



Digs deeper than most backhoe loaders



Reaches farther than most backhoe loaders



Higher digging forces for Tough job sites



Good for pipe-laying operations, handles bigger diameter pipes



Best-in-class dump height for easy loading into the center of the tipper body.

Parallelogram / Double cylinder arrangement enables duck-walk and Auto Leveling

ATTACHMENTS & ACCESSORIES



TECHNICAL SPECIFICATIONS

ENGINE

Make	Cummins
Model	B3.9 99C 32
Type	Turbo-charged, inter-cooled direct injection
Gross Power	99 HP (73.4 kW) @ 2,200 RPM
Max. Torque	410 Nm @ 1,350 RPM
Battery	12 V, 150 Ah
No. of Cylinders	4 nos.
Bore	102 mm
Stroke	120 mm
Displacement	3,922 cc
Alternator	95 Amps

HYDRAULIC SYSTEM

Excellent Hydraulic System (EHS) with Tandem gear pump for lower fuel consumption  
System Pressure ..... 245 bar  
Max. Pump Flow ..... 128 lpm @ 2,200 RPM  
**Control Valve:** Sectional valves that are individually replaceable.

TRANSMISSION

- Equipped with Carraro-make transmission with synchro-shuttle
- Solenoid-type mechanism allows smooth, easy forward and reverse movements.
- Transmission allows for four forward and two reverse speeds

AXLE

- Front Axle**
  - Heavy-duty, non-powered axle
  - Floats up to +/-16 degrees to handle uneven terrains
- Rear Axle**
  - Rear Carraro axle that is heavy-duty and long-lasting
  - High brake torque

SPEEDS

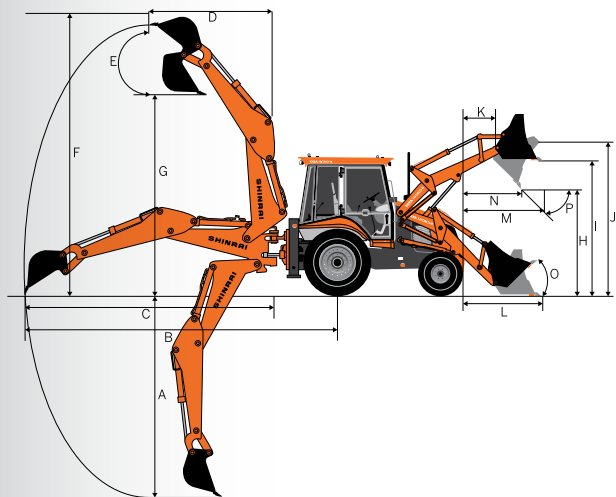
Forward	Reverse
1st ..... 4 kmph	1st ..... 5 kmph
2nd ..... 7 kmph	2nd ..... 8 kmph
3rd ..... 17 kmph	3rd ..... Not recommended
4th ..... 29 kmph	4th ..... Not recommended

BACKHOE PERFORMANCE

Backhoe Bucket digging force ..... 5,534 kgf	Backhoe Arm Length ..... 1.96 m
Backhoe Arm digging force ..... 3,136 kgf	Backhoe Boom Length ..... 2.46 m
Slider Frame Travel ..... 1,050 mm	Bucket width ..... 752 mm

Dim. Notations	Dimension	Description
A	5.003	Max. digging depth
B	7.196	Max. reach from rear axle centre
C	5.798	Max. reach from slew centre
D	2.520	Max. reach during loading from slew centre
E	180°	Bucket rotation angle
F	6.526	Max. cutting height in backhoe (Stabilizer fully extended position)
G	4.476	Max. loading height in backhoe (Stabilizer fully extended position)

All dimensions are in mm



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BRAKES

Service Brake: Oil-immersed wet disc, that is hydraulic-actuated, with independent pedals for better control in narrow spaces  
Parking Brake: Hand-operated disc brake on the rear axle

STEERING

Type: Hydraulic actuation with priority for smooth control  
Turning Radius ..... Inner wheels not braked  
Outside Loader Bucket ..... 11.73 m  
Outside Wheels ..... 8.9 m

TYRES

Front (Std.)	12.5 x 16, 14 PR
Rear (Std.)	16.9 x 28, 12 PR
Rear (HD)	14x25, 20 PR

REFILL CAPACITY

Fuel Tank	128 L
Engine Oil	10.0 L
Engine Coolant	15 L
Transmission Oil	19 L
Rear Axle Oil	18.6 L
Hydraulic Oil Refill	86 L
Front Axle-Live	9.6 L (4WD)

LOADER PERFORMANCE

Below ground dig depth	110 mm
Loader bucket break-out force	6,499 kgf
Loader arm break-out force	5,135 kgf
Payload	1,920 kg
Standard Tilt Bucket	1.1 m <sup>3</sup>
Optional Bucket	6-in-1 bottom dump bucket 1.0m <sup>3</sup>

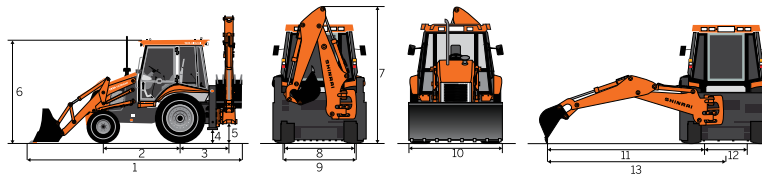
Dim. Notations	Dimension	Description
H	2.842	Dump height
I	3.509	Load over height
J	3.729	Pin height
K	454	Pin forward reach
L	1.817	Reach at ground level
M	1.432	Max. reach at full height
N	982	Reach in bucket dump position
<b>Bucket Angles</b>		
O	45°	Bucket roll-in angle
P	45°	Bucket rotation angle

All dimensions are in mm

MAIN MACHINE STATIC DIMENSIONS

Symbol	Measured value	Description
1	6.414	Transport length
2	2.110	Wheel base
3	1.415	Slew centre to rear axle centre
4	295	Minimum ground clearance point
5	485	Slew ground clearance
6	2.885	Height of cabin
7	3.820	Machine transportaion height
8	1.710	Front wheel tread width
9	1.900	Rear wheel tread width
10	2.357	Loader bucket width
11	5.798	Max. side reach to slew centre
12	1.050	Total side-shift travel
13	6.323	Max. side reach to machine centre
14	715	Static tire radius

All dimensions are in mm



# HITACHI


## BX100 SHINRAI POWER

• RELIABLE • TRUSTWORTHY • CAPABLE

### YOUR STRONGEST PARTNER 4x4

Model <b>BX 100 SHINRAI POWER</b>	Operating Weight <b>8,600-8,800 Kg</b>	Engine <b>99 HP</b>	Bucket Capacity <b>Bucket Capacity Standard Tilt Bucket 1.1m<sup>3</sup> Optional: 6-in-1 Bucket</b>
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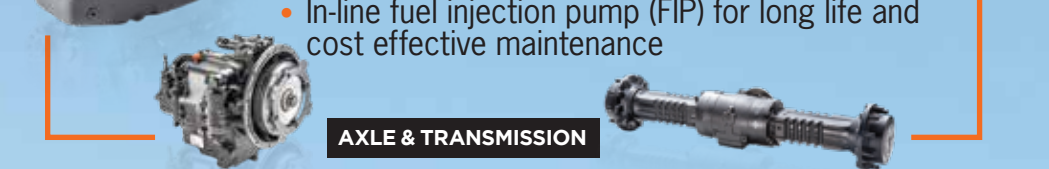




**RELIABLE DRIVE LINE FOR RELIABLE PERFORMANCE**

- The most powerful engine (99 HP)
- Consistent torque output across engine rpm range
- Globally proven and reliable transmission & axles
- In-line fuel injection pump (FIP) for long life and cost effective maintenance

**IN-LINE FUEL INJECTION PUMP**



**AXLE & TRANSMISSION**


**RELIABLE STRUCTURES FOR LONG LIFE AND SUPERIOR PERFORMANCE IN TOUGH CONDITIONS**

- Strong and tested structures for tough operations
- Higher reaches of loader and backhoe attachments for faster and effortless performance
- Manufactured with high grade steel through robotic welding


**ROBUST STRUCTURES**



**MAXIMUM COMFORT AND SAFETY**



**CLEAR VIEW OF THE LOADER BUCKET**



**SPACIOUS AIR CONDITIONED CABIN**



HILL CUTTING



LOADING



QUARRY



BRICK KILN



BUILDING CONSTRUCTION



DIGGING



AGRICULTURE



RIVER BOULDER CLEARING



ROAD CONSTRUCTION



EASY AND LOW-COST MAINTENANCE

- Provides better performance with increased fuel efficiency
- High/Low pressure unloader systems ensure optimum flow of hydraulic oil.



Engine Oil	250 Hours
Transmission Oil	1000 Hours
Axle Oil	1500 Hours
Hydraulic Oil	4500 Hours
Coolant	6000 Hours
Engine Oil Filter	500 Hours
Fuel Filter	500 Hours
Fuel Water Separator	500 Hours
Primary Air Filter	1000 Hours
Secondary Air Filter	3000 Hours
Hydraulic Filter	500 Hours
Hydraulic Tank Breather	2500 Hours
Transmission Filter	1000 Hours

**Bx100**  
**SHINRAI** POWER  
**4x4**