

SHINRAI

RELIABLE
 TRUSTWORTHY
 CAPABLE



Model SHINRAI-BX80

Operating Weight **7,800 kg**

Bucket Capacity **Backhoe: 0.26 m³ Loader: 1.1 m³**

THE **NEW REVOLUTION** IN
BACKHOE LOADERS

RELIABLE DRIVE LINE FOR RELIABLE PERFORMANCE

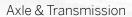
- Superior engine performance
- Reliable transmission and axle system
- In-line fuel injection pump for easy maintenance

RELIABLE











SHINRAL RELIABLE TRUSTWORTHY CAPABLE

BE IN SYNC WITH SHINRAI

- GPS- and GPRS-based remote tracking through InSite*
- Monitors the machines' location and operations
- Offers information about the machine and the fleet





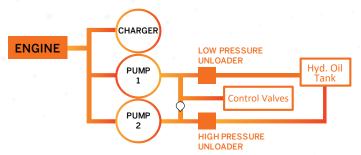






FRUSTWORTHY

- Provides great performance with fuel efficiency
- High/Low pressure unloader systems ensure the passage of hydraulic oil, when needed
- Ensures optimal utilisation of engine and hydraulic power





Reliable Pump and Control Valve



- Maximum comfort, safety, and noise reduction
- Meets ROPS*/FOPS* safety requirements
- Offers air-conditioning*, ergonomic controls
- User-friendly consoles and ample storage space



Spacious Cabin

ULTIMATE SUPPORT FOR THE ULTIMATE MACHINE



- Warranty and post-warranty services
- On-site services through a wide network of dealerships
- Field diagnostic vehicle for immediate on-site resolution
- On-site and plant-based training programmes



Field Diagnostic Vehicle



Ground-level Inspection

TECHNICAL SPECIFICATIONS

ENGINE

Make	Cummins
Model	B3.980C30
Туре	Turbo-charged, inter-cooled direct injection
Gross Power	80 HP (60 kW) @ 2,200 RPM
Max. Torque	
Battery	12 V, 130 Ah, 95 amps
No. of Cylinders	4 nos.
Bore	102 mm
Stroke	120 mm
Displacement	3,922 cc

HYDRAULIC SYSTEM

Excellent Hydraulic System (EHS) with Tandem gear pump for lower fuel consumption128 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

SPEEDS

Forward

1st	5.78 kmph
2nd	9.23 kmph
3rd	20.60 kmph
4th	40.44 kmph

Rear Axle

- Rear Carraro axle that is heavy-duty and long-lasting
- High brake torqueZero-maintenance performance

Reverse

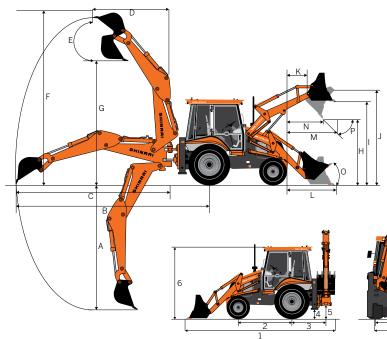
1st	7 kmph
2nd	11.22 kmph
3rd	Not recommended
4th	Not recommended

BACKHOE PERFORMANCE

Backhoe Bucket digging force 5,685 kgf	Backhoe Arm Length1.96 m	
Backhoe Arm digging force 3,220 kgf	Backhoe Boom Length2.46 m	
Slider Frame Travel	Bucket width752 mm	
Lift Capacity of bucket pivot at full reach (no bucket fitted)		

Dim. Notations	Dimension	Description
А	4,702	Max. digging depth
В	6,850	Max. reach from rear axle centre
С	5,480	Max. reach from slew centre
D	2,012	Max. reach during loading from slew centre
E	180°	Bucket rotation angle
F	6,100	Max. cutting height in backhoe
G	4,355	Max. loading height in backhoe

All dimensions are in mm



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

TypeHydraulic actuation with priority for smooth control	
Turning Radius	.ed
Outside Loader Bucket	m
Outside Wheels8.9 m	m

TYRES

Front (Std.)	9x16, 16 PR
Rear (Std.)	
Rear (HD)	1425.20.00

REFILL CAPACITY

Fuel Tank	128 L
Engine Oil	
Engine Coolant	15.7 L
Transmission Oil	16 L
Rear Axle Oil	17.1 L
Hydraulic Oil Refill	86 L

LOADER PERFORMANCE

Below ground dig depth	110 mm
Loader bucket break-out force	
Loader arm break-out force	5,488 kgf
Payload	1,920 kg
Loader Bucket capacity	1.1 m ³

Dim. Notations	Dimension	Description
Н	2,750	Dump height
I	3,276	Load over height
J	3,513	Pin height
K	367	Pin forward reach
L	1,619	Reach at ground level
М	1,341	Max. reach at full height
N	860	Reach in bucket dump position
Bucket Angles		
0	45°	Bucket roll-in angle
Р	45°	Bucket rotation angle

All dimensions are in mm

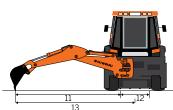
OVERALL DIMENSIONS

Width of loader bucket	2,352 mm
Front tyre tread	1,710 mm
Rear tyre tread	1,900 m
Height to top of cabin	2,960 mm

Dim. Notations	Dimension	Description
1	5,915	Transport length
2	2,150	Wheel base
3	1,370	Slew centre to rear axle centre
4	350	Lowest ground clearance point
5	490	Ground clearance to slew centre
6	2,960	Height of cabin
7	3,605	Total transport height
8	1,710	Front wheel tread width
9	1,900	Rear wheel tread width
10	2,352	Loader bucket width
11	5,650	Max. side reach to slew centre
12	1,050	Total side-shift travel
13	6,175	Max. side reach to machine centre

All dimensions are in mm





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These specifications are subject to change without notice. Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some difference in colour and features.

