

बी ई एम एल लिमिटेड

BEML LIMITED

A Govt. of India Miniratna Company Under Ministry of Defence

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Form No. BL9H/002/07/2013

BL9H

BACKHOE LOADER

- More Productivity
- Powerful & BS III Compliant Economical Engine
- Easy Manueverability
- Easy Maintenance
- More Operator Comfort
- More Reliability



For BL9H(4x2)	
Operating Mass	: 7600 Kg
Gross Power	: 57 kW (76hp) @ 2200 r/min

For BL9H(4x4)	
Operating Mass	: 7700 Kg
Gross Power	: 72 kW (96 hp) @ 2200 r/min

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BEML LIMITED

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Loader From BEML :

BL9H

BL9H(4X4)

BI9

BL200-1

BL120H

BL9H

BACKHOE LOADER

Salient Features :

Productivity

Proven diesel engine, torque converter with full power shift transmission giving four forward and three reverse speeds, fully oscillating steerable front axle and rigidly fixed heavy duty planetary rear axle with hub reduction.

Powerful BS III Compliant Economical Engine

Koel Diesel Engine delivers 57 kW (76 hp) - (4x2)
BEML Diesel Engine delivers 72 kW (96 hp) - (4x4)
A direct injection system for reduced fuel consumption and assures high operational economy. The turbo charger allows engine to attain high performance even on high altitude job sites.

Manueverability

Effortless power steering, optimum combination of travel speed, turning radius and wheel base

Easy maintenance

Electronic display and monitoring system helps to prevent minor problems from becoming major ones. Special dust seals for all linkage joints for higher performance and less maintenance.

Operator comfort

Spacious walk through metal roof safety cab with two doors, two side windows & sliding rear window, ergonomically arranged controls & instruments and cushioned seat. Excellent visibility ensures easy operation.

Reliability :

Attention – free wet multiple disc brakes on rear axle wheels. All structures are made of high tensile steel for longer life. The cutting edges, teeth, pins, bushing are highly reliable and durable.



ENGINE

	BL9H(4x2)	BL9H(4x4)
Make / Model	KOEL 4R1040TC	BEML BSAA4D105C1 / BSAA4D105EG
Type	Turbo charged, 4 cylinder, water cooled, direct injection Diesel Engine , BS III	Turbo charged, 4 cylinder, water cooled, direct injection Diesel Engine , BS III
Gross Power	57kW (76 hp) @ 2200 r/min	72 kW (96 hp) @ 2200 rpm
Displacement	4.16 lt / 4160 cc	4.33 lt / 4330 cc
Maximum torque	300 Nm (31 kgm) @ 1500 rpm	375 Nm (38 kgm) @ 1400 rpm
Governor	Mechanical	Mechanical / Electronic controlled
Lubrication	Forced	Forced
Air cleaner	Dry type	Dry type
Electricals	12 V, single battery	12 V, single battery



TRANSMISSION

Transmission	Full power shift with integral torque converter, 4 forward and 3 reverse speeds, optimally matched with engine. Electro hydraulic controlled direction & range selector
Max. Speed	36 km/h



AXLES & FINAL DRIVE

	BL9H(4x2)	BL9H(4x4)
Drive System	2 Wheel drive	4 Wheel drive
Front axle	Non drive, steerable	Drive, steerable
Rear axle	On board rigidly fixed to the frame, 100% differential lock with electro hydraulic control	



BRAKES

Service brake	Hydraulically actuated wet multiple disc brake at rear wheels
Parking Brake	Wet multiple disc electro-hydraulic actuation on rear axle input pinion.



STEERING

Steering mechanism	Fully hydrostatic power steering system independent of engine speed.
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STANDARD EQUIPMENT

12 V starting motor 90 A alternator 12 V/150 AH battery Dry type air cleaner Power Shift Transmission Suction fan Radiator & oil cooler	Front light Electric horn Rear view mirror All weather steel cab (with safety Glass windows, lockable door, Window wiper, room lamp and adjustable seat) Tool kit
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OPTIONAL ATTACHMENTS

Loader

Multi purpose bucket
(6 in 1 operation)
Fork Lift 1.8 ton
Jib Crane 1.8 ton
Material Handling Bucket 1 cu.m

Backhoe

Bucket 0.09 & 0.18 cu.m,
Bucket 0.30 & 0.40 cu.m (for Low density)
Ditch cleaning bucket 0.18, 0.22 & 0.3 cu. m
Square hole bucket 0.1 cu. m,
Taper ditching bucket 0.12 cu. m,
Ripper
Rock breaker



TYRES

	BL9H(4x2)	BL9H(4x4)
Front	9.00 – 16, 16 PR – 2 nos.	9.00 – 16, 16 PR – 2 nos.
Rear	16.90 – 28, 12PR – 2 nos.	14.00 – 25, 20 PR – 2 nos.
	14.00 – 25, 20 PR (Optional)	16.90 – 28, 12PR (Optional)



TURNING CIRCLE

A	Outside loader bucket	12.54 m
B	Outside wheels	9.41 m



HYDRAULICS

Pump Capacity	Gear pump 110 ℓ /min @ 2200 engine r/min
Relief pressure	210 bar (21 Mpa)
Loader & Backhoe	



FILTER SYSTEM

Engine	Two stage fuel filter with water separator
Air intake	Dry type, two stage air cleaner with dust evacuator
Hydraulic	Return line filter in hyd. tank



MASS (kg)

Operating Mass	BL9H(4x2)	BL9H(4x4)
	7,600 kg	7,700 kg



REFILL CAPACITY

Hydraulic	90 Litre	Engine oil	11.5 Litre
Fuel tank	135 Litre	Transmission	15 Litre
Engine coolant	14 Litre	Rear Axle	18 Litre
		Front Axle (4x4)	8 Litre



CABIN CONTROL PANEL

Cabin	Comfortable & high visibility cabin fitted with 2 doors and 2 side windows, sliding rear window and full safety glasses
Control Panel	Located at easy visibility of the operator. Dashboard has been made into two modules, loader and loader-backhoe to improve operator comfort.



BUCKET CAPACITY

Loader	1.0 cu. m (SAE rated, heaped)
Backhoe	0.24 cu. m (SAE rated, heaped)



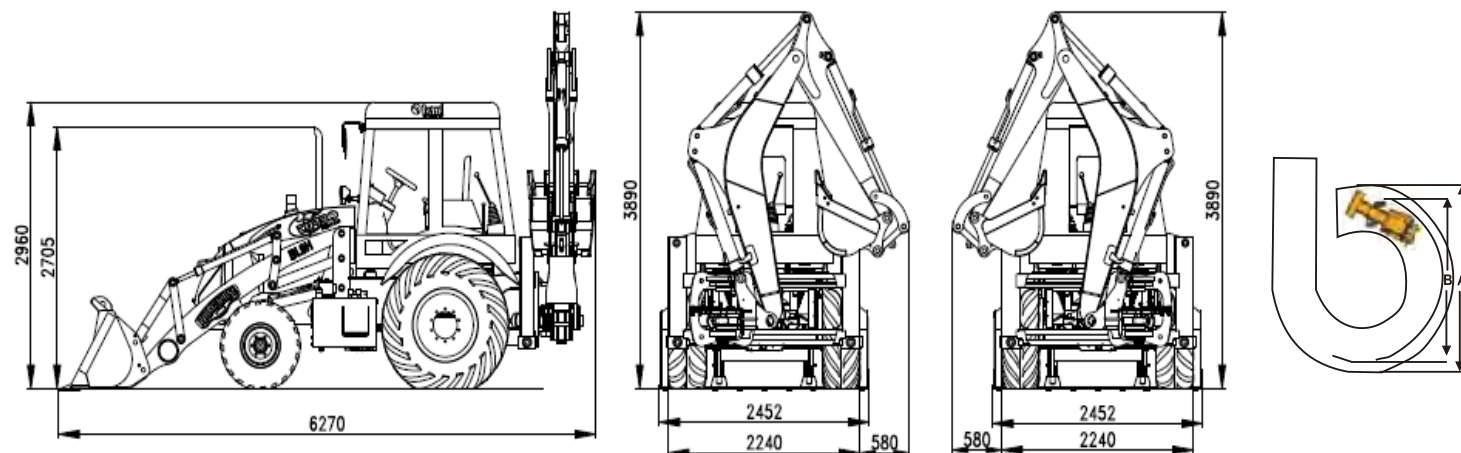
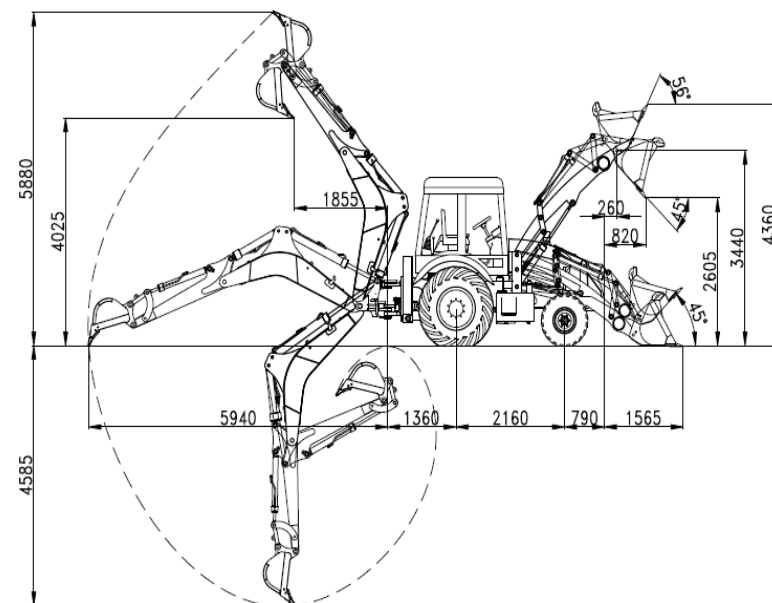
LOADER PERFORMANCE

Bucket capacity	1.0 cu. m
Max. Dumping clearance	2605 mm
Operating height (fully raised)	4360 mm
Max. Digging depth	150 mm
Bucket dumping angle	45 Degrees
Bucket Breakout force	57.8 kN
Arm Breakout force	47.0 kN



BACKHOE PERFORMANCE

Bucket capacity	0.24 cu. m
Max. Dumping clearance	4025 mm
Operating height (fully raised)	5880 mm
Max. Digging depth	4585 mm
Bucket rotation	180 Degrees
Total side shift travel	900 mm
Bucket dig force	54.5 kN
Arm crowding force	30.0 kN



Material and specifications are subject to change without notice, Illustrations may include optional equipment & accessories

BL9H

BACKHOE
LOADER

TECHNICAL SPECIFICATIONS