

Stage II Compliant

Cat® 3054C T Turbo Diesel Engine Gross power

Gross power	69 KW/92 hp
Net power	67 kW/90 hp
Operating Weight (standard)	7809 kg
Backhoe Digging Depth	
Standard stick	4854 mm
Extendible stick	5894 mm

Cat 432D Backhoe Loader

The Caterpillar[®] D-Series Backhoe Loader – raising the standards for performance, versatility, and operator comfort.

Pilot Hydraulic Joystick Controls

Excavator style Pilot Hydraulic Joystick Controls are fitted as standard to both the Loader and Hoe controls on all 432D Backhoe Loaders. The low effort controls are easy to use, reduce operator fatigue and greatly improve visibility to the rear. **pg. 4**

Loader Versatility

The Cat parallel loader offers many important advantages.

- Maximum lift and breakout forces
- Divergent lift arms and low-profile hood for maximum visibility to the implement
- Large loader torque tube resists bending and twisting
- Optional self-levelling and return-todig systems for ease of operation
- Optional Quick Coupler provides rapid attachment changes and compatibility with selected Cat Integrated Tool Carrier attachments pg. 5

Operator Station

The D-Series cab interior maintains a high level of visibility whilst achieving a new level of comfort and ease of operation.

- Spacious, stylish operator station
- Convenient personal storage areas
- Four large side windows open 180 degrees to maximise visibility and ventilation on Deluxe Cab
- Low effort, logically placed controls are located within natural reach for operator comfort
- Optional Deluxe Cab arrangement provides additional comfort and features
- Standard air suspension seat for superior ride and operator comfort pg. 6-7

Engine

- Caterpillar 3054C, 67 kW Turbo engine
- Engines meet EU directive 97/68/EC Stage II 97/68/EC emissions regulations
- Durable gear driven water pump
- Thermal starting aid for easier coldweather starting
- Parts commonality with other Cat machines
- Low cost per hour

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- Increased low end torque for better machine performance
- Single fuel filter unit for reduced maintenance costs
- Single location access to service refill points
 pg. 10

ERPi

The Cat 432D – More than a machine. A partner

The D-Series range of Backhoe Loaders provide a wide choice of power, performance and features to suit your needs. The 432D benefits from Pilot Hydraulic Joystick Controls as standard on both the Loader and Hoe. The cab interior further enhances operator comfort, whilst maintaining the high levels of visibility, durability and reliability that Caterpillar Backhoe Loaders have long established in the industry. Ask your Caterpillar Dealer about the 432D. Explore the new D-Series range.

Backhoe Versatility and Performance

- Large-bore boom cylinder for excellent lift capacity
- Heavy-duty boom design for superior strength and balance
- Excavator-style backhoe reaches over obstacles, provides faster, easier truck loading
- 205 degrees of bucket rotation from a single pin location
- Optional backhoe Quick Coupler for additional versatility

pg. 8-9

Load Sensing Hydraulic System

- Power where you need it, when you need it, at any engine speed
- Cat exclusive, high pressure XT hose
- O-ring face seal fittings for reliability
- New pump torque-limiter control maximises power distribution
- 3300 psi (228 bar) system pressure
 pg. 12

Serviceability

Excellent access and fewer maintenance requirements add up to unparalleled ease of service. **pg. 10**

Other Special Features

- Standard All Wheel Drive for maximum manoeuvrability and improved loader performance
- Optional Auto-Shift transmission changes through the selected gear range automatically pg. 11
- Stackable counterweights allow easy adjustment of weight distribution
- Optional spacious lockable tool and battery box provides secure tool storage
- Large 128 liter fuel tank extends operating intervals with improved filler
- Optional Caterpillar Ride-Control system cushions the loader to smooth the ride and increase stability
- Standard All Wheel Braking (AWB) provides increased brake performance

Complete Customer Service

Your Cat dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. The dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement. pg. 13



Pilot Operated Controls

Fitted as standard to the 432D, the low effort pilot hydraulic joystick controls greatly reduce fatigue and increase visibility.



Joystick Controls

Excavator style joystick controls provide smooth modulation and are ergonomically designed for low effort control and operator comfort. The location of the controls naturally position the operator comfortably into the back of the seat.

Pattern Change Valve

The Hoe controls are available in either Excavator or Caterpillar control pattern. An optional pattern changer valve provides the ability to switch between these two patterns in a matter of minutes.

Stabiliser Controls

Cable operated stabiliser controls are standard on the 432D. The low effort controls are mounted on the side console, improving operator comfort and visibility.





Pilot Control Pods

The pods to which the joysticks are mounted can be moved fore and aft and locked in a choice of three operating positions.

Visibility

The pod mounted joystick controls eliminate the need for a rear console. As a result, the operator has unobscured visibility out of the rear of the machine.

Loader

The parallel loader means business – more versatility, more breakout force, more lift capacity.







Loader

The parallel loader provides maximum lift and breakout forces and parallel lift for efficient loading and material handling. An optional return-to-dig system makes operation easy and improves cycle times. The low-profile hood and divergent lift arms enhance visibility to the bucket and forward work area. The second-gear ratio creates an excellent match between the hydraulic system and rimpull for faster truck loading. Available with either General Purpose or the highly versatile Multi-Purpose bucket, the 432D can be configured to meet your needs.

Auto-Shift

On Auto-Shift configured machines, a kick-down switch is incorporated into the Loader lever. The kick-down switch enables the operator to shift down through the gears while maintaining full control of the loader function.

Ride Control

Caterpillar's optional Ride Control system gives operators a smooth ride in all applications, including load and carry, roading or simply moving around the job site. A nitrogen accumulator added to the loader lift circuit cushions the system and reduces loping. The system is engaged by a switch on the front console.



Loader Controls

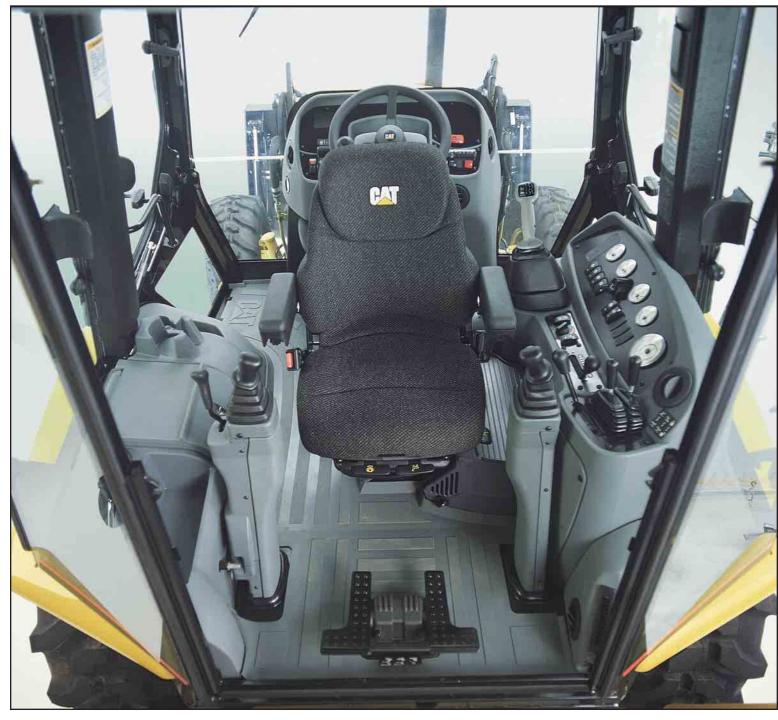
The 432D has a single lever, Pilot Hydraulic Joystick loader control providing proportional control and fine modulation. A thumb control on top of the lever operates auxiliary hydraulic functions, such as the clam bucket.

Quick Coupler

The optional Hydraulic Quick Coupler provides versatility and allows quick connection to a selection of work tools from the Cat family of integrated tool carriers.

Operator Station

Whether you choose the Standard or Deluxe cab package, style, comfort, superb visibility and ease of operation come as standard.



The 432D Cab is Designed for Maximum Comfort and Ease of Operation The D-Series cab interior contains stylish consoles and controls designed for maximum comfort and ease of operation. White faced gauges provide added clarity and styling to each console. A Radio Ready Headliner, lockable storage console and Air Ride Seat are just some of the many standard features.







Rotating Vandal Guard

Designed to deter the opportunist thief/ vandal, the optional rotating vandal guard incorporates the whole gauge panel and the ignition switch, which rotates on its own axis to completely hide it from view. The guard is lockable and provides greater side visibility.

Operator Comfort

The 432D operator station incorporates years of cab design innovations to maximise operator comfort and productivity. The Pilot Hydraulic Joystick controls allow for more leg room and excellent visibility to the rear.

Operator Controls

Low effort, logically placed controls are located within natural reach for maximum operator comfort. Cable operated stabiliser controls are positioned on the side console together with the boom lock lever, improving operator comfort and visibility. The smooth, precise backhoe hydraulic controls are available in a choice of fixed and interchangeable patterns.

HVAC System

The heating, ventilation and optional air conditioning system, supplies numerous ventilation outlets strategically positioned throughout the cab for optimum heating, cooling, de-mist and de-frost performance.

Standard Cab

The 432D standard cab arrangement features an Air Suspension Seat, phone clip, Radio Ready Headliner, lockable storage console with integral drinks holders, two doors and opening rear windows. Standard tinted glass reduces glare, whilst interior sound levels of 78 dB(A) further reduce fatigue.

Deluxe Cab

The Deluxe Cab option packages together an array of additional features, designed to further enhance comfort and ease of operation.

The arrangement consists of

- Deluxe seat with deluxe fabric, lumbar support, head rest, cushion extension and cushion tilt.
- Additional instrumentation including a voltmeter and additional system monitoring indicators.
- Additional features include Tilt Steering Column, eight working lights, Vandal Cover and Sun Visor.
- 4 opening side windows.



Rear Window The re-designed rear window features a heavier hinge structure and positive latch mechanism to hold the window in the open position.



Air Suspension Seat

The Air Suspension Seat utilises an adjustable air cushion mechanism for a smooth comfortable ride. The seat can be tailored to support differing body weights and the adjustable seat height accommodates all operators.

Backhoe Performance

The Cat Excavator-style Backhoe – a proven performer.



Backhoe Boom

The Excavator style boom is a box section fabrication with internal stiffeners for better balance and weight distribution. The curved design provides additional clearance over obstacles while digging a trench or truck loading. The narrow boom enhances the viewing area to the bucket throughout the entire operating range.

Controls

The Excavator style Joystick Controls naturally place the operator comfortably in the back of the seat, reducing fatigue.

Extendible Stick

Dig deeper and reach further with the Caterpillar extendible stick. This optional backhoe attachment replaces the standard stick and increases reach and dig depth by approximately 1.1 meters.

The extendible stick uses selflubricated, non-metallic wear pads for low maintenance and minimal wear. Pads can be shimmed or replaced.

Quick Coupler

The optional mechanical Quick Coupler allows tools to be connected quickly and easily.

Swing Casting

The new swing casting design includes replaceable bushings for improved serviceability.

Narrow Frame

A Narrow Frame option is available on the 432D. When combined with the Narrow Bucket option, the total machine width is reduced to 2262 mm from the standard 2406 mm. When constantly working in regions where machine width is crucial to manoeuverability, the narrow frame option provides a solution.

High Rotation Linkage

All D-Series machines are fitted with the Caterpillar High Rotation Linkage design which provides a staggering 205 degrees of rotation from a single pin position. The high degree of rotation enables deeper vertical wall excavation which simplifies trenching tasks. Working in confined spaces often means digging close to the machine, where high rotation is key to an efficiently completed job.

Backhoe Buckets

Caterpillar backhoe buckets offer superior value in a highly durable product. These buckets provide industry leading features:

- Thick cutting edges.
- A large two-strap tooth adapter distributes the load further back in the bucket and resists breakage.
- The corner adapter is mounted on the side plate for a stronger more durable weld joint. This makes the teeth the widest point on the bucket and greatly increases the amount of wear material on the bucket corners.
- Thick wear material on the side plates provide better reinforcement above the cutting edges.
- An identification plate on all buckets provides bucket specifications, GET sizes, machine compatibility specifications and a unique ID number for tracking purposes.

Backhoe Bucket Combinations

Numerous backhoe bucket combinations are offered to match the toughest work-place applications.

SD (Standard Duty) Bucket

Used in easy to penetrate, low impact, moderately abrasive soils.



HD (Heavy Duty) Bucket

Used for digging fragmented rock, frozen ground and highly abrasive materials.

ES (Extreme Service) Bucket

Used in highly abrasive, high impact materials.

HC (High Capacity) Bucket

Same durable construction as the HD bucket for tough materials but longer tip radius provides increased bucket capacity.



Work Tools A full line of backhoe tools such as hammers, asphalt cutters and more are available from your Caterpillar dealer.

Power Train

Designed for strength, performance and versatility.

Caterpillar 3054 Engine

The 432D is fitted with 3054C 67 kW Turbo engine. The engine is a 4 cylinder, 4 stroke, direct-injection design equipped with glow plug starting aid as standard. The thermal starting aid provides reliable starting down to -26°C. The engine also features a gear driven water pump, providing better reliability than conventional belt driven technology. All Caterpillar backhoe engines meet EU directive 97/68/EC Stage II 97/68/EC regulations.

Closed Circuit Breather

The new optional Closed Circuit Breather eliminates the possiblility of crankcase cases breathing oil deposits on the ground. This means greater versatility on environmentally sensitive jobsites.

Fuel Tank Filler

The new fuel tank filler has been increased in diameter to 76 mm and straightened to allow improved filling. The neck is corrosion protected and is equipped with a lockable black plastic filler cap.

Air Filter

A dry-type, axial seal air filter with automatic, integrated dust ejection system provides more efficient preseparation. Rolled air filters allow consistent linear flow with reduced installation space.

Power-Shuttle Transmission

The Power-Shuttle transmission provides four speed selections in a constant mesh synchronized arrangement. Direction and travel speed can be changed on the move. Gear selection is made with a floor-mounted shift lever.

Axles and Brakes

The rear axle is an enclosed design that allows extended operation even in the harshest environments. Multi-disc, hydraulic brakes are oil immersed and self adjusting.

Auto-Shift Transmission

Work faster with the new optional Auto-Shift transmission. The Auto-Shift transmission provides automatic shifting between five forward and three reverse gears. There is no floor mounted shift lever, so the operator has more cab floor space and better access through the right hand door.

Serviceability

Excellent access and fewer maintenance requirements add up to unparalleled ease of service.

Quick, Easy Access

All daily fluid servicing is done on the left side of the machine. A flip open engine hood provides convenient access to a single location for fluid level checks.

Visual indicators make it fast and easy to check air cleaner and hydraulic oil level. All filters are mounted vertically for spill-free servicing.

Extra system monitoring, included in the Deluxe cab package, provides in-cab indication of a plugged hydraulic filter, water in the separator and air restriction indication.

Reduced Maintenance

Front axle oscillation pin, axles and driveshaft U-joints are sealed and lubricated for life. The new self lubricated wear pads used on the extendible stick provide 80% more life. Stabiliser wear pad life has also been improved by 30%. The new combined fuel filter and water separator reduces servicing costs.

Lockable Tool Box Option

The spacious tool box contains one maintenance-free battery as standard and has ample room for a second optional battery and tools.



5 Speed Auto-Shift Transmission

Automatic shifting through the gears. Simple and effortless gear change.



Introducing the New Auto-Shift Transmission

The optional Auto-Shift transmission automatically matches gears with grade and load conditions.

Select between Manual or Automatic mode

A switch mounted to the front console allows selection between Automatic or Manual mode. In Manual mode, shifting between the gears is achieved by a twist-grip control on the forward-reverse shuttle. Four forward gears and 3 reverse gears are available.

In Automatic mode, the transmission unit will automatically shift up and down the gears, up to the highest gear selected on the twist grip control. An additional 5th forward gear is engaged in Automatic mode for maximum speed and fuel economy.

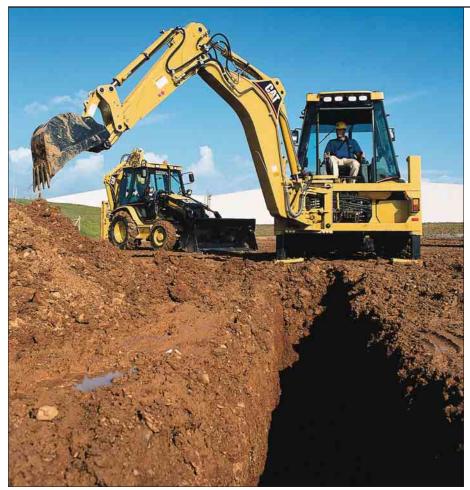


Kick-down

All machines fitted with Auto-Shift have a kick-down switch mounted on the loader lever. Momentarily pressing the switch once causes the transmission to move down a gear. The feature allows the operator to have ultimate control over gear selection, whilst maintaining full hands-on control at all times on the loader lever.

Hydraulics

Load sensing, closed-center system provides power where you need it, when you need it.





1 Reverse Signal System

Pump control changes improve power management between the loader hydraulic system and machine rimpull for faster truck loading. The new reverse signal system provides priority to backhoe hydraulics to maximise hydraulic horsepower.

- **2** Carefully selected hose routings ensure maximum protection from work damage. Should a hose require replacing, it is fast, easy and requires no special tools.
- **3** Caterpillar couplings are equipped with O-ring face seal fittings for long life and less maintenance.

Hydraulics

You don't work at full production all the time – so the Caterpillar variableflow system senses the work demand and adjusts the flow and pressure to match it. This system allows high bucket dig forces whatever the engine speed – providing excellent control for those delicate jobs in confined areas. Also, very importantly, there is less wear and tear on the system.

Caterpillar hydraulic systems are truly load-sensing, with closed-center implement valves. This design provides feedback of the hydraulic system requirements to the pump, delivering the exact flow and pressure needed for the job.

Pressure compensating valves are used to reduce the control-lever effort for less operator fatigue.

XT Hoses

Caterpillar XT hoses are used for high pressure applications to substantially reduce downtime from hose failure. The XT3 hose is made of four overlapping, insulated wire spiral wraps bonded together for unrivalled long life.

Complete Customer Support

Cat dealer services help you operate longer with lower costs.

Services. Your Cat Dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. The dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement, to help you get the best return on your investment.

Product Support. You will find nearly all parts at our dealer parts counter. Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine down time. Save money with remanufactured components.

Service Capability. Whether in the dealer's fully equipped shop or in the field, you will get trained service technicians using the latest technology and tools.

Selection. Make detailed comparisons of the machines you are considering before you buy. How long do components last? What is the cost of preventive maintenance? What is the true cost of lost production? Your Cat Dealer can give you precise answers to these questions.

Purchase. Consider the financing options available as well as day-to-day operating costs. This is also the time to look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.

Operation. Improving operating techniques can boost your profits. Your Cat Dealer has training videotapes, literature and other ideas to help you increase productivity.



Replacement. Repair, rebuild or replace? Your Cat Dealer can help you evaluate the cost involved so you can make the right choice. **Maintenance.** More and more equipment buyers are planning for effective maintenance before buying equipment. Choose from your dealer's wide range of maintenance services at the time you purchase your machine. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as Scheduled Oil Sampling and Technical Analysis help you avoid unscheduled repairs.

Engine

Caterpillar 3054 T turbocharged, direct injection, four cylinder diesel engine.

Ratings at 2200 rpm	kW	hp
Gross Power	69	92

The following ratings apply at 2200 rpm when tested under the specified conditions for the specified standard:

kW	hp
67	90
67	90
105 mm	
127 mm	
4.4	liter
	67 67 105 127

Torque rise (net)

67 kW/90 hp	32%
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Power Rating conditions

- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- No de-rating required up to 2286 m.
 Mosta Stand II FUL Emission
- Meets Stage II EU Emission Directive 97/68/EC.

Features

- Three pistons made of lightweight silicon/aluminium alloy for strength and maximum thermal conducitivity.
- Forged, chrome/molybdenum-steel crankshaft with nitro-carbonised journals.
- Front and rear crankshaft oil seals are 'lip' type Viton and PTFE designs featuring an integral dust lip.
- Heat resistant, silicon-chrome steel intake and STELLITE-faced exhaust valves are used for long engine life.

- Cylinder block is high strength cast iron alloy of deep-skirt, monobloc design for increased strength and long life.
- Cylinder head is high strength, cast iron alloy construction with extra duty wall and deck thickness. Intake and exhaust ports are precision cast to promote optimum gas flow.
- Direct injection fuel system provides accurate fuel delivery. Self priming electric lift pump for improved cold start capability. One filter fuel system for reduced maintenance costs.
- High low engine torque for better machine performance.
- Dry-type, axial-seal, air cleaner with automatic, integrated dust ejection provising more efficient preseparation.
- Direct electric 12 volt starting and charging system with 750 CCA Group 31 maintenance free battery.

Hydraulic System

Load-sensing, closed-center system.

Variable-flow, closed-center, load-sensing system provides full hydraulic force to cutting edges at all engine speeds. Provides low fuel consumption and low effort controls.

Closed-center
Variable-flow,
axial-piston
163 l/m at 2200 rpm
228 bar

Steering

Full hydrostatic steering.

Full hydrostatic steering controlled by a hand-metering unit. Secondary steering system available to meet roading regulations in various countries and to meet ISO 5010.

Туре	Front wheel		
Power Steering	Hydrostatic		
Cylinder, one (1) double-acting			
Bore	65 mm		
Stroke	240 mm		
Rod diameter	36 mm		

Turning Circle

Inner wheel not braked	
Outside front wheels	8.1 m
Outside widest loader bucket	10.7 m

Brakes

Fully enclosed, hydraulic, multiple discs.

Features

- Inboard oil-immersed, hydraulicallyactuated multiple discs on final drive input shaft.
- Completely enclosed and sealed.
- Self-adjusting.
- Foot-operated brake pedals can be interlocked for roading.
- Parking/secondary brakes are independent of the service brake system. Parking brake is mechanically applied through a hand lever located in the right side console.

Meets ISO 3450:1996 requirements.

Operator Station

ROPS is standard.

ROPS (Roll Over Protective Structure) offered by Caterpillar for this machine meets ROPS criteria ISO 3471: 1994. It also meets FOPS (Falling Object Protective Structure) criteria ISO 3449: 1992.

Sound

The operator sound pressure level as measured according to the dynamic test procedure and conditions specified in ISO 6396 or 95/27/EC and the exterior sound power level as measured according to the dynamic test procedure and conditions specified in ISO 6395 are as follows:

67 kW (90 hp)	dB(A)
Interior (ISO 6396)	78
Exterior (ISO 6395)	105

Transmission

Caterpillar Power-Shuttle transmission or optional Auto-Shift.

The standard Power-Shuttle transmission provides four speed forward and reverse, full synchromesh in all gears. Constant mesh gears on all ratios permit on-the-go shifting of all gears, up or down. Neutral start provision prevents starting while shuttle is engaged. Torque convertor free-wheel clutch allows the convertor stator to free-wheel during high speed, low-load conditions, such as roading.

Transmission disconnect

Hand operated power disconnect for easy, on-the-go shifting and full engine rpm for faster cycle times.

Forward/Reverse electric power shuttle

Conveniently placed, hand operated lever provides instant direction changes between forward and reverse through power hydraulic clutches.

Auto-Shift option

The optional Auto-Shift transmission automatically matches gears with grade and load conditions. Manual mode gives full gear selection to the operator for operation as Power-Shift transmission.

Torque convertor

Single stage, 2.63:1 stall ratio.

Travel Speeds

Travel speeds of All Wheel Drive backhoe loader at full throttle, when equipped with 16.9x28 rear tires.

	Power Shuttle	Auto-Shift
	(standard)	(optional)
Forward		
1st	5.7 km/h	5.3 km/h
2nd	9.1 km/h	8.4 km/h
3rd	18.7 km/h	11.0 km/h
4th	31.8 km/h	17.5 km/h
5th	_	29.4 km/h
Reverse		
1st	5.7 km/h	5.3 km/h
2nd	9.1 km/h	11.0 km/h
3rd	18.7 km/h	21.4 km/h
4th	31.8 km/h	_

Axles

All Wheel Drive is standard.

Features

- Heavy-duty rear axle with selfadjusting inboard brakes, differential lock and final drives.
- Standard All Wheel Drive (AWD) is engaged by front console panel switch or by brake pedal during all-wheelbraking operation. AWD can be engaged on-the-go, under load, in any gear, forward or reverse. Features outboard planetary gear final drives.
- Front axles are pendulum mounted and permanently lubricated, requiring no daily maintenance. Also features

double-acting steering cylinder with 50 degree steering angle for increased manoeuvrability. Oscillation 11 degrees each direction from the centerline.

Axle Ratings

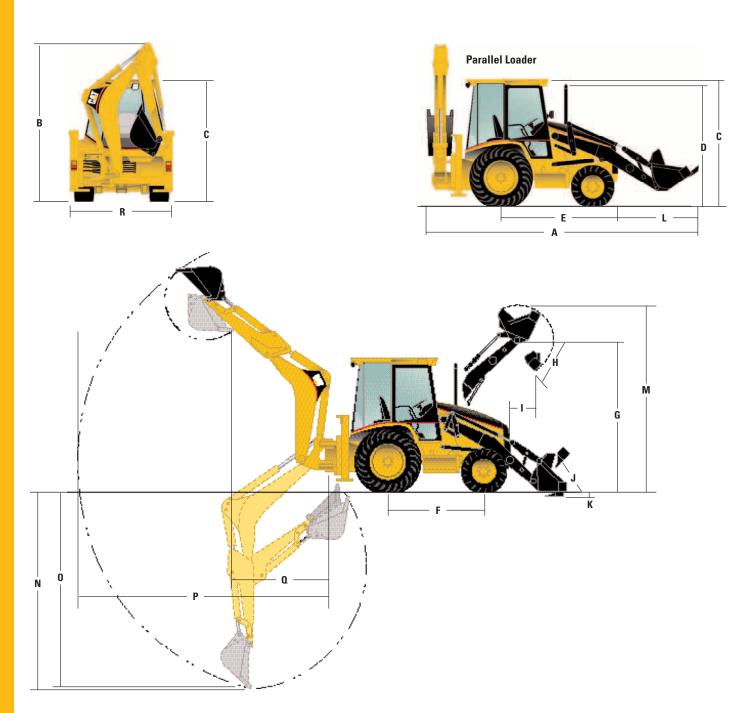
Front axle, all-wheel-drive	
Static	22 960 kg
Dynamic	9184 kg
Rear axle	
Static	27 770 kg
Dynamic	9260 kg

Service Refill Capacities

	Liters
Cooling System	14.3
Fuel tank	128.0
Engine with oil filter	7.3
Transmission	
Power Shuttle AWD	18.0
Auto-Shift AWD	15.0
Rear Axle	24.0
Front Axle AWD	11
Planetaries	0.7
Hydraulic System	79.0
Hydraulic Tank	38.0

Machine Dimensions

	Parallel Loader		
	General Purpose	Multi Purpose	
A Overall transport length	5760 mm	5685 mm	
Overall length (loader on ground)	5710 mm	5650 mm	
B Overall transport height (standard stick)	3740 mm	3740 mm	
Overall transport height (extendible stick)	3740 mm	3740 mm	
Overall width (Standard frame)	2396 mm	2406 mm	
Overall width (Narrow frame)	2262 mm	2262 mm	
C Height to top of cab	2900 mm	2900 mm	
D Height to top of exhaust stack	2700 mm	2700 mm	
Height to loader hinge pin (transport)	520 mm	570 mm	
Ground clearance (minimum)	320 mm	320 mm	
E Rear axle centerline to front grill	2613 mm	2613 mm	
Front wheel tread gauge	1780 mm	1780 mm	
Rear wheel tread gauge	1714 mm	1714 mm	
F Wheel based (AWD)	2100 mm	2100 mm	



Loader Bucket Dimensions and Performance (Narrow)

	Parallel Loader		
	General Purpose	Multi Purpose	
Capacity (SAE rated)	0.96 m ³	0.96 m ³	
Width	2262 mm	2262 mm	
Lift capacity at maximum height	3468 kg	3232 kg	
Breakout force	51.0 kN	56.6 kN	
Maximum hinge pin height	3321 mm	3321 mm	
Dump angle at full height	47°	47°	
Dump height at maximum angle	2613 mm	2650 mm	
Dump reach at maximum angle	764 mm	685 mm	
Maximum bucket rollback at ground level	40°	40°	
Digging depth	77 mm	108 mm	
Maximum grading angle	111°	114°	
Width of dozer cutting edge	-	2406 mm	
Grill to bucket cutting edge, carry position	1520 mm	1505 mm	
Maximum operating height	4201 mm	4229 mm	
Jaw open maximum	-	927 mm	
Bucket jaw clamping force	-	56.2 kN	
Weight (not including teeth or forks)	426 kg	547 kg	
	Width Lift capacity at maximum height Breakout force Maximum hinge pin height Dump angle at full height Dump height at maximum angle Dump reach at maximum angle Maximum bucket rollback at ground level Digging depth Maximum grading angle Width of dozer cutting edge Grill to bucket cutting edge, carry position Maximum operating height Jaw open maximum Bucket jaw clamping force	General PurposeCapacity (SAE rated)0.96 m³Width2262 mmLift capacity at maximum height3468 kgBreakout force51.0 kNMaximum hinge pin height3321 mmDump angle at full height47°Dump height at maximum angle2613 mmDump reach at maximum angle764 mmMaximum bucket rollback at ground level40°Digging depth77 mmMaximum grading angle111°Width of dozer cutting edge, carry position1520 mmJaw open maximum–Bucket jaw clamping force–	

Loader Bucket Dimensions and Performance (Standard)

		Parallel Loader		
		General Purpose	Multi Purpose	
	Capacity (SAE rated)	1.0 m ³	1.03 m ³	
	Width	2396 mm	2406 mm	
	Lift capacity at maximum height	3388 kg	3152 kg	
	Breakout force	50.2 kN	55.7 kN	
G	Maximum hinge pin height	3321 mm	3321 mm	
Η	Dump angle at full height	47°	47°	
	Dump height at maximum angle	2613 mm	2650 mm	
I	Dump reach at maximum angle	764 mm	685 mm	
J	Maximum bucket rollback at ground level	40°	40°	
K	Digging depth	77 mm	108 mm	
	Maximum grading angle	111°	114°	
	Width of dozer cutting edge	-	2406 mm	
L	Grill to bucket cutting edge, carry position	1520 mm	1505 mm	
N	Maximum operating height	4201 mm	4229 mm	
_	Jaw open maximum	-	927 mm	
	Bucket jaw clamping force	-	56.2 kN	
_	Weight (not including teeth or forks)	445 kg	685 kg	

Backhoe Dimensions and Performance

Dacking Dimensions and Lenounguice		Extendi	le Stick	
	Standard Stick	Retracted	Extended	
N Digging depth, manufacturers maximum	4854 mm	4916 mm	5894 mm	
0 Digging depth, 610 mm flat bottom	4850 mm	4855 mm	5865 mm	
P Reach from swing pivot at ground line	5637 mm	5692 mm	6664 mm	
Loading height	3712 mm	3730 mm	4274 mm	
Q Loading reach	1742 mm	1829 mm	2747 mm	
Swing arc	180°	180°	180°	
Bucket rotation	205°	205°	205°	
R Stabiliser width (Standard frame)	2360 mm	2360 mm	2360 mm	
Stabiliser width (Narrow frame)	2196 mm	2196 mm	2196 mm	
Bucket dig force	65.4 kN	64.8 kN	64.8 kN	
Stick dig force	38.2 kN	37.5 kN	27.0 kN	
Total side shift travel (Standard frame)	1260 mm	1260 mm	1260 mm	
Total side shift travel (Narrow frame)	1096 mm	1096 mm	1096 mm	

Buckets

Standard-Duty bucket with weld-on adapters and pin-on teeth							
Width	inch/mm	1	2/305	18/457	24/610	30/762	36/914
Capacities SAE rated	liter		78	118	175	233	292
Weight	kg		97	115	132	147	165
Number of teeth			3	4	5	5	6
Heavy-Duty bucket with	n weld-on ac	lapters a	nd pin-c	on teeth			
Width	inch/mm	12/305	16/406	18/457	24/610	30/762	36/914
Capacities SAE rated	liter	78	105	118	175	233	292
Weight	kg	105	127	129	151	167	189
Number of teeth		3	3	4	5	5	6
High-Capacity bucket v	vith weld-on	adapter	s and pi	n-on tee	th		
Width	inch/mm			18/457	04/610		
				10/437	24/610	30/762	36/914
Capacities SAE rated	liter			18/437	24/610	30/762 320	
Capacities SAE rated Weight	liter kg						380
				180	240	320	380 214
Weight	kg	on adap		180 146 4	240 171 5	320 195	380 214
Weight Number of teeth	kg	on adap	ters and	180 146 4	240 171 5	320 195	380 214 6
Weight Number of teeth Extreme-Service bucke	kg t with weld-	on adap	ters and	180 146 4 pin-on t	240 171 5 eeth	320 195 5	380 214 6 30/762
Weight Number of teeth Extreme-Service bucke Width	kg et with weld- inch/mm	on adap	ters and	180 146 4 pin-on t 12/305	240 171 5 eeth 18/457	320 195 5 24/610	36/914 380 214 6 30/762 189 177

Tires

Tubeless, nylon, loader design tires.

Parallel Loader (AWD)

	(AVVD)		
Front		Size	Ply Rating
Caterpillar		12.5/80	10
Michelin ¹⁾	(XM37)	335/80Rx18	R
Goodyear ¹⁾	(IT520)	340/80Rx18	R
Goodyear ¹⁾	(IT530)	340/80Rx18	R
Goodyear ²⁾	(SGL)	12.5/80Rx18	10
Goodyear ²⁾	(SGI)	12.5/80Rx18	10
Rear			
Caterpillar		18.4-26	12
Caterpillar		16.9-28	12
Goodyear ³⁾	(ISG R4)	16.9x28	10
Goodyear ²⁾	(ISG R4)	16.9x28	12
Goodyear ²⁾	(ISG)	18.4/15x26	12
Michelin ¹⁾	(XM37)	16.9xR28	R
Goodyear ¹⁾	(IT520)	16.9xR28	R
Goodyear ¹⁾	(IT530)	440/80xR28	R
Michelin ¹⁾	(XM37)	18.4/15xR26	R

¹⁾ Valve stem protection (VSP) included.

²⁾ Valve stem protection (VSP) available.

³⁾ Not for use with extendible stick.

Weights

Standard parallel lift machine with 1.0 m³ general purpose loader bucket, 610 mm standard duty backhoe bucket, 80 kg operator and a full fuel tank.

	kg
Operating weight (range)	7597-9800
Standard machine weight	7809
Auto-Shift	38
Air conditioning	45
Multi-purpose bucket 1.03 m ³	
With fold-over forks	412
Without fold-over forks	242
Quick Coupler	200
Extendible stick	
(excludes front counterweight)	240
Counterweights	
Base	145
Stackables – Three (each)	105
Stackables – One	215

Minimum Counterweight Recommendations:

Standard Stick

Parallel Lift	
General Purpose	355 kg
Multi Purpose	Bumper
Multi purpose with	
fold-over forks	Bumper
Parallel Lift with Quick Coupler	
General Purpose	Bumper
Multi Purpose	Bumper
Multi purpose with	
fold-over forks	Bumper
Extendible Stick	
Parallel Lift	
General Purpose	460 kg
Multi Purpose	250 kg
Multi purpose with	
fold-over forks	Bumper
Parallel Lift with Quick Coupler	
General Purpose	250 kg
Multi Purpose	Bumper
Multi purpose with	
fold-over forks	Bumper
Pumper is 16 kg and standard with all units	

Bumper is 16 kg and standard with all units. Total gross vehicle weight not to exceed 9800 kg.

Standard Equipment

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

Air cleaner, dry type, axial seal with precleaner and filter condition indicator All Wheel Drive Alternator, 120-amp, 12 volt Antifreeze (to -37°C) Audible system fault alarm Backhoe, 4854 mm dig depth, side-shift, excavator-style backhoe, Pilot Hydraulic Joystick Controls Battery, maintenance free, 750 CCA Boom, transport lock Brace, lift cylinder Brakes, oil disc Cable stabiliser controls Caterpillar 3054C T turbocharged diesel engine (67 kW) Coat hook Differential lock Dome light Drinks holder Electro-hydraulic slide frame, lock release Engine enclosure Fan, suction and fan guard Fast reversing shuttle, all gears Flashing hazard/signal lights

Floor mat Front axle, pendulum mount Front grill with bumpers Front headlights Front and rear windshield wipers Front windshield washer Gauges: Coolant temperature, fuel level, tachometer, hour meter, torque convertor, oil temperature Ground line fuel fill with 128 liters capacity Grouser style stabiliser shoes Headliner, radio ready Hydraulic oil cooler Indicators: Air cleaner service, brake on, engine coolant, hydraulic oil level sight gauge, oil pressure Instrument panel lights Key start/stop system with auxiliary position Left/right side doors with locks Lifting eye, backhoe Lights, working (2 front, 2 rear) Load sensing, variable flow system with axial piston pump

Loader, parallel lift with transmission disconnect switch on single Pilot Hydraulic Joystick Control Mirrors, external (2) Power receptacle, 12 V (2) Power steering, hydrostatic ROPS cab with heater, defroster, pressuriser and cab recirculating fan Seat belt, retractable (50 mm) Seat, air suspension with fabric or vinyl seat cover and armrests Spin-on fuel, engine, hydraulic and transmission oil filters Starting system, thermal aid Storage compartment, internal Stop and tail lights (2) Swing transport lock Tires Torque convertor Throttles, hand and foot Transmission, four-speed synchromesh Transmission neutraliser switch Warning horn, front electric Water separator

Optional Equipment

With approximate change in operating weight.

	kg
Air conditioning	45
Alarm, back up	1
Attachments, front loader (parallel)	
Quick Coupler (hydraulic)	200
General purpose bucket 1.0 m ³	545
Multi purpose bucket 1.03 m ³	700
1.03 m ³ with forks	870
Forks (with Quick Coupler)	
1043 mm	430
1220 mm	445
1346 mm	460
Attachments, backhoe buckets see	pg.18
Quick Coupler (Mechanical)	75
Battery, additional	27
Counterweights	
Bumper	16
Base	145
Stackables three (each)	105
Stackables one	215
Cutting edge bolt on	

	kg
Single piece	85
Two piece	70
Ecology drain plugs	_
Fenders, front, All Wheel Drive	50
Guards	
AWD driveshaft	29
Teeth (GP/MP)	45
Rear lights, roading	3
High ambient cooler package	2
Hydraulic valves, loader	
3rd valve for GP/MP	12
Hydraulic valves (auxiliary)	
Standard stick	5
Extendible stick	5
Hydraulic lines	
Universal high flow to stick	45
Quick disconnects	2

	kg
Lights	
Number plate, rear	_
Roading	15
Working, additional (2 front, 2 real	r) 3
Loader, retun to dig	5
Mirror, exterior rearview, large	1
Operators station	
Deluxe	12
Ride control	25
Rotating beacon	5
Seat belt 75 mm	_
Stabiliser street pads (set of 4)	37
Stick, extendible	245
Tilt steering wheel	4
Tool box, external	3
Transmission Auto-Shift	25
Transport locks	7
Vandalism protection	3
Visor cab	_

Cutting edge, bolt on

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Caterpillar dealer for available options.

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