HITACHI

Reliable solutions







HYDRAULIC EXCAVATOR

Model Code : EX8000-6 Engine Rated Power : 2 x 1 450 kW (2 x 1 940 HP) Operating Weight : Loading Shovel : 825 000 kg Backhoe : 837 000 kg Loading Shovel Bucket : Heaped : 40.0 - 43.0 m³ Backhoe Bucket : SAE, PCSA Heaped : 43.0 - 48.0 m³

Ultra Large Sized Production from the Hitachi Gigantic Excavators

The Hitachi Giants Yield Amazing Mining Production... Setting a New Standard



Giant-Sized Productivity Based on Hitachi's Theory of Evolution.

Each Hitachi generation listens to the needs of the work site and gives birth to an even-better new generation.

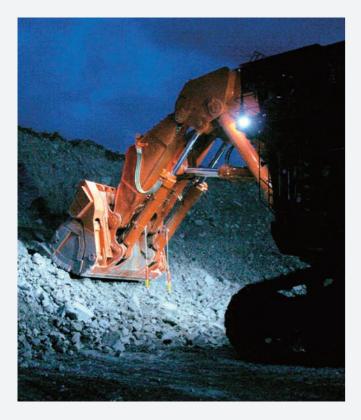
Bucket Passes to Dump Trucks

Dump Truck	EH4000ACII	EH5000AC-3
Nominal Payload	222 tonnes	296 tonnes
Loading Shovel 40.0 m ³	3	4 or 5
Backhoe 43.0 m ³	3	4

Powerful Engines— Ready for the task.

Time-proven twin Cummins diesel engines produces for handling the big excavation jobs.

Engine Rated Power. • 2 x 1 450 kW (2 x 1 940 HP)





Emission Control Engines— Helping to protect our environment.

Conform to U.S. EPA Tier II emission regulations.

Efficient E-P Control— Adjusts power output to the work being performed.

Hitachi's computer-aided Engine-Pump Control (E-P Control) coaxes optimum efficiency from the engines and hydraulic pumps. This innovative system senses load demand and controls engine and pump output for maximum operating efficiency.

Flow-Assisting Circuit— Allows dynamic actions.

Using the meter-in valves, ample-capacity make-up valves, and flow-assisting pumps, the flow speed is increased in cylinders for dynamic actions. Especially, between dumping and digging.

Maximum Excavating Force. Loading shovel (40.0 m³ bucket)

- Arm crowding force on ground : 2 870 kN (293 000 kgf)
 Bucket digging force : 2 400 kN (245 000 kgf)
 Backhoe (43.0 m³ bucket)
- Bucket digging force

ISO : 2 020 kN (206 000 kgf) SAE,PCSA : 1 900 kN (193 400 kgf) • Arm crowd force ISO : 1 770 kN (180 700 kgf) SAE,PCSA : 1 750 kN (178 300 kgf) Larger Bucket Provides High Work Capacity.

Loading shovel bucket : 40.0 m³
Backhoe bucket : 43.0 m³



More Than Durable— Just Plain Tough

Built-in toughness means that Hitachi will continue to get giant-sized jobs done fast.

Rigid Box Design— Resists bending and twisting forces.

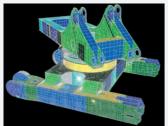
Computer-assisted analysis was used to check that the frame box can withstand heavy-duty excavation work.

Center Track Frame— More strength for this key area.

The center track frame of integral cast steel structure can avoid stress concentration and increase reliability.

Rugged Lower Rollers, Track Links and Drive Tumblers— Help to boost durability at rough tough work sites.

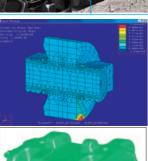
Lower rollers, track links and drive tumblers are newly designed to sustain the giant body for increased durability.

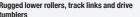














Constant Correct Track Tension— Nitrogen gas accumulators absorb abnormal track tension.

Movement is automatically stopped if accumulator pressure exceeds a preset level. Alert information and ountermeasures will be indicated on the multi-display monitor, at this time.

Flow-Retarding Control at Cylinder Stroke Ends-Improves controllability with longer service life.

This helps reduce impact at the stroke end to increase controllability and to extend service life. This mechanism is provided for arm/bucket roll-in and roll-out.



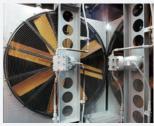
potential.

High-Pressure Filters— Provide clean oil.

These filters are positioned down line from the pumps to help prevent damage in the event of pump failure. Positioned for easy.

Strategically Positioned Oil Coolers— Help keep oil temperatures lower.

Three oil coolers are positioned far from the engine radiator for even better cooling





Designed to Offer Comfort and Intelligence

Comfortable operator space and simplified maintenance, backed by Hitachi technologies and experience.

High Visibility 9.0 Meter Cab Height— Providing a clear view of the work area.

This cab gives the operator a clear view, even when a large 300 tonnes class dump truck is being loaded.

Rugged Comfortable Cab— Protects the operator from falling objects.

Fluid filled elastic mounts help absorb vibration to provide durability and a comfortable ride. The OPG* top guard level II (ISO) is provided on the cab roof.

Plenty of Utility Space— Allows full 24-hour operation.

Plenty of utility space is provided behind the operator seat to hold a table, electronic oven, and refrigerator.

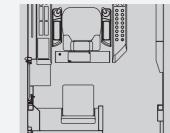
Efficient Cab Layout— All controls within natural reach of operator.

The ergonomic layout of the cab means the operator will do less stretching and reaching when operating the controls.

Electric Joystick Levers— Provides pleasant control with less fatigue.

Electric joystick control levers have a feathertouch allowing long periods of effortless operation. Its stroke is much shorter than that of hydraulic control.









Air Suspension Seat with Auto Operator Weight Adjuster.

The operator seat cushion can automatically be adjusted according to the operator weight. This is convenient for a machine operated by two or more operators.

Adjustable Sliding Cockpit— Moves to the best position for the operator.

The operator can adjust the position of the levers and the seat to custom fit his size and operating style.

Constant-Cab-Comfort Air Conditioner— Keeps the cab pressurized to keep out dust while maintaining comfortable temperature.

Intelligent Multi-Display Monitor provides machine data and operating status at a glance.

The operator can monitor machine conditions and operating status with a 10.5-inch color LCD. The controller provides instant fault diagnosis through all sensors, displaying warnings and countermeasures if failure arises.

Major Functions:

- \cdot Multiple meters, and alert symbols indication
- · Alert/failure status, and countermeasures indication
- Snap-shot function that stores operating data, including fiveminute operating data immediately before alerting, and succeeding one-minute data (temperatures, pressures, and more)
- \cdot Setting oil change intervals with alerting

Much more functions are provided to ease maintenance and servicing.



Illustration shows a sample of the Emergency Switch.

Outside Cameras (Optional)— Enhances operator's visibility.

The operator can monitor around the machine, using four optional cameras to eliminate blind spots.





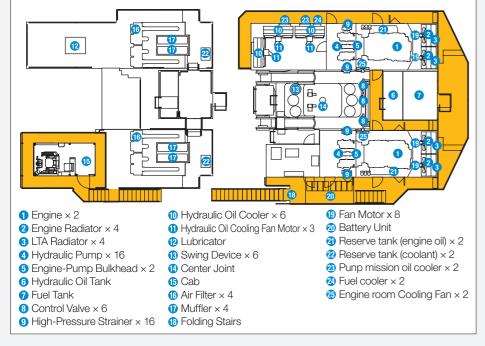


Designed to be Maintenable

Carefully engineered to allow full 24-hour operation.



The wide fender, spacious counterweight top and central passage give easy access to major components for convenience of inspection and maintenance.

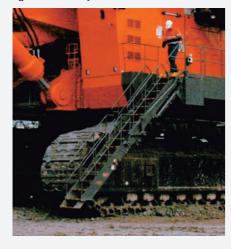




Folding Stairs with Wide Steps.

Folding stairs are designed for easy access to the machine

for servicing and maintenance.



Easy Bucket Tooth Replacement— This area is designed to be easily maintained.

Innovative bucket tooth and shrouds are used to cut maintenance time.

Protective Engine and Pump Bulkhead— Contributes to lower heat and less potential for damage.

Steel barrier keeps these two areas independent.

Auto Lubrication System— Eliminates the need for manual lubrication.

This system automatically lubricates the front joint pins and swing circle. This eliminates cumbersome daily lubrication. A spare pump is provided standard for the auto lubrication system.

Low Maintenance Dust Ejector-Automatically expels dust from the air cleaner.

This is one less time-consuming task during routine maintenance.

Contamination Sensor— Alerts the operator of excessive contaminants in the oil.

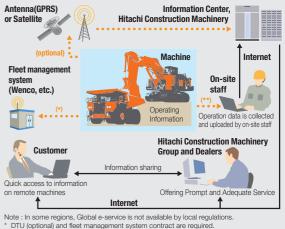
This system detects accumulated contaminants that could

cause damage and alerts the operator before trouble occurs



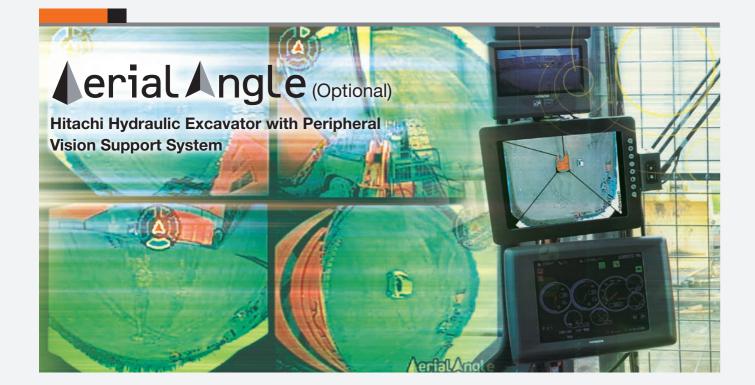
Remote Machine Management with Global e-Service

This on-line machine management system allows you to access each on-site machine from a PC in your office. You can get its operating information and location to increase productivity. Operating data and log are sent to a Hitachi server for processing, and then to customer and dealers. This system is available 24 hours a day, all the year around.



DTU : Data Transfer Unit

WIU (optional) to transmit operating data for wireless collection is required WILL: Wireless Interface LInit



Camera Monitor

A camera monitor for AerialAngle is located on the left-front pillar of the cab. A screen changeover switch is located on the right hand side of the monitor.

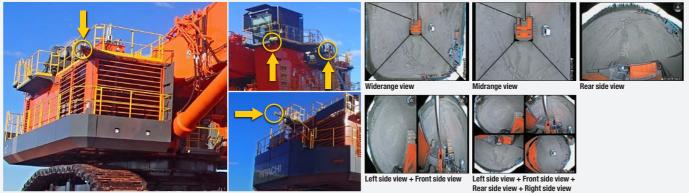


Camera Monitor for AerialAngle

Locations of the Cameras & Viewing Angles

The AerialAngle feature is available to significantly increase peripheral vision around the hydraulic excavator by providing synthesized multiple images captured by cameras specifically positioned at 4 locations around the excavator.

The feature displays camera views on a single monitor to allow operators an auxiliary means of checking for ground level obstacles.



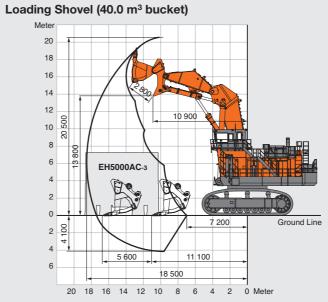
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* 4 on-board cameras on the EX8000.

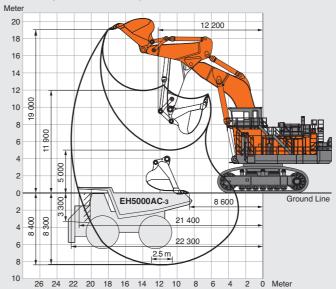
Aerial Angle is an auxiliary safety system and its use should never substitute for the use of common-sense safety measures, direct visual observation, and professional judgment. Never rely solely upon Aerial Angle to assess the surrounding environment When operating the machine, be sure to check directly all around the machine with your eyes for safety operating.

SPECIFICATIONS

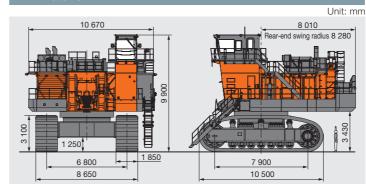
WORKING RANGES



Backhoe (43.0 m³ bucket)



DIMENSIONS



ENGINE

Unit: mm

Cummins QSKTA60-CE		
Rated power @ 1 800 min ⁻¹ (rpm)		
2 x 1 450 kW (2 x 1 940 HP)		
2 x 60 L		
14 900 L		

HYDRAULIC SYSTEM

Main pumps	16 variable-displacement, axial piston pumps for
	front attachment, travel and swing
Max. oil flow	16 × 500 L/min
Pilot pump	2 gear pump
Max. oil flow	2 × 110 L/min

DIGGING FORCE

Loading Shovel (40.0 m ³ bucket)	
Arm crowding force on ground	2 870 kN (293 000 kgf)
Bucket digging force	2 400 kN (245 000 kgf)
Backhoe (43.0 m ³ bucket)	
Bucket digging force	ISO : 2 020 kN (206 000 kgf)
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Arm crowd force	ISO : 1 770 kN (180 700 kgf)
	SAE,PCSA : 1 750 kN (178 300 kgf)

UPPERSTRUCTURE

Swing speed ...

Loading Shovel : 3.2 min⁻¹ (rpm) Backhoe : 3.9 min⁻¹ (rpm)

UNDERCARRIAGE

Travel speeds.

High: 0 to 2.0 km/h Low : 0 to 1.4 km/h

WEIGHTS AND GROUND PRESSURE

Loading Shovel

Equipped with 40.0 m³ (heaped) bottom dump bucket.

Shoe width	Operating weight	Ground pressure
1 850 mm	825 000 kg	248 kPa (2.53 kgf/cm ²)

Backhoe

Equipped with 11.5 m boom, 5.8 m arm, and 43.0 m³ (SAE, PCSA heaped) Bucket.

Shoe width	Operating weight	Ground pressure
1 850 mm	837 000 kg	252 kPa (2.57 kgf/cm ²)

ATTACHMENTS

Loading Shovel

Bucket Capacity (heaped)

40.0 m³ : Materials density 1 800 kg/m³ or less

43.0 m³ : Materials density 1 600 kg/m³ or less

Backhoe

Bucket Capacity (SAE, PCSA heaped) 43.0 m³ : Materials density 1 800 kg/m³ or less 48.0 m³ : Materials density 1 800 kg/m³ or less

The number of wear plates and their installation positions on the bucket of loading shovel or backhoe vary depending on applications at job site. The installation of wear plates is indispensable.

Consult your nearest Hitachi or Hitachi dealer for details.

ENVIRONMENT

Auto control air conditioner contains fluorinated greenhouse gases, Refrigerant type: HFC-134a, GWP: 1430, Amount: 4.50 kg, CO2e: 6.44 ton.

MEMO	MEMO





Before using a machine with a satellite communication system, please make sure that the satellite communication system complies with local regulations, safety standards and legal requirements. If not so, please make modifications accordingly.

These specifications are subject to change without notice. Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, read and understand the Operator's Manual for proper operation.

Hitachi Construction Machinery Co., Ltd. www.hitachi-c-m.com

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