



Reliable solutions









CEV 5







New CEV 5 Engine¹

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

Spacious ROPS & FOPS-II Cabin 3

Ensures operator safety during machine roll over and against falling objects

Parallelogram Bar Mechanism²

Provides high lifting force and uniform movement of the loader bucket

21" Fan ²

Enhances the engine performance in high temperature and dusty conditions

2.62 m Loader Arm

Enables easy material loading into the center of high sided trucks

Front Counterweight* 2

Provides additional stability on rough terrains and inclines

Standard 6-in-1 Bucket

Sturdy buckets for wide range of applications



Efficient Braking System ³

Provides safe and effective stopping with minimal effort

1.96 m Backhoe Arm 2.76 m Backhoe Boom

Extended reach and digging depth with enhanced durability

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

0.30 m³ Backhoe Bucket ²

Bigger buckets for easy digging and higher production

Aesthetic Sheet Metal Fender and Skirt

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

Carraro, Synchro Shuttle ransmission and Heavy-Duty Axle

World renowned and market proven aggregates that enhance Reliability and Durability

RELIABLE ENGINE







- Superior engine performance
- Engine Control Unit (ECU) equipped with CRDI(Common Rail Direct Injection) system
- 4 valves per cylinder
- Engine mounted after treatment device (DOC - Diesel Oxidation Catalyst + DPF - Diesel Particulate Filter)
- Automatic fuel priming system
- Rotary fuel injection pump
- Quieter engine

HEAVY DUTY DRIVE LINE





- Carraro Axle and Transmission for optimized performance and increased life
- Proven transmission and axle system
- · 4 wheel drive
- · Strong and tested structures for tough operations

EFFICIENT HYDRAULIC SYSTEM





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

SAFE AND COMFORTABLE **OPERATOR CABIN**



- Well ventilated and spacious cabin
- · Excellent visibility
- Comfortable operator seat
- · Large leg space for comfortable
- Ergonomic controls
- User- friendly consoles
- Ample storage space
- Powerful music system with FM, USB AUX, Bluetooth connectivity and hands-free phone connectivity

WIDE RANGE OF ATTACHMENTS

LOADER ATTACHMENTS



ASSURED SERVICE SUPPORT



- Warranty, extended warranty and postwarranty 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







SPECIFICATIONS

ENGINE

Make	Kubota
Model	V3800-CR-TE5
Type	Turbo-charged, direct injection
Gross Power	74.3 HP (55.4kW) @2200 RPM
Max. Torque	310 Nm @ 1,500 RPM
Battery	12 V, 150 Ah
No. of Cylinders	4 nos
Bore	
Stroke	
Displacement	3.7 L
Alternator	100Amps

HYDRAULIC SYSTEM

Efficient Hydraulic System (EHS) with Tandem gear pump for lowe	r fuel consumption
System Pressure	245 bar
Max. Pump Flow	
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 speeds.

AXLE

I Front Axle

- Heavy-duty, non-powered axle
 Floats up to +/-8 degrees to handle
- 4 WD Front Axle, King Pin Angle=7°, Camber Angle=1.5, Ratio Total-13.714:1

SPEEDS

Forward	
1st	5 kmph
2nd	8 kmph
3rd	
/lth	32 kmph

Rear Axle

- · Rear heavy-duty Carraro axle
- High brake torque

Speeds @ 1950 rpm with standard tyres

Reverse	
1st	6 kmpl
2nd	9 kmpt
3rd	Not recommended
4th	Not recommended

BRAKES

Service Brake: Stepped Bore type, Oil immersed wet disc, hydraulically actuated with independent pedals that enable precise control, allowing shorter turning radii and easier manoeuvring in slushy terrains.

Parking Brake: Hand operated with Disc on Rear Axle

REFILL CAPACITY

Fuel Tank	128 L
Engine Oil.	13.2 L
Engine Coolant	14.4L
Transmission Oil	16L
Rear Axle Oil	
Hydraulic Oil Refill	86 L
Front Axle-Live	

BACKHOE PERFORMANCE (Forces as per ISO 6015 : 2006)

Backhoe Bucket digging force5,534 Kgf	Backhoe Arm Length
Backhoe Arm digging force 3,136 Kgf	Backhoe Boom Length2.76 m
Slider Frame Travel	Bucket Capacity0.30 m ³

LOADER PERFORMANCE (Forces as per ISO 6015 : 2006)

Below ground dig depth	55 mm
Loader bucket break-out force	
Loader arm break-out force	
Payload	
Bottom dump bucket capacity (STD)	
Tilt dump bucket capacity	

BACKHOE BUCKET OPTIONS (Bucket capacity as per ISO 7451: 2007 Heaped)

Type	Bucket size	Bucket width	No. of tooth point
Standard bucket	0.30 m ³	784 mm	5
Heavy duty bucket	0.22 m ³	695 mm	5
Trench bucket	0.18 m ³	600 mm	5
Trench bucket	0.12 m ³	1.5 ft	3
Trench bucket	0.09 m ³	1 ft	3
Ditch cleaning bucket	0.35 m ³	945 mm	NA

LOADER BUCKET OPTIONS (Bucket capacity as per ISO 7546: 1983 Heaped)

Туре	Bucket size	Bucket width	No. of tooth point
Loader bucket	1.1 m ³	2352 mm	8
6 in 1 Loader bucket	1.0 m ³	2357 mm	8

STEERING

Type	. Hydraulic actuation with priority for smooth and better	control
Turning Circle		
Outside Loader Bucket		11.73 m

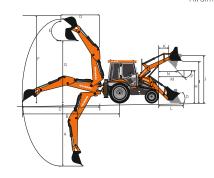
TYRES

Front	9x16, 16 PR
Front Wider (4 WD) (STD)	
Rear (STD)	
Rear (HD)	14 x 25, 20 PR

DIMENSIONS

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	6,360	Max. cutting height in backhoe (Stabilizer fully extended position)
G	4,476	Max. loading height in backhoe (Stabilizer fully extended position)
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
Ν	982	Reach in bucket dump position
Bucket Angles		
0	45°	Bucket roll-in angle
Р	45°	Bucket rotation angle

All dimensions are in mm.



Dim. Notations	Dimension	Description
1	6,325	Transport length
2	2,130	Wheel base
3	1,370	Slew centre to rear axle centre
4	320	Minimum ground clearance point
5	485	Slew ground clearance
6	2,970	Height of cabin
7	3,820	Machine transportation height
8	1,710	Rear wheel tread width
9	1,900	Front 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

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



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