



**CHALO
DESH
BANAYE**

TATA HITACHI

Reliable solutions

NEW!

SHINRAI **PRO**

• RELIABLE • TRUSTWORTHY • CAPABLE

Aap Ki Unnati Ka Sachcha Saathi



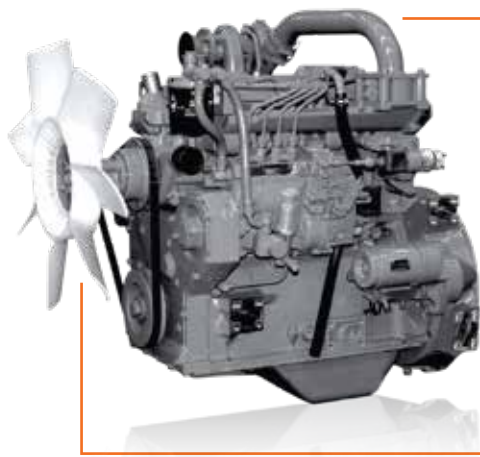
PRO FICIENCY
PRO FITABILITY
PRO GRESS

Model
SHINRAI PRO

Engine Gross power
47 HP

Operating Weight
STD: 7940 Kg

Bucket Capacity
Backhoe: 0.26 m³
Loader: 1.1 m³



RELIABLE ENGINE **FOR EXCEPTIONAL PERFORMANCE**

- New fuel efficient reliable engine
- Superior engine performance
- 4 valve per cylinder
- Inline fuel injection pump for easy maintenance
- Zero maintenance cyclonic pre-cleaner



RELIABLE DRIVE LINE FOR **TOP-NOTCH PERFORMANCE**

- Electrically controlled parameters for optimized performance and increased life
- Proven transmission and axle system
- Easy maintenance



AXLE



TRANSMISSION



INTELLIGENT OPTIMUM HYDRAULIC SYSTEM **OHS**

- Provides great performance with fuel efficiency
- Expert hydraulic flow optimization through intelligent controller and variable displacement pump to match high performance at lower fuel consumption
- Ensures optimal utilisation of engine and hydraulic power
- Long lasting hydraulic hoses for superior life



CONTROL VALVE



VARIABLE DISPLACEMENT PUMP (EDS + LS)



CONTROLLER



A CABIN THAT OFFERS **MAXIMUM COMFORT AND SAFETY**

- Well ventilated and spacious cabin
- Excellent visibility
- Comfortable operator seat
- Large leg space for comfortable operation
- Ergonomic controls
- User-friendly consoles
- Multi-functional display
- Ample storage space
- Music system with FM and USB
- Meets FOPS* safety requirements
- Quieter engine

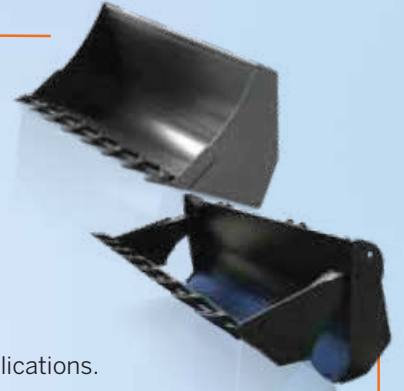


*Optional features

BUCKET OPTIONS

LOADER BUCKETS

- **Standard Loader Bucket** - Used for standard operations like loading and dozing.
- **6-in-1 Loader Bucket** - Multipurpose bucket used for loading, dozing, leveling, grabbing, spreading and backfilling.



BACKHOE BUCKETS

- **Standard Backhoe Bucket** - Recommended for soil applications.
- **Heavy Duty Bucket** - Used in crushing Application.
- **Trench Buckets** - Used for pipe-laying, optical fibre cable laying and trench applications.
- **Ditch Cleaning Bucket** - Comes with perforated holes which help in draining water so that solid waste load can be taken and used for solid waste management.



TYRE OPTIONS

General purpose tyres & heavy duty tyres

- **General purpose tyres** recommended for soft soil strata applications.
- **Heavy Duty Tyres** recommended for hard soil strata applications.



ATTACHMENT OPTIONS

- **Rockbreaker** - Extensively used for demolition applications
- **Auger** - Used for drilling, pole erection, plantation, fencing, casing applications.
- **Quick Coupler** - allows fast changeover of bucket and multiple attachments.
- **Ripper Tooth** - Used for pulling a block of rock or concrete.



TELEMATICS SUITE FOR REAL TIME MONITORING



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



Location, Geo Fencing



Fuel Level



Fleet Management



Overall Fleet Summary in Graphical Widgets (Dashboard)



Asset Utilisation



Asset Operation



Ability to track Machine Maintenance/Service due date



Accessible on Web and App

ULTIMATE SUPPORT FOR THE ULTIMATE MACHINE

- Warranty, extended 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



SUPPORT CHAIN



FIELD DIAGNOSTIC VEHICLE



GROUND-LEVEL INSPECTION



- CORPORATE OFFICE
- MANUFACTURING FACILITY
- WAREHOUSE
- TATA HITACHI OFFICE
- ▲ DEALER HO
- DEALER OUTLET
- HYDRAULIC WORKSHOP

SPECIFICATIONS

ENGINE

MakeCummins
 Model.....4B3.3T-35.1-C
 Type.....Turbo-charged, Water Cooled, 4-cycle diesel engine
 Gross Power.....47 Hp (35.1 kW) @ 2,200 RPM
 Max. Torque.....215 Nm @ 1,320 RPM
 Battery12 V, 130 Ah
 No. of Cylinders.....4 nos
 Bore.....95 mm
 Stroke.....115 mm
 Displacement.....3,261 cc
 Alternator.....120Amps

HYDRAULIC SYSTEM

Intelligent Optimum Hydraulic system, Variable Displacement Pump with Electric Displacement Control and Load Sense to optimize fuel consumption
 System Pressure.....265 bar
 Max. Pump Flow.....105 lpm @ 1,950 RPM
Control Valve: Sectional valves that are individually replaceable.

TRANSMISSION

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

AXLE

Front Axle

- Heavy-duty, non-powered axle
- Floats up to +/-8 degrees to handle

Rear Axle

- Rear heavy-duty Carraro axle
- High brake torque

SPEEDS

Speeds @ 1950 rpm with standard tyres

Forward

1st.....5 kmph
 2nd.....7 kmph
 3rd.....16 kmph
 4th.....28 kmph

Reverse

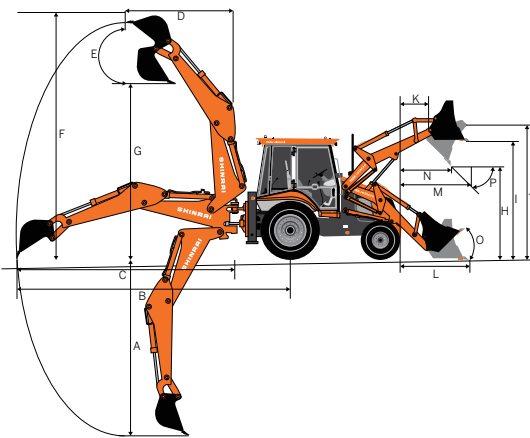
1st.....5 kmph
 2nd.....7 kmph
 3rd.....Not recommended
 4th.....Not recommended

BACKHOE PERFORMANCE

Backhoe Bucket digging force.....6,026 kgf Backhoe Arm Length.....1.96 m
 Backhoe Arm digging force.....3,087 kgf Backhoe Boom Length.....2.46 m
 Slider Frame Travel.....1,050 mm Bucket width.....752 mm

Dim. Notations	Dimension	Description
A	4,700	Max. digging depth
B	6,880	Max. reach from rear axle centre
C	5,440	Max. reach from slew centre
D	2,001	Max. reach during loading from slew centre
E	180°	Bucket rotation angle
F	6,050	Max. cutting height in backhoe (Stabilizer fully extended position)
G	4,200	Max. loading height in backhoe (Stabilizer fully extended position)
H	2,690	Dump height
I	3,305	Load over height
J	3,550	Pin height
K	360	Pin forward reach

All dimensions are in mm



BRAKES

Service Brake: Oil-immersed wet disc, 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 for smooth control
 Turning Radius.....inner wheel braking
 Outside Loader Bucket.....11.73 m
 Outside Wheels.....8.6 m

TYRES

Front (Std.).....9x16, 16 PR
 Rear (Std.).....16.9 x 28, 12 PR
 Rear (HD).....14x25, 20 PR

REFILL CAPACITY

Fuel Tank.....100 L
 Engine Oil.....11 L
 Engine Coolant.....13 L
 Transmission Oil.....20 L
 Rear Axle Oil.....17.5 L
 Hydraulic Oil Refill.....65 L

LOADER PERFORMANCE

Below ground dig depth.....110 mm
 Loader bucket break-out force.....5,722 kgf
 Loader arm break-out force.....5,139 kgf
 Payload.....1,800 kg
 Loader Bucket capacity.....1.1 m³

Dim. Notations	Dimension	Description
L	1,620	Reach at ground level
M	1,332	Max. reach at full height
N	840	Reach in bucket dump position

Bucket Angles		
O	45°	Bucket roll-in angle
P	45°	Bucket rotation angle

All dimensions are in mm

BACKHOE BUCKET OPTIONS

Type	Bucket size	Bucket width	Bucket weight	No. of tooth point
Standard bucket	0.26 m ³	752mm	220 kg	5
Heavy duty bucket	0.22 m ³	695mm	195 kg	5
Trench bucket	0.09 m ³	1 ft	122 kg	3
Trench bucket	0.12 m ³	1.5 ft	135 kg	3
Ditch cleaning bucket	0.35 m ³	945mm	220 kg	NA

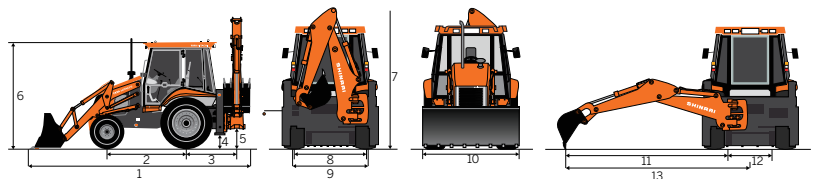
LOADER BUCKET OPTIONS

Type	Bucket size	Bucket width	Bucket weight	No. of tooth point
Loader bucket	1.1 m ³	2352 mm	560 kg	8
6 in 1 Loader bucket	1.0 m ³	2350mm	680 kg	8

OVERALL DIMENSIONS

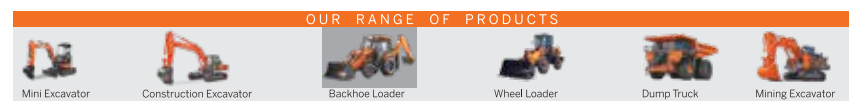
Dim. Notations	Dimension	Description
1	6,040	Transport length
2	2,130	Wheel base
3	1,370	Slew centre to rear axle centre
4	320	Minimum ground clearance
5	485	Slew ground clearance
6	2,940	Height of cabin
7	3,530	Machine Transport Height
8	1,900	Front wheel tread width
9	1,700	Rear wheel tread width
10	2,354	Loader bucket width
11	5,520	Max. side reach to slew centre
12	1,035	Total side-shift travel
13	6,050	Max. side reach to machine centre

All dimensions are in mm



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Authorised Dealer

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.