

KOMATSU

HM460-6

articulated haul truck



Photo may include optional equipment

Engine power

Gross: 518 HP (386 kW) @ 1,700 rpm

Net: 516 HP (385 kW) @ 1,700 rpm

Maximum payload

46.3 st (42 mt)

Body capacity (heaped 2:1)

33.6 yd³ (25.7 m³)

Top 8 advantages of the HM460-6

1. An advanced frame redesigned to help enhance material productivity

A redesigned high-strength steel structure supports a rated payload of 46.3 U.S. tons while helping minimize empty machine weight.

2. Deliver enhanced power with an all-new powertrain

The Komatsu DAB127 engine and 9-speed automatic transmission provide enhanced power, torque response and hauling efficiency.

3. Maintain traction in demanding ground conditions

The Komatsu Traction Control System and cross axle differential locks help optimize stability and performance in challenging environments.

4. Promote comfort and control in the updated operator cab

An updated cab, premium seat and intuitive monitor layout are designed to enhance visibility and comfort, as well as simplify operation.

5. Control fatigue with operator-focused productivity features

Features such as the dump lever and waiting brake help streamline repetitive haul cycles.

6. Support consistent operation with advanced assist technologies

Auto dump, cruise control and automatic retarder speed control help promote predictable performance across varying haul conditions.

7. Streamline inspections with integrated brake diagnostics

An in-monitor brake inspection guide allows testing of all three braking systems from the main display.

8. Simplify maintenance and help control total cost of ownership

The EGR-less engine configuration supports simplified maintenance while also helping extend critical service intervals. Additionally other service intervals have been extended.

The Komatsu HM460-6 advantage

This new model delivers very real and practical enhancements that drive benefits to your business — from increased payload and enhanced traction to extended service intervals and operator comfort. Watch this video (scan the QR code) to see some of these benefits in action!



Comprehensive Komatsu HM460-6 new model walkaround

The Komatsu HM460-6 is an all-new model that changes the articulated hauling game in North America in a big way. Mass excavation and site development has never seen a truck like the HM460-6 — watch here for what sets it apart and how it can help drive productivity and efficiency.



Performance and traction you can trust

The new HM460-6 represents the next generation of articulated haul trucks. Designed from the ground up with hauling performance, fuel efficiency, operator comfort and safety in mind, it delivers unmatched capabilities. It's especially adept on rough terrain, with unique traction-control engineering that offers superior control and stability on slippery or uneven ground. It's a dependable truck that you can count on to help boost productivity on your jobsites.



HM460-6

Next-level performance, easy operation and lower TCO

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Note:

New features are indicated by a green plus sign (+)

Upgraded features are indicated by a blue plus sign (+)

Designed for productivity and cost-efficiency

- New-generation Komatsu DBA127 engine +
- New transmission and gear control +
- Strong and lightweight, supporting higher payload capacity +
- Komatsu Traction Control System (KTCS) and cross-axle differential lock system +
- Payload Meter

Easy to operate features +

- Two driving assist functions
- Rollover prevention system
- Easy and intuitive dumping operation
- Hill start assist

Built for operator comfort and control +

- All new four-pillar cab
- Significantly improved visibility
- Ergonomic lever and switch layout
- Keyless start system

Advanced operator-assistive technology

- Technology designed for enhanced visibility and usability +
- 8" machine monitor and 10" sub monitor +
- Eco gauge and eco guidance
- Brake inspection guidance +
- Komtrax remote monitoring system

Maintenance made easy

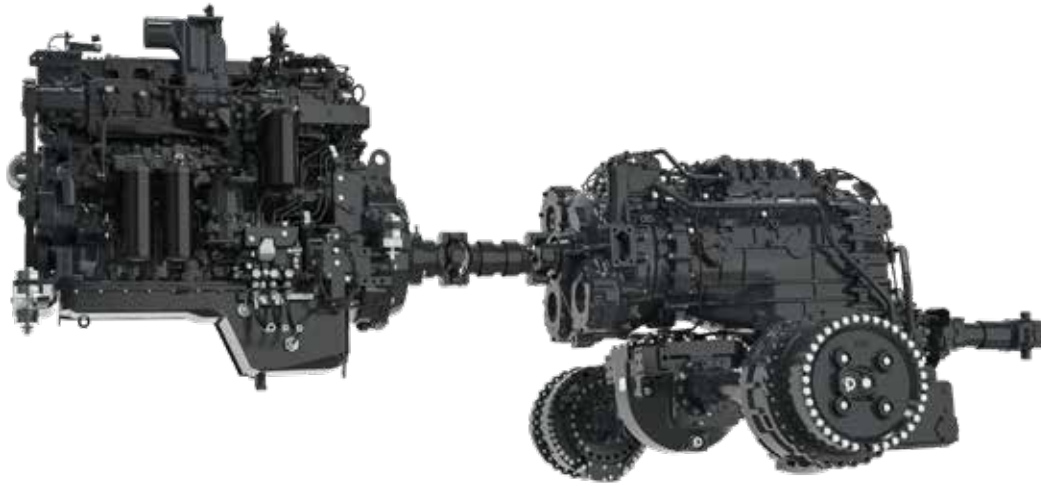
- Lower maintenance costs due to an extended 8,000-hour KDPF cleaning interval when using Komatsu-approved low-ash oil +
- Easy filter replacement +
- Extended service intervals +
- Easy oil sampling +
- Powered tiltable engine hood +
- Air cleaner with pre-cleaner +



Power to do more with less fuel

Engineered for significantly enhanced fuel efficiency +

The newly designed powertrain components and the new DBA127 engine integrate the latest fuel efficiency technologies designed to deliver more power with less fuel. This high output is transmitted to the tires, combined with an advanced efficient transmission and axles, enabling exceptional driving performance. Additionally, the enhanced payload is designed to achieve significant results in fuel efficiency (production/fuel).



Fuel efficiency (T/G) Up to **22% increase**

Fuel consumption (Gal/H) Up to **12% reduced**

*compared to HM400-5

Drive higher payload capacity with a strong yet lighter design +

Durable, large dump body

The body uses the 450 HB-class wear-resistant steel plate in key areas, for overall weight reduction. The body capacity and maximum payload have been significantly enhanced while maintaining its durability.

High-strength frame

The front and rear frames are constructed using high-strength materials and a box-shaped section design. By incorporating the latest technology, they achieve both lightweight and durability, helping to result in a higher payload capacity.

Body capacity (heaped 2:1) **33.6 yd³** (7% increase)

Maximum payload **46.3 st** (5% increase)

Body capacity and rated payload vary depending on accessories. Values in parentheses represent increases compared to HM400-5.

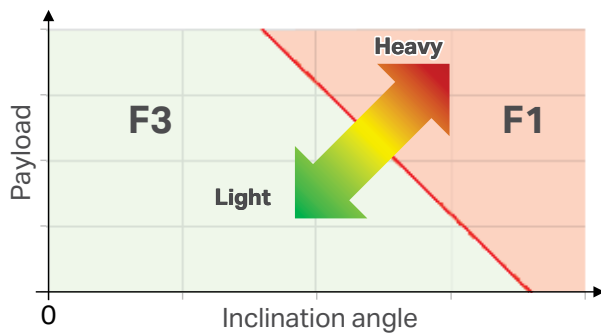


New Komatsu transmission and gear control +

The new transmission with nine forward gears, two reverse gears and the new gear control have helped drive significantly advancements in fuel efficiency. The new transmission requires a lower rotation rate of the engine, contributing to decreasing fuel consumption. The new gear control monitors the payload and the road surface condition and selects the appropriate gear to help achieve an efficient operation.*

Automatic start shift selection +

Depending on the vehicle's condition, the starting gear is automatically selected from F1 and F3, enabling a smooth and powerful start.



Skip shift function

Automatically selects a gear position depending on the slope grade when driving uphill without shifting down through each gear. This feature helps control the number of downshifts. It also helps make the driving smoother and the operator more comfortable while controlling material spillage.

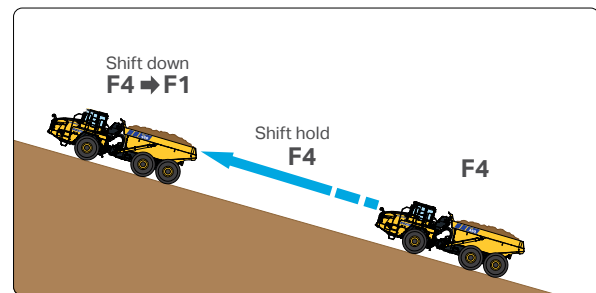


Photo may include optional equipment

Advanced engine design and technology

Next-generation Komatsu DBA127 engine +

Developed by Komatsu, this engine is designed to deliver low fuel consumption and high output with high reliability, thanks to fuel-efficiency improvements and an optimized design of the aftertreatment system. This new engine helps address environmental impact while being economical and easy to maintain.



Engine rated power output (gross)

518 HP (386 kW) @ 1,700 rpm
(Up to 9% increase)

Engine maximum torque (gross)

2,067 lb·ft (2,803 N·m)
(23% increase)

Selectable operating modes

Choose between two operating modes: "Power" or "Economy," based on operating conditions or the course profile.



P mode

Utilizes maximum power to deliver a high workload. Suitable for worksites that require heavy workload.



E mode

For work that prioritizes fuel efficiency, such as flat ground work that does not require maximum output.

Auto idle stop

The engine automatically stops to help control consumption of excess fuel and generation of exhaust gas when idling (5 to 60 minutes).

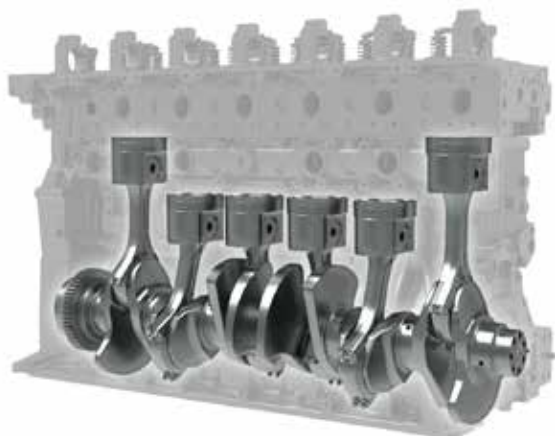
*To restart the engine, the key switch needs to be turned again.



Enhanced critical engine components +

Key engine components such as cylinder blocks, crankshafts and pistons were redesigned from the viewpoint of materials and structure. These modifications are engineered to significantly enhance both material strength and fuel efficiency. The result is an engine output increase of up to 9% and up to an 8% decrease in fuel consumption.* This new design is also highly durable with proven components. The engine's noise level remains the same as the previous model, even with the added power.

*compared to the HM400-5

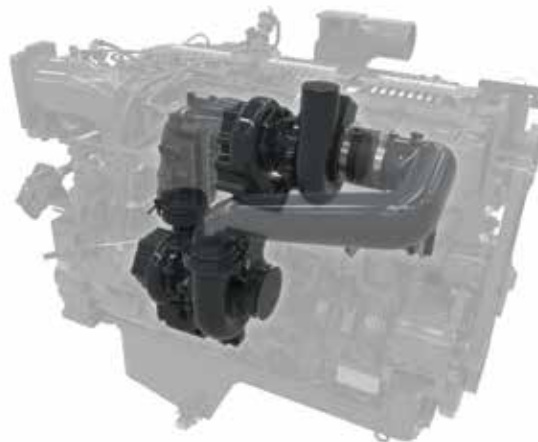


Electronic control system +

The electronic control system processes signals from sensors at high speed for enhanced control during use. This makes operation quick and responsive while helping control NOx and Particulate Matter (PM) emissions, fuel consumption and noise level. Engine diagnostics are displayed on the cab monitor, including Komtrax data that can help fleet owners proactively identify needed maintenance and repairs.

Two-stage turbocharger

The two-stage turbocharger system is arranged in a series to achieve power and fuel efficiency across the full range of speeds.



Extended maintenance intervals +

The Komatsu Diesel Particulate Filter (KDPF) cleaning interval has been extended from 4,500 hours to 8,000 hours. Valve clearance inspection and adjustment has been extended from 2,000 hours to 4,000 hours. By changing the filter type, we've eliminated the need to replace the Closed Crankcase Ventilation (KCCV) filter.

Replacement interval	HM460-6	HM400-5
KDPF cleaning	8,000 hours	4,500 hours
Valve clearance inspection and adjustment	4,000 hours	2,000 hours
KCCV filter replacement	Not necessary	2,000 hours

HM460-6



Komatsu Traction Control System (KTCS) and the cross-axle differential lock system +

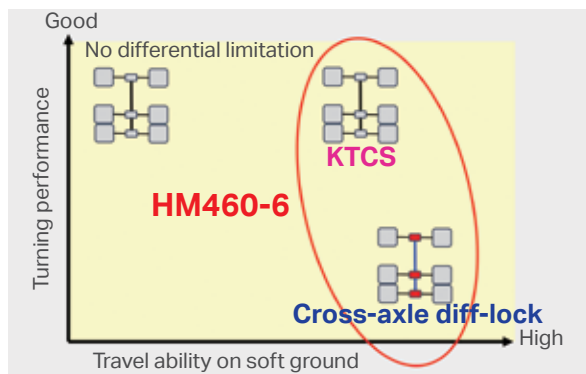
The innovative six-wheel-drive system has been engineered to deliver outstanding, reliable performance on soft ground. The combination of KTCS and the cross-axle differential lock helps provide stable traction, promotes excellent operability and efficiency. This unique design is particularly useful for challenging roads with muddy and uneven terrain.

KTCS

Enables both high terrain capability and rotationality by optimally controlling the traction when tires slip.

Cross-axle differential lock

By stepping on the cross-axle differential lock pedal, even higher off-road capability on the soft ground can be provided.

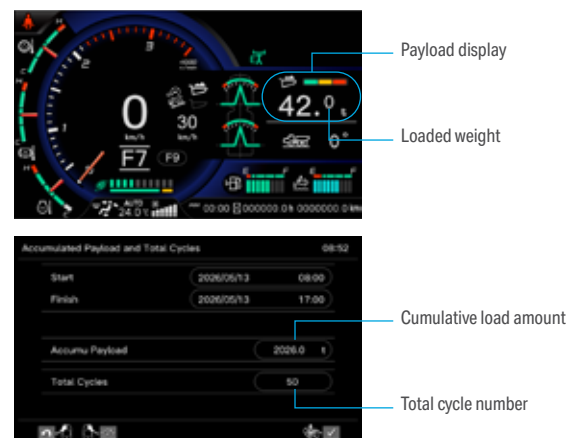


Payload meter (PLM)

PLM visualizes the load number and enables easy management of the production volume and operating conditions. This promotes optimal vehicle health and operation. The cab monitor displays the payload, and the exterior indication lamp helps to check the loading condition. The cumulative load amount and the total cycle number can also be checked on the machine monitor, and the data can be obtained via the Komtrax server.



External display lamps



Payload display

Loaded weight

Cumulative load amount

Total cycle number

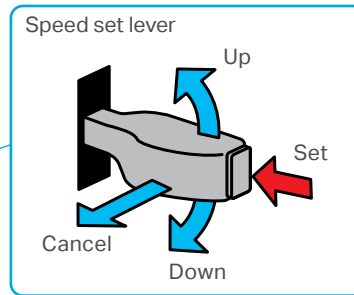


Photo may include optional equipment

Easy operation

Two driving assist functions +

Two driving assist functions are available to suit various work environments. Speed can be easily adjusted using the speed set lever. In the user menu, the operator can choose one of these two functions at a time.

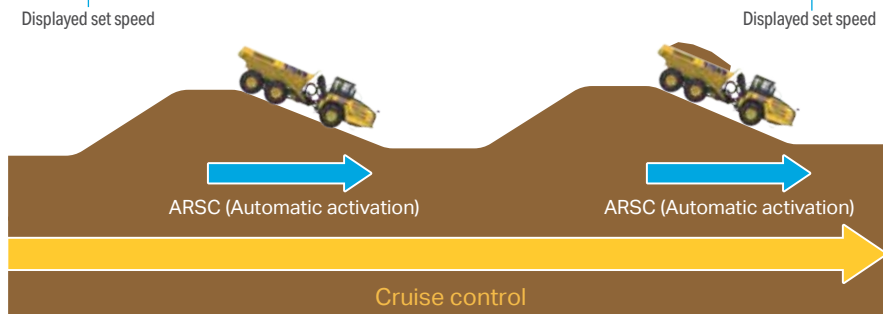
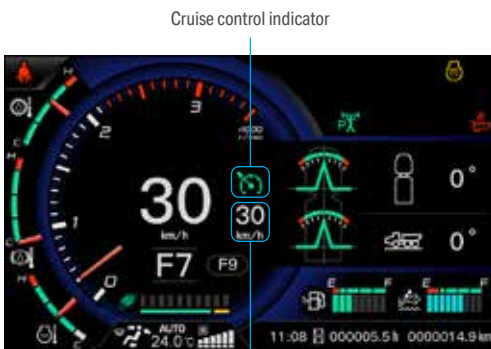


Cruise control +

The system automatically adjusts throttle and retarder control to maintain the operator's set speed. Whether on flat roads, uphill or downhill, it helps promote optimal driving conditions. If the operator decelerates using the retarder lever, the system maintains the decelerated speed once the retarder is released. After a complete stop using the same lever, the waiting brake engages automatically to hold the vehicle in place. A single tap of the speed-up switch or pressing the accelerator pedal automatically returns the vehicle to the preset speed. This feature delivers easy, comfortable operation suited to worksite condition.

Automatic Retard Speed Control (ARSC) +

Downhill speed can be set easily with a single touch. The retarder force is automatically controlled, allowing the driver to focus on steering during descent. Even while the downhill speed control is active, the set speed can be adjusted in 1 km/h increments with a single touch (within a ± 5 km/h range), making it easy to respond to changes in gradient during descent.



Speed limiter +

This feature makes it possible to set the maximum speed for each site and limits the output to restrict the maximum speed. During downhill travel, the maximum speed is adjusted by applying the retarder brake. The maximum speed can be set to any speed for each unloaded / loaded condition.

* Setting is performed by the service staff of Komatsu



Hydro pneumatic suspension with excellent ride comfort

The truck features a hydro pneumatic suspension used widely for the dump trucks on the front and rear axles. For the front axle, the De Dion trailing arm axle suspension system enables smooth driving, even on uneven grounds. On the rear axle, the trailing arm type axle suspension system is combined with the swinging equalizer bar and hydro pneumatic suspension, helping achieve a balance of excellent off-road capability and ride comfort.



Machine inclination monitoring +

Displays the roll angle of the vehicle's front and rear frames, the slope angle and the steering angle on the monitor for helping promote safety.



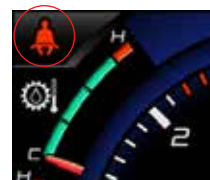
Rollover prevention system +

To help prevent rollovers while turning, speed and vehicle orientation are constantly monitored. If a rollover is imminent, a warning alarm will sound, and the engine output will be automatically inhibited. Also, when the roll angle of the rear frame is high, the body raising operation is restricted to help prevent rollover.



Seat belt reminder +

A buzzer sounds and a warning indicator is displayed to alert the operator when the seat belt is unbuckled. The green beacon lamp (if equipped) is mounted on the cab roof and lights up when the seat belt is buckled.



Machine monitor

External indicator lamp



Upper front section of the cab

Operator assistive technology

Easy dumping operation +

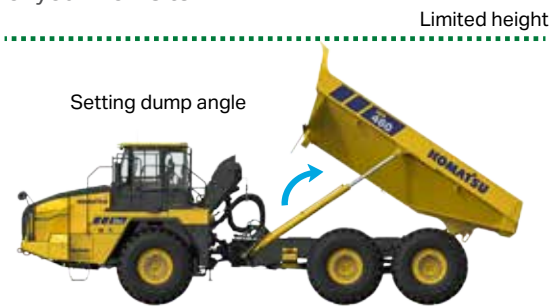
The dumping operation can be controlled by one finger through the three-stage operating position and the raise and lower detent system. Also, the lock switch helps prevent incorrect operation and helps drive toward zero harm.



- 1 Dump lever
Selectable in three positions: Raise, Neutral and Lower
- 2 Dump lever lock switch
Toggles between lock and unlock with each press
- 3 Shift lever
Selectable in three positions: Reverse, Neutral and Drive

Dump angle limitation

This function allows you to set a maximum tilt angle for the body to help prevent contact when there are restrictions on lifting height. The angle can be customized to suit the specific conditions of your worksite.



Hill start assist +

This feature automatically works to prevent rolling of the vehicle when switching from the service brake pedal to the accelerator on an incline. While this function is enabled, the retarder brake is automatically activated until sufficient traction is achieved, for smooth hill starts.



Semi-auto dumping

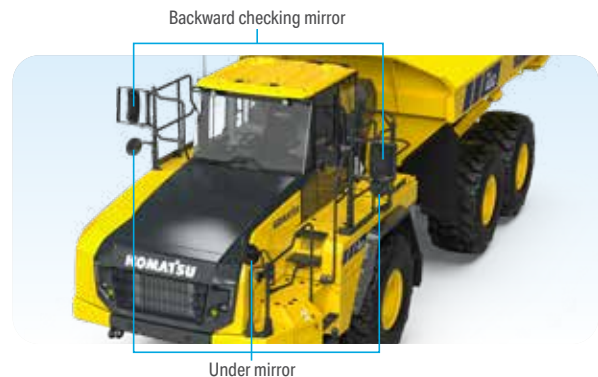
During body raising, the engine speed automatically increases, enabling smooth dumping without operating the accelerator pedal. If a body angle limit is set, the body will stop at the specified angle.

Waiting brake

The waiting brake automatically engages the retarder brake when the shift lever is placed in the "N" (Neutral) position while the vehicle is stopped using the service brake. This helps reduce the need for retarder lever operation during loading and dumping operation.

Enhanced visibility with under and large side mirrors +

These mirrors are mounted to provide clear visibility around the vehicle. In addition, the large heated side mirrors can be easily folded by removing just two bolts on each side, allowing for convenient maintenance or transport.



Engine shutdown secondary switch +

In addition to the secondary engine shutdown switch located inside the cab, emergency engine shutdown switches are equipped as standard for immediate shutdown in critical situations. These emergency engine shutdown switches are installed both inside the cab and at the left and right access points of the vehicle.

Emergency engine shutdown switch



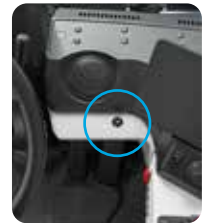
Engine shutdown secondary switch

LED lamps as standard +

Standard LED lamps promote safety and operational efficiency during night shifts, while also helping reduce the need for bulb replacements.

Secondary steering

The secondary steering system is automatically activated if the hydraulic pressure of the steering circuit lowers due to a failure in the hydraulic system. This can also be activated manually by the secondary steering switch in the cab. The pilot lamp on the machine monitor tells the operator that the system is operable when turning the key switch on. This feature conforms to ISO 5010, SAE J1511.



Brakes in three independent systems

Each brake for the front, rear and parking has an independent circuit, which makes it possible to stop the truck even if an abnormality occurs in either of the brake systems.

Secondary brake

The brake can be applied by operating the retarder control lever, even if an abnormality occurs in the brake pedal or the foot brake circuit.

Dump light +

The rear light and camera are activated during dumping, making confirmation of material removal status at night easier.



Photo may include optional equipment

A clear operator advantage

Significantly redesigned for enhanced visibility +

The cab has been completely redesigned to significantly enhance all-around visibility. By positioning the driver's seat at the center and precisely adjusting the location and shape of the A-pillars down to the millimeter, front blind spots by A-pillars and window frame have been reduced. In addition, the removal of the rear side pillars helps provide a wide field of view in all directions. The wiper's sweeping area has also been expanded by 16%, contributing to enhanced operation in rainy conditions.

Front and rear cab glass area (yd³)
16% increase

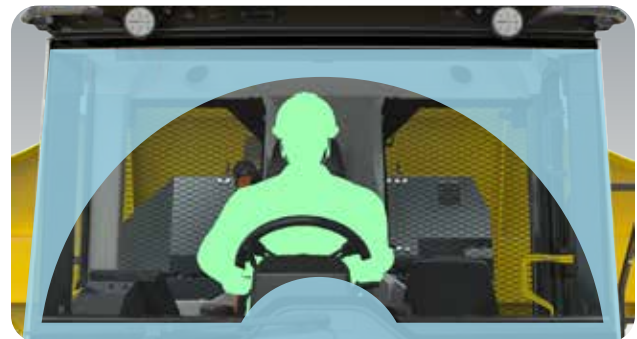
*compared to HM400-5



Expanded rear view



Expanded wiper coverage area



New universal-design cab +

Compared to the prior model, the new cab offers increased knee space, helping to improve comfort and reduce fatigue during long hours of operation. The combination of a highly sound-insulated cab and viscous cab helps effectively control noise and vibration.

Noise level at operator's ear (ISO6396) 72 dB (A)

*compared to HM400-5



New air-suspension seat +

A newly designed seat frame and cushion, developed based on ergonomic principles, offer advanced comfort. A significant amount of adjustments help add to operator comfort.

Deluxe seat +

This truck is equipped with a deluxe seat featuring a luxurious combination of high-quality fabric and genuine leather.

It comes equipped with a three-level adjustable seat heater and adjustable side supports on both the seat cushion and backrest for a personalized fit. To enhance comfort in all conditions, the seat also includes a three-level cooling system that circulates cooled air to areas in contact with the body, helping control heat and moisture buildup.



Enhanced air conditioning comfort +

Operators benefit from a cool and comfortable work environment. This truck is equipped with a sealed and pressurized cab and a high-capacity air conditioning system featuring enhanced airflow and strategically positioned vents.



Retractable steering column +

The new steering column has a retractable flap that can be adjusted with one pedal. The steering column angle can be adjusted with the pedal control and is designed to fit different body types for comfort.



Foldable trainer seat +

The foldable trainer seat has a two-point seatbelt with cushioning. The seating surface can each be folded, making it easy for the operator to get in and out.



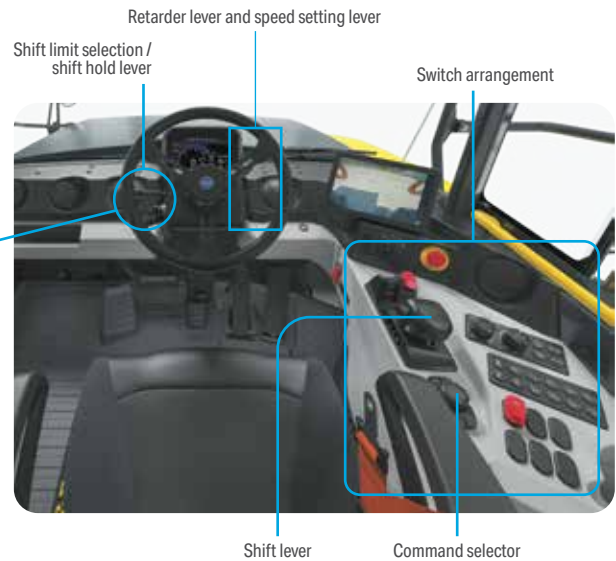
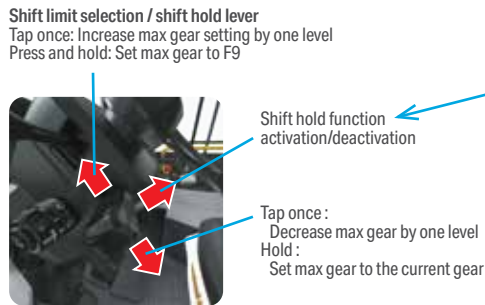
Ergonomic lever and switch layout +

Lever operation

The position of the shift lever and dump lever has been optimized to help make operating and dumping smooth. The levers for shift limit selection/ shift hold, retarder and speed setting have also been placed on the steering column to allow operators to focus on steering control. The design allows operators to need hand movements less frequently, helping mitigate operator fatigue

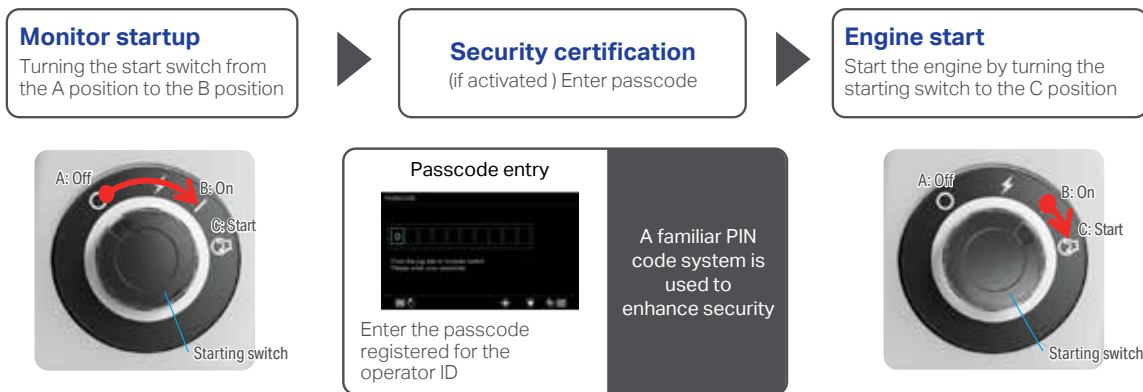
Switch arrangement

Control switches are placed collectively on the right side. By gathering the switches used in high frequency on the track of the right hand, it is possible to control switches while focusing on steering operation without leaving the left hand from the steering wheel. This layout helps improve comfort and operation with less fatigue.



Keyless start system +

The keyless start system has enhanced security and replaces the key-type engine start.



Operator ID

The operator ID and information on the right can be linked so that when you log on, the settings are automatically carried over.

Operator name, security authentication method, operator information, standard screen settings, monitor settings, Bluetooth® settings, inter-axle diff-lock switch, cross-axle diff-lock switch, power mode setting, forward/reverse start shift selection, ARSC settings, waiting brake setting, hill start assist, semi-auto dumping setting, dump light setting, option switch setting, etc.

Command selector +

The command selector for the control of the machine monitor is new on this truck. In addition, an option switch can be set for menus that are used frequently.



Customizable interior design +

The flat front dashboard provides a spacious operator area and features a customizable design with mounting points for local options.

Flat front dashboard



Front screen sun visor +

The new screen sun visor has been provided at the top of front cab glass. It can be pulled out when necessary and can help lower the temperature by blocking sunshine.

Bluetooth® radio +

By connecting to a smartphone via Bluetooth®, it is possible play music and make hands-free phone calls.

Standard accessories supporting comfortable work +

Around the left front dashboard



- 1 12 V power supply sockets (2 points)
- 2 USB port for power charging
- 3 Smartphone tray
- 4 Cup holder
- 5 Magazine box

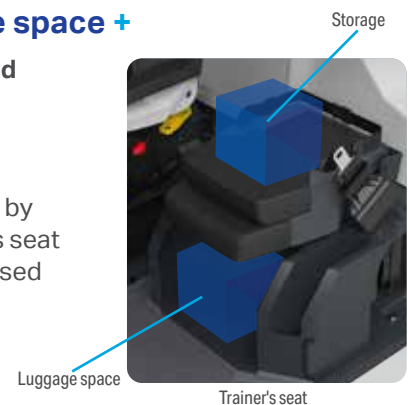
Around the right console



Ample storage space +

Luggage space and storage tray +

A luggage space is located under the trainer's seat. Also, by folding the trainer's seat forward, it can be used as a storage tray.



Large-capacity drink box

The drink box has been enlarged. It has extra space, even after accommodating two 2-liter plastic bottles. To help keep beverages chilled, air from the AC unit is circulated within the drink box based on the cab's climate settings.



Cab - rear right side

Intuitive and informative operator displays

Enhanced visibility and usability, 8-inch machine monitor and 10-inch sub monitor +

The cab features a high-resolution 8-inch Liquid Crystal Display (LCD) monitor. The command selector and other controls have been ergonomically designed. Switches can be customized in menus that are used frequently. A 10-inch touch screen sub monitor displays rear views.



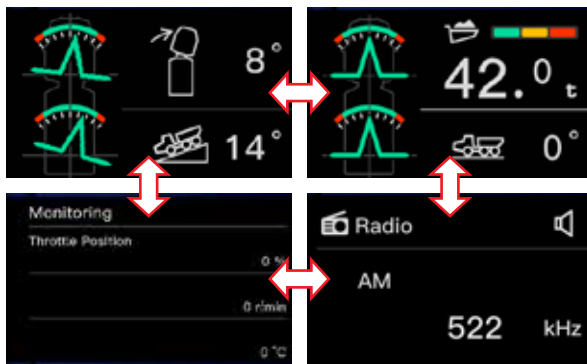
Machine monitor

- 1 Engine tachometer
- 2 Torque converter oil temp. gauge
- 3 Speedometer
- 4 Retarder oil temp. gauge
- 5 Engine coolant temp. gauge
- 6 Shift indicator
- 7 Air conditioner display part
- 8 ECO gauge
- 9 Cruise control / ARSC set travel speed
- 10 Fuel gauge
- 11 Clock · Service Meter Readings (SMR) · Odometer
- 12 DEF level gauge
- 13 LED indicator
- 14 Pilot lamp display part
- 15 Multi-function display part



Machine monitor - Multi-function display part

Switchable display of four screens

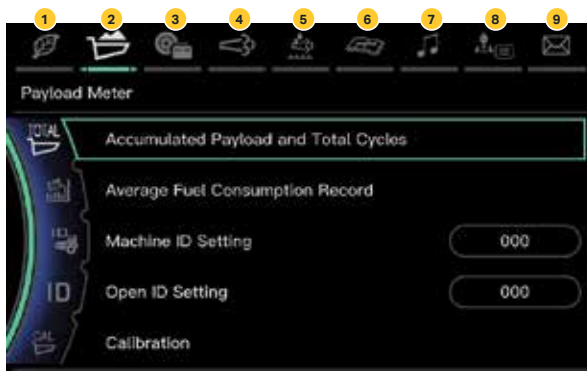


Sub monitor - Rearview monitoring system



Easy-to-use operator menu

Press the menu switch on the command selector, and the display shifts to the user menu. Each menu summarizes each function under one tab, and it is possible to easily find the intended function and display it.



User menu

- 1 Energy saving guidance
- 2 Payload meter
- 3 Machine setting and information
- 4 Aftertreatment devices regeneration
- 5 Selective Catalytic Reduction (SCR) information
- 6 Maintenance
- 7 Audio settings
- 8 Operator monitor setting
- 9 Message indication



ECO gauge

The ECO gauge indicates the current fuel consumption rate. Driving with an efficient fuel consumption rate is achieved by operating within the green range on the gauge.

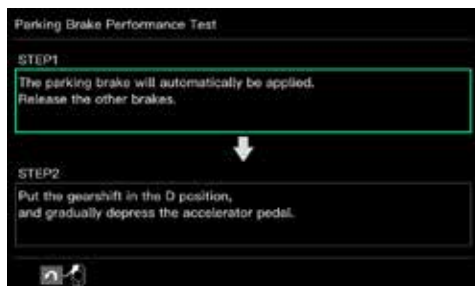
* The fuel consumption rate changes depending on the loading condition or accelerator control.



ECO gauge

Brake inspection guidance +

Brake testing procedures analyze each brake as indicated on the display. This brake capability inspection can be performed by following the guidance. The inspection result shows whether the system is normal or is experiencing a decrease in capability.



ECO guidance

To help operators improve fuel efficiency, ECO guidance makes suggestions (as shown below) with a pop-up message on the machine monitor.

- Please refrain from forcible steering control.
- Please return the hoist lever.
- Operating the accelerator while applying brake decreases the fuel efficiency.



ECO guidance



The Komatsu remote monitoring and management technology provides insightful data about your equipment and fleet in user-friendly format.

Maintenance intervals and safety features

Maintenance cost reduction +

Extension of interval to replace fuel pre-filters

500 hrs. → Up to 1,000 hrs.

Extension of interval to replace engine oil and filters

500 hrs. → Up to 1,000 hrs.*

*When using ultra-low-ash oil

Extension of interval to replace transmission filters

1,000 hrs. → Up to 2,000 hrs.

Extension of interval to replace hydraulic oil filters

1,000 hrs. → Up to 4,000 hrs.

Extension of interval for inspection and adjustment of valve clearance

2,000 hrs. → Up to 4,000 hrs.

Extension of interval to replace coolant

4,000 hrs. → Up to 6,000 hrs.**

**When conducting Komatsu Oil and Wear Analysis (KOWA)

Extension of interval for cleaning of KDPF

4,500 hrs. → Up to 8,000 hrs.*

*DPF cleaning interval when using Komatsu ultra-low-ash oil: Up to 16,000 hours

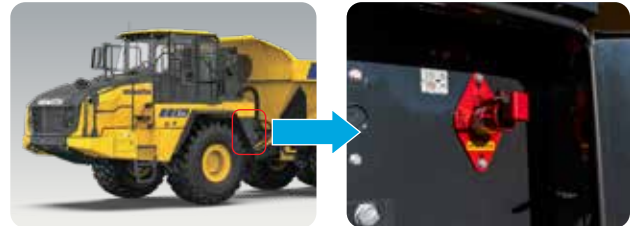
Extension of interval to replace KCCV filters

2,000 hrs. → Not necessary

Supporting safety during maintenance +

Disconnect switch +

The battery disconnect switch cuts off the electricity.



Delayed engine shutdown +

The engine continues to run to cool down when the engine and post-process devices are at high temperature after the starting switch is turned off. Once the temperature lowers, the engine automatically stops and the main power is also turned off.

Auto power off +

Auto power off is a function that automatically turns off the system to help prevent a dead battery. The main power supply will be automatically turned off if the set time passes with no machine monitor operation performed with the engine stationary.

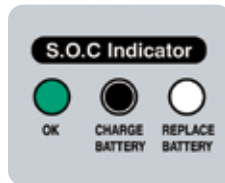
Lightweight plastic wheel chocks +

The lightweight plastic wheel chocks are newly adopted. They have been placed on each side of the rear frame.



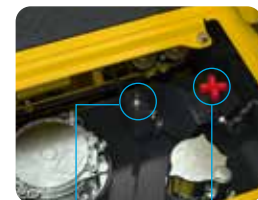
Low maintenance battery +

Low maintenance batteries help save time. Operators can easily check the indicator to confirm the battery condition (OK / Charge / Replace).



Power cab tilt

The cab can be tilted backward to promote easy inspection and maintenance around the engine and transmission. The power cab tilt system, driven by an electric hydraulic pump and cylinder, is equipped as standard.



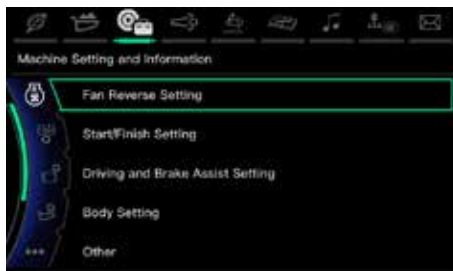
Switch (raising) Valve (lowering)

Hydraulic driving fan and electric fan +

Operators can blow out dust trapped in the core by turning on a reverse fan right from the cab monitor. This helps reduce the need for cleaning.



Fan reverse



Enhanced access to rear glass +

The cab guard can be opened and closed by a single touch without tools. Cleaning and wiper blade replacement can be fast and easy.



Maintenance made easy



Powered tiltable engine hood +

The lightweight, powered tiltable engine hood provides enhanced maintenance access, enabling easy daily inspection around the engine and transmission. The hood opening and closing switch is placed inside the DEF tank box at the front left side of the vehicle, allowing the operator to comfortably operate the switch from the ground.

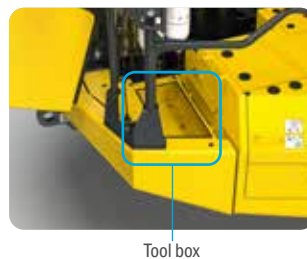
DEF tank

The DEF tank is placed at the front left side of the vehicle, allowing easy access from the ground.



Tool box

The tool box has been placed at the front left side of the vehicle.



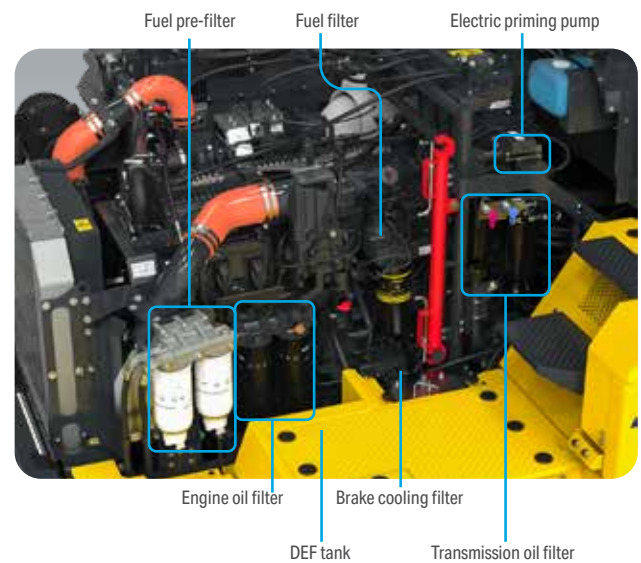
Air cleaner with pre-cleaner +

The pre-cleaner is standard, and the element life has improved by 1.7 times versus the previous model. Also, the cleanability and exchangeability are enhanced by the handle set on the air cleaner element.



Easy filter replacement +

Filters requiring regular maintenance have been placed at the left side of the vehicle to help improve maintainability. In addition, the electric fuel priming pump is equipped as standard.



Easy oil sampling +

The sampling ports for oil and coolant are equipped as standard equipment. All ports are collectively placed around the left side of the engine.

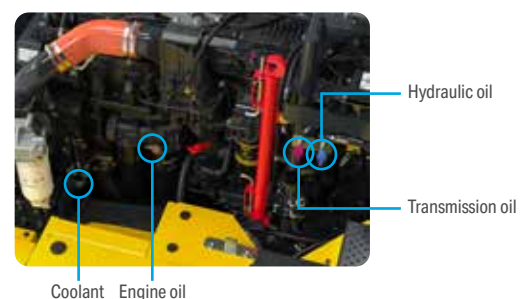




Photo may include optional equipment

Get the most out of your fleet with My Komatsu

We've designed a portal that makes it easy to collect, visualize and monitor data for both Komatsu machines and other OEM machines. My Komatsu also gives you one easy source for accessing manuals and purchasing parts for your machines.

- Quickly collect, view and manage intuitive data displays in one location
- Help keep costs under control
- Benchmark machine performance and track fuel consumption
- Monitor for theft and unauthorized use
- Receive timely maintenance alerts



My Komatsu, our comprehensive portal, analyzes telematics data from your on-machine technology — Komtrax, Komtrax Plus or from other OEMs — and displays it on easy-to-read dashboards. Now you can get the powerful analytics you need to manage your costs and enhance your fleet's efficiency without a complicated process or expensive third-party solutions.



Data
Telematics data is generated by on-machine technology.



Storage
Telematics data flows into data storage. ISO 15143-3 (AEMP 2.0) facilitates the extraction and raw data to your choice of databases.



Connection
Choose how you want to connect and view your data. Go to multiple systems, send to a third party or easily connect it all through My Komatsu.



Analytics
My Komatsu connects telematics data from Komatsu and non-Komatsu equipment and creates powerful analytics dashboard views.

mykomatsu.komatsu



Komatsu helps you bring it all together

Smart Construction technologies facilitate your 3D GPS site

Smart Construction 3D Machine Guidance adds operator guidance and as-built data collection to non-IMC excavators, including non-Komatsu brands.

Smart Construction 3D Machine Guidance Flex adds as-built data collection and operator guidance to almost any site vehicle, such as a scraper or supervisor truck.

Smart Construction Drone is a commercial drone for acquiring aerial mapping data.

Komatsu Base/Rover functions as an RTK base station or RTK rover.

All these technologies work seamlessly with Smart Construction Dashboard.

Make project management and data collection easier

Managing complex construction projects and all their worker data, then using it to make decisions is challenging. **Smart Construction Field** and **Smart Construction Office** are designed to help.

Smart Construction Field is a smart device application and web site to track construction project hours, costs and materials — without paper. It includes machine inspections, weather alerts and more.

Smart Construction Office is advanced project management software specifically designed for the construction industry. Its AI-powered assistant constantly evaluates your progress versus plan and alerts you to issues.

Connect the data from **Smart Construction Field** to **Smart Construction Office** and you can see powerful progress and budget vs. cost insights in near-real time.



With you from purchase through training and maintenance

Komatsu maintenance and repair programs

Get the service and repairs you need your way. Komatsu offers a tiered maintenance and repair program that simplifies the upkeep of your machine to help control operating costs and get the most from your equipment. Manage your active coverage programs through the My Komatsu customer interface and take advantage of attractive financing options.

- Solutions that fit your needs and ease your mind
- Fixed maintenance and repair costs for the life of the contract
- National coverage

Komatsu Care Complimentary

Complimentary maintenance

Our complimentary scheduled maintenance program for the first three years or 2,000 hours, whichever occurs first.

Komatsu Care Plus

Extended maintenance

A continuation of the Komatsu Care program. Along with regularly scheduled maintenance and national distributor coverage, you get a variety of added benefits.

Komatsu Care Plus II

Extended maintenance and repair

Everything in the Komatsu Care Plus program bundled with comprehensive repair coverage for qualifying repairs.

Komatsu Care Plus III

Extended maintenance, repair and consumables

A comprehensive program that simplifies your equipment's total cost of ownership with a fixed cost per hour for qualifying repairs and replacements.

Komatsu Care Advantage Warranty

Extended warranty

Protect your equipment in the event a covered component fails due to a defect in material or workmanship. Repairs are performed by Komatsu-trained experts using Komatsu genuine parts.

komatsu.com/maintenance-repair

Komatsu Financial

Financing can be a major advantage for your operation, enabling you to get the equipment and service you need with terms to fit your business needs. Komatsu Financial offers services built for your business success.

komatsu.com/financing

Komatsu Genuine Parts

Engineered to help extend the life of your Komatsu machine. Now available on the My Komatsu parts store.

komatsu.com/parts

Komatsu training

Comprehensive training support — virtually, at our facility or where most convenient.

komatsu.com/training



Specifications

Engine

Model	Komatsu DBA127	
Type	Water-cooled, 4-cycle	
Aspiration	Two stage turbocharged, aftercooled	
Number of cylinders	6	
Bore x stroke	5.12" x 6.30"	130 mm x 160 mm
Piston displacement	3.36 gal	12.74 L
Governor	All-speed, electronic	
Horsepower		
SAE J1995 (gross)	518 HP	386 kW
ISO 14396	517 HP	386 kW
ISO 9249/SAE J1349* (net)	516 HP	385 kW
Rated rpm	1,700 min ⁻¹	
Maximum torque	2,067 lb·ft	2,803 N·m
Fan drive method	Hydraulic and electric	
Fuel system	Direct injection	
Lubrication system		
Method	Gear pump, force-lubrication	
Filter	Full-flow type	
Air cleaner	Dry double elements with pre-cleaner, plus dust indicator	

*Net horsepower at the maximum speed of radiator cooling fan is 483 HP (360 kW). U.S. EPA Tier 4 Final and EU stage V emissions certified.

Transmission

Torque converter	3-elements, 1-stage, 2-phase	
Transmission	Full-automatic, planetary gear type	
Speed range	9 speeds forward and 2 reverse	
Lockup clutch	Wet, multi-disk clutch	
Shift control	Electronic shift control with automatic clutch modulation in all gear	
Maximum travel speed	33.24 mph	53.3 km/h
Inter-axle differential lock type	Wet-type multiple disc	

Axles

Drive system	Six wheel drive	
Traction control type	KTCS	
Cross-axle differential lock type	Wet-type multiple disc	
Differential	Spiral bevel gear	
Final drive	Planetary gear	
Ratios		
Differential	3.063	
Planetary	6.000	

Suspension system

Front	Hydro-pneumatic suspension	
Rear	Combined hydro-pneumatic and rubber suspension system	

Steering system

Type	Articulated type, fully hydraulic power steering with two double-acting cylinders	
Secondary steering	Automatically actuated, electrically powered	
Standard	ISO 5010, SAE J1511	
Minimum turning radius, wall to wall	29' 4"	8.95 m
Articulation angle	45° each direction	

Cab

Standard	ISO 3449 (FOPS), ISO 3471 (ROPS)	
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Brakes

Service brakes	Full-hydraulic control, oil-cooled multiple-disc type on front and center axles	
Standard	ISO 3450	
Parking brake	Spring applied, caliper disc type	
Retarder	Front and center axle brakes act as retarder	

Main frame

Type	Articulated type, box-sectioned construction on front and rear connected by strong torque tubes.	
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Body

Capacity		
Struck	24.7 yd ³	18.9 m ³
Heaped (2:1, SAE)	33.6 yd ³	25.7 m ³
Payload	46.3 U.S. tons	42.0 metric tons
Material	HB450 wear-resistant steel plate	
Material thickness		
Bottom	0.55"	14 mm
Front	0.28"	7 mm
Sides	0.43"	11 mm
Target area		
(Inside length x width)	18.91' x 10.48'	5,767 mm x 3,194 mm
Heating	Exhaust heating (optional)	

Hydraulic system

Hoist cylinder	Twin, telescopic type	
Relief pressure	4,125 psi	28.4 MPa 290 kgf/cm ²
Hoist time	12 sec	

Weight

Empty weight	72,533 lbs. (36.3 U.S. tons)	32,900 kg
Gross vehicle weight	165,126 lbs. (82.6 U.S. tons)	74,900 kg
Weight distribution		
Empty: Front axle	59.2%	
Center axle	21.7%	
Rear axle	19.1%	
Loaded: Front axle	30.4%	
Center axle	36.0%	
Rear axle	33.6%	

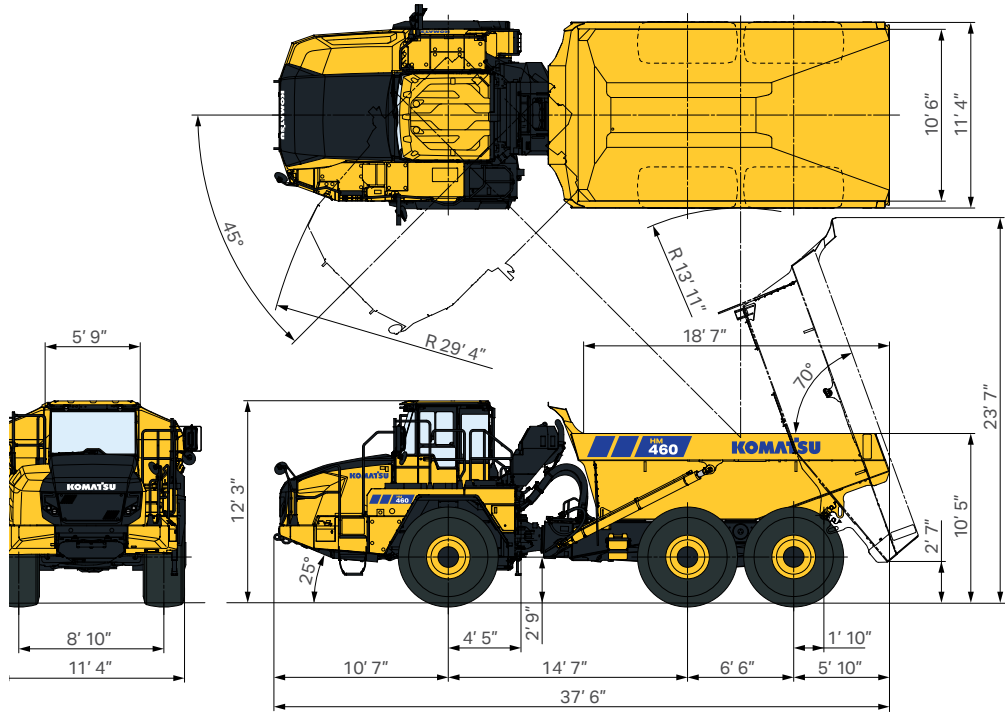
Tires

Standard tire	29.5 R25	
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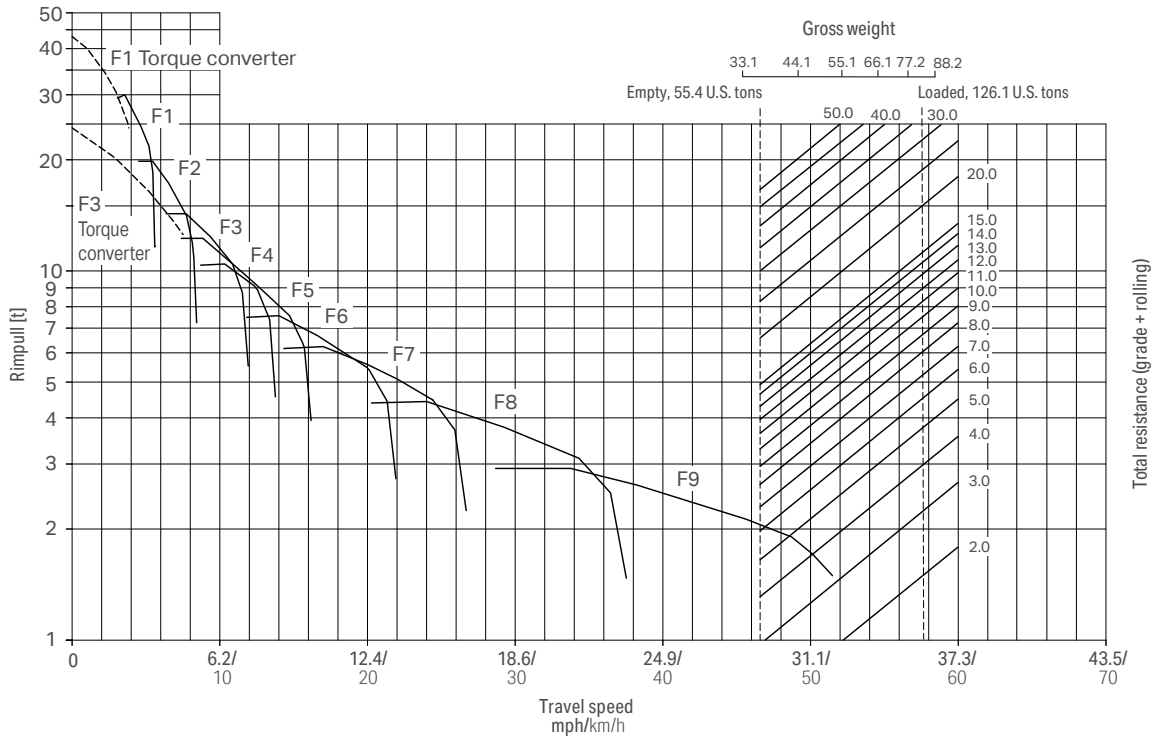
Refill capacity

Fuel tank	127.0 gal	482.0 L
DEF tank	22.2 gal	84.0 L
Engine oil	12.9 gal	49.0 L
Torque converter, transmission and retarder cooling	23.6 gal	89.4 L
Differentials (total)	30.7 gal	116.2 L
Final drives (total)	9.5 gal	35.8 L
Hydraulic system	36.7 gal	138.8 L
Suspension (total)	5.65 gal	21.4 L
Cooling system	23.2 gal	88.0 L


Dimensions



Travel performance (P-mode)



Retarding guidelines



Gear speed	Continuous downhill gradient (%)	1,968.5' downhill gradient (%)	Speed (mph)
F1	24 ~ 38	26 ~ 40	3.7
F2	17 ~ 25	19 ~ 27	5.6
F3	15 ~ 17	16 ~ 19	6.2
F4	13 ~ 15	14 ~ 17	7.5
F5	9 ~ 13	11 ~ 15	9.9
F6	8 ~ 10	10 ~ 12	14.3
F7	6 ~ 8	7 ~ 10	16.8
F8	4 ~ 6	5 ~ 8	24.2
F9	0 ~ 4	0 ~ 6	34.8

* Max. loaded machine : 165,100 lbs. (82.6 U.S. tons), tire size : 29.5 R25

* Actual grade, not including rolling resistance.

* Depending on the road resistance, the change in weight or ambient temperature because of the load, the speed limit is changed.

Body selection

The HM460-6 has two body types to choose from, with optional equipment tailored to the user's load conditions available for each body. All bodies are provisioned for body heat.

Standard body

Suitable for a wide range of uses. Wear-resistant steel plates are installed at key parts of the machine to ensure durability.



Standard body and tailgate

A body with a tailgate installed on the standard body. An option to help prevent cargo spillage from the rear of the body.



Bottom plate	0.55" / HB450-grade, wear-resistant steel	—
Front plate	0.28" / HB450-grade, wear-resistant steel	—
Side plate	0.43" / HB450-grade, wear-resistant steel	—
Protector	0.28" / HB450-grade, wear-resistant steel	—
Body capacity	33.6 yd ³	35 yd ³

Equipment

Engine and related components

Air cleaner with pre-cleaner	•
Alternator, 24 V/140 A	•
Bio diesel fuel, B20	•
Engine control with selectable operating modes	•
Engine, Komatsu DBA127	•
KDPF	•
Maintenance free batteries, 2 x 12 V	•
Renewable diesel approved	•
SCR	•
Starting motor, 11.0 kW	•

Hydraulic system

ARSC	•
Auto idle stop	•
Automatic idling setting system	•
Automatic start shift selection	•
Brake inspection guidance	•
Cruise control	•
Dump angle limitation	•
Full automatic F9-R2 transmission with lock-up clutch	•
Hill start assist	•
Hydro pneumatic suspensions (Front and rear)	•
KTCS and cross axle differential lock system	•
Payload meter	•
Semi-auto dumping	•
Skip shift function	•
Waiting brake	•

Cab

10" sub monitor	•
2 x 12 V power supply socket and USB port power charging	•
3 position hoist control system	•
8" machine monitor	•
Air conditioner	•
Bluetooth® radio	•
Built-in ROPS (ISO 3471) / FORS (ISO 3449) cab	•
Cup holder	•
Front screen sun visor	•
Front wiper (With washer and intermittent)	•
Large-capacity drink box	•
Luggage space and storage tray	•
Magazine box	•
Operator seat, reclining, air suspension type with 3-point retractable seat belt	•
Rear cab guard	•
Rear wiper (with washer)	•
Retractable steering column	•
Seat belt reminder	•
Smartphone tray	•
Trainer seat with 2-point retractable seat belt	•

Body

Body (33.6 yd ³ (25.7 m ³), 42 ton payload)	○
Safety pin	•
Tie off anchorage points	•
Body tail gate	○
Exhaust heating	○

Guards and covers

Engine small unit guard	•
Engine underguard	•
Exhaust muffler thermal guard	•
Fire prevention covers	•
Mud guards	•
Propeller shaft guards	•
Transmission underguard	•
Filler cap lock and cover lock	•

Lighting system

LED back work lamps, L.H. and R.H. side	•
LED back-up lamp	•
LED clearance lamps	•
LED dump lights	•
LED fog lamps	•
LED front work lamps	•
LED headlamps, high beam and low beam	•
LED stop/tail lamps	•
LED turn signal lamps and hazard warning lamps, front and rear	•
LED yellow beacon with guard	•

Tires

29.5 R25	○
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Standard equipment	•
Optional equipment	○



Other equipment

Alarm, backup	•
Auto power off	•
Battery disconnect switch	•
Brake cooling oil capture tank	•
Coolant temperature alarm and lamp	•
Delayed engine shutdown	•
Dimpled slip-resistant plates	•
ECO gauge	•
ECO guidance	•
Electric circuit breakers, 24 V	•
Electric priming fuel pump	•
Emergency engine stop switch, ground level	•
Engine shutdown secondary switch	•
Fully hydraulic controlled wet multiple-disc brakes and retarder system	•
Guard rails	•
Horn, electric	•
Hydraulic driving fan and electric fan	•
Komtrax	•
KOWA ports	•
Light-weight wheel chocks	•
Machine inclination monitoring	•
Necessary tool kit	•
Neutral coast inhibitor	•

Overload prevention, only alarm	•
Parking brake	•
PM clinic service connectors	•
Power cab tilt	•
Powered tiltable engine hood	•
Protective grille for rear window	•
Rear view mirrors with heater	•
Rear view monitoring system	•
Rollover prevention system	•
Secondary brake	•
Secondary engine shutdown switch	•
Secondary steering	•
Steering joint locking assembly	•
Step (Right side) and ladder (Left side)	•
Tool box	•
Tying-down	•
Under view mirrors	•
Seat belt reminder, green beacon	○
Speed limiter	○

Standard equipment •

Optional equipment ○



Photo may include optional equipment

Notes





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