



TATA HITACHI

Reliable solutions

NEW

SHINRAI

• RELIABLE • TRUSTWORTHY • CAPABLE

PRIME



CEV5



74.3 HP
Engine Gross Power



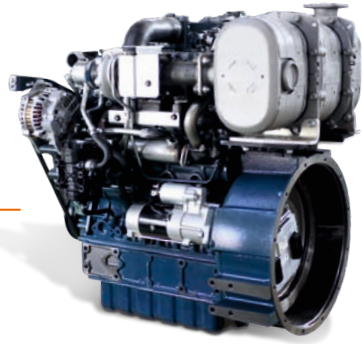
STD: 8120 kg
4WD: 8220 kg
Operating Weight



Backhoe : 0.27 m³
Loader : 1.1 m³
Bucket Capacity

RELIABLE JAPANESE ENGINE

New fuel efficient
CEV 5 Japanese
Engine



Engine



Fuel Injection Pump

- Superior engine performance
- Engine control unit (ECU) equipped with CRDI (Common Rail Direct Injection) system - Provides higher output power and torque rise while offering exceptional fuel efficiency
- 4 valve per cylinder
- Engine mounted After Treatment Device (DOC – Diesel Oxidation Catalyst + DPF – Diesel Particulate Filter)
- Automatic fuel priming system
- Rotary fuel injection pump



EFFICIENT HYDRAULIC SYSTEM

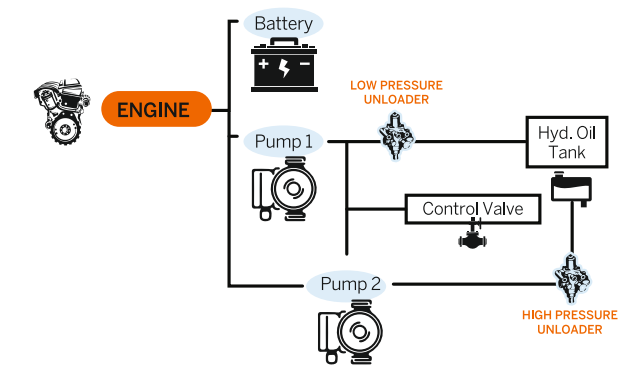


Control Valve



Hydraulic Pump

- Provides great performance with fuel efficiency
- High/Low pressure unloader systems ensure optimum hydraulic oil, when needed
- Ensures optimal utilisation of engine and hydraulic power
- Long lasting hydraulic hoses for superior life



HEAVY DUTY DRIVE LINE



Transmission



Axle

- Electronically controlled parameters for optimized performance and increased life
- Proven transmission and axle system
- 4 wheel drive**



SAFE AND COMFORTABLE OPERATOR CABIN

Meets FOPS level-II
and ROPS safety
requirements as
standard



- Well ventilated and spacious cabin
- Excellent visibility
- Comfortable operator seat
- Large leg space for comfortable operation
- Ergonomic controls
- User-friendly consoles
- Ample storage space
- Multi-functional digital display
- Air-conditioner**
- Powerful music system with FM, USB, AUX, Bluetooth and calling facility
- Quieter engine
- Ergonomically inclined rear side cabin floor for operator comfort during backhoe operation
- Pocket mesh for keeping documents and mobile phones



New CEV 5 Engine ¹

Japanese fuel efficient, compact and powerful engine with low noise and vibration

Carraro, Synchro Shuttle Transmission and Heavy-Duty Axle ¹

World renowned and market proven aggregates that enhance Reliability and Durability

Parallelogram Bar Mechanism ²

Provides high crowding force and uniform movement of the loader bucket

21' High Flow Fan ²

Enhances the engine performance in high temperature and dusty conditions

Efficient braking system ³

Provides safe and effective stopping with minimal effort

Wind Screen Guard * ³

Protects against glass breakage from falling materials dropped by loader bucket

Air Conditioning* ⁴

Helps in comfortable operation and enhances operator efficiency during long working hours

Spacious ROPS/FOPS Cabin ³

Ensures operator safety during machine roll over and against falling debris

1.96 m Backhoe Arm 2.47 m Backhoe Boom ²

Extended reach and digging depth with enhanced durability

0.27 m³ Backhoe Bucket ²

Bigger buckets for easy digging and higher production

Aesthetic Sheet Metal Fender and Skirt ²

Gives a premium look with high durability and provides better protection for internal components

Standard Tilt Dump Bucket and Optional 6-in-1 Bucket ²

Sturdy buckets for wide range of applications

2.4 m Loader Arm ²

Enables easy material loading into the center of high sided trucks

Front Counterweight ²

Provides additional stability on rough terrains and inclines

Wider Tyres* ²

With GP (for general construction and road work) and HD (for rocky, muddy or high load conditions) options

*Optional

4G TELEMATICS SUITE

inSite
INSIGHTS INTO YOUR JOB SITE



- 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 Indication
- Fuel Consumption Report
- Fleet Management
- Asset Operation
- Accessible on Web and App
- Asset Utilisation
- Overall Fleet Summary in Graphical Widgets (Dashboard)
- Ability to track Machine Maintenance/Service due date



WIDE RANGE OF ATTACHMENTS



ASSURED SERVICE SUPPORT

Hydraulic
oil change interval
of 4500 hours



Ground-Level Inspection

- Warranty, extended warranty and post-warranty services.
- On-site services through a wide network of dealerships
- Fault codes display in the cluster for ease of maintenance and troubleshooting
- Field diagnostic vehicle for immediate on-site resolution
- On-site and plant-based training programmes



Field Diagnostic Vehicle



LOADER ATTACHMENTS



SPECIFICATIONS

ENGINE

Make	Kubota
Model	V3800-CR-TE5
Type	Turbo-charged, direct injection
Gross Power	74.3 HP (55.4 kW) @ 2,200 RPM
Max. Torque	310Nm @ 1,500 RPM
Battery (with cut-off switch)	12 V, 150 Ah
No. of Cylinders	4 nos
Bore	100 mm
Stroke	120 mm
Displacement	3.7 L
Alternator	100Amps

HYDRAULIC SYSTEM

Excellent Hydraulic System (EHS) with Tandem gear pump for lower fuel consumption
System Pressure 245 bar
Max. Pump Flow 113 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 uneven terrains
- 4 WD Front Axle, King Pin Angle=7°, Camber Angle=1.5, Ratio Total-13,714:1

Rear Axle

- Rear heavy-duty Carraro axle
- High brake torque

SPEEDS

Speeds @ 1950 rpm with standard tyres

Forward

1st	5 kmph
2nd	8 kmph
3rd	17 kmph
4th	32 kmph

Reverse

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

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

REFILL CAPACITY

Fuel Tank	128 L
Engine Oil	13.2 L
Engine Coolant	14.4 L
Transmission Oil	16 L
Rear Axle Oil	17.1 L
Hydraulic Oil Refill	86 L
Front Axle-Live	9.1 L [4WD]

BACKHOE PERFORMANCE

Backhoe Bucket digging force	5,685 kgf	Backhoe Arm Length	1.96 m
Backhoe Arm digging force	3,220 kgf	Backhoe Boom Length	2.47 m
Slider Frame Travel	1,050 mm	Bucket width	784 mm

LOADER PERFORMANCE

Below ground dig depth	110 mm
Loader bucket break-out force	6,580 kgf
Loader arm break-out force	5,488 kgf
Payload	1,920 kg
Loader Bucket capacity	1.1 m ³

BACKHOE BUCKET OPTIONS

Type	Bucket size	Bucket width	Bucket weight	No. of tooth point
Standard bucket	0.27 m ³	784 mm	220 kg	5
Heavy duty bucket	0.22 m ³	695 mm	195 kg	5
Trench bucket	0.18 m ³	600 mm	216 kg	5
Trench bucket	0.12 m ³	1.5 ft	135 kg	3
Trench bucket	0.09 m ³	1 ft	122 kg	3
Ditch cleaning bucket	0.35 m ³	945 mm	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	2350 mm	680 kg	8

STEERING

Type	Hydraulic actuation with priority for smooth control
Turning Circle	inner wheel braking
Outside Loader Bucket	11.73 m
Outside Wheels	8.6 m

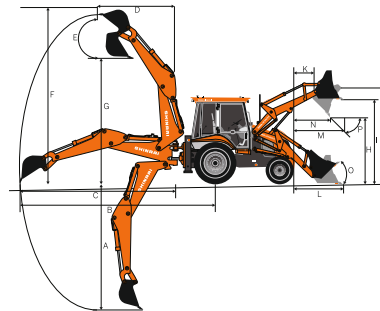
TYRES

Front (Std.)	9x16, 16 PR
Front Wider (4 WD)	12.5/80-18, 12 & 14 PR
Rear (Std.)	16.9 x 28, 12 PR
Rear (HD)	14 x 25, 20 PR

DIMENSIONS

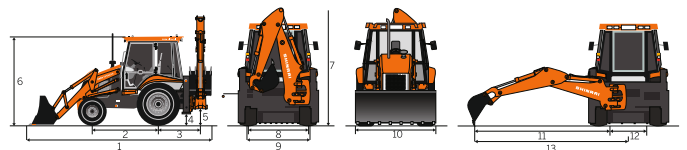
Dim. Notations	Dimension	Description
A	4,700	Max. digging depth
B	6,880	Max. reach from rear axle centre
C	5,440	Max. reach from slew centre
D	2,001	Max. reach during loading from slew centre
E	180°	Bucket rotation angle
F	6,050	Max. cutting height in backhoe (Stabilizer fully extended position)
G	4,200	Max. loading height in backhoe (Stabilizer fully extended position)
H	2,720	Dump height
I	3,305	Load over height
J	3,550	Pin height
K	367	Pin forward reach
L	1,620	Reach at ground level
M	1,332	Max. reach at full height
N	860	Reach in bucket dump position
Bucket Angles		
O	45°	Bucket roll-in angle
P	45°	Bucket rotation angle

All dimensions are in mm



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	2,970	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	1,050	Total side-shift travel
13	6,050	Max. side reach to machine centre

All dimensions are in mm | All dimensions, weights and timings are variable within 1.5%



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EXTENDED WARRANTY

SUPPORT CHAIR

CERTIFIED USED EQUIPMENT
VALUE ADDED
PREMIUM USED
VALUE



OUR RANGE OF PRODUCTS



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.