

New!

424B2

Backhoe Loader

**MADE
FOR YOU**

Lower fuel,
Higher savings.

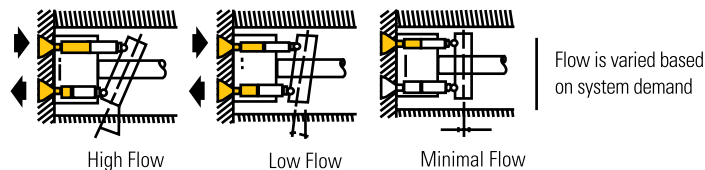
BUILT FOR IT.™





Hydraulics

- Load Sensing Closed center system.
- At any engine rpm, Flow is varied based on system demand – high demand (hoe loading) – high flow, low demand (load & carry/digging) – low flow, minimal demand (road marching) – minimal flow.
- Flow is varied by varying swash plate angle of axial piston pump.
- Optimal load on engine and lower fuel consumption



Power Train

- Kirloskar engine gives better fuel efficiency, lower maintenance.
- New front axle with improved steering geometry, equal steering and increased wheel tread. This gives lower steering effort, good steering performance and higher stability

Reliability and Durability

- HD boom with internal reinforcement and strengthened with increased plate thickness on all sides
- HD rear axle with increased torque capacity results in lower load on axle even in aggressive application
- Steel casted pins and bushes gives longer life
- Tested and proved loader structures, hydraulics, engine and drive train
- All these gives very high reliability and durability



Performance

- Excavator style boom has better reach over obstacles and assist in easy and smooth loading of high body trucks.
- Boom-stick-bucket is designed with perfect geometry which aids well for digging
- 205 degree hoe bucket rotation gives better heap capacity
- Superior rimpull delivers excellent dozing performance

Servicing

- Optimal refill capacities result in lower maintenance cost.
- All servicing points are kept at convenient locations.
- Battery is kept at safe location.
- Flip open hood gives full access to the engine.

Operator Station

- Cabin is reinforced with strengthened doors and windows with additional metal layer.
- Suspension seat as standard with better lumbar support.
- Spacious cabin with excellent all around visibility.
- Ergonomically designed hoe levers which are interchangeable from 'X' to '+'.
 - Changing levers from one to another is simple, easy and quick.
 - New rotatable ball joint in the hoe lever linkage, lowers operating effort and gives better comfort.

Engine

KOEL 4R 1040T – Turbo Charged, Direct Injection, Four Cylinder Engine

Ratings at 2200 rpm	kW	hp
Gross Power	56	76
Dimensions		
Bore	105 mm	
Stroke	120 mm	
Displacement	4.16 liters	

Weights

Operating Weight(estimated) 7700 kg
 Operating Weight(maximum) 7911 kg
 Standard single tilt loader with 1.1 m³ general purpose loader bucket,
 0.24 m³ backhoe bucket, 80 kg operator and a full fuel tank.

Service Refill Capacities

Cooling System	15.0 L
Fuel Tank	128.0 L
Engine with oil filter	12.0 L
Transmission	7.0 L
Rear axle including planetary	17.0 L
Hydraulic Tank	38.0 L

Hydraulic System

Fuel Saving- Load Sensing closed center system
 The Hydraulic System consists of a 38 litre capacity plastic hydraulic tank with a variable displacement pump, closed centre backhoe control valve and loader control valve with steering priority valve and output device cylinders.

Pump Type	Axial Piston Variable flow
Pump Capacity @ 2200 rpm	115 lpm
System Pressure	235 bar Loader 245 bar Backhoe

Buckets

Loader side	
standard or general purpose	1.1 m ³
Backhoe side	
Standard Bucket	0.24 m ³
High Production	0.27 m ³
Trench Bucket	0.12 m ³
Soft Soil	0.30 m ³

Transmission

Cat® Power-Shuttle transmission.

The gear ratios are engineered to deliver higher rimpull in 1st and 2nd gear. This ensures better loading and dozing performance.

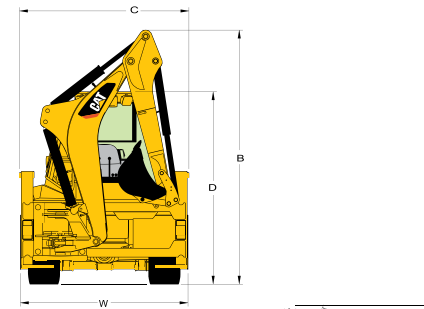
Torque Converter

Single Stage, 2.53:1 – Stall ratio

Travel Speed (when equipped with 16.9 X 28 Rear Tires)

Gear	Forward	Reverse
1st	6.2 km/h	6.2 km/h
2nd	10.2 km/h	10.2 km/h
3rd	23.6 km/h	23.6 km/h
4th	38.3 km/h	38.3 km/h

Dimensions



Machine Dimensions

Single Tilt Loader

A Overall transport length	5698 mm
Overall length (loader on ground)	5756 mm
B Overall transport height (standard stick)	3726 mm
C Overall width	2448 mm
D Height to top of cab	2877 mm
E Height to top of exhaust stack	2718 mm
Ground Clearance	396 mm
F Rear axle centreline to Loader bucket on the ground	4043 mm
Front wheel tread gauge	1855 mm
Rear wheel tread gauge	1668 mm
G Wheel base	2081 mm

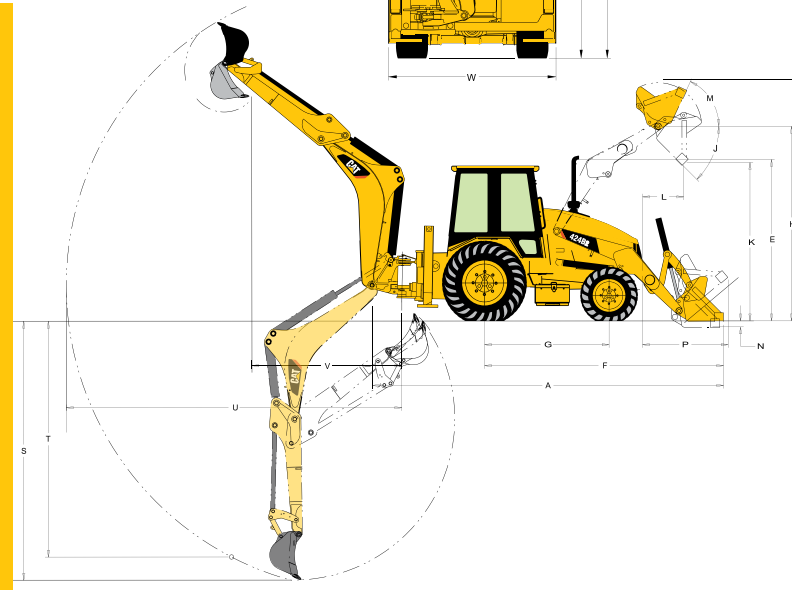
Loader Bucket Dimensions

Single Tilt Loader General Purpose (Basic)	
Capacity (SAE rated)	1.1 m ³
Lift capacity at maximum height	2642 kg
Breakout force	42.0 kN
H Maximum hinge pin height	3323 mm
J Dump Angle at full height	44°
K Dump Height at maximum angle	2632 mm
L Dump reach at maximum angle	837 mm
M Maximum bucket rollback at ground level	37°
N Digging Depth	85 mm
Maximum Grading Angle	109°
P Grill to bucket cutting edge, carry position	1510 mm
R Maximum operating height	4278 mm

Backhoe Dimensions

S Maximum Digging depth	4810 mm
T Digging depth, 610mm flat bottom	4773 mm
U Reach from swing pivot at ground line	5625 mm
Loading height	3975 mm
V Loading reach	1556 mm
Swing arc	180°
Bucket rotation	205°

W Stabilizer width	2423 mm
Bucket dig force	56.5 kN
Stick dig force	34.9 kN
Total side shift travel	1218 mm



Steering

Fully hydrostatic equal steering, with double acting double end rod cylinder.

Turning Circle

Outside front wheels	9.32 m
Outside widest loader bucket	11.96 m

Brakes

Fully enclosed, hydraulic, multiple discs.

Axles

Standard two-wheel drive

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
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Standard Equipment

(Standard and Optional Equipment may vary. Consult your Cat dealer for specifics)

Alarm backup, Air Cleaner, dry type with pre cleaner and filter condition indicator, Alternator, 90 amp, 12 volt
 Battery, Boom, transport lock, Brace, lift cylinder, Brakes, oil disc, Bucket, loader, general purpose-1.1 m³
 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 converter, oil temperature Ground line fuel fill with 128 liters capacity, Grouser style stabilizer shoes
 High Ambient cooler package, Hydraulic oil cooler, Hand Primer
 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), Fog Lamps 2 No. s, Load sensing, variable flow system with axial piston pump
 Mirrors, External (1) Internal (1)
 KOEL/4R-1040 T Turbo Charged Engine
 Power Steering, hydrostatic
 Recovery Bottle
 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 converter, Throttles, hand and foot, Transmission, four -speed synchromesh, Transmission neutralizer switch, Transmission oil cooler
 Warning horn, front electric, Water separator

"Optional"

Product Link, PL 240

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

