424BBackhoe Loader





Engine Gross Power	57 kw / 76 hp
Engine Flywheel Power	50 kw / 67 hp
Operating weight	7960 kg
Backhoe digging depth	4854 mm

Engine

KOEL / 4R -1040 T Turbo Charged, direct injection, four cylinder diesel engine.

Ratings at 2200 rpm	kW	hp
Gross Power	57	76
Net Power	50	67
Net Power		
Dimensions		

Bore	105	mm
Stroke	120	mm
Displacement	4.16	liters

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.

Туре	Closed-center
Pump type	Variable flow
	axial-piston
Pump capacity	138 lpm
System pressure	207 bar

Steering

Full hydrostatic steering controlled by a handmetering unit.

Туре	Front wheel
Power steering	Hydrostatic
Cylinder, one (1) double-acting	
Bore	55 mm
Stroke	245 mm
Rod diameter	30 mm

Turning Circle

Outside front wheels	8.1 m
Outside widest loader hucket	10 8 m

Brakes

Fully enclosed, hydraulic, multiple discs.

Features

- Inboard oil-immersed, hydraulically actuated multiple discs on final drive input shaft.
- Completely enclosed and sealed.
- Self-adjusting.
- Foot-operated brake pedals can be interlocked for roading.
- Parking brake is mechanically applied through a hand lever located in the right side console.

Transmission

Cat Power-Shuttle transmission

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 converter free-wheel clutch allows the converter stator to free-wheel during high speed, low-load conditions, such as roading

Torque Converter

Single stage, 2.63: 1 stall ratio

Travel Speeds (when equipped with 16.9 x 28 rear tires) Forward

1 OI Walu	
1 st	5.8 km/h
2 nd	9.3 km/h
3 rd	19.3 km/h
4 th	32.4 km/h

Reverse	
1 st	5.8 km/h
<u>2nd</u>	9.3 km/h
<u>3rd</u>	19.3 km/h
4 th	32.4 km/h

Axles

Standard two-wheel drive

Features

- . Heavy-duty rear axle with self-adjusting inboard brakes and final drives.
- Pendulum mounted front axle features permanently sealed and lubricated pivotal pin, double acting steering cylinder with 46° steering angle for increased maneuverability. Oscillation 9° each direction from centerline.

Service Refill Capacities Buckets

	Liters
Cooling system	18.0
Fuel tank	128.0
Engine with oil filter	12.0
Transmission	19.0
Rear Axle	17.0
includes planetary	
Hydraulic system	79.0
Hydraulic Tank	38.0

Tires Standard:

Front Tubed, 9 x 16 - 16 PR Rear Tubed, 16.9 x 28 - 12 PR

Optional:

Rear (Heavy Duty) Tubed, 14 x 25 – 20 PR

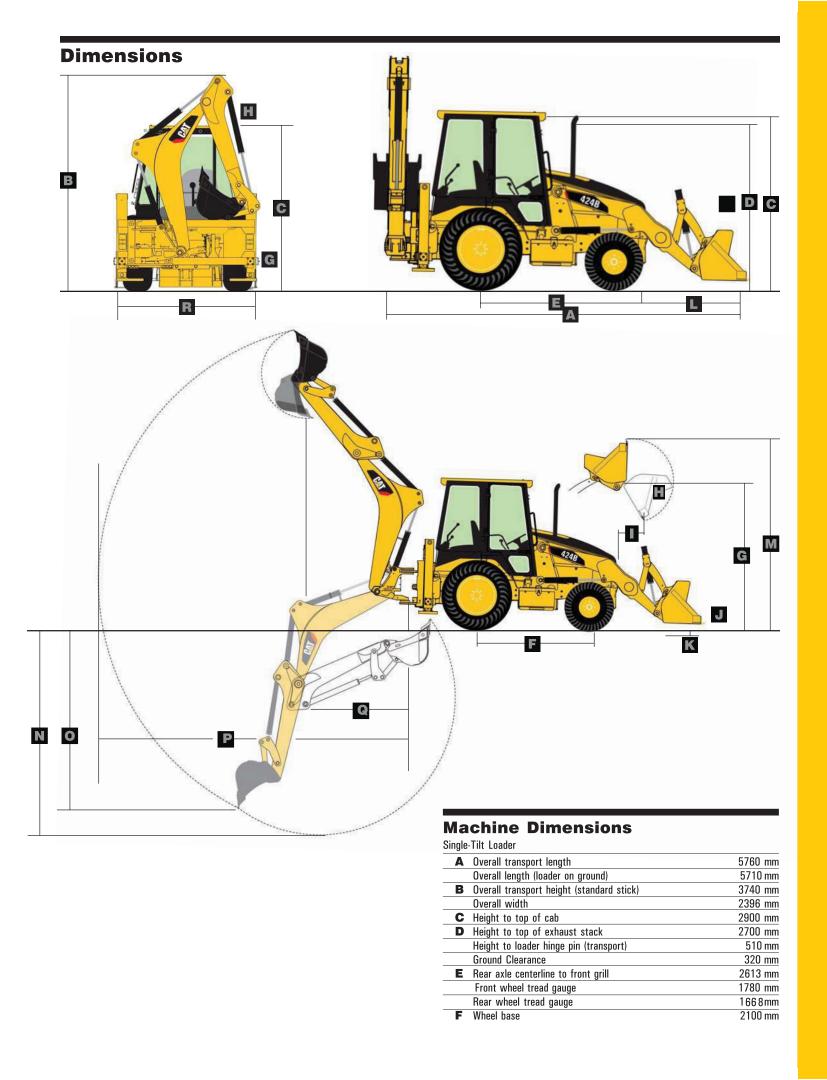
Loader		
general purpose	1.0	m ³
Backhoe (Digger)		
standard duty	0.23	m ³
width	762	mm
capacity (SAE)	233	liter

Weights

Standard single tilt loader with 1.0 m³ general purpose loader bucket, 0.23 m³ backhoe bucket, 80 kg operator and a full fuel tank.

Standard machine weight

7960 kg



Loader Bucket Dimensions and Performance

		Single-Tilt Loader
		General purpose (Basic)
	Capacity (SAE rated)	1.0 m3
	Width	2396 mm
	Lift capacity at maximum height	2416 kg
	Breakout force	38.9 kN
G	Maximum hinge pin height	3321 mm
Н	Dump angle at full height	43°
	Dump height at maximum angle	2633 mm_
	Dump reach at maximum angle	794 mm
J	Maximum bucket rollback at ground level	40°
K	Digging depth	78 mm_
	Maximum grading angle	109°
	Width of dozer cutting edge	
L	Grill to bucket cutting edge, carry position	1520 mm
M	Maximum operating height	4201 mm

Backhoe Dimensions and Performance - 0.12, 0.23, 0.30 Cu.M Buckets

N	Digging depth, manufacturer's maximum	4854 mm
0	Digging depth, 610 mm flat bottom	4850 mm
Р	Reach from swing pivot at ground line	5637 mm
	Loading height	3712 mm
0	Loading reach	1742 mm
	Swing arc	180°
	Bucket rotation	205°
R	Stabilizer width	2360 mm
	Bucket dig force	52.1 kN
	Stick dig force	34.9 kN
	Total side shift travel	1260 mm

Standard Equipment

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

Alarm backup Air cleaner, dry type with precleaner and filter condition indicator Alternator, 90-amp, 12 volt Backhoe, 4854 mm dig depth, side-shift,

excavator-style backhoe 2 lever control

Battery

Boom, transport lock Brace, lift cylinder Brakes, oil disc

Bucket, loader, general purpose - 1.0 m³ Bucket, digger - As per selection

Cabin with Fan

Electro-hydraulic slide frame, lock release

Engine enclosure

Fan, suction and fan guard Fast reversing shuttle, all gears Flashing hazard/signal lights

Front axle, pendulum mount

Front grill Front headlights Front windshield wiper

Gauges: Coolant temperature, fuel level, tachometer, hour meter, torque

convertor oil temperature

Ground line fuel fill with 128 liters capacity

Grouser style stabilizer shoes High ambient cooler package 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 and Right side door with lock Lights, Working (2 front, 4 rear)

Load sensing, variable flow system with

axial piston pump

Mirrors, External (1) Internal (1) KOEL / 4R -1040 T Turbo Charged Power steering, hydrostatic

Stabilizer controls Seat with seat belt

Spin-on fuel, engine, hydraulic and transmission oil filters

Standard toolkit Stop and tail lights (2) Swing transport lock Torque convertor Throttles, hand and foot

Transmission, four-speed synchromesh Transmission neutralizer switch Warning horn, front electric

Water separator

AEHQ5857 (05-11)

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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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