EH1100

EH1100-5

NOMINAL PAYLOAD:
63.5 tonnes (70 tons)

OPERATING WEIGHT:
108 950 kg (240,194 lb.)

RATED POWER:
567 kW (760 hp)

HITACHI

WE DIG. WE HAUL. THAT'S ALL.

HAULER FOCUSED. NO DISTRACTIONS.

At Hitachi, we don't get sidetracked building every kind of construction and mining equipment. Instead, we focus on trucks and excavators. We combine that focus with our legacy of innovative technology. By specializing in trucks and excavators, we deliver reliable, productive, efficient and smooth operating equipment. By not building everything, we compromise on nothing. And you get confidence in getting more done with less costs.

The EH1100-5 is our newest and smallest mechanical drive rigid hauler loaded with lots of new upgrades that make it more productive, reliable and efficient. It's the perfect match for large construction sites and small- to mid-size quarry and mining operations. In designing and building the new EH1100-5, we've based our improvements on feedback from real-world customers like you. The result? The EH1100-5 gives you...

EXACTLY WHAT YOU WANT.

Economical. The EH1100-5's economical operation makes it a more valuable asset for your operations. You'll get better performance, higher reliability and significant reduction in maintenance and operating costs.

Efficient. The EH1100-5 gets the most out of every drop of fuel, which significantly reduces fuel costs and delivers higher efficiency for every job.

Long frame life. The EH1100-5 has an extremely durable frame and suspension that broadly distributes the stress of a full load over the frame's entire length and width, making it last for years.

SPECIALISTS

INNOVATION

Engine. The EH1100-5 features a new, highly efficient Cummins QSK23 engine with an advanced aluminum cooling package available for all markets. The MTU-I2V2000 diesel engine is also available outside of North America. Both engines are EPA Tier 2 certified with 760 SAE gross HP.

Transmission. We've upgraded the transmission to the Allison H6620A with Shift Energy Management (SEM) system. The SEM system reduces engine torque during transmission shifts, delivering longer drivetrain life and increased operator comfort.

Redesigned fuel tank. The EH1100-5 offers you quicker refueling with a low pressure "Fast Fuel" option that uses the truck's standard fuel tank.

Access system. We upgraded the previous "both side vertical ladders" to an improved access system that features inclined steps, making it easier and quicker to get on board.

IMPROVEMENTS THAT IMPROVE PERFORMANCE.

UPGRADES FOR MORE UPTIME.

The EHII00-5 is one of our reliable trucks built with Hitachi's legacy of technological innovation. We spent valuable time in the field talking with and getting feedback from operators and owners. Based on the great insights and input from customers, we've added a lot of efficient upgrades to the EHII00-5 that meet your real-world needs. Along with the upgrades, the EHII00-5 is also built with proven technology and features of the previous model. When you choose the new EHII00-5, you get a truck that...

HAULS INNOVATION UP A NOTCH.

Serviceability. The brake accumulators are now positioned outside of the radiator support for easier service. The lube system pump and battery switches, previously located on the deck, are now mounted on the support for easy access. In addition, the batteries are now inside the front bumper and accessible from ground level.

Deck equipment. We've moved the steering accumulator closer to the center of the deck and the RCB valve is now accessible from the deck for better serviceability. In addition, the EHII00-5 now features a service light on the front handrail, making it easier to see the coolant level and filters during maintenance checks.

Cab features. Another improvement is a new 10.1" LCD screen that doubles as an instrument panel and a backup camera monitor. In addition, programming and diagnostic ports have been moved from the rear wall of the cab to the dashboard for easier access.

Rear brakes. Another of the EHII00-5's new features is an integrated parking brake that is part of wet-disc service brake.

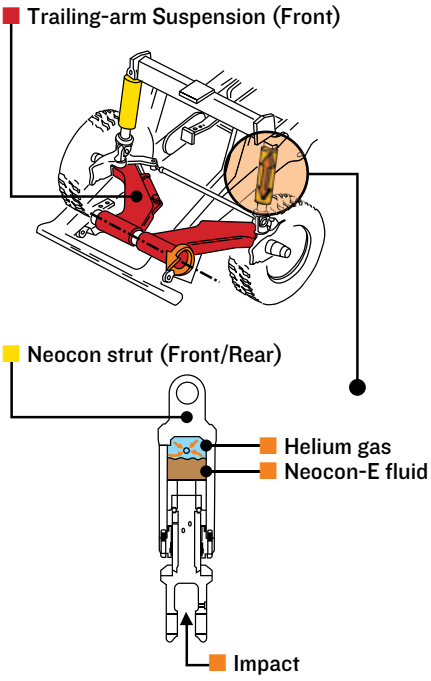
BUILT TO GET MORE DONE, MORE OFTEN.

ROCK SOLID PRODUCTIVITY.

Hitachi trucks have a proven reputation for productive uptime at jobs all over the world. The upgraded EH1100-5 is one of the most productive trucks of all. It's built with rugged and heavy-duty structures that make it stronger and more reliable. In fact, the EH1100-5's frame is the strongest in its class. It features a unique trailing-arm suspension that minimizes frame stress and fatigue and provides lower tire wear and better steering. Plus, the active traction control system has been refined to better control wheel spin in wet and muddy conditions giving you improved haul cycle times and increased production. The advanced frame design lets you haul loads more solidly and more efficiently. In addition, it's also easy and quick to service and maintain. By getting faster access to all components, you reduce your downtime and repair costs. When you choose the EH1100-5, you get an upgraded truck that's...

LOADED FOR PRODUCTIVITY.

- The EH1100-5 features an Accu-Trac suspension that has an independent trailing arm for each front wheel. Both arms are supported by Neocon-filled struts that minimize stress and vibration.
- Another upgraded improvement with the EH1100-5 are two body prop pins that replace the sign prop cable, making it more efficient to prop up the body.
- The unique Accu-Trac suspension can improve tire life by up to 40% compared to suspended kingpin designs.
- Maintenance is simple. Front suspension cylinders can be serviced quickly without removing them from the truck.
- The trailing arm design allows energy to travel straight up, where it is absorbed by the strut, minimizing frame fatigue and twisting.
- Neocon-filled struts deliver a higher level of stability, control and isolation compared to struts filled with hydrogen/oil or silicon.



PRODUCTIVE

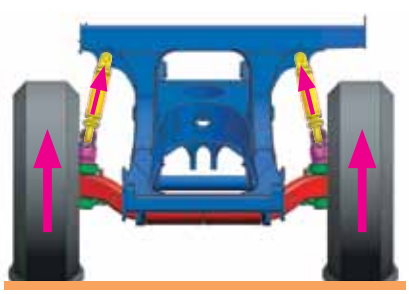
Spindle
Each spindle is controlled by a hydraulic steering cylinder, which rotates around the king-pin and the outer end of the trailing arm to position the wheels for steering. The spindles are attached by one tie-rod.

King-pin
Retains the spindle to the trailing arm. Spindle rotates around the king-pin, which is locked in position. The Neocon-E strut attaches to the top.

Trailing Arm
Main suspension member to which other suspension components are attached. The trailing arms hinge on a torque tube that is clamped to the front of the frame.

Neocon Strut
The energy absorption and release component of the ACCU-TRAC suspension system. Pinned to ball bushings at the frame and at the top of the king-pin to prevent bending movements from transferring to the strut. Receives only axial input.

BOTH STRUTS AT NORMAL HEIGHT



BOTH STRUTS IN COMPRESSION

WITH NO HORIZONTAL DEFLECTION

DRIVER SIDE STRUT IN COMPRESSION, OTHER STRUT IN EXTENSION

Matched to Hitachi Excavators for Productivity

Excavator	Boom	Arm	Bucket Capacity	Passes to fill										
				I	2	3	4	5	6	7	8	9	10	11
ZX870LC-5	7.1 m – BE Boom	2.95 m - BE Arm	*4.3 m^3	●	●	●	●	●	●	●	●	◐		
	8.4 m – H Boom	3.7 m - H Arm	*3.5 m^3	●	●	●	●	●	●	●	●	●	●	◐
EXI200-6 Backhoe	9.0 m – Boom	3.6 m - Arm	*5.2 m^3	●	●	●	●	●	●	●				
	7.55 m – BE Boom	3.4 m - BE Arm	*6.7 m^3	●	●	●	●	●	◐					
EXI200-6 Shovel	—	—	6.5 m^3	▼	▼	▼	▼	▼	▽					

*SAE, PCSA heaped capacity

DURABILITY BUILT-IN, DOWNTIME TOSSED OUT.

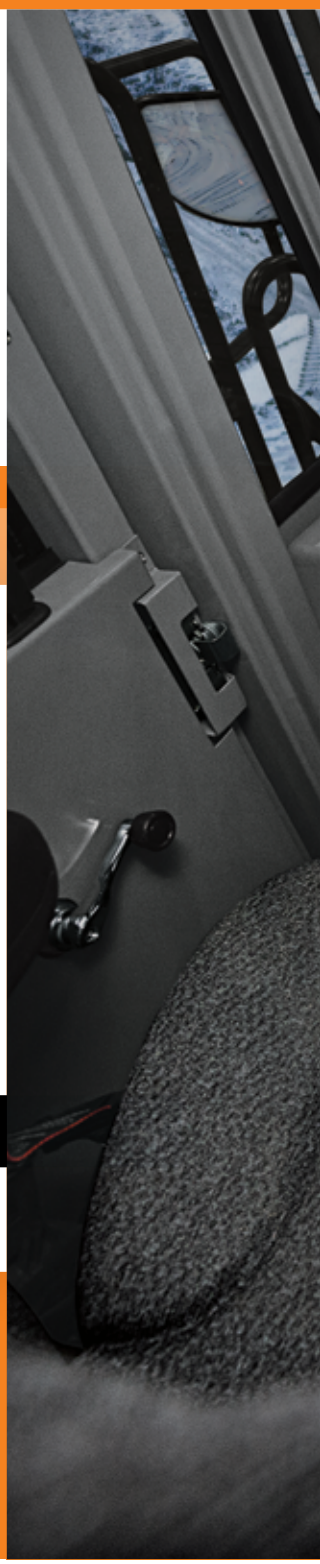
MORE WORK, MORE YEARS.

One of the biggest advantages of the new EH1100-5 is that it takes uptime to a peak level. The built-in durability helps you get more work done, and have confidence in reliability that lasts for years. The EH1100-5 body is built with high-tensile, abrasion-resistant alloy steel which can handle the toughest jobs without damage problems. In addition, the EH1100-5 comes with improved hydraulic hoist performance that delivers faster raising and lowering for more efficient performance. The EH1100-5 is also now upgraded with a speed limit feature that automatically restricts the top speed to the operator's determined limit. This automatically applies the retarder to control the set speed limit when traveling downhill. With years of experience building mining trucks, Hitachi understands – and builds in – specific functional features that lead to reliable, durable hauling. Put EH1100-5 to work for you and you'll ...

GET BIG TIME UPTIME.

- The EH1100-5 provides an amazingly tight turning circle so you can operate in more confined spaces/job sites.
- The payload monitoring system is fully integrated for prompt reporting of tons moved, cycle times, cycle count and distance.
- The hydraulic hoist system uses two, three-stage double-acting cylinders. The hydraulically cushioned hoist cylinders slow body descent to a crawl over the last several inches of travel, minimizing wear and tear on the components.
- The rubber-cushioned body has a sloped floor for easy cleaning and reduced contamination of the air filter.
- The new EH1100-5 has a higher payload. The body is now has a flat floor-plate for more control of material shed while dumping.
- The four-pin planetary gear runs at lower temperatures to extend lubricant life and increase the life of the gear itself, resulting in longer uptime.

- Uptime is increased with the wet-disc rear brakes, engineered and built for long service life in tough environments. The brakes are continuously oil cooled, with a dual-circuit design for added safety. The wet-disc rear brakes now come with an integrated parking brake.



THE RIGHT CAB FOR OPERATOR PRODUCTIVITY

MORE COMFORT FOR MORE WORK.

Every operator can be more productive on board the new EH1100-5. The cab has been updated and improved with a new monitor for the instrument panel and backup camera. The cab has been specifically designed to give operators plenty of room, comfortable seating, safe visibility, plus a quiet, low vibration interior. Standard features of the cab include a payload monitoring system, foldable handrail for better visibility, a sun visor, an air-ride seat with three-point seat belt and cup holders in the center console and door post. The result is your operators feel less stressed, less tired and are comfortable doing more work. The EH1100-5 cab is one the most advanced, comfortable cabs and gives you what you're looking for...

MORE COMFORT, MORE PRODUCTIVITY.

■ The cab features a new 10.4" LCD screen that doubles as an instrument panel and a backup camera monitor.

■ Inside the HI-TECH ROPS/FOPS cab is a dashboard that positions controls within easy reach and provides excellent visual contact.

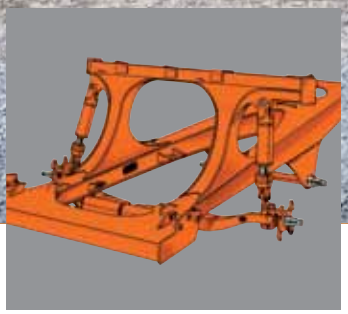
■ Visibility from the cab is enhanced with added mirrors, cameras for blind spots, backup and tire lights, and brighter headlamps. The high level visibility improves safety and productivity.

COMFORT

- There are many features that contribute to operator safety and comfort – a full complement of easy-to-read gauges, the monitoring system, six-way adjustable air seat, tilt/telescopic steering wheel and filtered ventilation.
- Double wall construction of inner and outer steel panels produces a more structurally sound cab. A three-point rubber isolation-mount setup significantly reduces shocks, vibrations and noise, keeping operators more comfortable.
- The programming and diagnostic ports previously located on the rear wall are now positioned in the dashboard for easier access.
- The cab ROPS structure is now redesigned to meet the requirements of using the EH1100-5 as a water truck.
- The EH1100-5 truck systems communicate via CAN bus which allows rear view camera monitoring through the LCD display and reduces the amount of wiring required throughout the truck.
- A closed-center hydrostatic power-steering system gives the operator smooth, precise control.

CONVENIENCE

■ The EH1100-5 now features a service light on the front handrail, making it easier to see items such as the coolant level and air filters during maintenance checks.



■ Truck frame rails are connected laterally by a high-arching cross member. This structure is positioned behind the engine and allows for easy engine access.

■ The brake accumulators are positioned on the outside of the radiator support for easier access.

■ The lube system and pump and battery switches, previously located on the deck, are now mounted on the support for quick access.

MAINTENANCE THAT MAINTAINS UPTIME.

SAVES TIME, SAVES MONEY.

With some haulers, maintenance can be a pain and time consuming. But not with the new EHI100-5. Based on real world input from customers, we've upgraded it with some of the most easy maintenance and service features of all. That means you'll spend less time servicing your EHI100-5, and more time working on jobs. Over the years, Hitachi has learned all about the biggest challenges in service and maintenance, and we've created solutions that make maintenance simple and quick. When you put the EHI100-5 on your team, you can count on...

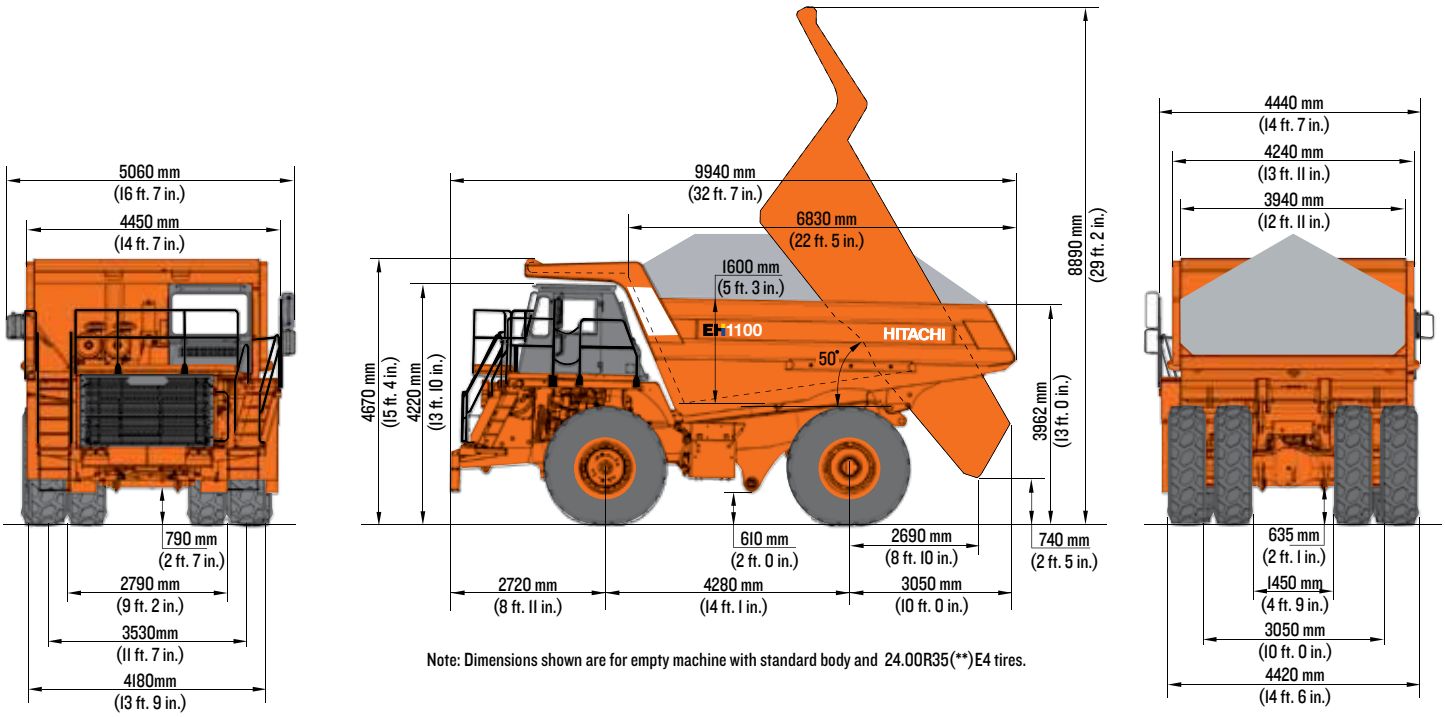
LESS MAINTENANCE, MORE WORK.

■ You can fuel the EHI100-5 quicker with the redesigned fuel tank using the low pressure "Fast Fuel" option.

■ Batteries are inside the front bumper, allowing you to access them from ground level.

■ The trailing-arm suspension allows the front struts to be removed and installed without removing the front brakes or tires.

■ The EHI100-5 allows ground-level feeding of grease, hydraulic oil and engine oil for fast, simple topping-off. The auto-lube system virtually eliminates daily lubrication requirements.



Note: Dimensions shown are for empty machine with standard body and 24.00R35(**)E4 tires.

Engine		
Manufacturer and Model	**Cummins QSK23**	**MTU Detroit 12 V Series 2000***
Type	4 cycle inline 6, diesel injection	4 Cycle, V12, diesel injection
Aspiration	Turbocharged / Aftercooled	Turbocharged / Aftercooled
Emission Certification	U.S. EPA Tier 2	U.S. EPA Tier 2, E.U. Stage II**
Rated Power		
Gross power (SAE J1995)	567 kW (760 hp) at 2100 min^{-1} (rpm)	567 kW (760 hp) at 2100 min^{-1} (rpm)
Net power (SAE J1349)	520 kW (698 hp) at 2100 min^{-1} (rpm)	520 kW (698 hp) at 2100 min^{-1} (rpm)
Net power (ISO 9249)	520 kW (698 hp) at 2100 min^{-1} (rpm)	520 kW (698 hp) at 2100 min^{-1} (rpm)
Net power (EEC 80/1269)	520 kW (698 hp) at 2100 min^{-1} (rpm)	520 kW (698 hp) at 2100 min^{-1} (rpm)
Maximum torque	3091 Nm (315 kgf-m) at 1300 min^{-1} (rpm)	3091 Nm (315 kgf-m) at 1350 min^{-1} (rpm)
Piston displacement	23.0L (1404 cu. in.)	23.9L (1459 cu. in.)
Bore and stroke	170 mm x 170 mm (6.7 in. x 6.7 in.)	130 mm x 150 mm (5.1 in. x 5.9 in.)
Torque Rise	20%	20%
Starting system	Electric	Electric

*Not available in US & Canada. **Fuel optimized version is available.

Transmission

The transmission employs Shift Energy Management (SEM) which reduces engine torque during transmission shifts resulting in longer drivetrain life and increased operator comfort. Additionally an Optimum Start Range feature has been engineered for the EH1100-5. This feature provides reduced fuel use, less noise and more operator comfort during unloaded truck operation. When the automatic onboard payload weighing system identifies an unloaded body, the transmission is activated to start the upshifting sequence from 3rd gear.

Model	Allison H6620A	
Design	Fully automatic, planetary type with integral lock-up converter	
Mounting/Position	Remote from engine and rear axle for serviceability	
Ranges	6 forward, 2 reverse	
Control	Allison CEC3 electronics shift system with SEM (Shift Energy Management) and OSR (Optimum Start Range)	
Speed	Ratio	
Gear 1	4:00	9.7 km/h (6 mph)
Gear 2	2:68	14.7 km/h (9 mph)
Gear 3	2:01	19.4 km/h (12 mph)
Gear 4	1:35	28.9 km/h (17.9 mph)
Gear 5	1:00	39.0 km/h (24.1 mph)
Gear 6	0:67	58.2 km/h (36 mph)
Gear R1	5:12	7.6 km/h (4.7 mph)
Gear R2	3:46	11.3 km/h (7 mph)

SPECS

Drive Axle	
Model Differential	2354
Axle Design	Full floating axle shafts using a model 2354 differential and single reduction planetaries at each wheel
Traction Control	An optional electronic feature that includes the Electronic Downhill Speed Control feature
Differential and Final Drive Ratios	
Ratios	
Differential	3.64 : 1
Planetary	5.80 : 1
Total Reduction	21.11 : 1
Maximum Speeds	
with 24.00R35 tires	58.2 km/h (36.2 mph)
Tires	
Front	24.00 R35(**) E4 (Radial) [Standard]
Rear	24.00 R35(**) E4 (Radial) [Standard]
Rim Width	432 mm (17 in)
Alternative tires and tread patterns may be available.	
Note: Certain job conditions may require higher rated TKPH (TMPH) tires in order to maintain maximum production. Hitachi recommends evaluating the job conditions and consulting the tire manufacturer to make proper tire selection.	
Hydraulic System	
Two 2-stage, double-acting cylinders, with cushioning in retraction, inverted and outboard mounted. Separate Hoist/Brake Cooling reservoir and independent tandem gear pump. Control valve mounted on reservoir.	
Body Raise Travel	58 degrees
Body Raise Time @ 2100 min^{-1} (rpm)	11.4 seconds
Body Down Time (at idle)	14.2 seconds
Brake Cooling Pump Output @ 2100 min^{-1} (rpm)	176 L/min (46.5 gpm)
Hoist Pump Output @ 2100 min^{-1} (rpm)	468 L/min (123.6 gpm)
System Relief Pressure (Hoist)	17.2 MPa (2495 psi)
Electrical System	
24 volt starting, lighting and accessories system. 75 ampere alternator with integral transistorized voltage regulator. Two 12 V heavy duty batteries capable of 1425 cold cranking amps, each, at -18 degree C (0 degree F). A Hitachi solid state reprogrammable controller controls and monitors hauler systems, provides output information to control gauges and lights and incorporates connections for diagnostic tools.	
Steering System	
Closed-center, full-time hydrostatic steering system using two double-acting cylinders, pressure limit with unload piston pump and brake actuation/steering system reservoir. zAn accumulator provides supplementary steering in accordance with ISO 5010 (SAE J1511). The operator's steering wheel offers 35 degrees of tilt and 47.7 mm of telescopic travel.	
Steering Angle	39 degrees
Turning Diameter: (SAE)	19.85 m (65 ft. 2 in.)
Steering Pump Output @ 2100 min^{-1} (rpm)	94.7 L/min (25 gpm)
System Pressure	19.0 MPa (2756 psi)
Suspension	
Front and Rear Suspension	
For years, Hitachi haulers have enjoyed an industry-wide reputation for superior suspension systems. That experience and knowledge has now been pushed to the next level, to develop the truly advanced ACCU-TRAC suspension for the EH1100-5. To make sure it was fine tuned to the limit, Lotus Engineering, a world leader in suspension design, was contracted to review the entire system to assure optimized ride and handling performance.	
The ACCU-TRAC suspension system features independent trailing arms for each front wheel with NEOCON struts, containing energy absorbing gas and compressible NEOCON-E™ fluid, mounted between the king pins and the frame. This arrangement allows a wider front track that provides a better ride, improved stability and a reduced turning circle. The rear axle housing has an A-frame mounting. The rear NEOCON struts are mounted in a more vertical position which allows a more pure axial loading and reduces the tractive and braking forces transmitted to the nose cone.	
NEOCON struts outperform competitive strut designs by improving isolation, stability, and control. Improved isolation means reduced impact loading on the structural members of the machine and greater operator comfort, resulting in longer equipment life and increased productivity. Improved stability means more consistent dynamic response of the machine to fluctuating load energy, resulting in predictable machine performance. Improved control means better machine maneuverability.	
The Hitachi frame and ACCU-TRAC suspension system are designed to work in unison to provide maximum structural integrity and operator comfort. The fabricated rectangular frame rail construction provides superior resistance to bending and torsional loads while eliminating unnecessary weight. The unique ACCU-TRAC independent trailing arm suspension absorbs haul road input, minimizing suspension-induced frame twisting while providing independent tire action.	
NEOCON ride struts are mounted with spherical bushings, eliminating extreme sidewall forces by ensuring a purely axial input to the ride strut. The wide track stance of the ACCU-TRAC suspension system and the long wheel base assure a more stable, comfortable ride.	
Body Capacity	
Struck (SAE)	32.7 m^3 (42.8 cu. yd.)
Heap 3 : 1	38.2 m^3 (50 cu. yd.)
Heap 2 : 1 (SAE)	41.5 m^3 (54.3 cu. yd.)
Body capacity and payload subject to change based on customer specific material density, options and application.	

Hi-Tech ROPS / FOPS Cab

Hi-Tech ROPS / FOPS Cab

ROPS complies to ISO 3471: 2008 and FOPS complies with ISO 3449: 2005. Multiple layered floor mats act to absorb sound and control interior temperature.

A properly maintained cab from Hitachi, tested with doors and windows closed per work cycle procedures in ISO 6394: 2008 (dBA), results in an operator sound exposure Leq (Equivalent Sound Level) of 80 dB(A). A three-point rubber iso-mount arrangement to the deck surface minimizes vibration to the operator compartment. An optional sound suppressed cab provides an equivalent sound level of 75 dB(A).

Excellent Serviceability

A removable front panel allows easy access to service brake valves, retarder valve and heater assembly. A removable cover located behind the operator's seat provides easy access to the Transmission Contoller (TCU), Central Controller (CCU) and all electrical junction points.

Comfort and Ease of Operation

A 265 mm (10.4") LCD screen is positioned slightly to the right of steering wheel to provide better visibility through the front cab window and to prevent the steering wheel spokes from causing visual obstruction. The LCD is pleasant to view in all lighting conditions and incorporates large interactive buttons to toggle to various monitor selections within close reach of the operator. Animated gauges and lights perform the same function of providing truck system condition with trouble conditions supported by messages in text as secondary. The pass-through cab offers a spacious environment. The interior design allows the operator to exit through the left or right hand doorway, making either one of the access stairways easily available to the operator. Multiple position adjustable seat, tilt/telescopic steering wheel, filtered cab ventilation and high ground visibility all contribute to convenience, control and comfort.

Service Capacities

Crankcase (includes filters) for MTU	83.3L (22 gal.)
Crankcase (includes filters) for Cummins	70.0L (18.5 gal.)
Cooling System for MTU	224L (59.2 gal.)
Cooling System for Cummins	147L (38.8 gal.)
Transmission, Cooler and Lines	93.3L (24.7 gal.)
Fuel Tank	700L (185 gal.)
Hydraulics	
Hoist Tank and System	265L (70 gal.)
Steering Tank and System	112L (29.6 gal.)
Drive Axle (2 wheels and differential)	103L (27.2 gal.)
Windshield Washer Fluid	5.7L (1.5 gal.)

Brake System

Brake system complies with ISO 3450 (SAE J1473).

All-hydraulic actuated braking system providing precise braking control and quick system response. The Hitachi brake controller has a unique variable front to rear brake proportioning that maximizes the stopping performance under all road conditions.

Service

All-hydraulic actuated front dry disc brakes and rear oil-cooled wet disc brakes are equipped.

Wet Disc Brake

The Hitachi wet disc brake is engineered for long service life even in the most extreme environments. The wet disc brakes are located on the rear axle and provide service braking, secondary braking, and retarding. The brakes are a multi-plate design, and continuously oil-cooled. The sealed design protects against environmental contamination for prolonged service life. The wet disc brake is designed with automatic retraction to prevent drag. Separate pedals activate the service braking and retarding functions.

Front Axle - Dry Disc	
Disc diameter each (2 discs/axle)	686 mm (27 in.)
Brake surface area per axle	7316 cm^2 (1,134 sq. in.)
Lining area per axle	2787 cm^2 (432 sq. in.)
Brake pressure (Max)	15.9 MPa (2,306 psi)
Rear Axle - Oil-Cooled Wet Disc	
Brake surface area per axle	58 732 cm^2 (9,103 sq. in.)
Brake pressure (Max)	4.8 MPa (696 psi)
Optional Rear Axle - Oil-Cooled Wet Disc	
Brake surface area per axle	64 605 cm^2 (10,014 sq. in.)
Brake pressure (Max)	4.8 MPa (696 psi)

Secondary

Two independent circuits within the service brake system provide backup stopping capability. System is manually or automatically applied to stop machine within prescribed braking distance.

Parking

The standard parking brake is the dry disc type that is mounted to the input section of the rear axle differential. Controlled by a toggle switch on the dash and through automatic application if service brake hydraulic pressure is lost.

Disc Diameter	457 mm (18 in.)

Optional Wet Disc Parking Brake

The parking brake is internal to the rear wet disc brakes.

Retarder

Foot-operated valve controls all-hydraulic actuation of oil-cooled wet disc brakes on rear axle. System provides modulated pressure to rear brakes for constant speed control.

Continuous	656 kW (880 hp)
Intermittent	1270 kW (1,700 hp)

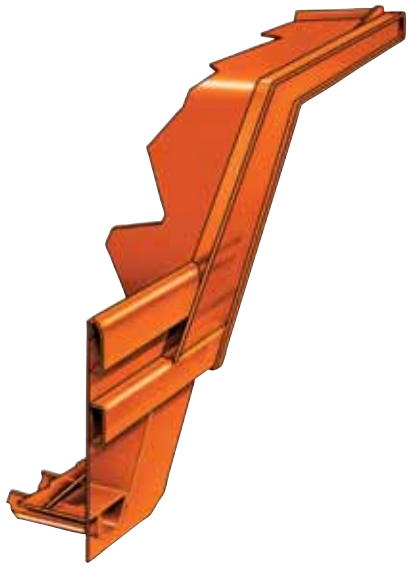
Load/Dump Brake Apply

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.

SPECS

Weights		
Net machine weight stated below includes standard equipment.		
Net machine weight changes will directly affect the Nominal Payload.		
Chassis with Hoist	34 260 kg (75,530 lb.)	
Body	11 190 kg (24,670 lb.)	
Net Machine Weight	45 450 kg (100,200 lb.)	
Nominal Payload	63.5 tonnes (70 tons)	
Target GMOW	108 950 kg (240,194 lb.)	
The Net Machine Weight specification includes operator and 100% fuel.		
The Nominal Payload specification is calculated using the Hitachi Loading Policy. Specific job site requirements may result in an adjustment to the Nominal Payload weight.		
Consult your Hitachi dealer for a truck configuration which will match your haulage application.		
Major Options		
The following list of options are examples which will change the Nominal Payload.		
Automatic Fire Suppression		
Body Liner, heavy duty and partial		
Deck Mounted Muffler		
Weight Distribution	Front	Rear
Empty	50%	50%
Loaded	34%	66%

Body	
The body has been made to the flat floor, sloped tail chute design. The rear hinge has been designed to allow the hinge pin to float when the body is in the fully lowered position.	
The weight of the body and payload is distributed across rubber body pads that are evenly spread across the length of the body rail-box that rests on the truck frame.	
Plate Thickness (Standard Body)	
Floor	18 mm (0.69 in.)
Front	10 mm (0.38 in.)
Sides	8 mm (0.31 in.)
Canopy	6 mm (0.25 in.)
Valley	8 mm (0.31 in.)
Option for Standard Body	
Body Liners (Medium Duty)	
Floor & Valley	10 mm (0.38 in.)
Sides & Front	6 mm (0.25 in.)
End Protection	10 mm (0.38 in.)
Body Liners (Heavy Duty)	
Floor & Valley	13 mm (0.50 in.)
Sides & Front	8 mm (0.31 in.)
End Protection	10 mm (0.38 in.)
Partial Liner (Heavy Duty)	
Floor & Valley	13 mm (0.50 in.)
End Protection	10 mm (0.38 in.)
Rock Cap	
Top of the Body Side Plate	10 mm (0.38 in.)
Plate Thickness (Optional Quarry Body)	
Floor	25 mm (1.00 in.)
Front	16 mm (0.63 in.)
Sides	14 mm (0.55 in.)
Canopy	8 mm (0.31 in.)
Valley	16 mm (0.63 in.)
The horizontal stiffener design of the Hitachi body minimizes stress concentrations in any one area. Load shocks are dissipated over the entire body length. The closely spaced floor stiffeners provide additional protection by minimizing distance between unsupported areas.	



ADDITIONAL EQUIPMENT

Key: ● Standard ▲ Optional or special

	General
●	Access system, step ladder driver's side and service side
●	ACCU-TRAC suspension system
●	All-hydraulic braking
●	Allison H6620A transmission
●	Battery disconnect switch, ground level
●	Body down cushioning
●	Body down indicator
●	Body up, reverse inhibit
●	Body up speed restriction
●	Canopy spill guard
●	Continuous heated body
●	Cooling system sight gauge
●	Cooling system surge tank
●	DC -DC , 24 to 12V converter
●	Driveline guard, front
●	Electric horns
●	Electric start
●	Electronic hoist
●	Engine access step
●	Engine belt protection
●	Engine idle timer
●	Fan guard
●	Fenders
●	5 piece rims
●	Fluid drain valves
●	Fluid sampling por
●	Fixed steering stops
●	Front brake cut-off switch
●	Front corner mirrors
●	Fuel tank level gauge
●	Ground level auxiliary start (boost) receptacle
●	Ground level engine shutdown
●	Guard rails
●	Hoist interlock
●	Hoist tank sight gauge
●	ISO decals
●	Load/dump brake
●	Mirrors, left and right, hand adjustable
●	Mud flaps
●	NEOCON-E suspension struts
●	Park brake - dry disc
●	Park brake interlock
●	Payload weighing system, automatic
●	Radiator grille guard
●	Rear view camera system
●	Reverse alarm and light
●	Rock ejector bars
●	Steering accumulator
●	Steering tank sight gauge
●	Tires 24.00 R35
●	Tow points, front
●	Transmission guard
●	Transmission sight gauge
●	Two speed reverse
●	Wet disc parking brake
●	Water separator included in fuel filter
●	24 volt to 12 volt converter
	Cab
●	Access, left and right side doors
●	Air conditioning
●	Air filtration/replaceable element
●	Air suspension seat *
●	Cab interior light
●	Camera monitor
●	Comfort shift, Optimum Start Range, when empty
●	Cup holders x 2

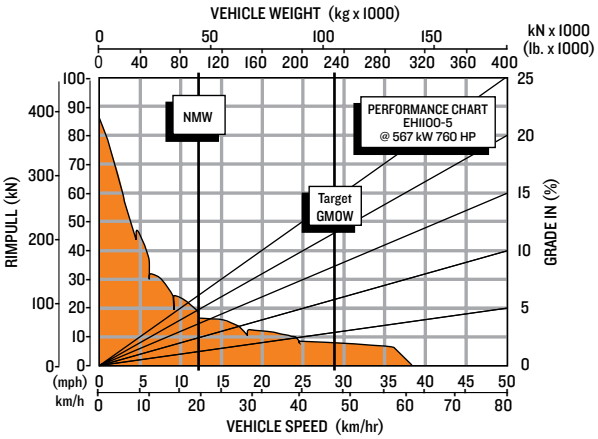
	Cab (Continued)
▲	Active Traction Control (ATC) w/ Electronic Downhill Speed Control (EDSC)
▲	Air suspension seat, semi-active, w/ heat, w/ lumbar*
▲	AM-FM radio w/ CD & Aux. input
▲	Circuit Breakers in place of fuses
●	Door locks
▲	Electric RHS and LHS power windows
●	Foot rest, left
●	Fuses
●	GPS communication, e-Service
●	Heater and defroster
●	Hill Hold
●	Integral ROPS/FOPS cab
●	Integrated engine diagnostics connector
●	Integrated transmission diagnostics connector
●	ISO driver envelope
●	LCD operator information screen, 265 mm (10.4 in.)
●	Mechanical RHS and LHS windows
●	Quick connect hydraulic test ports
●	Rubber floor mat
●	Safety glass
●	Seat belts, retractable (operator and trainer)
●	Side Mudguards, mounted to cab deck
▲	Sound suppressed cab package
●	Speakers, antenna and wiring only
●	Sunvisor, pull-down
●	Tilt/telescoping steering wheel
●	Tinted glass, all windows
●	Trainers seat
▲	Vehicle speed limiter (available with ATC/EDSC)
●	Windshield washer
●	Windshield wiper, intermittent
●	12V accessory connection
●	12V power port
	Electronic Display (Hitachi Monitoring Info)
	Lights with ISO symbols
●	Active Traction Control (optional)
●	Battery charge
●	Body up
●	Brake system oil pressure
●	Central warning (stop)
●	Central warning (yellow caution)
●	Electronic downhill speed control (optional)
●	Engine coolant level
●	Engine oil pressure
●	Filter restrictions
●	High beam
●	Parking brake
●	Payload meter and number
●	Retarder temperature
●	Seat belt disconnected
●	Steering oil pressure
●	Transmission oil temperature
●	Turn signal/hazard
	LCD Screen Information
●	Adjustable units of measure
●	Brake oil pressure
●	Brake oil temperature
●	Date and time
●	Engine coolant temperature
●	Engine oil pressure
●	Filter restrictions
●	Fuel gauge
●	Haultronics III payload information
●	Hourmeter
●	Load Count

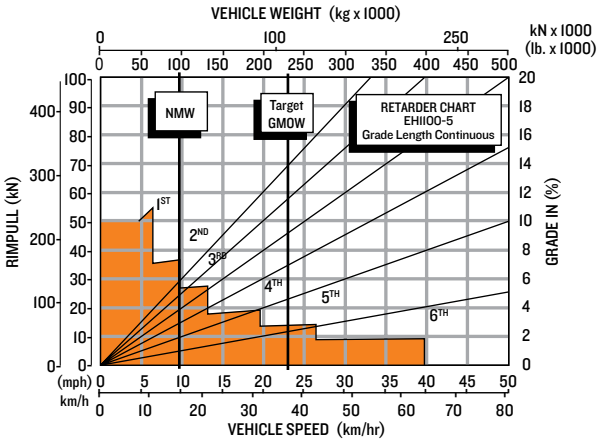
	Electronic Display (Continued)
●	Odometer
●	Parking brake applied
●	Speedometer
●	Steering oil pressure
●	Steering oil temperature
●	System diagnostics
●	Tachometer
●	Transmission oil temperature
●	Transmission range attained
●	Transmission range selection
●	Trip Odometer
●	Voltmeter
	Machine Lights
●	Amber turn signals and four-way flashers
●	Back-up light
●	Clearance light - front (2)
●	Clearance light - rear (2)
●	HID head lights (4)
●	LED marker lights
●	Stop & tail (2)
	Chassis
▲	Body liners (400BHN) plates, medium, heavy duty or partial
▲	Canopy spill guard extension
	Cold weather package
▲	Mild cold weather package 0° C to -20° C (32° F to -4° F)
▲	Extreme cold weather package -20° C to -35° C (-4° F to -31° F)
▲	Electrically heated mirrors
▲	Engine side panels, for dust / dirt protection
▲	Extra reverse light on light mount bracket
▲	LHS arm guard
●	Lube system, centralized
▲	Lube system, Groeneveld
▲	Lube system, Lincoln
▲	Muffler, frame mounted, exhaust flow to rear of chassis
▲	Quarry Body (Heap 2:1, SAE 42 m^3), made using heavier plate for large fragmented rock, includes load monitoring system
▲	Rear driveline guard
▲	Rock cap
▲	Service center with fast fuel
▲	Service center without fast fuel
▲	Service lighting
▲	Side extensions
▲	Side view camera (RHS)
▲	Spare rim
▲	Steering accumulator, region Canada
▲	TranSynd™ transmission fluid
▲	Unit sound suppression
▲	Variable pitch fan (Cummins)
▲	Wheel chocks
▲	Work lights, forward facing
▲	Work lights, rear facing -halogen, mudguard mounted
▲	Work lights, rear facing -HID, mudguard mounted

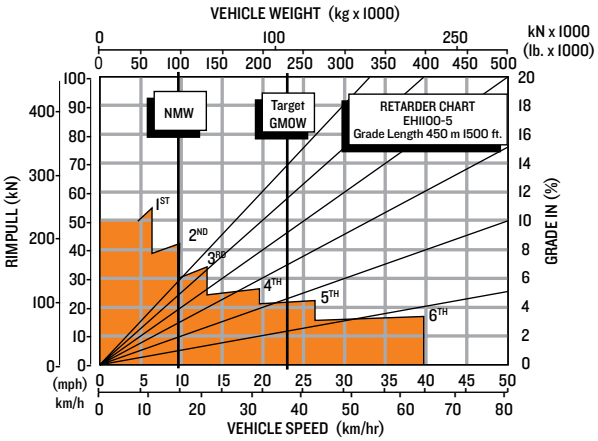
	Optional Equipment Weight	kg	lb.
▲	LHS arm guard	56	123
▲	Body liners (400BHN) plates, medium	2850	6283
▲	Body liners (400BHN) plates, heavy duty	3680	8113
▲	Body liners (400BHN) plates, partial	2430	5357
▲	Lube system, Groeneveld	100	220
▲	Lube system, Lincoln	120	265
▲	Quarry Body (additional weight to the standard body)	TBD	TBD
▲	Rock Cap	269	593
▲	Side Extensions	485	1069
▲	Canopy spill guard extension	99	218

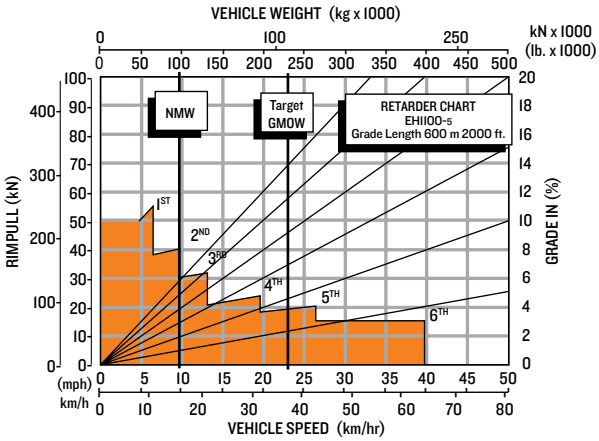
*Features - Parking brake alarm: Audible when parking brake not applied and operator is not seated. Seat belt alarm: Audible and visible when truck is running and seat belt is not buckled. 3 point seat belt : Standard. Standard and optional equipment may vary from country to country. Special options provided on request. All specifications are subject to change without notice. See your Hitachi dealer for further information.

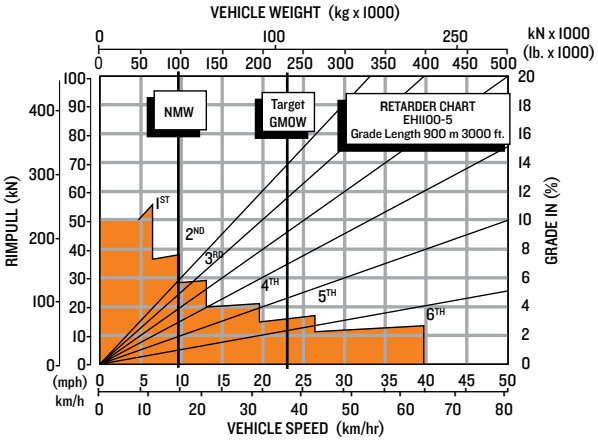
PERFORMANCE DATA

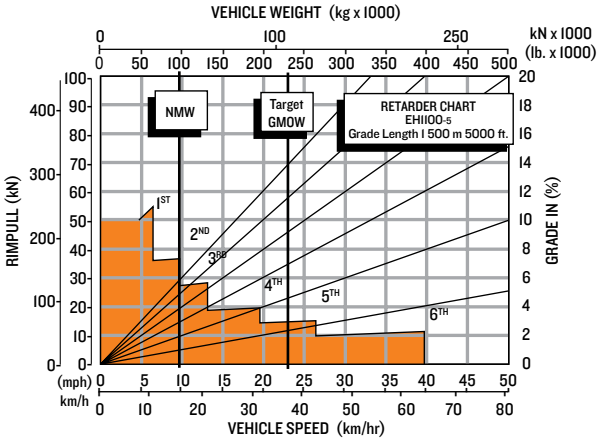












Notes:

Diagonal lines represent total resistance (Grade % plus rolling resistance %).

Charts based on 0% rolling resistance, standard power of engine, standard tires and gearing unless otherwise stated.

1. Find the total resistance on diagonal lines on right-hand border of rimpull or retarder chart.
2. Follow the diagonal line downward and intersect the NMW or GMOW weight line.
3. From intersection, read horizontally right or left to intersect the rimpull or retarder curve.
4. Read down for machine speed.

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

hitachiconstruction.com

DKAEHII00HT Litho in U.S.A. (14-02)

Hitachi Construction and Mining Products
1515 5th Avenue • Moline, IL 61265