



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  
Auto Leveling

## ATTACHMENTS & ACCESSORIES



## TECHNICAL SPECIFICATIONS

### ENGINE

Make ..... Cummins  
Model ..... 4BTAA 3.9 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, Powered Axle.
- Floats up to +/- 8 degrees to handle uneven terrains
- 4WD - Front axle king pin angle = 7° camber angle = 1.5 Ratio Total = 13,714:1

#### Rear Axle

- Rear Carraro axle that is heavy-duty and long-lasting
- High brake torque

### SPEEDS

#### Forward

1st ..... 4 kmph  
2nd ..... 7 kmph  
3rd ..... 17 kmph  
4th ..... 29 kmph

#### Reverse

1st ..... 5 kmph  
2nd ..... 8 kmph  
3rd ..... Not recommended  
4th ..... Not recommended

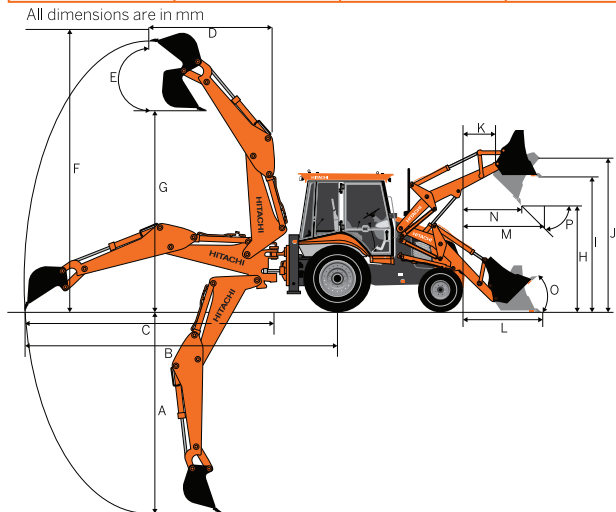
@1850 RPM & Standard GP tyres

### BACKHOE PERFORMANCE

Parameter	Standard Backhoe	Long Reach Backhoe
Backhoe Bucket Digging force	5685 kgf	5534 kgf
Backhoe Arm Digging force	3220 kgf	3136 kgf
Backhoe Boom length	2.46 m	2.76 m

Slider Frame Travel - 1050 mm  
Backhoe Arm Length - 196 mm  
Bucket Width (STD) - 752 mm  
Bucket Width (Option) - 661 mm / 600 mm

Dim. Notations	Dimension (Standard Backhoe)	Dimension (Long Reach Backhoe)	Description
A	4700	5003	Max. Digging depth
B	6880	7196	Max. reach from Rear axle Centre
C	5440	5798	Max. reach from Slew Centre
D	2001	2520	Max. reach during loading from Slew Centre
E		180°	Bucket rotation angle
F	6050	6526	Max. Cutting Height in Backhoe (Stabilizer fully extended condition)
G	4200	4476	Max. Loading Height in Backhoe (Stabilizer fully extended condition)



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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 Wider (4WD) ..... 12.5/80-18, 12 & 14PR  
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 ..... 13 L  
Transmission Oil ..... 16 L  
Rear Axle Oil ..... 17.5 L  
Hydraulic Oil Refill ..... 86 L  
Front Axle (Live) ..... 9.1 L (4WD)

### LOADER PERFORMANCE

Below ground dig depth ..... 55 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>

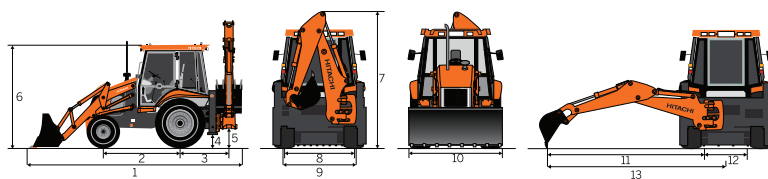
Dim. Notations	Dimension	Description
H	2,842	Dump height
I	3,509	Load over height
J	3,729	Pin height
K	454	Pin forward reach
L	1,817	Reach at ground level
M	1,432	Max. reach at full height
N	982	Reach in bucket dump position
<b>Bucket Angles</b>		
O	45°	Bucket roll-in angle
P	45°	Bucket rotation angle

All dimensions are in mm

### MAIN MACHINE STATIC DIMENSIONS

Symbol	Dimension (Standard Backhoe)	Dimension (Long Reach Backhoe)	Description
1		6414	Transport Length
2		2110	Wheelbase
3		1415	Slew Centre to Rear Axle Centre
4		295	Minimum Ground Clearance point
5		485	Slew ground clearance
6		2885	Height of Cabin
7	3530	3820	Machine Transportation height
8		1710	Rear Wheel tread width
9		1900	Front Wheel Tread width
10		2357	Loader Bucket Width
11	5520	5798	Max reach from Slew center
12		1050	Total Side Shift Travel
13	5993	6323	Max side reach to Machine center

All dimensions are in mm



KO-EN357ME

These specifications are subject to change without prior notice. The machine depicted may vary from the actual machine. Please contact our nearest office for latest specifications. Accessories shown here are not part of the standard equipment. Performance of the machine may vary with site and operating conditions encountered.

# HITACHI

Reliable Solutions

# BX100 SHINRAI POWER

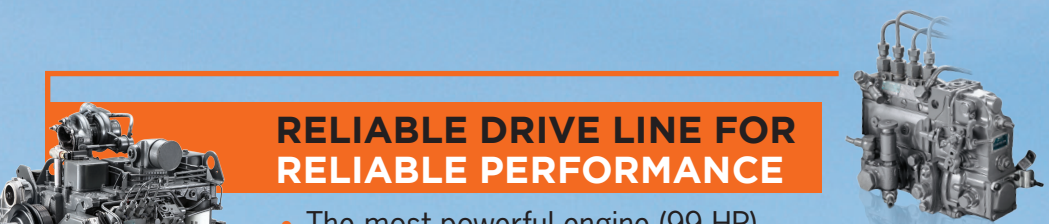
• RELIABLE • TRUSTWORTHY • CAPABLE

YOUR STRONGEST PARTNER 4x4



Model	Operating Weight	Engine	Bucket Capacity
<b>BX 100 SHINRAI POWER</b>	<b>8,600-8,800 Kg</b>	<b>99 HP</b>	<b>Backhoe : 0.18 m<sup>3</sup> / 0.26 m<sup>3</sup> / 0.30 m<sup>3</sup> Loader : Standard - Tilt Bucket : 1.1 m<sup>3</sup> Optional - 6-in-1 Bucket : 1.0 m<sup>3</sup></b>

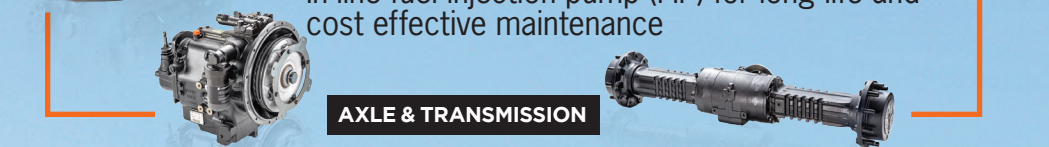




**RELIABLE DRIVE LINE FOR RELIABLE PERFORMANCE**

- 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**



HILL CUTTING



BRICK KILN



DIGGING



RIVER BOULDER CLEARING

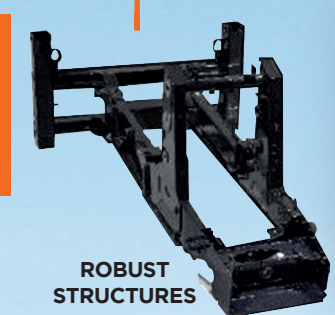


EASY AND LOW-COST MAINTENANCE

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

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



LOADING



BUILDING CONSTRUCTION



AGRICULTURE



ROAD CONSTRUCTION



QUARRY



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

MAXIMUM COMFORT AND SAFETY



CLEAR VIEW OF THE LOADER BUCKET



SPACIOUS AIR CONDITIONED CABIN

Engine Oil	250 Hours
Transmission Oil	1000 Hours
Axle Oil	1500 Hours
Hydraulic Oil	4500 Hours
Coolant	6000 Hours
Engine Oil Filter	250 Hours
Fuel Filter	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