

HL650I-V



* Design aesthetics & features may vary from actual

Operating Weight : 17600 - 18310 Kg

Emission : BSV Certified

Gross Power : 228 HP (170 kw) @2200 rpm

Bucket Capacity : 2.7 - 5.0 m³

Payload : 5000 Kg

DESIGNED FOR SMART WORK

MINING QUARRY S

OPERATOR COMFORT

- Fully Adjustable Suspension Seat
- Spacious Cabin - 360° View
- High Performance - Air Conditioning
- Sun Visor
- Fan
- Ergonomic Positioned - Switches and Pilot Control
- USB Charger
- Music System
- LED Lights inside cabin
- Ergonomic Hand Rest
- Tilttable Steering Column
- Digital LED Display

SAFETY FEATURES

- ROPS /FOPS Cabin **NEW**
- Openable Cabin Front Guard **NEW**
- Rear View Camera
- Battery Cut-off Switch
- Beacon
- Guard for Lamps
- Engine Emergency Cut-off Switch
- Articulation Lock
- Steps & Hand Rail
- Large External Mirror

ELECTRICAL SYSTEM

- LED Working Lights
- LED Cabin Lamp
- 5" Digital LCD display
 - a) Work Status
 - b) Error Code Display
 - c) Warning Indicators
- On Board Diagnostics (OBD)
- RMS (Remote Management System) **NEW**



HL650I-V

G AND SOLUTION



HIGH PERFORMANCE

- 228 HP BSV Compliant Electronic Engine **NEW**
- 1200Nm - Higher Torque **NEW**
- 4 Valve Technology - Efficient Combustion
- 3 Working Mode - L/M/H
- High Fuel Efficiency
- Low Noise
- Z bar linkage with high breakout force
- Faster Cycle Time
- Hydraulic operated pilot with return to dig feature
- Oil Bath Filter **NEW**

PROVEN DRIVELINE SYSTEM

- Transmission
 - Fixed shaft type power shift transmission
 - Proven Quality - High Reliability
 - Simple Design - Easy to Service
- Axle
 - Dry Type* / Wet Type - Option
 - Highly Durable - Suited for long working hours
 - ZF make Axle - Option Available

WIDE RANGE OF BUCKETS

- Suitable for various applications as per customer requirements

Standard		Option		
GP	Rock/HD	GP	Coal	Light Material
3.0	2.7	3.2	4.5	5.0

SIMPLIFIED MAINTENANCE

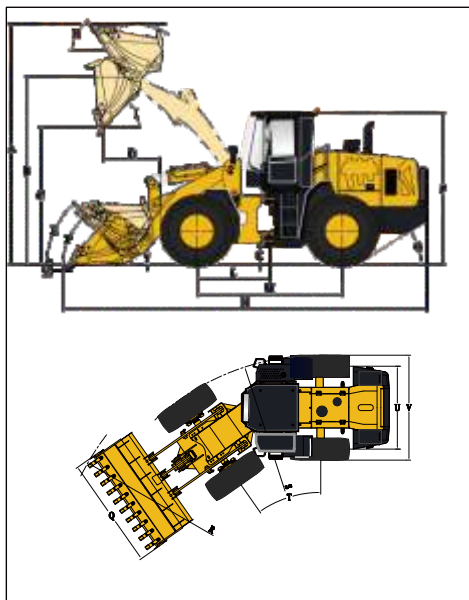
- Large side doors for easy reach to maintenance points
- Display of error codes on instrument cluster - faster resolution of any issues
- 24x7 Service and Parts availability through Hyundai authorized dealership
- Openable rear grill **NEW**

(* Standard)

SPECIFICATIONS

DIMENSIONS

All dimensions are approximate, Dimensions may vary with bucket and tire choice, Refer to operating choice



NO.	DESCRIPTION	UNIT	STD Dump	High Dump
A	Overall Height – Bucket Raised	mm	5264	5545
B	Bucket Pin Height at Max. Lift	mm	4115	4478
C	Dump Clearance at Max. Lift (45°)	mm	3056	3400
D	Reach at Max. Lift and 45° Dump	mm	1330	1254
E	Rack Back Angle at Carry	°	45	51.1
F	Rack Back Angle at Ground	°	41	44.8
G	Digging Depth	mm	50	50
H	Rack Back Angle at Max. Lift	°	57	56
I	Dump Angle at Max. Lift	°	43	44.5
J	Carry Height	mm	284	204
K	Ground Clearance	mm	398	398
L	Center Line of Front Axle to Hitch	mm	1650	1650
M	Wheel Base	mm	3300	3300
N	Overall Length	mm	8288	8567
O	Departure Angle	°	28	28
P	Height to Top of Cab	mm	3400	3400
Q	Overall Width over Bucket	mm	3000	3000
R	Min. Turning Radius over Bucket	mm	7264	7374
S	Min. Turning Radius over Tires	mm	6341	6353
T	Steering Angle – Left/Right	°	35	35
U	Width at Tread Center	mm	2240	2240
V	Overall Width over Tires	mm	2835	2835

TECHNICAL PARAMETERS

Basic	Bucket Capacity	3.0m³
	Rated Payload	5000kg
	Max Operating Weight	17600 Kg
	Max Traction Force	178 kN
	Breakout Force	186 kN
	L×W×H	8288(8567)×3000×3400mm
Engine	Maker/Model	Weichai /WP8G231E671
	Rated Power	228 HP (170kw) @ 2200 rpm
	Maximum Torque	1200Nm/1500rpm
	Bore x Stroke (mm)	126×130mm
	No. of Cylinders /Displacement	6/7.47L
	Air Cleaner	Three Stage Air Cleaner
	Alternator	70Amp
	Battery	2-24V/120Ah
	Starting Motor	24V/7.5kW
DRIVE TRAIN	Transmission Type	Planetary Powershift
	Shift Type	Mechanical Powershift Control
	Pressure of Transmission	1.1-1.5MPa
	Torque Converter Type	Single-stage, Duo-turbine, 4-element
	Axles	Rigid (Front)&Oscillating (Rear)
	Rear Axle Oscillation (°)	±10
	Differential	Conventional
	Main Reducer	Spiral Bevel, 1-stage Reduction
	Final Reducer	Planetary Reduction
	Tire	23.5-25 L-3 16PR TT
BRAKE SYSTEM	Travel Speed-Forward	10.2/35 km/h
	Travel Speed-Reverse	16 km/h
	Service Brake	Gas Push Oil Caliper Brake
	Setting Pressure	0.70-0.78MPa
	Parking Brake	Air Actuated Caliper Brake
STEERING SYSTEM	Emergency Brake	Air Actuated Caliper Brake
	Type	Hydraulic Load Sensing System
	Pump	220L/min·2200rpm
	System Pressure	15MPa
HYDRAULIC SYSTEM	Cylinder Type	Double Acting
	Steering Angle	±35°
	Type	Joystick Control (Single-lever)
	Pump	220L/min·2200rpm
	Control Valve	2 Spool
SERVICE REFILL CAPACITY	System Pressure	18MPa
	Cycle Time (Sec)	11
	Fuel Tank (L)	285L
	Hydraulic Tank (L)	265L
	Crankshaft (L)	17L
	Transmission (L)	48L
	Front Axle/Rear Axle (L)	28L/28L

STANDARD CONFIGURATION

WEICHAI BSV ENGINE
Mechanical Power-shift Control
Dry-Type Axle
Joystick Working Control (Single Lever)
Air Actuated Caliper brake
ROPS & FOPS Cabin
Air Condition and Heating
Tilttable Steering
Digital LCD Display
Rear View Camera
FAN Inside Cabin
Beacon
USB Charger
Sun Visor
Front Cabin Guard
Radio/MP3 Music System
Lockable Oil Tank Cap
Oil Bath Filter
RMS (Remote Management System)

OPTIONAL CONFIGURATION

High Dump
Radial & Tubeless Tires
3rd Spool for auxiliary Function
Sliding Cabin Window
Wet Drive Axle
ZF Transmission
Rock Bucket - 2.7 m3
GP Bucket - 3.2 m3
Coal Bucket - 4.5 m3
Light Material Bucket - 5.0 m3
Bucket - 3 Piece Cutting Edge

SERVICE REFILL CAPACITY

Engine Oil	22 Ltr
Hydraulic Oil	165 Ltr
Transmission Oil	48 Ltr
Axle Oil	56 Ltr
Brake Oil	5.4 Ltr

HD Construction Equipment India Pvt. Ltd.

Factory Location

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