## **TATA HITACHI**

Reliable solutions

# SHINRAIPOWER

• RELIABLE • TRUSTWORTHY • CAPABLE

## YOUR STRONGEST PARTNER 4234



Model

**SHINRAI POWER** 

Operating Weight

8,770 Kg

Engine 99 HP

Bucket Capacity

Backhoe: 0.30 m<sup>3</sup> Loader: 6-in-1 bucket





### **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





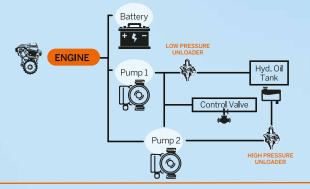
**ROBUST STRUCTURES** 



## **EXCELLENT HYDRAULIC SYSTEM**

## FOR MORE POWER WITH HIGH FUEL EFFICIENCY

- Provides better performance with increased fuel efficiency
- High/Low pressure unloader systems ensure optimum hydraulic oil flow as per need
- Ensures optimal utilisation of engine and hydraulic power





HYDRAULIC PUMP



CONTROL VALVE

## **A CABIN THAT OFFERS**

## **MAXIMUM COMFORT AND SAFETY**



- Well ventilated and spacious cabin
- Excellent visibility
- Comfortable operator seat
- Large leg space
- · Air-conditioner\*

\*Optional

- Ergonomic controls
- User-friendly consoles

- Multi-functional display
- Ample storage space
- Music system with FM radio, AUX and USB.
- Meets FOPS safety requirements
- Low engine noise and vibration







SUPPORT CHAIN

## **ULTIMATE SUPPORT FOR**

## THE ULTIMATE MACHINE

- Warranty, extended warranty and post-warranty services
- After-sales support through trained engineers
- Easy availability of genuine parts











#### **LOADER BUCKET OPTIONS**

**6-in-1 Loader Bucket:** Used for applications like loading, dozing, leveling, grabbing, spreading and backfilling. This bucket is useful in performing a large variety of special applications.

**Loader Tilt Bucket:** Used for general applications involving loading and dozing.



#### **REAR TYRES**

**General Purpose Tyres:** Recommended for soft soil strata applications. Provides better grip and helps maneuvering machine in slushy soil strata.

**Heavy Duty Tyres:** Recommended for hard soil strata applications.

Has additional ply rating to withstand hard soil conditions like crusher site.



#### **BACKHOE BUCKET OPTIONS**



Standard Backhoe bucket 0.30 m3: Recommended for soil applications and optimally designed for loading with high bucket fill ratio, thus ensuring higher payload in each bucket pass.

Heavy Duty bucket 0.22 m<sup>3</sup>: Used in applications like crushing where material handled is predominantly stone chips and similar material.

Trench Buckets, 1 ft and 1.5 ft width: Used exclusively for pipe-laying and trench applications. Currently offering two varieties of buckets based on the width of the trench. The 1 feet bucket is used for optical fiber cable laying operations and the 1.5 feet bucket is preferred for water pipe and electrical line applications.



Ditch Cleaning Bucket: This bucket comes with perforated holes in the bucket which helps in draining water from the load taken in the bucket. It is of great use in solid waste handling.

## **ATTACHMENTS**



Rock Breaker: For demolition electric pole and breaking of small to medium sized rocks.



Auger: For drilling, erection, plantation, fencing and similar applications.



**Quick Coupler:** Coupler allows fast changeover between bucket and other attachments.



**Ripper Tooth:** 

For removing rocks, tree stumps and ripping hard ground. Most useful in ground clearance applications.

#### **Hedge Trimmer:**

To cut back protruding branches on road and railwa lines. Best for tree and bush trimming applications.



#### Mulcher:

- · For clearing dense bushes, grinding small trees and cutting thick grass.
- For road side, canal and river bank clearance applications.



### **TECHNICAL SPECIFICATIONS**

#### **ENGINE**

Make	
Model	B3.999C32
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	
Alternator	95 Amps

#### **HYDRAULIC SYSTEM**

Max. Pump Flow.

Control Valve: Sectional valves that are individually replaceable. .. 128 lpm @ 2,200 RPM

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

#### Reverse

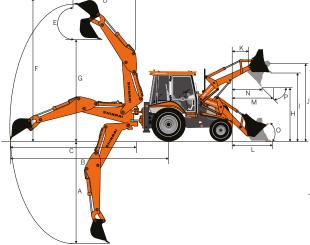
1st	6 kmph
2nd	9 kmph
3rd	Not recommended
4th	Not recommended

#### **BACKHOE PERFORMANCE**

Backhoe Bucket digging force 5,401 kgf	Backhoe Arm Length1.96 m
Backhoe Arm digging force 3,136 kgf	Backhoe Boom Length 2.46 m
Slider Frame Travel	Bucket width

Dim. Notations	Dimension	Description
А	5,003	Max. digging depth
В	7,196	Max. reach from rear axle centre
С	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



#### **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	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	
Engine Coolant	
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 Bucket	6-in-1 bottom dump bucket
Tilt Bucket	1.1 m <sup>3</sup>

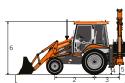
Dim. Notations	Dimension	Description
Н	2,842	Dump height
I	3,509	Load over height
J	3,729	Pin height
K	454	Pin forward reach
L	1,817	Reach at ground level
М	1,432	Max. reach at full height
N	982	Reach in bucket dump position
Bucket Angles		
0	45°	Bucket roll-in angle
Р	45°	Bucket rotation angle

All dimensions are in mm

#### MAIN MACHINE STATIC DIMENSIONS

Symbol	Measured value	Description
*	8,770	Machinery weight (minimum unit 5 kg)
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









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