

BL120H

BACKHOE LOADER

Salient Features :

- Turbo charged sturdy engine
- Equal size Tyres
- The orbital Power Steering
- Load sensing Hydraulics
- (LHS) with joystick control
- Spacious FOPS Cabin



Operating Mass	: 8,500 kg
Gross Power	: 74 kW (100hp)@2200 r/min

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BL120H

BACKHOE LOADER

Salient Features :

ENGINE :

Beml make turbocharged diesel engine promises high performance even at high altitudes. The electronically controlled engine assures reduced fuel consumption and high operational economy.

EQUAL SIZE TYRES :

Equal size Tyres offered on BL120H increase ground contact and lower ground pressure which makes the machine capable of handling tough onsite conditions like soft ground, damp agricultural fields, construction sites with excellent stability.

CABIN :

Spacious walk through FOPS cabin, fitted with AC (optional) increases the operator comfort and safety. The adjustable seat with ergonomically placed controls reduces the operator fatigue. The modified compact instrumental panel gives all essential information.

LS HYDRAULICS WITH JOYSTICK CONTRL :

State-of-the-art load sensing Hydraulics (LSH) makes the system more fuel efficient and hence Eco-friendly. Ergonomically placed joystick controls provides maximum comfort to the operator

POWER STEERING :

The orbitrol Power steering enabled with less effort steering and steering during emergency conditions. Optimum combination of travel speed, turning radius and wheelbase increases the maneuverability.

EASY MAINTENANCE :

All filters and check points are positioned for easy access. Special dust seals are provided for all linkage joints for higher performance and less maintenance.

RELIABILITY :

All structures are made of high tensile steel for longer life. Wet multiple disc brakes on Rear axle wheels gives excellent braking & longer life for brake lining. The cutting edges, teeth pins, bushings are highly reliable and durable.



ENGINE

Make / Model	BEML BSAA4D105EG
Type	Turbo charged, 4 cylinder, water cooled, direct injection, Diesel Engine
Gross power	74 kW (100hp) @ 2200 r/min
Displacement	4.33 ℓ / 4330 cc
Maximum torque	375 Nm (38.2 kgm) @ 1400 rpm
Governor	Electronically controlled
Lubrication	Forced
Air cleaner	Dry type
Electricals	12 V, Single Battery, Alternator 12V, 90A

TRANSMISSION

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

AXLES & FINAL DRIVE

Drive System	Four Wheel Drive
Front axle	Trunion mounted fully oscillating, drive & steerable
Rear axle	On board rigidly mounted, 100 % differential lock with electro hydraulic control

BRAKES

Service brake	Hydraulically actuated wet multiple disc brake at rear wheels
Parking Brake	Electro hydraulic actuated wet multiple disc brakes.

STANDARD EQUIPMENT

- 12 V starting motor
- 90 A Alternator
- 12 V/135 AH battery
- Portable fire extinguisher
- 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

OPTIONAL FEATURES

- Front wheel braking system with emergency braking
- All wheel steering system
- Cold starting kit to meet High altitude and extreme cold environmental conditions
- AC cabin

OPTIONAL ATTACHMENTS

Loader

- Multi purpose bucket (6 in 1 operation)
- Fork Lift 2.2 ton
- Jib Crane 2.2ton

Backhoe

- Bucket 0.09 & 0.18 cu.m,
- Bucket 0.24 cu.m
- Bucket 0.4 cu.m(max.den 1000 kg/cu.m)
- Ditch cleaning bucket 0.18 & 0.3 cu. m
- Square hole bucket 0.1 cu. m,
- Taper ditching bucket 0.12 cu. m,
- Ripper
- Rock breaker
- Jaw Bucket
- Telescopic backhoe arm



TYRES

Front & Rear : 16.9 x 28, 12PR - 4 nos - Standard.
14.0 x 25, 20PR - 4 nos. (Optional, Heavy Duty)



STEERING

Steering mechanism Fully Hydrostatic Orbital type power steering independent of engine speed.
Relief pressure setting 175 bar (17.5 Mpa)



HYDRAULICS

Pump type & capacity Variable Piston pump, 125ℓpm @ 2200 rpm
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



MASS (kg)

Operating Mass 8500 kg (including work attachments, coolant, fuel tank and operator)



REFILL CAPACITY (ltrs)

Hydraulic	110	Engine oil	11.5
Fuel tank	145	Transmission	15
Engine coolant	14	Rear Axle	18
Front axle	18		



CABIN CONTROL PANEL

Cabin FOPS roomy cabin with excellent visibility, fitted with 2 doors & 2 side windows and sliding rear window.
Control Panel Ergonomically located controls and dashboard for loader and backhoe operation



BUCKET CAPACITY

Loader	1.2 cu.m
Backhoe	0.3 cu.m



TURNING CIRCLE

A	Outside loader bucket	18.9 m
B	Outside wheels	17.24 m



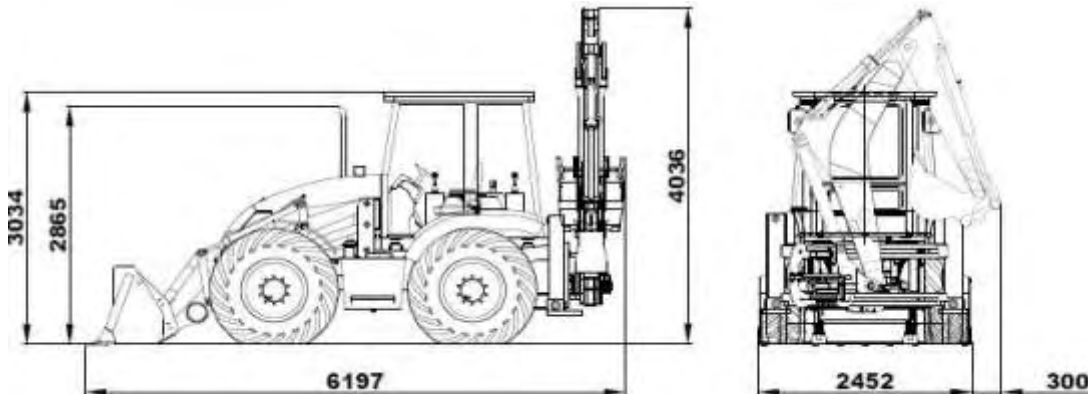
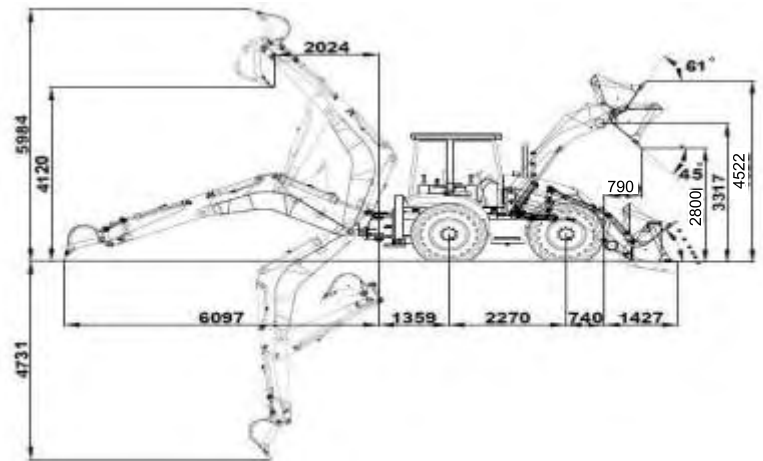
LOADER PERFORMANCE

Bucket capacity (SAE rated)	1.2 cu.m
Max. Dumping clearance	2800 mm (Cutting Edge)
Operating height (fully raised)	4522 mm
Max. Digging depth	282 mm
Bucket dumping angle	45 Deg.
Bucket Breakout force	61 kN
Arm Breakout force	48.9 kN



BACKHOE PERFORMANCE

Max. Dumping Clearance	4120 mm
Operating Height (fully raised)	5984 mm
Max. Digging Depth	4731 mm
Bucket Capacity	0.3 cu.m
Bucket rotation	180 Degrees
Total side shift travel	900 mm
Bucket dig force	60.8 kN
Arm crowding force	36 kN



Specifications are subject to change without notice, Illustrations may include optional equipment & accessories

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