EH series

EH 4000 AC–5

HITACHI

Reliable Solutions

Rigid Dump Truck

Model:
EH4000AC-5

Nominal Payload with Standard Equipment:
242 tonnes (267 tons)

Nominal Gross Machine Operating Weight:
427 tonnes (471 tons)

Engine (Standard):
Cummins QSKTA60-CE

Rated Power:
1 864 kW (2 500 HP)

Hitachi Construction Machinery Group
LANDCROS
Japanese Excellence—Reliable Solutions

OVERVIEW & FEATURES

PRODUCTIVITY | RELIABILITY

SAFETY | COMFORT

DURABILITY | EFFICIENCY

Performance built for greater speed, capacity and efficiency.

Boost your productivity as you move more material per shift with faster haul cycles, lower costs per tonne, and steadier uptime – all without sacrificing the control and comfort our trucks are known for.

The EH4000AC-5 is designed to deliver results on demanding haul roads. Engineered for continuous operation with enhanced traction and a high-capacity braking system, it provides the durability and reliability mining sites depend on.

* As of January 31, 2026, includes rigid dump trucks with a gross machine operating weight in the 400 tonne class, according to a survey by Hitachi Construction Machinery.

DELIVERING MORE WITH EVERY HAUL

242 TONNES (267 TONS)
NOMINAL PAYLOAD

Class-leading payload* means **fewer cycles per shift and more material moved.**

You'll benefit from **lower unit haul cost and improved fleet productivity.**

65 KM / H (40 MPH)
MAXIMUM SPEED

Class-leading speed* and smooth power delivery means **shorter haul times even on long runs and grades.**

You'll benefit from **faster cycle times without sacrificing control.**

IMPROVED FUEL EFFICIENCY

System-level efficiency and adaptive work modes support your sustainability goals without sacrificing performance, delivering **greater productivity per liter even during high-output hauling**.

You'll benefit from **faster cycle times and reduced fuel spend.**

LONG-TERM RELIABILITY

Durable, reliable design and steady performance means greater uptime across demanding haul conditions.

You'll benefit from **lower lifecycle costs and less unplanned downtime.**

Designed in response to real-world demands and built for long-term performance and reliability, the EH4000AC-5 consistently delivers greater productivity now and into the future.

POWERTRAIN & PERFORMANCE

PRODUCTIVITY | RELIABILITY | EFFICIENCY

Responsive power, stable control, and reliable hauling performance engineered for dependable operation across varied and demanding haul road conditions.

Stable, efficient power delivery for reliable hauling performance

HIGH-OUTPUT ENGINE

Powerful, efficient engine delivers strong, consistent power with optimized fuel efficiency for demanding mining operations. A reliable, electronically controlled fuel injection system ensures precise combustion, stable performance and dependable hauling under varying load conditions.

New hydraulic single radiator twin fan improved cooling system maintains stable and efficient engine performance. Hydraulic twin-fan system optimizes fan speed independently from the engine – matching cooling to thermal demand rather than engine speed – ensuring stable cooling and improved fuel economy across varied travel speeds.

Smooth, precise, high-output drive performance

HITACHI AC DRIVE SYSTEM

High-output drive performance delivers smooth acceleration and excellent gradeability under full load, enabling shorter cycles and higher productivity.

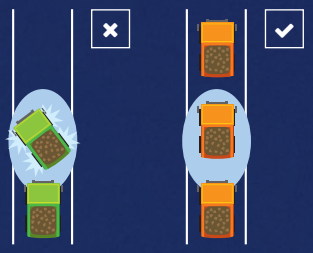
High-precision detection supporting total truck control with improved detection logic and sensors, enabling accurate monitoring of speed, load, and road conditions, enhancing smooth driving, stable braking, safer handling, and greater comfort.

Reliable cooling and protection systems offer robust cooling and protective functions that safeguard inverters, wheel motors, and gearboxes, ensuring consistent performance and long-term durability in harsh mining conditions.

Enhanced truck stability through advanced drive control

HITACHI AC DRIVE CONTROL

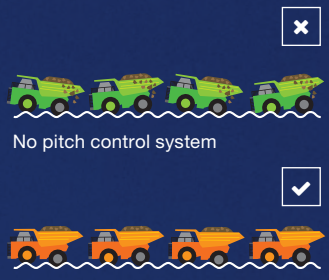
Slip control
Speed sensors on front and rear wheels automatically adjust torque, reducing wheel slip and increasing traction.



No slip / slide control system

With slip / slide control system

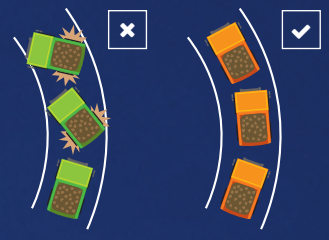
Pitch control
Continuously monitors speed and suppresses pitch caused by braking or suspension changes, ensuring smoother and more stable operation.



No pitch control system

With pitch control system

Side skid control
Adjusts traction to reduce understeer and oversteer, using inputs from speed, steering angle, lateral acceleration, and dual brake sensors.



No side skid control system

With side skid control system

Intuitive power selection for efficient performance in any conditions

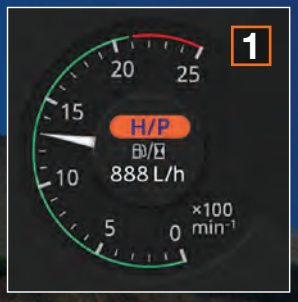
WORK MODE SWITCH (NEW)

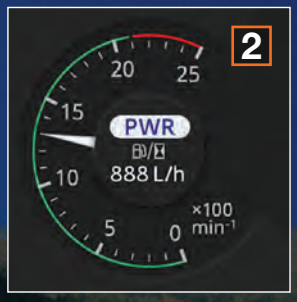
A new center console Work Mode switch offers three drive modes to match working conditions:

High Power Mode – delivers maximum traction and acceleration for steep or heavy-load conditions

Power Mode – balances fuel efficiency and performance for standard transport

Eco Mode (Default) – saves fuel on long-distance or light-load hauls, reducing costs and environmental impact.





POWER MODES
1: High Power Mode
2: Power Mode
3: Eco Mode (Default)

BRAKE SYSTEM

RELIABILITY | SAFETY | EFFICIENCY

Stronger, more reliable braking supports higher payloads and delivers confident control across challenging haul-road environments.

Stable, dependable braking via an integrated system

BRAKE SYSTEM

The integrated braking system combines electric braking with front and rear wet multi-disc service brakes for consistent control on every haul.

A hydraulic backup maintains service-brake capability if primary hydraulic pressure is ever lost.

Together, these systems deliver stable, predictable braking and reliable stopping performance across all operating conditions.

Front and rear wet disc brakes

Large-capacity grid box

Stronger, more consistent service braking

FRONT & REAR WET DISC BRAKES

Wet multi-disc brakes deliver consistent braking while hydraulic control boosts reliability and service life.

Oil cooling of the brake disc and pad reduces heat generation, maintains stable braking, and minimizes wear and maintenance costs.

Comprehensive safety features include hydraulic system alerts via display and buzzer and an accumulator for emergency braking.

Stable electric braking with increased capacity

LARGE-CAPACITY GRID BOX

Electric braking slows the truck by converting motion into electrical power rather than friction, ensuring smooth deceleration with reduced mechanical wear.

Expanded grid box capacity (870 kW) dissipates greater amounts of braking energy, delivering stable performance during long or demanding operations through improved heat management and airflow control.

Controlled, intuitive braking support

BRAKE RETARDER PEDAL

Advanced dual brake system prioritizes electric braking and an automatic hydraulic brake that engages when additional stopping power is required.

Energy efficient braking reduces wear and provides controlled deceleration by generating electrical energy instead of friction.

Hydraulic braking blends automatically with electric braking in response to increased pedal force, delivering safer, more reliable control on slopes and rough ground.

Reliable, on-board diagnostics for safer operation

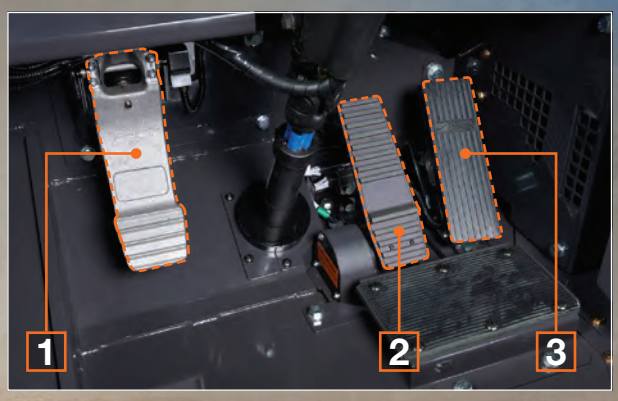
BRAKE TEST MODE

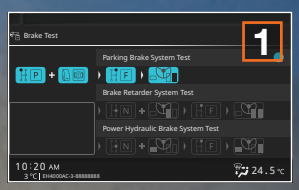
Power hydraulic brake test includes a complete check of braking performance for more reliable diagnostics.

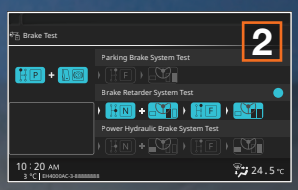
Real-time analysis detects abnormalities and individually tests wheel motor torque, hydraulic pressure and key brake functions.

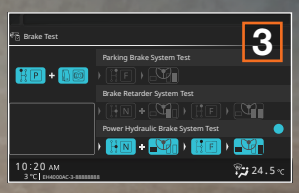
Automatic diagnostics provide instant brake performance data with warning display and buzzer for safer operation.

PEDALS 1: Power hydraulic brake pedal 2: Brake retarder pedal 3: Accelerator pedal







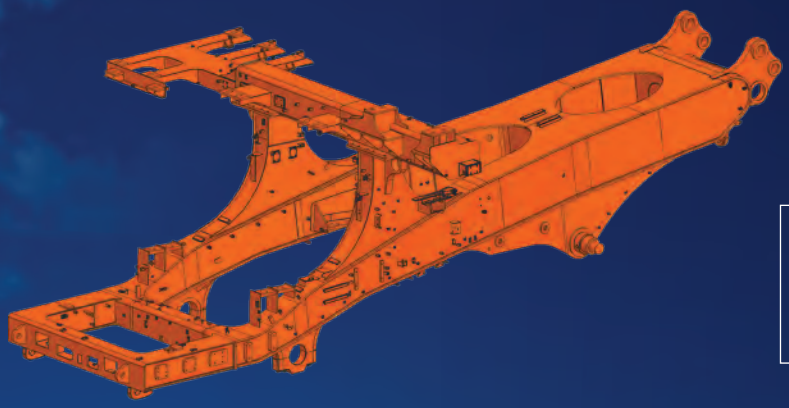


BRAKE TESTS
1: Parking brake
2: Hydraulic brake operated by brake retarder pedal
3: Hydraulic brake operated by power hydraulic brake pedal

STRUCTURE & FRAME

RELIABILITY | DURABILITY

Greater structural durability and proven suspension performance deliver stable, long-term hauling in harsh, high-load mining environments.



OPTIMIZED FRAME
The EH4000AC-5's frame cross-section is optimized so that the upper portion supports load from the body pad, while the vertical frame plate supports load from the hoist plate.

Long-term reliability and durability
RIGID FRAME DESIGN

Upgraded reinforced main frame structure builds on the EH5000AC-3's proven high-strength design with added rigidity and reduced stress concentration to extend frame life.

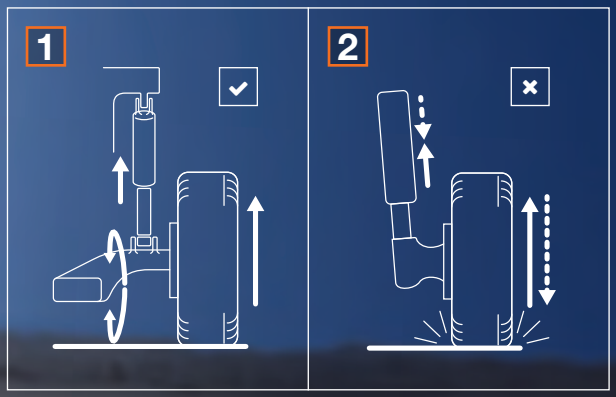
Refined rear axle mount integrates the mount with the frame bottom plate to reduce weld stress, boost durability and lower operating costs.

Reduced maintenance and assembly time via a high-quality structure and bolt-on high-arch design that eliminates welds and simplifies servicing.

Smoother, more stable handling across challenging site conditions
TRAILING ARM & NEOCON SUSPENSION

Superior shock absorption performance with NEOCON struts and fluid dampers reduces operator burden, improves comfort and maintains stability under heavy loads.

Outstanding durability and stability from robust trailing arm suspension that optimizes axle-to-frame connection and distributes load for reliable handling.



TRAILING ARM COMPARISON

1: **Our design**
The EH4000AC-5's pivot-mounted trailing arm restricts wheel movement to the vertical plane, improving steering stability and extending tire life.

2: **Competitor designs**
Without this feature, competitor trucks allow lateral movement, causing more tire scuffing and reducing tire life.

TRUCK BODY

PRODUCTIVITY | DURABILITY

Lightweight strength and reinforced durability for efficient, high-payload hauling in demanding mining environments.

High-capacity hauling for greater productivity

242 TONNES (267 TONS) NOMINAL PAYLOAD

Haul more every cycle with the highest nominal payload in its class* – 242 tonnes (267 tons) – the result of a strengthened structure and Ultra Light Weight Body, standard across the AC-5 series.

*As of January 31, 2026, includes rigid dump trucks with a gross machine operating weight in the 400 tonne class, according to a survey by Hitachi Construction Machinery.

Lightweight, high-strength body for higher payloads

HITACHI ULTRA LIGHT WEIGHT BODY (STANDARD)

Refined body structure delivers high rigidity and strength with reduced weight via rounded corners, fewer stiffeners and reinforced joints.

Excellent maneuverability and stability from a body fully compatible with Hitachi Construction Machinery trucks, ensuring smoother handling in demanding conditions.

Impressive, long-term durability with wear-resistant 400 BHN high-tensile steel, lowering maintenance costs, even in tough, extended operations.

Material-specific bodies for optimal performance

OPTIONAL BODIES

Optional body designs tailored to specific load and haul applications:

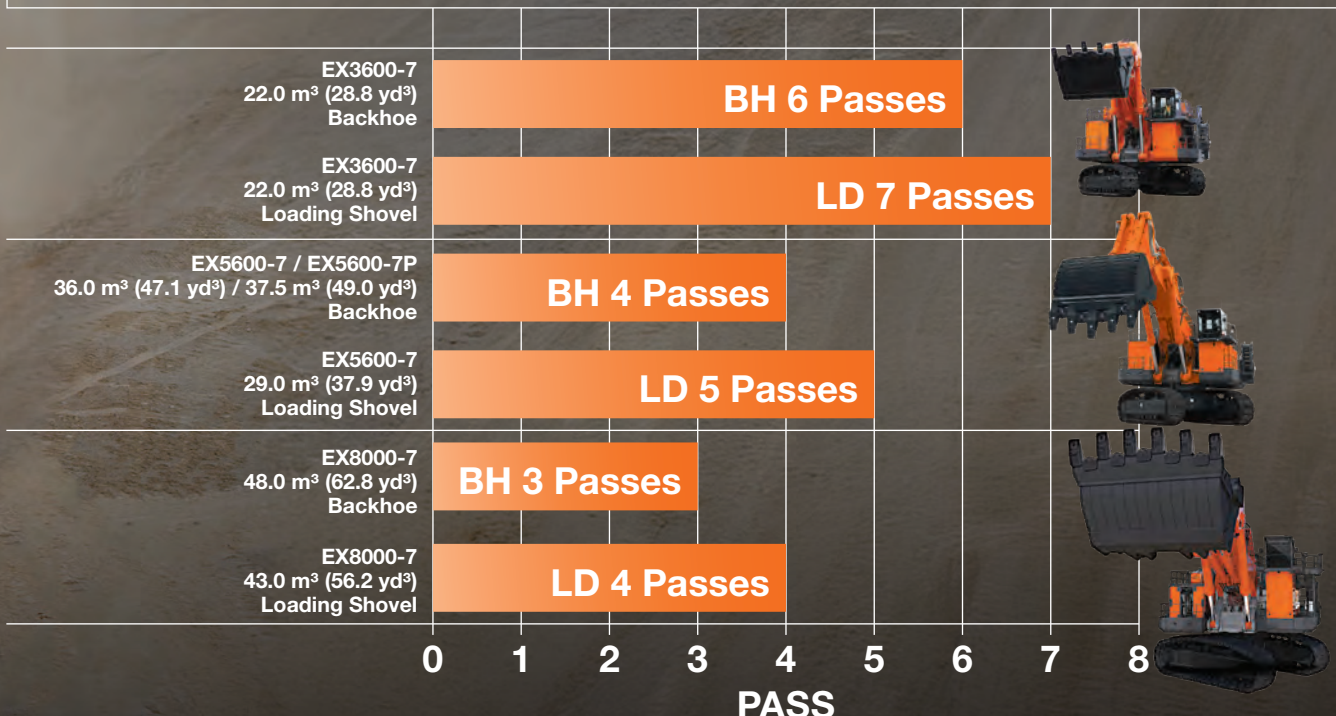
Coal Body – optimized for low-density, low-wear minerals to improve discharge efficiency and reduce weight.

Iron Ore Body – designed for high-density ores with enhanced wear resistance.

Customized Body – custom designs tailored for special applications or unique material profiles.

Heated Body – engineered to prevent adhesion of sticky materials by warming the body with exhaust heat.

WELL MATCHED: EH4000AC-5 & EXCAVATORS*



*Actual loading conditions may vary. Final pass adjustment may be required to avoid exceeding the rated payload.

OPERATOR ENVIRONMENT

COMFORT | SAFETY

Improved awareness, comfort and intuitive control for safer, more confident operation – ensuring operators stay informed and make faster decisions.

More comfortable and convenient operation

EXPANDED WORKING SPACE

More comfortable working environment with a wider, more open layout and added space.

Improved operator convenience with increased in-cab storage.

Enhanced operability to ensure the cab layout reduces operator burden.

Smoother, safer and easier speed control

CRUISE CONTROL / RETARDER CONTROL LEVER

New lever-style cruise and retarder control allows speed and braking adjustments without significantly moving the operator's line of sight.

Simplified operation with intuitive back-and-forth lever motion for seamless speed and braking control.

Smooth and precise control via an ergonomic shape and optimized range of motion that reduces fatigue and supports safer operation.

Clearer information, real-time awareness and safer operation

DUAL DISPLAY SYSTEM

Main Display provides clear driving information

Sub Display shows work status and machine condition.

Operators can recognize warnings instantly without looking away from the haul road.

Simpler, more intuitive switch layout

OPERATION SWITCH LAYOUT (UPGRADE)

Driver-centered layout with controls arranged around the driver seat for smoother, safer operation and intuitive, precise control.

Reconfigured switch design replaces pad-type switches with rotary and push-button controls for improved operability.

Enhanced convenience and accessibility with Work Mode selection and power window switches added to the center console.

SAFETY

SAFETY | EFFICIENCY

Enhanced operator protection and clearer situational awareness combine for safer, more confident operation.

Clearer visibility with reduced blind spots

INTEGRATED VISIBILITY FEATURES

Wide-angled mirrors provide extended views of side and front areas.

Aerial Angle overhead cameras generate a 360° bird's-eye perspective for accurate truck positioning.

Real-time monitoring enables operators to instantly assess surroundings with confidence.

Smarter situational awareness for safer operation

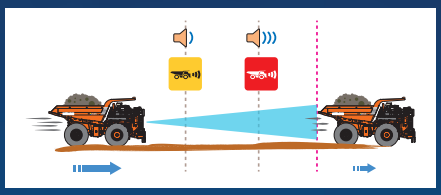
AERIAL ANGLE SYSTEM

The Aerial Angle System combines 360° overhead cameras with millimeter-wave radar to deliver situational awareness and precise hazard detection.

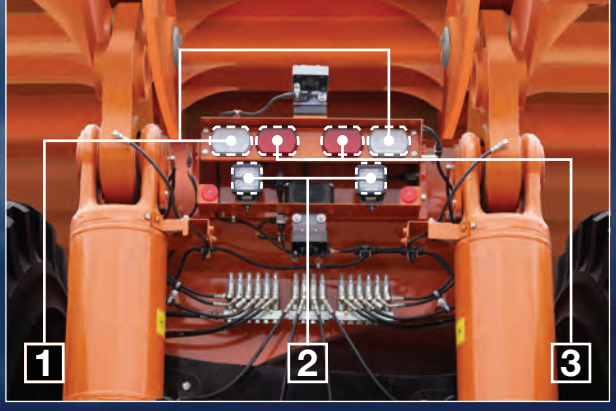
Visual and audio alerts help operators respond quickly and drive with greater confidence.

Two safety modes for all conditions:

Stationary Mode detects workers and obstacles during loading, unloading, and parking to reduce close-range risks.



Forward Mode monitors obstacles and trucks up to 150 m (492 ft) ahead, issuing early alerts for safer, smoother hauling.



UPGRADED LIGHTS 1: Hazard Light, Turn Signal Light, Retarder Light
2: Reverse light 3: Brake Light, Tail Light

Improved deceleration visibility for safer hauling

NEW LED RETARDER LIGHTS (UPGRADE)

Improved visibility with high-brightness LED lights that automatically activate during retarder operation, signaling deceleration to following vehicles and workers.

Wide visibility design positions lights high on both sides of the rear body for clear visibility from afar and in low light and poor weather.

Long-life, energy-saving LEDs reduce power consumption and operating costs.

Safer maintenance with less downtime

BATTERY & STARTER ISOLATION SWITCH (NEW)

Individually controlled isolation switches allow separate disconnection of battery and starter circuits to prevent accidental engine starts during maintenance.

Targeted circuit shutdown enables faster inspections and repairs with less downtime.

Clear, intuitive switch layout improves visibility and ensures quick access for fast response in routine or emergency situations.

Battery & starter isolation switches

Safer, easier access and emergency egress

POWER LADDER OPTION (NEW)

Power (electric lift) ladder enables smooth boarding and exit at the push of a button.

Stable, secure design reduces fall risk during ascent and descent, with manual deployment for emergencies.

Durable construction using rust- and dust-resistant materials for long-term reliability.

The ROPS / FOPS cab.

Structural protection for safer operation

ROPS / FOPS CAB

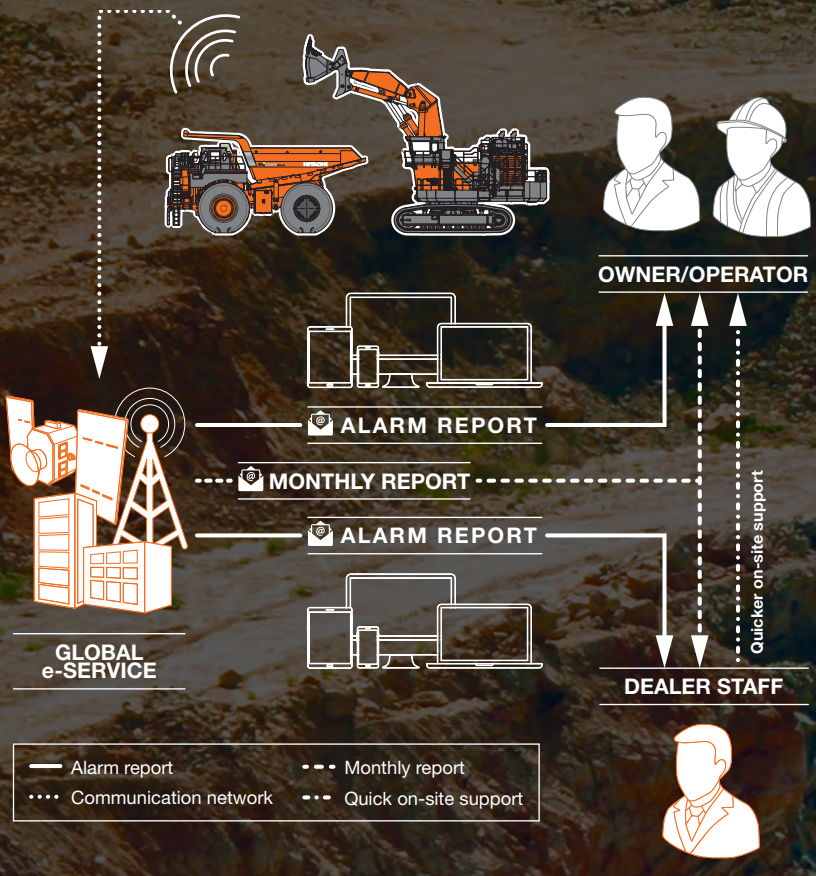
Enhanced protection against rollovers and falling objects with ROPS (Roll-Over Protective Structure) and FOPS (Falling Object Protective Structure) certified cab featuring double-wall, 11-gauge steel panels for greater operator safety.

Reinforced frame and isolation mounts reduce cab vibration, improve operator comfort, and ensure safer operation in high-impact environments.

MONITORING SYSTEM

PRODUCTIVITY | RELIABILITY

ConSite Mine allows mine sites to remotely monitor compatible dump trucks and excavators – including the EH4000AC-5 – 24/7 using IoT and AI analysis of the equipment's operational data.



ConSiteMine

Smart technology that helps you get the most out of your machines

CONTINUOUS MONITORING SYSTEM

ConSite Mine sends two kinds of status reports to customers and their dealers via email or the ConSite Mine Shot smartphone app:

Monthly Reports – updates on the machine's operational data each month, and

Alarm Reports – immediate notifications when abnormalities are detected that may require urgent attention.

ConSite Mine provides greater value to customers:

- improving safety and productivity
- reducing lifecycle costs, and
- minimizing machinery downtime.

ConSite Mine delivers these benefits by enabling mine sites to access detailed analysis reports that allow them to perform maintenance, inspection, and parts replacement based on the actual condition of their machinery rather than using the rough measure of operational hours to predict when to perform maintenance.

CONSITE POCKET APP

The ConSite Pocket app works with ConSite Mine and our Global e-Service machine condition management system.

SCAN HERE TO WATCH THE VIDEO

Monitor your machines closely with ConSite Mine

DATA REPORT SERVICE

MONTHLY REPORT

A detailed report of the operational status for each machine will be sent to the registered email addresses or via the ConSite Pocket app every month.

Monthly operational information helps you to analyze the operational efficiency of your machine and improve overall machine-operation status.

Collaborative reporting allows each machine's operational information to be shared with Hitachi Construction Machinery authorized dealers, enabling stable operation for your machine.

Key items included in reports include:

- Alarm status
- Service brake operation counts
- Overload status analysis
- Payload analysis
- Axle road ratio distribution
- Daily operation hours
- Rough road segment analysis.

Reports can be viewed on laptops, desktop computers, smartphones and tablets.

ALARM REPORT

If an issue is detected and requires urgent attention to prevent downtime, an emergency alarm report will be sent to the registered email addresses or via the ConSite Pocket app.

Urgent attention alarms can share Information from the operator and owner so that the necessary measures are taken.

Alarm information can be shared with your dealer as well to enable smoother coordination and reduce your machine's downtime.

Types of reports include:

Maintenance Reports notify the *alarm* and *maintenance recommendations* due to filter clogging and oil changes.

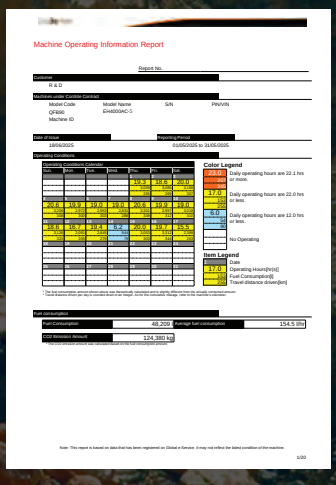
Important Reports notify the occurrence of *alarms* that do not directly affect the operation of the machine but impairs its function as an added value.

Emergency Reports notify the occurrence of *alarms* that are likely to lead to serious damages, significant operation restrictions or machine shutdown.

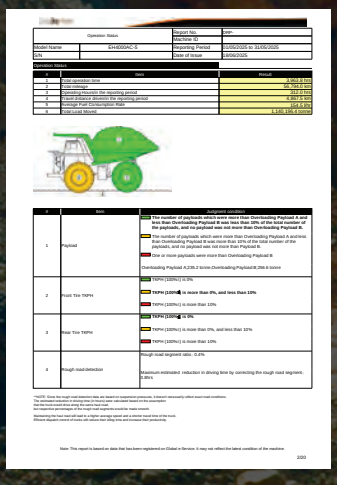
Reports can be viewed on laptops, desktop computers, smartphones and tablets.

ConSite Mine reports 1: Operation Conditions 2: Fuel Consumption / Analysis 3: Tire TKPH Analysis

1


Machine Operating Information Report

2



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Warning: The data report service is available on machines equipped with the communication terminal. Contact your Hitachi Construction Machinery authorized dealer for the details of Data Report Service and machine models that are supported. The communication ability may depend on the situation of the worksite. Please confirm if your machine is currently communicating before beginning this service. Under no circumstances shall Hitachi Construction Machinery and / or Subsidiaries and its Dealer be held responsible or liable for any communication line failure, interruption, delay in operation or transmission or any other cause of action.

AUTONOMOUS HAULAGE SYSTEM (AHS)

PRODUCTIVITY | SAFETY

AHS-READY ONBOARD KIT FOR THE EH4000AC-5

The EH4000AC-5 can be equipped with our AHS onboard kit, enabling autonomous operation alongside manned fleets, including other original equipment manufacturer (OEM) equipment. This allows mines to gradually evaluate and implement AHS at their own pace.

Seamless integration with the proven EH Series platform minimizes installation time and supports a flexible, phased transition to autonomous haulage.

Remote monitoring and support from our Technological Centre of Excellence (TCoE) helps our customers to maximize productivity, reduce lifecycle costs, and minimize downtime for their fleet.

Communications network resilience ensures trucks continuously operate safely even during transient network disruptions – delivering consistent performance without compromising safety.

Measurable improvements every cycle

BENEFITS OF AHS FOR YOUR OPERATION

Improved safety – reduces human error and supports consistent, controlled operation in all conditions.

Increased productivity – eliminates downtime from breaks, shift changes and operator variability.

Lower costs – optimized haulage performance and reduced wear, significantly lowering lifecycle costs.

*Statistics from https://www.hitachicm.com/global/en/solutions/solution-linkage/ahs/

OVERVIEW OF AHS RETROFIT PARTS:
1: GNSS antenna
2: Wireless Communication Antenna
3: LiDAR (Front & Rear)
4: Engine & Parking Brake Indicator Lights
5: AHT Mode Indicator Lights
6: Remote Engine Switch

Electronic Power Steering & AHS Control Box located inside the cab.

Hydraulic box (brake system) and mode change shift lever located on the center deck.

Technology that drives itself

AUTONOMOUS HAULAGE TRUCK OVERVIEW

LANDCROS AHS has been proven in the toughest mining environments, with over:

1.6 MILLION KILOMETERS TRAVELED

58 MILLION TONNES MOVED

144 THOUSAND AUTONOMOUS HOURS

... ALL WITH ZERO* SAFETY INCIDENTS.

LEARN MORE
Watch our Autonomous Operations:

SCAN HERE TO WATCH THE VIDEO

TROLLEY ASSIST

PRODUCTIVITY | EFFICIENCY

Hitachi Construction Machinery's trolley assist configuration delivers faster cycle times, lower operating costs and longer engine life.

Available on the EH4000AC-5, the trolley assist system allows trucks to seamlessly switch from diesel to electric power via overhead lines.

The result: powerful, stable hauling on grades, reduced environmental impact, and a smoother ride for operators.

LEARN MORE
Watch our Trolley Trucks in action:

SCAN HERE TO WATCH THE VIDEO

Faster hauls, lower costs & emissions

TROLLEY SYSTEM (OPTIONAL)

Shortened haul cycles and boosted productivity due to faster uphill travel in trolley mode, reaching nearly twice the speed of diesel-only operation.

Reduced fuel consumption and greater energy efficiency due to significantly lower engine load from overhead line power.

Extended engine life and lower maintenance costs from reduced stress on the engine and longer overhaul intervals.

Reliable performance in harsh environments due to a hydraulic pantograph system that ensures stable power contact in cold or dusty conditions.

Improved operator comfort and quieter operation resulting from carbon metal pantograph contacts that minimize vibration and cab noise.

Stronger driving performance with efficient energy use via an advanced energy transmission with a DC 2 600 V power supply that delivers consistent traction and acceleration.

Lower environmental impact and better workplace conditions due to reduced exhaust emissions and operational noise.

The Trolley Truck configuration and overhead catenary wires are not suited to all sites, contact your local Hitachi Construction Machinery Dealer to find out more.

SPECIFICATIONS

ENGINE

Standard

Model	Cummins QSKTA60-CE
Type	4 Cycle Diesel w/ MCR fuel system
Aspiration	1 Stage Turbocharged & Low Temperature Aftercooled
Emission Certification	Fuel consumption optimized
Rated power @1900 min^{-1} (rpm) ISO 14396:2002	1 864 kW (2 500 HP)
Maximum Torque @1 500 min^{-1} (rpm)	10 110 N·m (7 457 lbf·ft)
No. of Cylinders	16
Bore & Stroke	159 × 190 mm (6.26 x 7.48 in.)
Displacement	60 L (3 661 in^3)
Starting	24 V Electric

Optional

Cummins QSKTA60-CE (2 700 HP class) engine option is available. For further details, please contact your local dealer.

ELECTRIC DRIVE

AC Control Cabinet

Rectifier

Number of units	1
Rated capacity	1 851 kW (2 482 HP)

IGBT Inverter

Number of units	2
Rated capacity per unit	1 033 kVA

Chopper

Number of units	2
Rated capacity per unit	1 718 kW (2 304 HP)

Equipped with reliable water cooling system. Pressurized cabinet to reduce dust. Equipped with lockable doors for safety. Equipped with small inverters to provide grid motors and blower motors with adequate AC current. Uniquely constructed for the Rigid Dump Truck application.

Alternator

Number of units	1
Capacity	2 050 kVA at 1 900 min^{-1}

Equipped with an auxiliary alternator that provides AC current to grid motors, blower motors, control cabinet coolant pump and final drive oil cooling and filtrating pump. Air cooled by an AC drive blower.

AC Wheel Motor

Number of units	2
Rated capacity per unit	870 kW (1 167 HP)

Grid Box (Electric Brake)

Number of modules	4
Capacity per unit	870 kW (1 167 HP)

Equipped with inverter controlled variable speed cooling fan.

Axle

Planetary Ratio	35.3 : 1
Maximum Speed	65 km/h (40 mph)

TIRES

Front and Rear	*Rim Width*
50 / 80R57	736.6 mm (29 in.) Standard
	812.8 mm (32 in.) Option

Tire manufacturers offer tires with a range of capabilities suitable for a variety of applications. For high performance hauling it is important to consult with the tire manufacturer to choose a tire that is best matched to truck GMOW, travel speed and customer-specific jobsite conditions. Jobsite condition severity may result in a reduced truck payload and travel speed recommendation.

ELECTRICAL SYSTEM

24 V system. 260 A engine driven alternator.

Four (4) 245H52, 12 V, heavy duty batteries connected in series / parallel.

BODY CAPACITIES

Struck SAE J1363_200305	147 m^3 (192 yd^3)
Heaped 2:1 SAE J1363_200305	187 m^3 (245 yd^3)

Body capacity and payload subject to change based on customer-specific material density and application.

STEERING SYSTEM

Closed-center, full time hydrostatic power steering system using two double-acting cylinders and a variable displacement piston pump. Hitachi accumulators provide supplementary steering in accordance with ISO 5010:2019, supplying a constant steering rate under all conditions. A tilt / telescopic steering wheel with 35 degrees of tilt and 57 mm (2.2 in.) telescopic travel is standard.

Turning Diameter ISO 7457:1997	27.4 m (90 ft)

HYDRAULIC SYSTEM

Two (2) Hitachi three-stage, double-acting cylinders, with electronic controlled cushioning in retraction and extension, containing dual rod seals and urethane energized scrapers, inverted and outboard mounted. A tandem piston pump combines with four position electronic pilot controlled hoist valve. The electrical controller is mounted to the shift tower.

Body Raise Travel	53.5 degrees
Body Raise Time	19.0 sec
Body Down Time (Float)	20.0 sec

BRAKE SYSTEM

Brake system complies with ISO 3450:2011.

Service Brake

Service braking for the EH4000AC-5 is made up of front and rear hydraulically applied brakes and the electric brake.

Front Axle – Oil-cooled, multiple disc

Rear Axle – Oil-cooled, multiple disc

Secondary

Two of front hydraulic, rear hydraulic and electric brake within the service brake system provide modulated reserve braking capability.

Both front and rear hydraulic brakes are automatically applied when loss of pressure is detected.

Parking Brake

This system is designed to use spring applied, hydraulically released brake calipers to hold the truck stationary.

Electric Brake

The AC Drive system provides truck speed control through electric braking.

Hydraulic brakes assist when the brake pedal is depressed further to produce the necessary deceleration.

The hydraulic brakes on the rear wheels assist the stopping function of the electric brake, automatically activating below 0.5 km/h (0.3 mph) to provide secure vehicle stopping.

Maximum dynamic braking	3 500 kW (4 690 HP)

Load / Dump Brake Apply

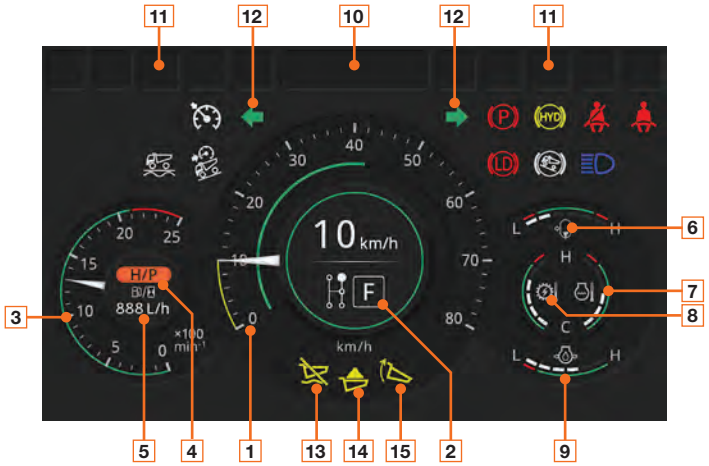
Through activation of a switch by the operator, a solenoid is energized, sending full brake pressure to apply the rear wet disc brakes. For use during the load and dump cycles.

HI-TECH ROPS / FOPS CAB

ROPS complies with ISO 3471:2008 and SAE J1040-May 94, FOPS complies with ISO 3449:2005. A three-point rubber isolation mount arrangement to the high-arch cross member minimizes vibration transfer to the operator compartment. New wider cab with double full size seat available and enough trainer's leg space brings comfortable operating and training.

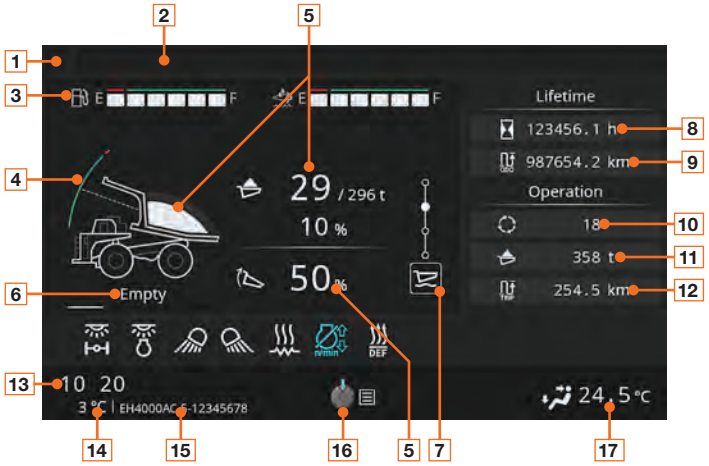
Monitoring System

A new Hitachi system monitor provides display information and diagnostics of all onboard systems and controls which include the engine and Hitachi AC Drive. Data links offer complete integration, while a color Liquid Crystal Display (LCD) clearly details machine functions. Downtime is minimized with faster and more reliable troubleshooting and analysis. A new Hitachi load monitoring system offers benefits such as better equipment utilization on the jobsite, accurate unit and fleet production results, and benchmark unit statistics against fleet results. Cycle time, distance and cycle count can all be measured and recorded as information that can help in developing higher productivity. The Hitachi load monitoring system is fully integrated with the Hitachi vehicle monitoring system and display interface, avoiding potential failure or error common in aftermarket systems.



Main Display

1	Speedometer
2	Select Lever Position Indicator
3	Engine Tachometer
4	Work Mode Indicator
5	Fuel Consumption Gauge
6	Steering Oil Pressure Gauge
7	Coolant Temperature Gauge
8	Travel Motor Temperature Gauge
9	Engine Oil Pressure Gauge
10	Center Warning Display Area
11	Warning Display Area
12	Direction Signal Indicators
13	Hoist Lever Status Indicator
14	Load Status Indicator
15	Dump Body Up Indicator
16	Parking Brake Indicator
17	Load / Dump Brake Indicator
18	Hydraulic Brake Indicator
19	Hill Hold Status Indicator
20	Seat Belt Alarm Light (Operator)
21	Seat Belt Alarm Light (Passenger)
22	High Beam Indicator
23	Cruise Control Indicator
24	Retarder Control Indicator
25	Drive Control Status Indicator



Sub Display

1	Center Warning Display Area
2	Message Display Area
3	Fuel Gauge
4	Dump Body Angle Indicator
5	Payload Display Gauge
6	Work Status Indicator
7	Hoist Lever Position Indicator
8	Hour Meter
9	Odometer
10	Hauled Load Counter
11	Cumulative Payload Indicator
12	Trip Meter
13	Clock
14	Outside Temperature Gauge
15	Model Name, No.
16	Switch Operation Guidance Indicator
17	Air Conditioner Display
18	Inside Rear Axle Inspection Light Indicator
19	Engine Compartment Inspection Light Indicator
20	Front Tire Light Indicator
21	Rear Light Indicator
22	Grid Dry Indicator
23	Engine Speed Control Indicator

WEIGHTS (APPROXIMATE)

Net machine weight stated below includes standard equipment.

Net machine weight changes will directly affect the Nominal Payload.

With Standard 50 / 80R57 Tires	
Chassis with Hoist & Body Parts	153 500 kg (338 000 lb.)
Body Excluding Body Parts	26 500 kg (58 400 lb.)
Net Machine Weight	185 400 kg (408 700 lb.)

The Net Machine Weight specification includes operator and 100% fuel.

Note:

Body parts mean assembled standard parts to the body, such as mud guards, body pads, rock ejector bars, arm guard and fasteners.

Nominal Payload	242 000 kg (533 500 lb.)
Nominal GMOW	427 400 kg (942 300 lb.)

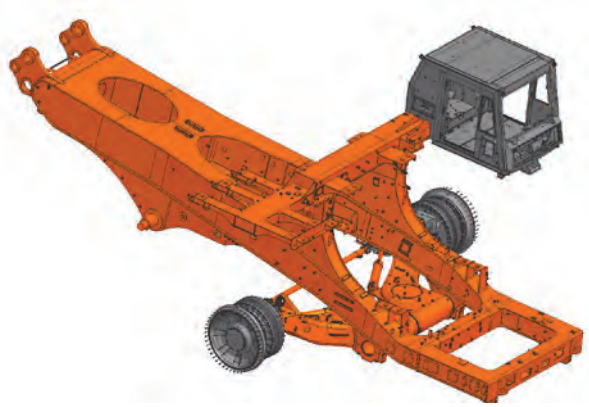
Note:

The Nominal Payload shown is determined in accordance with the Hitachi Loading Policy. Actual payload limits may vary depending on truck configuration, operating conditions, and site-specific requirements. The values provided are indicative and intended for general specification reference only. Please consult your authorized Hitachi Construction Machinery dealer for application-specific guidance.

Weight Distribution	***Front***	***Rear***
Empty	54%	46%
Loaded	35%	65%

FRAME

Full fabricated box section main rails with section height tapered from rear to front. Narrow at the rear to support the load and wider at the front allowing truck stability and excellent engine access for servicing. One piece top and bottom flanges that eliminate cross member tie in joints and provide a large exposed center area for access to major components. Large radii at frame junctions are blended and ground to minimize stress concentrations. Weld joints are oriented longitudinally to the principal flow of stress for greater durability and more strength. The new “bolt-on” High Arch Design requires less assembling time and no welding. The design provides higher structural quality and better serviceability during engine overhaul.



SUSPENSION

Front Suspension

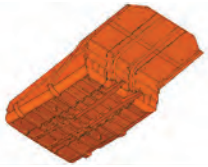
Independent trailing arms make up the front axle. NEOCON struts containing energy-absorbing gas and compressible NEOCON-E ™ fluid are mounted between the trailing arms and frame. Inherent in the NEOCON strut design is a variable damping and rebound feature.

Rear Suspension

A frame structure, integral with axle housing, links the drive axle to the frame at forward center point with pin and spherical bushing. A track rod provides lateral stability between the frame and drive axle. Heavy-duty rear-mounted NEOCON struts containing energy-absorbing gas and compressible NEOCON-E ™ fluid suspend the drive axle from the frame. Integral variable damping and rebound feature included.

BODY

An extended canopy protects service deck area. High tensile strength 400 BHN abrasion resistant alloy steel is used in thicknesses indicated below:



Floor	16 mm (0.63 in.)
Front	9 mm (0.35 in.)
Sides	9 mm (0.35 in.)
Canopy	6 mm (0.24 in.)
Corners	12 mm (0.47 in.)

High strength 690 N / mm² (100 000 psi) alloy steel is also used for the canopy side members and floor stiffeners. The body is rubber cushioned on the frame.

Optional Body Liners	
Floor & corners	12 mm (0.47 in.)
Sides & front	6 mm (0.23 in.)
Canopy drop edge	6 mm (0.23 in.)

Special plate thicknesses and partial plates are available.

SERVICE CAPACITIES

Crankcase (Includes filters)	260 L (68.7 US gal)
Engine Cooling System	576 L (152 US gal)
Fuel Tank (Standard)	2 170 L (573 US gal)
Fuel Tank (Optional)	4 172 L (1 100 US gal)
Hydraulic System	1 000 L (264 US gal)
Brake Cooling System	550 L (145 US gal)
Planetary Drives (L & R)	300 L (79.3 US gal)
Front Wheels (L & R)	42 L (11.1 US gal)
Windshield Washer	5.3 L (1.4 US gal)
Main Accumulator	61 L (16.1 US gal)

PERIMETER VISIBILITY (STANDARD)

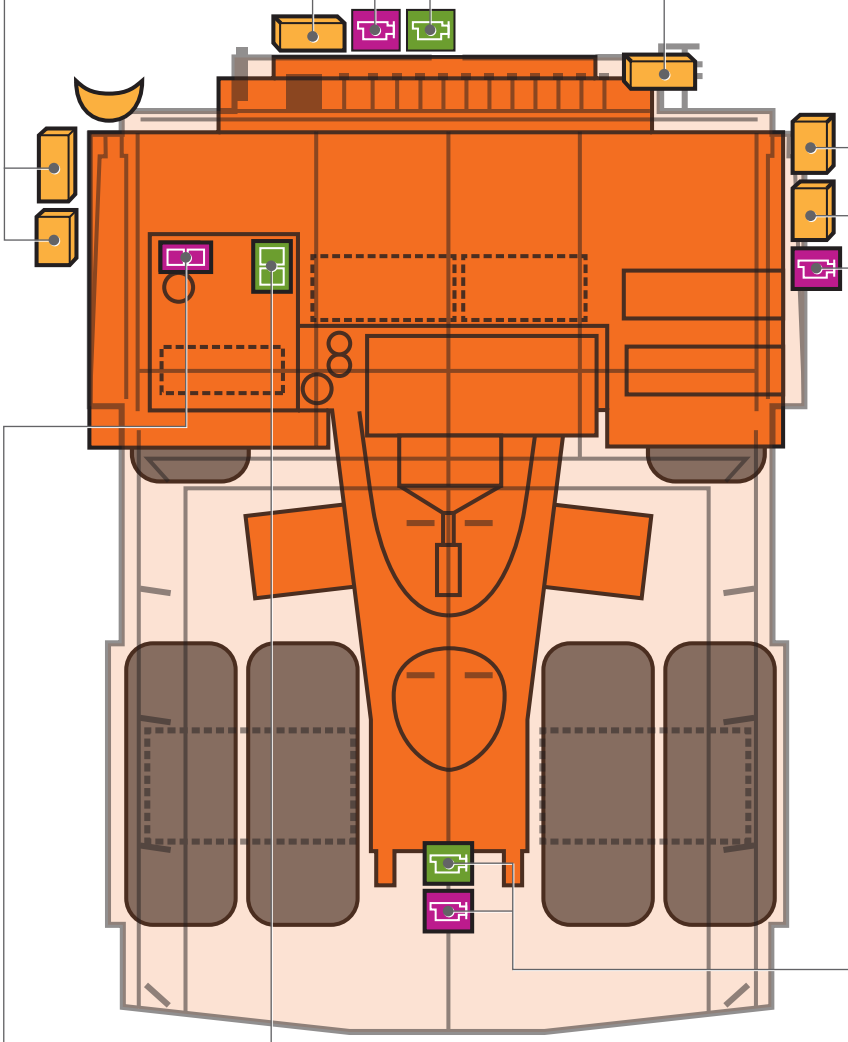
The addition of mirrors and cameras to the base model make the truck compliant to the perimeter viewing requirement of standards ISO 5006 and ISO 14401.

Side view mirrors

Front view camera, Aerial Angle camera & front view mirror

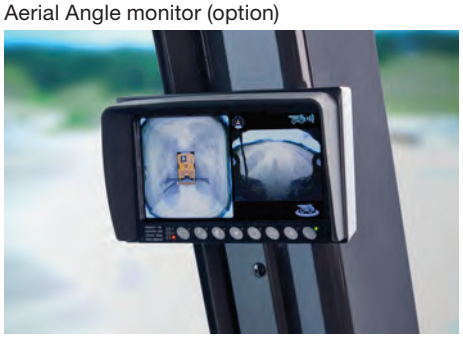
Front view mirror

Side view mirrors & Aerial Angle camera



	Aerial Angle camera
	Camera
	Mirror
	Aerial Angle monitor
	Camera monitor

Aerial Angle monitor (option)



Camera monitors

Rear view camera & Aerial Angle camera

HITACHI CONSTRUCTION MACHINERY BODIES

Tough Body Structure

Hitachi Construction Machinery bodies are engineered for long-term durability. They integrate seamlessly with the AC-5 series chassis for enhanced structural performance and extended operational life. Each design is purpose built to maximize productivity, with optional configurations tailored to your material profile and site demands. Optional bodies and parts are engineered upon request.

***Ultra Light Weight Body** (As Default)*

Engineered for durability with reduced weight and high rigidity, this body features rounded corners, reinforced joints, and a streamlined structure that minimizes stiffeners in low-load areas – boosting payload capacity without compromising durability.

***Coal Body** (Optional)*

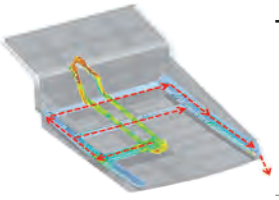
Purpose built for low-density, low-abrasive materials. Offers excellent material shedding, low tare weight, and large capacity for improved discharge efficiency.

***Iron Ore Body** (Optional)*

Built for rugged, high-density iron ore applications. Reinforced for wear resistance and optimized for efficient loading and dumping.

***Customized Body** (Optional)*

Specialized designs available on request to meet unique site requirements or material characteristics.



***Heated Body** (Optional Feature)*

Uses exhaust heat to warm the body, reducing carryback and scatter and improving material flow – boosting productivity in sticky or frozen conditions. Available for Coal, Iron Ore and customized body types.

SOUND LEVEL

Sound level in cab according to ISO 6396	LpA 78 dB(A)

ENVIRONMENT

Air conditioner contains fluorinated greenhouse gases.

Refrigerant type	HFC-134a	HFO-1234yf
GWP	1430	4
Amount	0.89 kg (2.0 lb.)	0.89 kg (2.0 lb.)
CO_2e	1.2 t (1.32 s.t.)	1.0 t (1.1 s.t.)

HITACHI LOADING POLICY

This policy defines the payload control standards for Hitachi mining dump trucks to ensure reliable and efficient machine operation. Payload variation is inevitable under real-world site conditions; however, appropriate payload control is essential to maintain machine performance and structural integrity.

Terminology

Rated GMOW (Gross Machine Operating Weight)

The total operating weight of the machine in standard working condition, including chassis, body, tires, all fluids (fuel, lubricants), operator, installed accessories (including site-specific options), payload, and carryback.

NMW (Net Machine Weight)

The operating weight of the machine excluding payload. It includes the chassis, body, tires, all fluids (such as fuel and lubricants), operator, and installed accessories (including site-specific options). It does not include payload or any materials that may have accumulated during transport.

Rated Payload

The recommended average payload for continuous operation, calculated as the difference between Rated GMOW and NMW.

Rated Payload is used as the basis for operational control. Nominal Payload is defined separately as a specification value.

Overload

A condition where the actual payload exceeds the defined Rated Payload.

Maximum GMOW (Maximum Gross Machine Operating Weight)

The maximum allowable total machine weight defined by this policy. This value must never be exceeded during operation under any circumstances.

Policy Guideline

Actual payloads exceeding the Rated Payload may occur in normal operation; however, operation shall be managed so that the Gross Machine Operating Weight (GMOW) does not exceed the Maximum GMOW.

No single payload that causes the GMOW to exceed this limit is permitted under any circumstances.

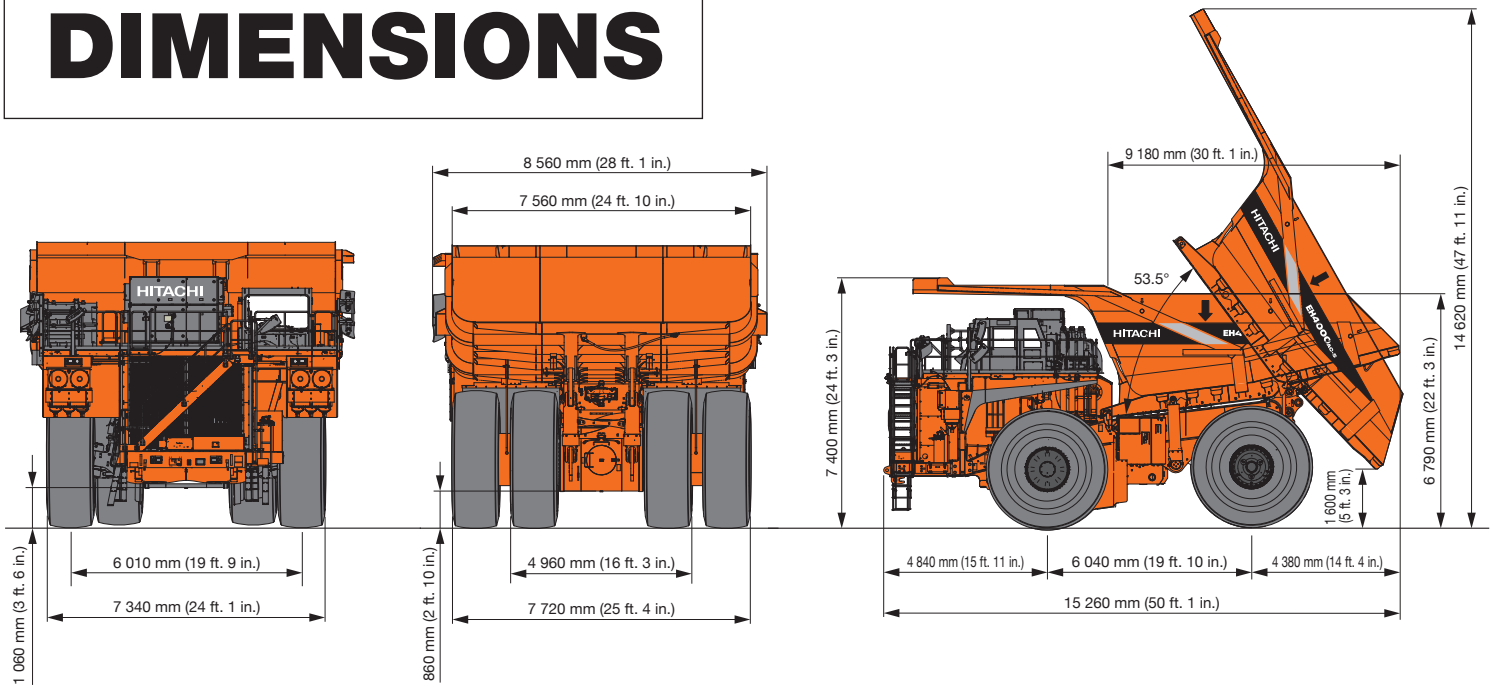
The average of all payloads over any rolling 30-day period shall not exceed the Rated Payload.

This condition is critical to ensure long-term structural durability and consistent truck performance.

Compliance with this policy shall be verified through payload monitoring systems and operational records to ensure that machine operation remains within the defined limits.

Truck Model	EH4000AC-5		
Rated GMOW	427 400 kg (942 300 lb.)	**Rated Payload**	242 000 kg (533 500 lb.)
Standard Tire Size	50 / 80R57	**Maximum GMOW**	466 200 kg (1 027 800 lb.)

DIMENSIONS

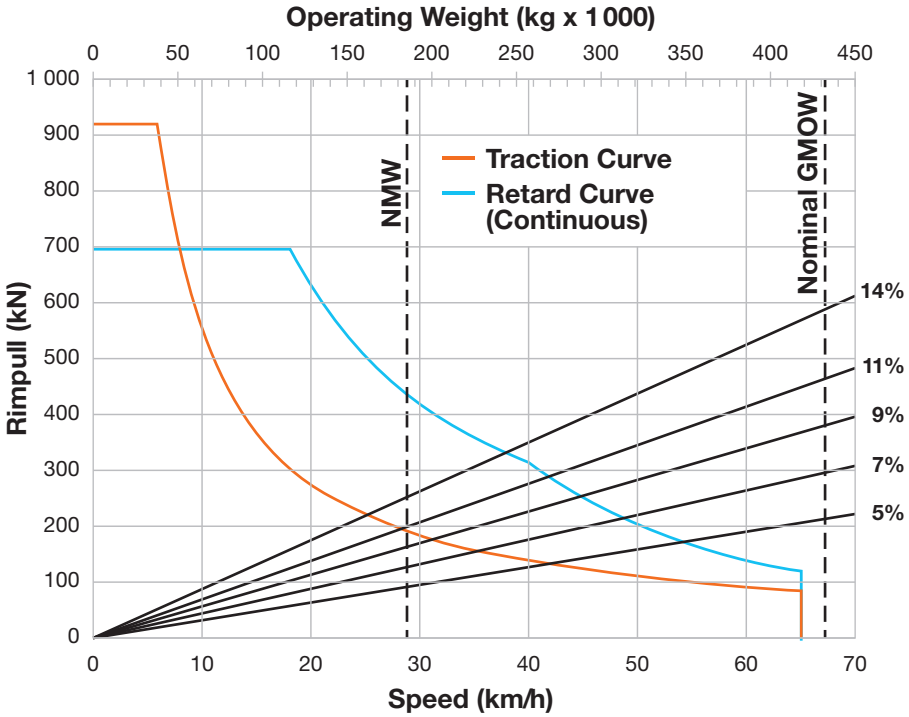


MODEL	EH4000AC-5
Overall Length	15 260 mm
Overall Width	8 560 mm
Overall Height	7 400 mm
Wheelbase	6 040 mm
Tread (Front Wheels / Rear Wheels WT)	6 010 / 4 960 mm
Vehicle Width (Front Wheels / Rear Wheels)	7 340 / 7 720 mm
Ground Clearance (Front Axle / Rear Axle)	1 060 / 860 mm

MODEL	EH4000AC-5
Front Overhang	4 840 mm
Body Inside Dimension (Length / Width)	9 180 / 7 560 mm
Body Upper Edge Height	6 790 mm
Body Dump Height (Maximum / Minimum)	14 620 / 1 600 mm
Dump Angle	53.5°

Note: Dimensions shown are for an empty machine with 50 / 80R57 tires.
Exact dimensions may vary due to tire make, type, and inflation pressure.

PERFORMANCE CURVE



EQUIPMENT

STANDARD EQUIPMENT

GENERAL

- AC Drive system
- Auto cruise control
- Auto retarding control
- Automatic lubrication system (Lincoln)
- Battery isolation switch
- Body prop cable
- Control cabinet pressurized / liquid cooled / lockable
- Deck mounted muffler
- Deck mounted stone guards
- Diagonal front stairway
- Electric controlled hoist system
- Electric horns (4)
- Emergency ladder
- Engine access ladders (2)
- Engine shutdown switch
- Beside engine (2)
- Ground level, on bumper (1)
- Inside rear axle (1)
- Fan and belt guards
- Fast fluid filling system
- Fast fuel filling system provision
- Final drive lubricant cooling
- Final drive lubricant filtration
- Front view mirror (LHS / RHS)
- Fuel / water separator
- Fuel tank 2 170 L (573 US gal)
- Ground level battery box
- Ground level relay box
- IGBT controlled blower fan motor for alternator cooling (1)
- IGBT controlled blower fan motor for wheel motor cooling (1)
- IGBT controlled final drive lubricant motor (1)
- IGBT controlled grid fan motors (5)
- Load weighing system
- Maximum speed control system according to payload
- NEOCON suspension struts
- Rear view camera
- Rear view mirrors (4)
- Rims 29 in.
- Side view camera (RHS)
- Suction port shut off valve at hydraulic tank
- Supplementary front braking system, accumulators
- Supplementary rear braking system, accumulators
- Supplementary steering system, accumulator
- Tow hooks, front
- Tow lugs, rear

CAB

- Air conditioner
- Auxiliary outlet, 12 V
- Camera monitor
- Coat hook
- Document holder
- Drink holders (3)
- Edge blocks, on tray (3)
- Engine shutdown switch
- FM radio
- Foot rest
- Heater and defroster
- Integral ROPS / FOPS cab
- LCD system monitor
- LED dome lights (2)
- Load and dump brake switch
- Net pockets, on door (2)
- Override switch
- Seat
- Full size air suspension operator's seat with 3-point, 50 mm (1.97 in.) width seat belt, & automatic weight adjustment
- Regular size mechanical trainer's seat with 2-point, 50 mm (1.97 in.) width seat belt
- Tinted safety glass, with power windows
- Tray, front and rear

INDICATORS AND GAUGES SHOWN ON MONITOR DISPLAY

- AC Drive system maintenance required warning indicator
- Ambient temperature
- Body angle indicator
- Brake / steering hydraulic oil pressure gauge
- Central warning indicator
- Clock
- Coolant temperature gauge
- Drive Control status indicator
- Drive related warning indicators
- Engine oil pressure gauge
- Engine related warning indicators
- Engine stop warning indicator
- Fuel gauge
- Hour meter
- Hydraulic related warning indicators
- Indicate HCM code
- Indicate message
- Indicate SAE code
- Light indicators
- Load meter
- Model name
- Shift lever position indicator
- Speedometer (with odometer)
- Stop valve warning indicator
- Tachometer
- Turn signal indicator
- Wheel motor temperature gauge

MACHINE LIGHTS

- Backup lights (2)
- Clearance lights (4)
- Combination stop and tail lights (2)
- Deck lights (2)
- Diagonal front stairway light
- Engine compartment lights (2)
- LED headlights (8)
- Payload external indicators, 2 locations of 2 lights each
- Rear axle compartment light

OPTIONAL EQUIPMENT

- Aerial Angle
- Auxiliary dump connection
- Auxiliary steer connection
- Body liners (400 BHN)
- Body prop pins
- Body sizes *
- Communication system (alternative)
- GPRS communication system
- Satellite data transmitting system
- Fast fluid filling system couplers
- Fast fuel filling system coupler
- Fuel tank 4 172 L (1 100 US gal)
- Full size air suspension operator's seat with 3-point, 50 mm (1.97 in.) width seat belt, & semi-active suspension control
- Full size air suspension trainer's seat with 3-point, 50 mm (1.97 in.) width seat belt, & automatic weight adjustment
- Full size air suspension trainer's seat with 3-point, 50 mm (1.97 in.) width seat belt, & semi-active suspension control
- Gridbox guard *
- Halogen front tire lights (2)
- Heated mirrors
- Loadweight displays (2)
- Rims 32 in.
- Smart rim
- Spare rim
- Tire guards (2) *
- Trolley Line Assist
- Trolley system

OPTIONAL EQUIPMENT WEIGHT

- Body liners (400 BHN) plates including floor & corners (12 mm [0.47 in.] thicknesses), sides & front and canopy (6 mm [0.24 in.] thicknesses)
- 4 172 L (1 100 US gal) fuel tank with 100% fuel (additional weight to the standard tank with 100% fuel)
- Loadweight display (2)

* Engineered on request

WELL MATCHED: EH4000AC-5 & EXCAVATORS*

EXCAVATOR	EX3600-7		EX5600-7		EX5600-7P		EX8000-7	
Front Attachment	Backhoe	Loading Shovel	Backhoe	Loading Shovel	Backhoe	Loading Shovel	Backhoe	Loading Shovel
Bucket (m^3)	22.0–24.0	22.0–24.0	36.0–38.5	29.0–31.0	37.5–41.0	—	48.0–52.0	43.0–45.0
Bucket (yd^3)	28.8–31.4	28.8–31.4	47.1–50.4	37.9–40.5	49.0–53.6	—	62.8–68.0	56.2–58.9
Passes	6–7	7	4	5–6	4	—	3	4

***CALCULATION CONDITIONS FOR PASS MATCH**

Pass numbers are calculated based on nominal bucket capacity under the following standard conditions:

1. Bucket Fill Factor

Backhoe: 95%

Loader: 85%

2. Material Density

General Purpose / Heavy Duty: 1 800 kg / m^3 (3 019 lb. / yd^3)

Light Duty: 1 600 kg / m^3 (2 698 lb. / yd^3)

Actual loading conditions may vary. Final pass adjustment may be required to avoid exceeding the rated payload.

Before using a machine with a satellite communication system or telecommunication system, please make sure that the satellite communication system or telecommunication 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.

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