ΤΛΤΛ ΗΙΤΑCΗΙ

Reliable solutions

# SHINR A POWER • RELIABLE • TRUSTWORTHY • CAPABLE YOUR STRONGEST PARTNER

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Model SHINRAI POWER Operating Weight 8,680 Kg Engine 99 HP Bucket Capacity Backhoe: 0.30 m<sup>3</sup> Loader: 6-in-1 bucket



# POWER



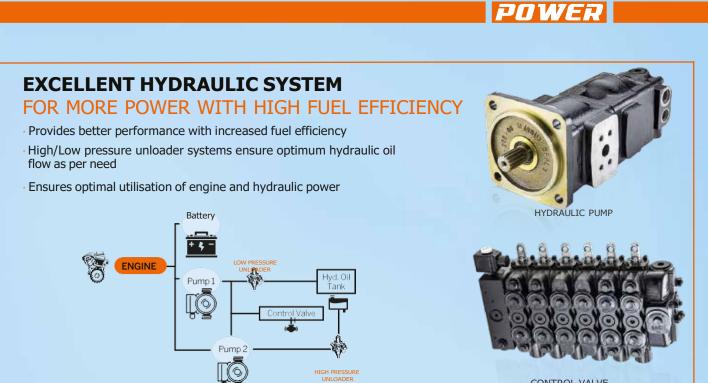
# **RELIABLE STRUCTURES FOR** LONG LIFE AND SUPERIOR PERFORMANCE IN TOUGH CONDITIONS

· 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





CONTROL VALVE



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

\*Optional

# POWER



## 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 m<sup>3</sup> :** 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 and breaking of small to medium sized rocks.



Auger: For drilling, pole 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 railway 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

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Make	Cummins
Model	B3.9 99C 32
Туре	Turbo-charged, inter-cooled direct injection
Batterv	
Bore	
Stroke	
Displacement	3.922 cc
Alternator	

#### HYDRAULIC SYSTEM

Excellent Hydraulic System (EHS) with Tandem gear pump for lower fuel consumption System Pressure ..... 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	Rear Axle
<ul> <li>Heavy-duty, non-powered axle</li> </ul>	<ul> <li>Rear Carraro axle that is heavy-duty and</li> </ul>
<ul> <li>Floats up to +/-16 degrees to handle</li> </ul>	long-lasting
uneven terrains	<ul> <li>High brake torque</li> </ul>

#### **SPEEDS**

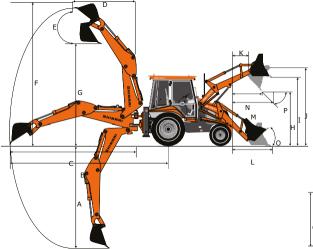
Forward	Reverse
1st 4 kmph	1st 5 kmph
2nd 7 kmph	2nd 8 kmph
3rd 17 kmph	3rd Not recommended
4th 29 kmph	4th Not recommended

#### BACKHOE PERFORMANCE

Backhoe Bucket digging force 5,534 kgf	Backhoe Arm Length 1.96 m
Backhoe Arm digging force 3,136 kgf	Backhoe Boom Length 2.46 m
Slider Frame Travel 1.050 mm	Bucket width

Dim. Notations	Dimension	Description
A	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

PINVER

#### STEERING

Type Hydraulic actuation with priority for smooth control Turning Radius Outside Loader Bucket Outside Wheels	11.73 m
TYRES	

Front (Std.)	12.5 x 16, 14 PR
Rear (Std.)	
Rear (HD)	14x25, 20 PR

#### **REFILL CAPACITY**

Fuel Tank	128 L
Engine Oil	
Engine Coolant	15 L
Transmission Oil	19 L
Rear Axle Oil	
Hydarulic Oil Refill	
Front Axle-Live	

#### LOADER PERFORMANCE

Below ground dig depth	
Loader bucket break-out force	
Loader arm break-out force	5,135 kgf
Payload	1,920 kg
Standard Bucket	6-in-1 bottom dump bucket 1.0 m <sup>3</sup>
Tilt Bucket	

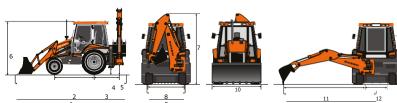
Dim. Notations	Dimension	Description
н	2,842	Dump height
I	3,509	Load over height
J	3,729	Pin height
К	454	Pin forward reach
L	1,817	Reach at ground level
М	1,432	Max. reach at full height
N	982	Reach in bucket dump position
Bucket Angles		
0	45°	Bucket roll-in angle
Р	45°	Bucket rotation angle

All dimensions are in mm

All dimensions are in mm

#### MAIN MACHINE STATIC DIMENSIONS

Symbol	Measured value	Description
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 transportation 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



Authorised Dealership

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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 scharderdquipment. Performance of the machine may vary with site and operating conditions encountered.