

# HITACHI

Reliable Solutions

Hitachi Construction Machinery Group

## LANDCROS

Japanese Excellence—Reliable Solutions

# BX100 SHINRAI POWER

• RELIABLE • TRUSTWORTHY • CAPABLE

**YOUR STRONGEST PARTNER 4x4**



### Model

BX100  
SHINRAI POWER

### Operation Weight

8,600-8,800 Kg

### Engine

99 HP

### Bucket Capacity

Backhoe :  
0.18 m<sup>3</sup> / 0.26 m<sup>3</sup> / 0.30 m<sup>3</sup>  
600mm / 700mm / 800 mm  
Loader :  
Standard - Tilt Bucket : 1.1 m<sup>3</sup>  
Optional - 6-in-1 Bucket : 1.0 m<sup>3</sup>



## TECHNICAL SPECIFICATION

ENGINE	
Make / Model / Tier	CUMMINS / 4BT 3.99 C 32 / BS III CEV
Aspiration	Turbocharged
Number of cylinders	4
Displacement	3.922 L
Rated gross power (ISO 14396)	73.4 kW
Rated gross power (ISO 14396)	99 HP
Rated speed	2,200 RPM
Maximum torque	410 Nm @1350 RPM
Fuel	Diesel
Cooling	Water

TRANSMISSION	
Make / Model	CARARRO
Type	Synchro-shuttle
Max travel speed 1st forward/reverse	4.00/5.00 km/h
Max travel speed 2nd forward/reverse	7.00/8.00 km/h
Max travel speed 3rd forward/reverse	17.00/0.00 km/h

HYDRAULIC SYSTEM	
System type	Excellent Hydraulic System (EHS)
Pump	Twin Gear-Pump
Flow	128L / min
System pressure	250.00 bar
Controls, backhoe	Mechanical levers
Controls, loader	Mechanical lever

FRONT AXLE		REAR AXLE	
Type	4WD	Make	CARARRO
Limited slip	Standard	Limited slip	Standard
Oscillation	16 °		

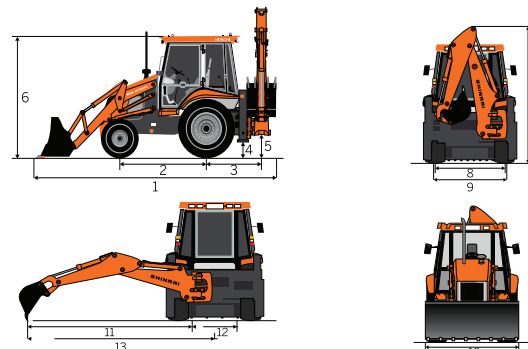
ELECTRICAL SYSTEM		TYRE	
Battery	12 V 150 Ah	4WD front	12.5-18
Alternator	95 Amps	Rear	16.9-28

STEERING		BRAKES	
Type	2WS	Service type	Hydraulic wet multi disc, dual pedal braking
Turning circle (unbraked), outside front tyres	9,500.0 mm	Parking type	Mechanical control on rear axle
Turning circle (unbraked), outside loader bucket	12,320.0 mm		

OPERATING WEIGHTS	
Base machine .....	8,600 kg

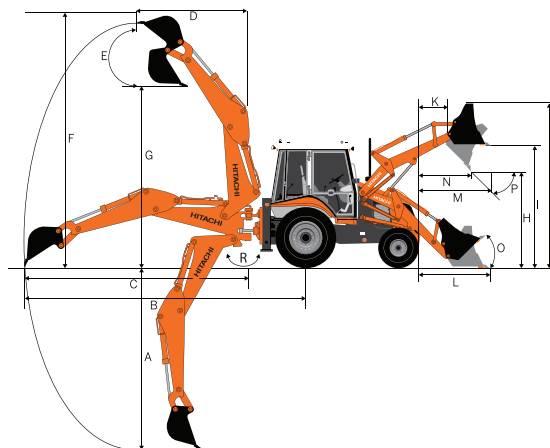
STANDARD FEATURES	
General purpose loader bucket	Side storage
Steering wheel knob	Rear windshield heater
Front windshield and wiper	752 mm backhoe bucket / 0.18 ~ 0.30 m3
Rear windshield and wiper	Dashboards
Work lights (front, Rear)	Air Condition
FOPS/ROPS Cabin standard	Noise Level: 80 dB (Inside)Operator ear ; 106 dB (Outside) Tilt Dump

BACKHOE PERFORMANCE		LOADER PERFORMANCE	
Backhoe Boom Length.....	2.76 m	Loader Length Arm.....	2.62 m3
Backhoe Arm Length.....	1.96 m	Bucket Capacity.....	1.10 m3
Bucket Capacity.....	0.18 - 0.30 m3	Breakout force, Bucket.....	6,499 kgf
Bucket Digging Force.....	5,534 kgf	Breakout force, Arm.....	5,135 kgf
Arm Digging Force.....	3,136 kgf	Lifting Capacity at the top height.....	3,600 kg



Symbol	Measured Value	Description
1	6,414	Transparent length
2	2,110	Wheel Base
3	1,415	Slew center to rear axle center
4	295	Minimum ground clearance point
5	485	Slew ground clearance
6	2,885	Height of Cabin
7	3,820	Machine transportation height
8	1,900	Front wheel tread width
9	1,710	Rear wheel tread width
10	2,357	Loader bucket width
11	5,796	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



Symbol	Measured Value	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
R	180 °	Swing Arc
F	6,526	Max. cutting height in backhoe (Stabilizer fully extended position)
G	4,476	Max. cutting height in backhoe (Stabilizer fully extended position)

Symbol	Dimension	Description
H	2,842	Dump height
I	3,509	Load over height
J	4,423	Operating 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
Bucket Angles		
O	45 °	Bucket roll-in-angle
P	45 °	Bucket rotation angle

All dimension are in mm

