,276	31,701	31,538	-1030
13 137	12 898	13 080	13 005	-554
28,967	28,440	28,841	28,676	-1220
233.6	215.1	196.1	197.0	-24.5
52,515	48,356	44,123	44,325	-5,511
20 691	20 810	20 768	20 834	+1202
45,624	45,886	45,793	45,939	+2645

Bucket Size Selector

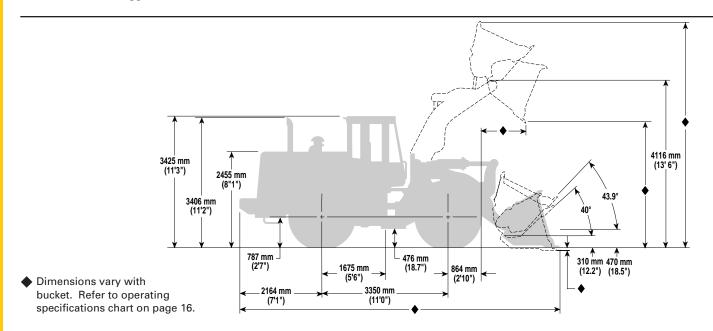


Typical material densities-loose

- •		
	kg/m³	lb/yd³
Basalt	1960	3305
Bauxite, Kaolin	1420	2394
Clay		
natural bed	1660	2799
dry	1480	2495
wet	1660	2799
Clay and gravel		
dry	1420	2394
wet	1540	2596
Decomposed rock		
75% rock, 25% earth	1960	3305
50% rock, 50% earth	1720	2900
25% rock, 75% earth	1570	2647
Earth		
dry, packed	1510	2546
wet, excavated	1600	2698
Granite		
broken	1660	2799
Gravel		
pitrun	1930	3254
dry	1510	2546
dry, 6-50 mm (.2-2")	2690	2849
wet, 6-50 mm (.2-2")	2020	3406
Gypsum		
broken	1810	3052
crushed	1600	2698
Limestone		
broken	1540	2596
crushed	1540	2596
Sand		
dry, loose	1420	2394
damp	1690	2849
wet	1840	3102
Sand and clay		
loose	1600	2698
Sand and gravel		
dry	1720	2900
wet	1840	3102
Sandstone	1510	2546
Shale	1250	2107
Slag		
broken	1750	2950
Stone		
crushed	1600	2698

Dimensions

All dimensions are approximate.



Tread width for all tires 2200 mm (86.6")						
	Width over tires		Ground clearance		Change in vertical dimensions	
	mm	inches	mm	inches	mm	inches
26.5-25, 14 PR (L-2) standard	2942	115.9	476	18.7	_	_
26.5-25, 20 PR (L-3)	2949	116.1	497	19.6	+21	+0.8
26.5-R25 GP-2B (L-2/3) radial	2938	115.6	497	19.6	+21	+0.8
26.5-R25 XHA (L-3) radial	2940	115.7	482	19.0	+6	+0.2
23.5-25, 16 PR (L-2)	2865	112.8	437	17.2	-39	-1.5
23.5-25, 16 PR (L-3)	2862	112.7	434	17.1	-42	-1.7
23.5-25, 24 PR (L-3)	2862	112.7	434	17.1	-42	-1.7
23.5-R25 GP-2B (L-2/3) radial	2875	113.2	438	17.2	-38	-1.5
23.5-R25 XHA (L-3) radial	2877	113.3	419	16.5	-57	-2.2

Supplemental Specifications

	Change in Operating Weight		Change in Articulated Static Tipping Load	
	kg	lb	kg	lb_
Remove cab only, ROPS remains	-177	-390	-150	-331
26.5-25, 20 PR (L-3)	+350	+772	+234	+516
26.5-R25, GP-2B, (L-2/3) radial	+526	+1160	+352	+776
26.5-R25, XHA (L-3) radial	+561	+1237	+376	+829
23.5-25, 16 PR (L-2)	-419	-924	-281	-620
23.5-25, 16 PR (L-3)	-257	-567	-172	-379
23.5-25, 24 PR (L-3)	-130	-287	-88	-194
23.5-R25, GP-2B (L2/3) radial	-103	-227	-69	-152
23.5 R25, XHA (L-3) radial	-19	-42	-13	-29
Tire ballast 23.5-25 bias ply tires	+752	+1658	+1007	+2220
Tire ballast 26.5-25 bias ply tires	+1516	+3342	+2032	+4481

Note: Tire options include tires and rims.

Standard Equipment

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

Alternator (50-amp)
Automatic bucket positioner
Automatic lift kickout
Back up alarm
Batteries (two 12-volt, 100 amp-hour)
Brake system (service, parking, secondary)
Cab with sound suppression, canopy and rollover protective structure (ROPS)

Computerized Monitoring System *
Coolers (engine oil, hydraulic oil and transmission oil)
Diagnostic connector
Drawbar hitch pin

Fenders
Gauges (coolant temperature, fuel
level, tachometer, speedometer)
Heater/defroster/pressurizer
Horn, electric
Indicators (engine air filter and service
hour meter)

Key (single key for cab and access doors) Lights (front and rear), Halogen

Lock (hydraulic implement control levers)

Muffler

Radiator, multi-row modular Rearview mirrors, interior Seat, suspension (fully adjustable)
Seat belt, retractable
Sight gauge (for engine coolant and hydraulic tank)
Starting and charging system (24-volt)
Tires (26.5-25) 14 PR (L-2)
Windshield washers/wipers (front and rear), front intermittent

*Functions analyzed by Computerized Monitoring System

Category I: Fuel level

Category II: Coolant, hydraulic oil and transmission oil temperatures

Category III: Engine oil and brake air pressures, parking brake engaged, supplemental steering if so equipped, low hydraulic oil level indicator.

Optional Equipment

With approximate changes in operating weights.

	kg	lb
Air conditioning (R134a Refrigerant)	73	161
Alternator (75 amp)	0	0
Axle seal guard	10	21
Brake Oil Cooler		
Buckets		see page 16
Cab removed, ROPS remains	-177	-390
Differentials:		
NoSpin	-2	-4
Limited slip	16.8	37
Ether starting aid, canister not included		
Extreme service transmission	18	40
Fender Extension Package		
Flexxaire fan	23	50
Guards:		
Crankcase	45	99
Power train	102	224
Hydraulic arrangement, three valve	91	200
Logging arrangement	130	287
Mirrors, outside mounted	28	62
Millyard and woodchip arrangement	_	_
Payload Measurement System	26	57
Ride Control System	91	200

	kg	lb
Seat, air suspension	32	71
Signal lights, directional	10	22
Single lever bucket controls, lift and tilt	0	0
Starting aids		
Engine coolant heater, 120-volt	1.4	3
Receptacle, 120-volt	1.4	3
Steering, supplemental	122	269
Tires	see p	ages 15 & 18
Waste handling arrangement	_	_
Field installed attachments and kits:		
Guard, crankcase		
Guard, power train		
Engine coolant heater, 120-volt		
Lighting system, warning (rotating be	eacon)	
Mirrors rearview		
Emergency starting receptacle		
Radio, AM/FM cassette		
(fixed mounting and quick release ver	rsions)	
Payload Measurement System kit		
Ride Control kit		
Prelube 42 mt kit	<u> </u>	
Flexxaire fan kit		

966F Series II Wheel Loader

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Materials and specifications are subject to change without notice

AEHQ3801-04 (12-96) (Replaces AEHQ3801-03)