

KOMATSU

HM460-6



* Photos in the catalogue may include overseas models and/or additional options.

Articulated dump truck

Engine power

Gross : 386 kW / 517 HP @ 1700 min⁻¹

Net : 385 kW / 516 HP @ 1700 min⁻¹

Maximum payload

42.0 t

Body capacity (heaped 2:1)

25.7 - 26.8 m³

Outstanding productivity, safety, and economy

Komatsu - taking our dump trucks to the next level of performance and economy

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25.7 m³
(26.8 m³ with tailgate fitted)

Safety & Easy operation

- Two driving assist functions **New**
- Rollover prevention system **New**
- Safe and stress-free dumping operation **New**
- Hill start assist **New**

Operator environment

- New universal-design cab **New**
- Significantly improved visibility **New**
- Ergonomic lever and switch layout **New**
- Keyless start system **New**

Information and Communication Technology (ICT)

- Enhanced visibility and usability, 8-inch machine monitor & 10-inch sub monitor **New**
- Eco gauge & Eco guidance
- Brake inspection guidance **New**
- Komtrax

Economy & Productivity

- New-generation engine - Komatsu DBA127 **New**
- New transmission and new gear control **New**
- Strong and Lightweight, supporting higher payload capacity **Upgrade**
- Komatsu Traction Control System (KTCS) and the cross-axle differential lock system **Upgrade**
- Payload Meter (PLM) **Upgrade**

Maintenance

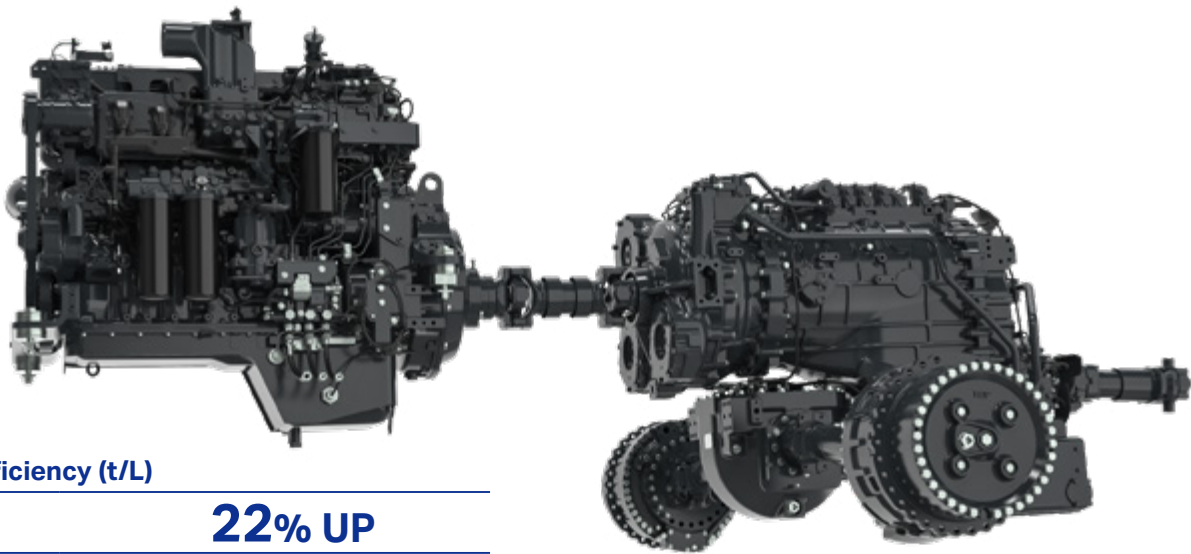
- Maintenance cost reduction **Upgrade**
- Easy filter replacement **Upgrade**
- Easy oil sampling **New**
- Powered tiltable engine hood **New**
- Air cleaner with pre-cleaner **New**



Economy & Productivity

Significantly improved fuel efficiency New

Newly designed powertrain components integrate the latest fuel consumption reduction technologies. The power generated by the engine with low fuel consumption and high output is transmitted to the tires by the highly efficient transmission and axles, enabling high driving performance. Additionally, the increased payload has achieved significant improvement of fuel efficiency.



Fuel efficiency (t/L)	22% UP
Fuel consumption (L/h)	12% DOWN

It is an estimated value compared with the conventional vehicle (HM400-5).
The actual effect may vary depending on the contents of work.

Strong and Lightweight, supporting higher payload capacity Upgrade

- Dump body

The body uses the 450 HB-class wear-resistant steel plate in key areas achieving weight reduction. The body capacity and maximum payload have been significantly increased while maintaining its durability.
- 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, resulting in a higher payload capacity.

Body capacity (heaped 2:1)	25.7 m³ (7% UP)
	26.8 m³ with tailgate fitted
Maximum payload	42.0 t (5% UP)

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

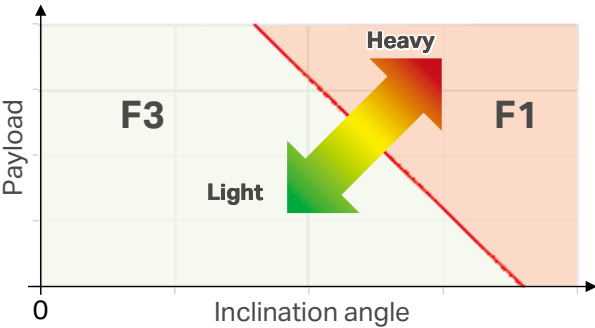


New transmission and new gear control New

The new transmission with 9 forward gears and 2 reverse gears and the new gear control have enabled significant improvement of fuel efficiency.
The new transmission has achieved a lower rotation rate of the engine, contributing to low fuel consumption. The new gear control monitors the payload and the road surface condition and selects the appropriate gear to achieve a highly efficient operation.

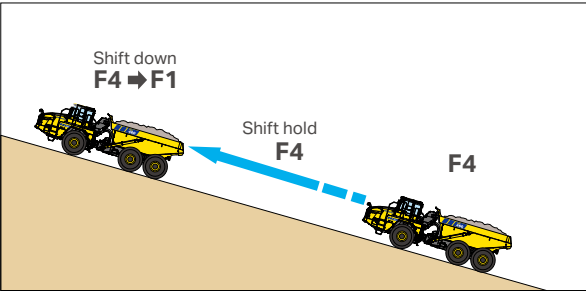
• Automatic start shift selection New

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. It reduces the number of downshifts, makes the driving smoother, improves the operator's comfort and reduces material spillage.



Economy & Productivity

Next-generation engine Komatsu DBA127 New

Developed in-house, the clean engine with low fuel consumption and high output maintains high reliability, by the fuel efficiency improvement and the optimal design of post-exhaust gas process system. It has achieved both the further reduction of environmental impact and excellent economical efficiency, whilst also focusing on the ease of maintenance.

Engine rated power output (gross)

386 kW (9% UP)

Engine maximum torque (gross)

2803 N·m (23% UP)

Values in parentheses represent increases compared to HM400-5



• Selectable operating modes

The operator can choose between two operating: "Power" mode or "Economy" mode, according to machine operating condition or core profile.



• P mode

Utilizes maximum power to deliver a high workload. Suitable for work sites which require heavy workload, etc.



• E mode

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

• Auto idle stop

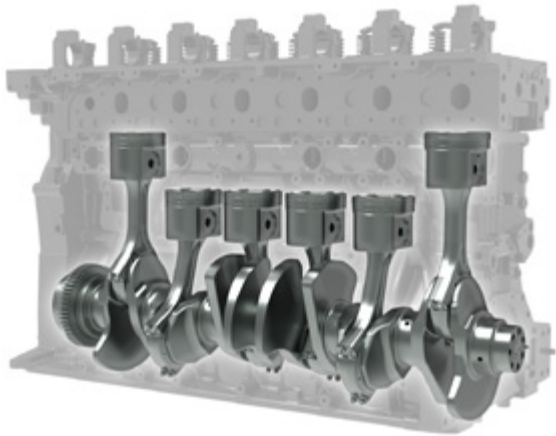
The engine automatically stops and reduces consumption of excess fuel and generation of exhaust gas when the idling state continues beyond the given set time length (5 to 60 minutes) due to waiting for loading, etc.

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



• Improve critical engine components New

Key engine components such as cylinder blocks, crankshafts, and pistons were reviewed from the viewpoint of materials and structure. Significantly improves material strength and fuel efficiency, increases engine output by 9%, and improves fuel consumption per output by 8%. Achieved high durability, high output, and low fuel consumption. In addition, by adopting the latest technology, we have been able to improve the engine output while maintaining the same level of noise as the previous engine, creating an environmentally friendly engine.

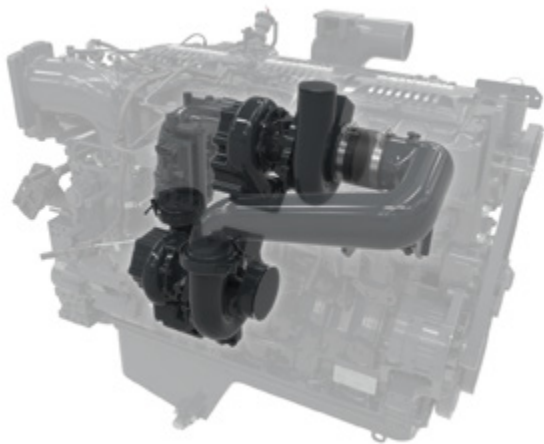


• Electronic control system New

The electronic control system performs highspeed processing of all signals from sensors installed in the vehicle and engine to ensure total control of equipment in all conditions of use. While keeping the powerful and quick response of Komatsu equipment, the system helps reduce NOx and Particulate Matter (PM) emissions to a great extent, improve fuel consumption, and reduce noise level. Conditions of the engine are displayed via an on-board network on the monitor inside the cab, providing necessary information to the operator. Furthermore, managing the information via Komtrax helps customers engage in appropriate maintenance and diagnosis.

• Two-stage turbocharger

Equipped with the two-stage turbocharger system which consists of two turbochargers arranged in series. Achieves a powerful and fuel-efficient engine by efficient turbocharging across low to high speed ranges.



• Extend maintenance interval New

The Komatsu Diesel Particulate Filter (KDPF) cleaning interval has been extended from 4500 hours to 8000 hours, while valve clearance inspection / adjustment has been extended from 2000 hours to 4000 hours.

By changing the filter type, Komatsu Closed Crankcase Ventilation (KCCV) filter replacement, that was previously required, is no longer necessary.

Replacement interval	HM460-6	HM400-5
KDPF cleaning	8000 hours	4500 hours
Valve clearance inspection and adjustment	4000 hours	2000 hours
KCCV filter replacement	Not necessary	2000 hours

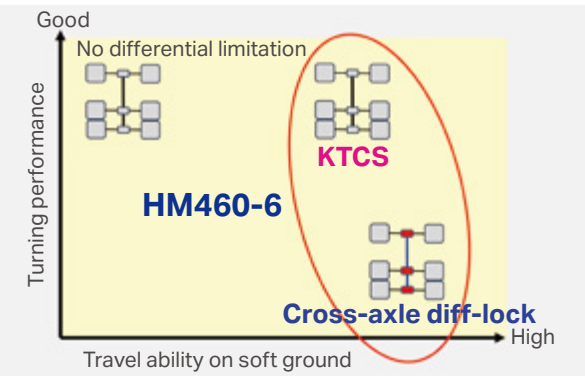
Economy & Productivity



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

It achieves outstanding performance regarding terrain capability on soft ground through the excellent six-wheel drive system. Particularly on road surface environments which continue to change, such as muddy ground and uneven ground, the combination of KTCS and the cross-axle differential lock provides stable traction to ensure excellent operability as well as the safety and efficiency of work.

- **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. (Not equipped in the HM400-5).

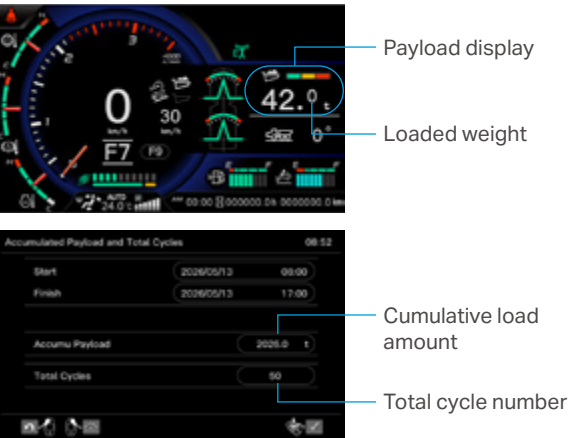


Payload Meter (PLM) Upgrade

PLM visualizes the load number and enables easy management of the production volume and operating conditions. Operation under the optimal vehicle condition is supported by the machine monitor displaying the payload and the exterior indication lamp which the loading machine operator can use 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

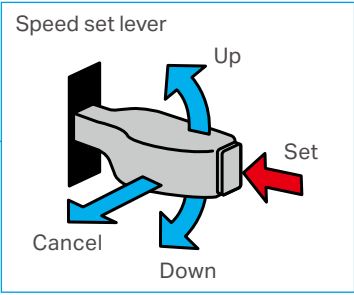


* Photos in the catalogue include options

Safety & Easy operation

Two driving assist functions New

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, operator can choose one in these two functions.

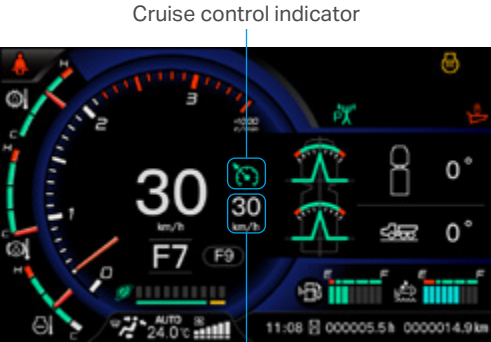


• Cruise control New

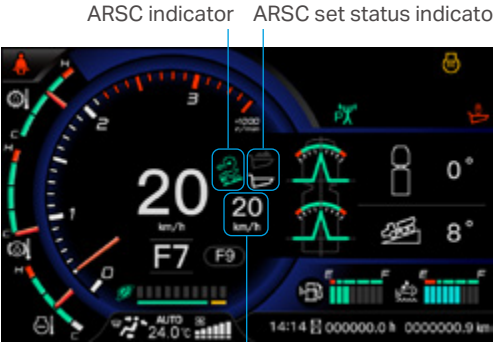
The system automatically adjusts throttle and retarder control to maintain the operator's set speed. Whether on flat roads, uphill, or downhill, it ensures optimal driving conditions at all times. If the operator decelerates using the retarder lever, the system keeps the decelerated speed once the retarder is released. After a complete stop using the same lever, the waiting brake engages automatically to securely 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 safe, comfortable operation ordered to any worksite condition.

• Automatic Retard Speed Control (ARSC) New

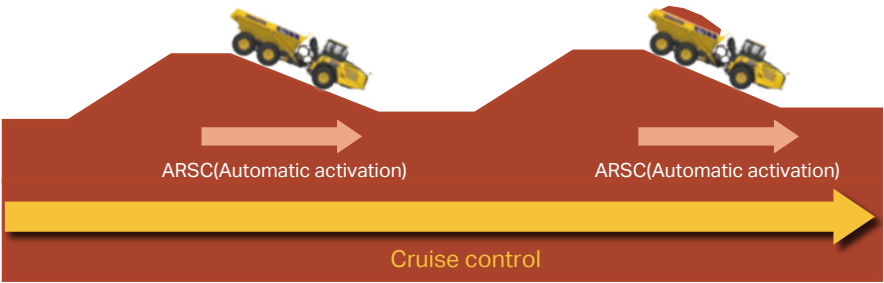
Downhill speed can be set easily with a single touch. The retarder force is automatically controlled, allowing the driver to focus solely on steering during descent. Even while the downhill speed control is active, the set speed can be adjusted in 1 km/h increments with a single touch (within a ± 5 km/h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



Displayed set speed



Displayed set speed



Speed limiter New

Makes it possible to set the maximum speed set for each site of the customer 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.



Speed limiter, Overload New

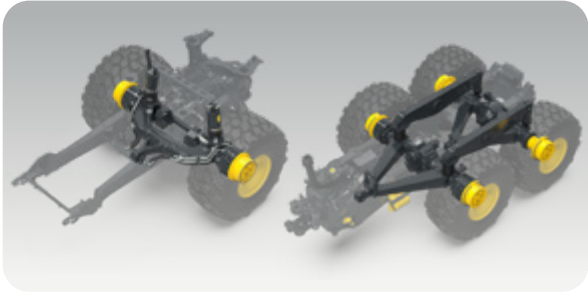
The overload speed limit function makes it possible to limit the speed for overload beyond the set payload.

In addition, it is also possible to select the setting to only indicate and sound the warning for the overload without performing the speed limit.

* Setting is performed by the service staff of Komatsu.

Hydro pneumatic suspension with excellent ride comfort

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



Machine inclination monitoring New

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



Rollover prevention system New

In order to prevent rollover of the rear part during turning and contributes to safe driving, the alarm warning performs and engine output automatically is inhibited by detecting the vehicle speed and the state of vehicle.

Also, when the roll angle of the rear frame is high, the body raising operation is restricted to prevent rollover.



Seat belt reminder Upgrade

A buzzer sounds and a warning indicator is displayed to alert the operator when the seat belt is unbuckled.

The green beacon lamp (Optional) mounted on the cab roof lights up depending on whether the seat belt is buckled.



Machine monitor

External indicator lamp (Optional)



Upper front section of the cab

Safety & Easy operation

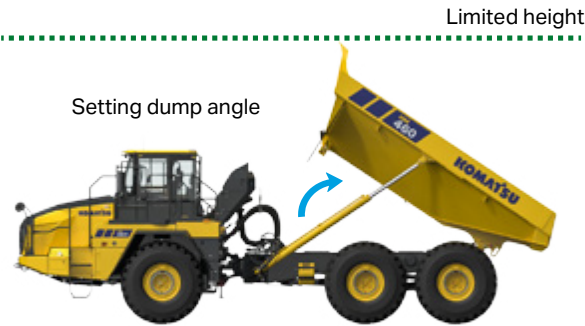
Safe and stress-free dumping operation New

The dumping operation can be controlled by one finger through the three-stage operating position and the raise and lower detent system. In addition, the lock switch to prevent incorrect operation is placed next to the dump lever to support safe operation.



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

• **Dump angle limitation**
This function allows you to set a maximum tilt angle for the body to 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 New

This feature automatically prevents rolling backward of the vehicle when switching from the service brake pedal to the accelerator on an incline. During working this function, the retarder brake is automatically activated until sufficient traction is achieved, ensuring smooth hill starts.



• **Semi-auto dumping**
During body raising, the engine speed automatically increases, enabling smooth dumping without operating accel pedal. If a body angle limit is set, the body will stop at the specified angle.

• **Waiting brake**
The waiting brake is a function that 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 reduces the need for retarder lever operation during loading and dumping operation.

Enhanced visibility with under and side mirrors

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



Built-in ROPS / FOPS cab

Operator cab structure conforms to ISO 3471 ROPS standard, and 3449 FOPS Level II standard.

Engine shutdown secondary switch Upgrade

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.



Engine shutdown secondary switch

LED lamps as standard Upgrade

Standard LED lamps enhance safety and operational efficiency during night shifts, while also reducing 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. Conform 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 avoid the danger of other systems even if an abnormality occurs in any one of 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 New

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

Operator environment

Significantly enhanced visibility New

The cab has been completely redesigned from the conventional model 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 provides a wide, unobstructed field of view in all directions. The wiper's sweeping area has also been expanded by 16%, contributing to safer operation in rainy conditions.

Front and rear
cab glass area (m²)
16% UP
Compared with HM400-5



• Expanded rear view



• Expanded wiper coverage area



New universal-design cab New

Compared to the conventional model, the new cab offers increased knee space, ensuring greater comfort and reduced fatigue during long hours of operation. The combination of a highly sound-insulated cab and viscous cab mounts effectively reduces noise and vibration.

Noise level at operator's ear (ISO6396)
72 dB (A)
* This data is the result of an in-house test and may differ from actual values. * Equivalent to HM400-5.



New air-suspension seat New

A newly designed seat frame and cushion, developed based on ergonomic principles, offer enhanced comfort. Along with a significantly expanded fore-aft adjustment range.

Deluxe seat New

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, reducing heat and moisture buildup. Additionally, 4-point seatbelt options are available to suit various safety preferences.



Enhanced air conditioning comfort

Upgrade Equipped with a sealed and pressurized cab, a high-capacity air conditioning system featuring enhanced airflow and strategically positioned vents, this machine ensures a more comfortable and productive operating environment.



Retractable steering column New

Adopted the new steering column of the flap retracting type. Easily retractable with one pedal and does not interfere when getting in / out. The angle adjustment of the steering column can be done easily with the pedal control, and can fit any operator, supporting comfortable driving.



Foldable trainer seat Upgrade

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



Operator environment

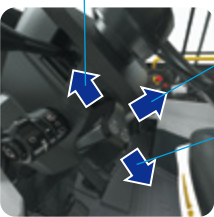
Ergonomic lever and switch layout

• Lever operation

Optimized the position of the shift lever and dump lever in order to control driving and dumping smoothly. The shift limit selection / shift hold lever, retarder lever, and speed setting lever have also been placed on steering column so as to make it possible to focus on the steering control. The traveling amount of the operator's hand during operation has been reduced significantly to contribute to the reduction of fatigue and the safe driving.

• Shift limit selection / shift hold lever

Tap once : Increase max gear setting by one level
Press and hold : Set max gear to F9

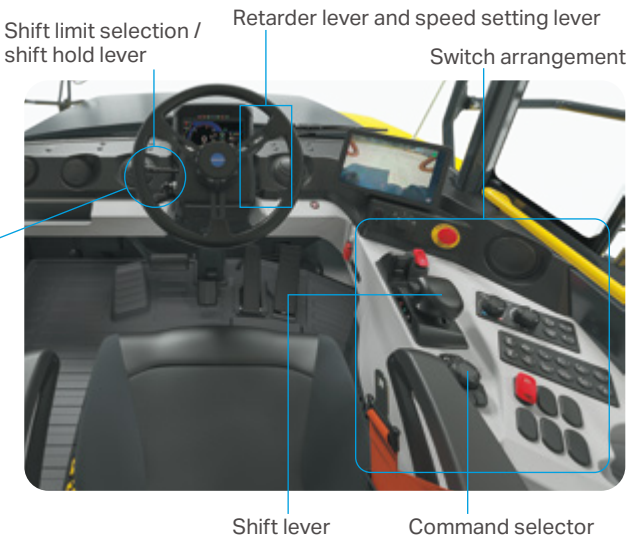


Shift hold function
Activation / Deactivation

Tap once :
Decrease max gear by one level
Hold :
Set max gear to the current gear

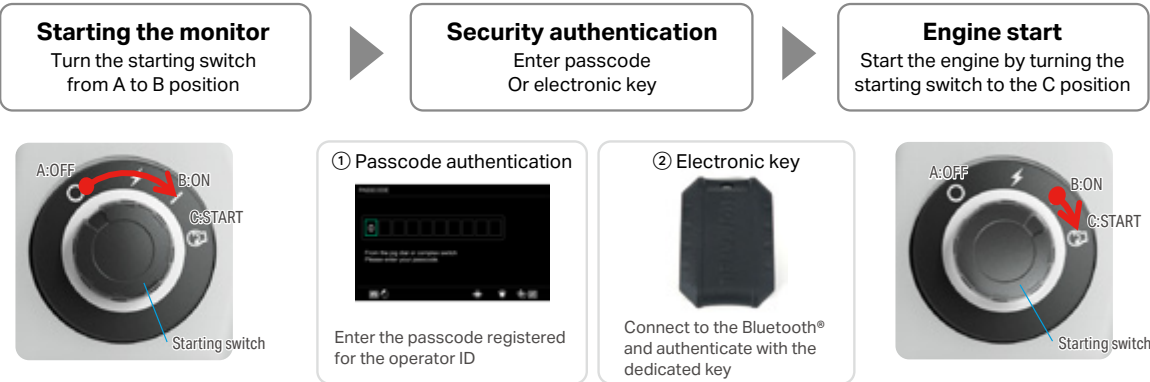
• Switch arrangement

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 steering operation without leaving the left hand from the steering wheel, ensuring a safe, comfortable and fatigue-resistant operation.



Keyless start system New

Adopted the keyless start system that has enhanced security, in place of the existing key-type engine start. The starting switch is placed near the switches on the right side of the operator's seat. As an option, the smart door that can open / close using an electronic key is selectable.



Operator ID

It is possible to register an ID for each operator to the vehicle and make the operator ID memorize various vehicle settings. Once the operator ID is registered to the vehicle, the previous settings are automatically recalled at all future logins, eliminating the need for resetting and improving efficiency.



Operator name
Security authentication method

- Various vehicle settings
 - Inter-axle diff-lock switch
 - Cross-axle diff-lock switch
 - Setting of power mode at start
 - Forward / Reverse start shift selection
 - ARSC settings
 - Waiting brake setting
- Hill start assistant setting
- Semi-auto dumping setting
- Dump light setting
- Monitor settings
- Bluetooth® setting
- Option switch setting

Command selector New

The command selector for the control of the machine monitor is newly adopted. It can be controlled instinctively. In addition, option switch can be set for menus which are used frequently.



Customizable interior design New

The flat front dashboard provides a spacious operator area and features a customizable design for easy user modifications.



Front screen sun visor New

Screen sun visor has been provided at the top of front cab glass. It is possible to pull them out when necessary and prevent temperature rise by blocking sunshine.

Bluetooth® radio New

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

Standard accessories supporting comfortable work New

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 Upgrade

• Luggage space and storage tray New

The luggage space has been provided under the trainer's seat. Also, by folding the trainer's seat forward, it can be used as a storage tray.



Luggage space

Trainer's seat

• Large-capacity drink box

The drink box has been enlarged.

It has extra space, even after accommodating two 2 liters plastic bottles.

Within the drink box, air is fed according to the setting of the air conditioner.



Cab - rear right side

Information and Communication Technology (ICT)

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

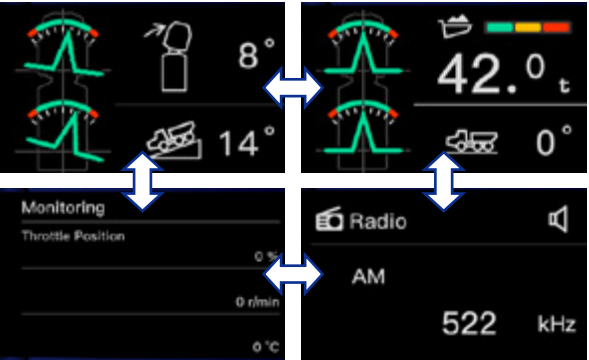
For the machine monitor, the high resolution 8-inch Liquid Crystal Display (LCD) monitor is adopted. By the command selector provided as a standard, operation can be done instinctively and the operability has improved remarkably. In addition, option switches can be set for menus which are used frequently. For the sub monitor, the 10-inch touch screen monitor is adopted.



Machine monitor

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

• Machine monitor - Multi-function display part
Switchable display of four screens





Return switch

Menu switch

Command selector

Audio switch

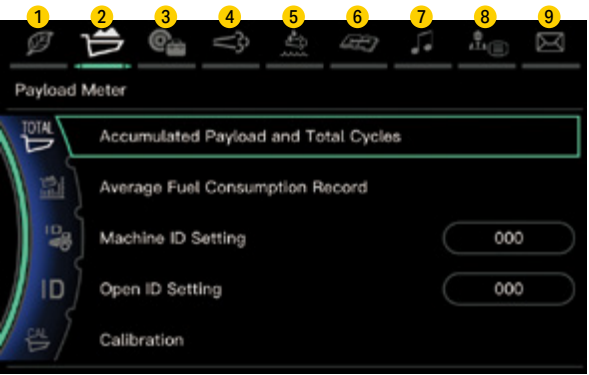
Option switch

• Sub monitor - Rearview monitoring system



Instinctive and easily operable user 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.



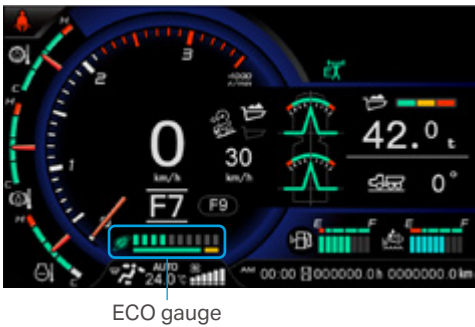
User menu

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

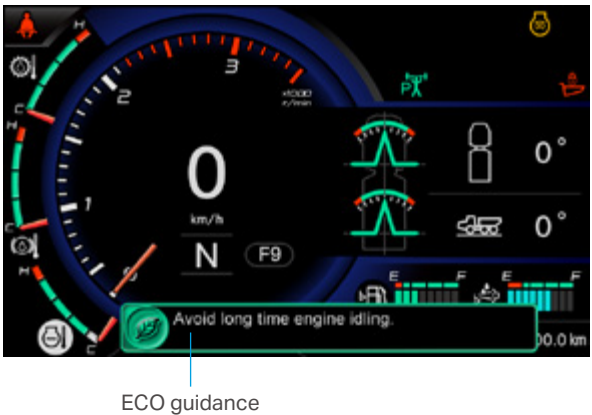
The ECO gauge indicates the current fuel consumption rate during driving. Driving with a good fuel consumption rate is achieved by operating within the green range on the gauge.
* The fuel consumption rate changes depending on the loading condition or accelerator control.



ECO guidance

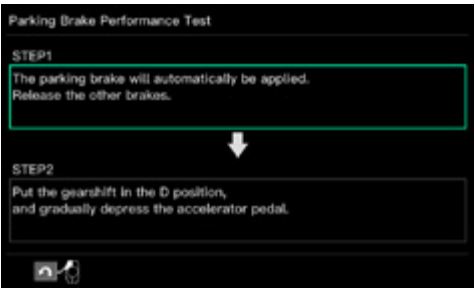
When performing the energy-saving operation to reduce fuel consumption, the ECO guidance makes suggestions as shown below by indicating it with the pop-up on the machine monitor.

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



Brake inspection guidance New

Procedures for brake capability inspection for each brake are indicated, and the brake capability inspection can be performed by following the indication. The inspection result shows whether the system is normal or has a decrease in capability.



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

Maintenance

Maintenance cost reduction Upgrade

• Extension of interval to replace fuel pre-filters	
500 hours →	1000 hours
• Extension of interval to replace engine oil & filters	
500 hours →	1000 hours
• Extension of interval to replace transmission filters	
1000 hours →	2000 hours
• Extension of interval to replace hydraulic oil filters	
1000 hours →	4000 hours
• Extension of interval for inspection and adjustment of valve clearance	
2000 hours →	4000 hours
• Extension of interval to replace coolant	
4000 hours →	6000 hours*
* When conducting Komatsu Oil and Wear Analysis (KOWA)	
• Extension of interval for cleaning of KDPF	
4500 hours →	8000 hours
* DPF cleaning interval when using the ultra low ash oil: 16000 hours	
• Extension of interval to replace KCCV filters	
2000 hours →	not necessary

Light-weight plastic wheel chock New

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



Supporting safety during maintenance Upgrade

- **Disconnect switch Upgrade**
To improve safety during maintenance, the battery disconnect switch capable of cutting off the electricity and the starter disconnect switch capable of preventing unintentional engine start (Optional) can be controlled from the ground without tools.
- **Battery jumpstart New**
The engine can be started by connecting the connector to another battery when the battery runs out (DC24 V input).

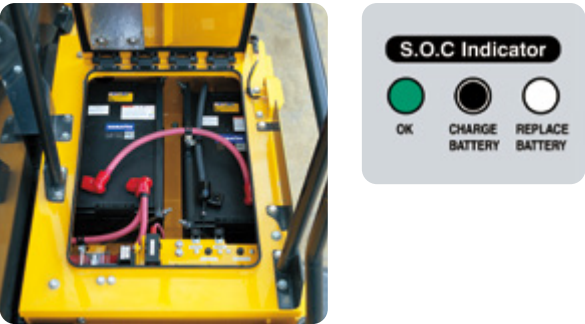


- **Delayed engine shutdown New**
The engine continues to run to cool down when the engine and post-process devices are at high temperature after the starting switch is turned off. Once the temperature lowers, the engine automatically stops and the main power is also turned off.

- **Auto power off New**
Auto power off is a function that automatically turns off the system to prevent a flat 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.

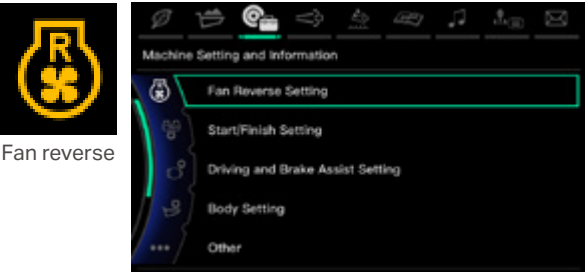
Maintenance-free battery

Maintenance-free batteries save maintenance time. Operator checks the indicator simply to confirm the battery condition. (OK / Charge / Replace)



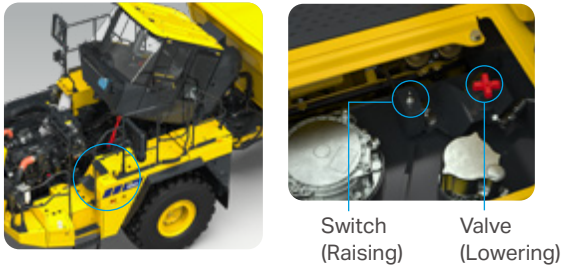
Hydraulic driving fan & electric fan Upgrade

It is equipped with a function to blow out dust stuck in the core by rotating the fan in reverse, reducing the effort required for cleaning. It can be operated easily on the monitor.



Power cab tilt

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

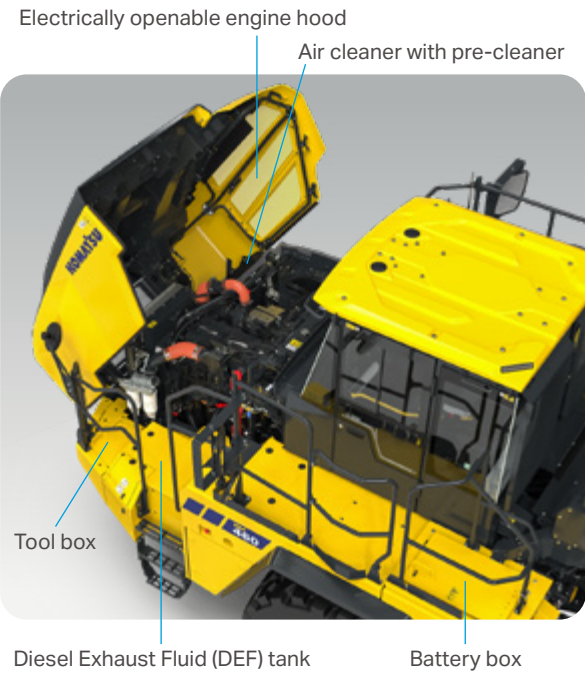


Improved access to rear glass Upgrade

The cab guard that can be opened and closed by a single touch without tools is adopted. Cleaning and wiper blade replacement have become easier.



Maintenance



Powered tiltable engine hood New

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 safely operate the switch from the ground.

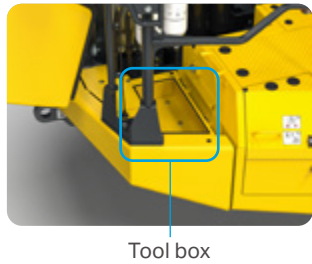
DEF tank

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.



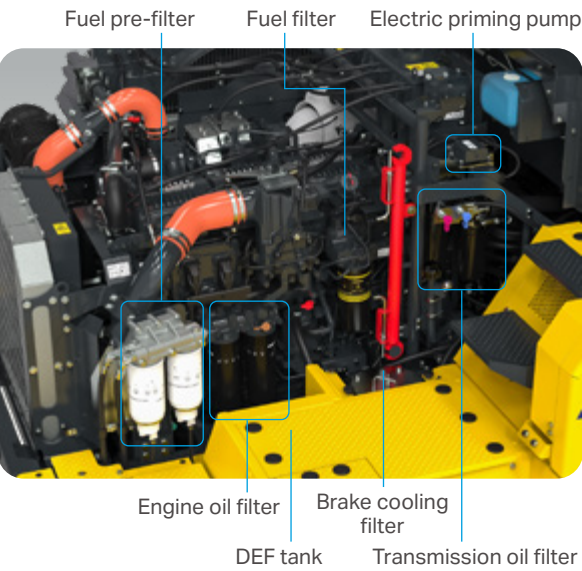
Air cleaner with pre-cleaner Upgrade

Equipped with the pre-cleaner as a standard and the element life has improved by 1.7 times of HM400-5. Also, the cleanability and exchangeability are improved by the handle set on the air cleaner element.



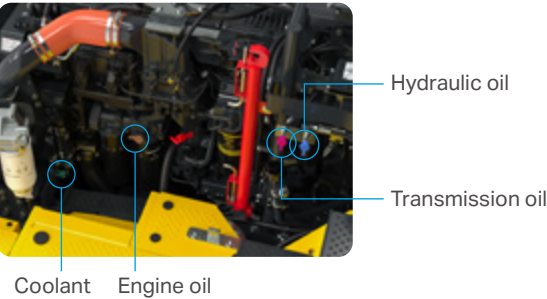
Easy filter replacement Upgrade

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

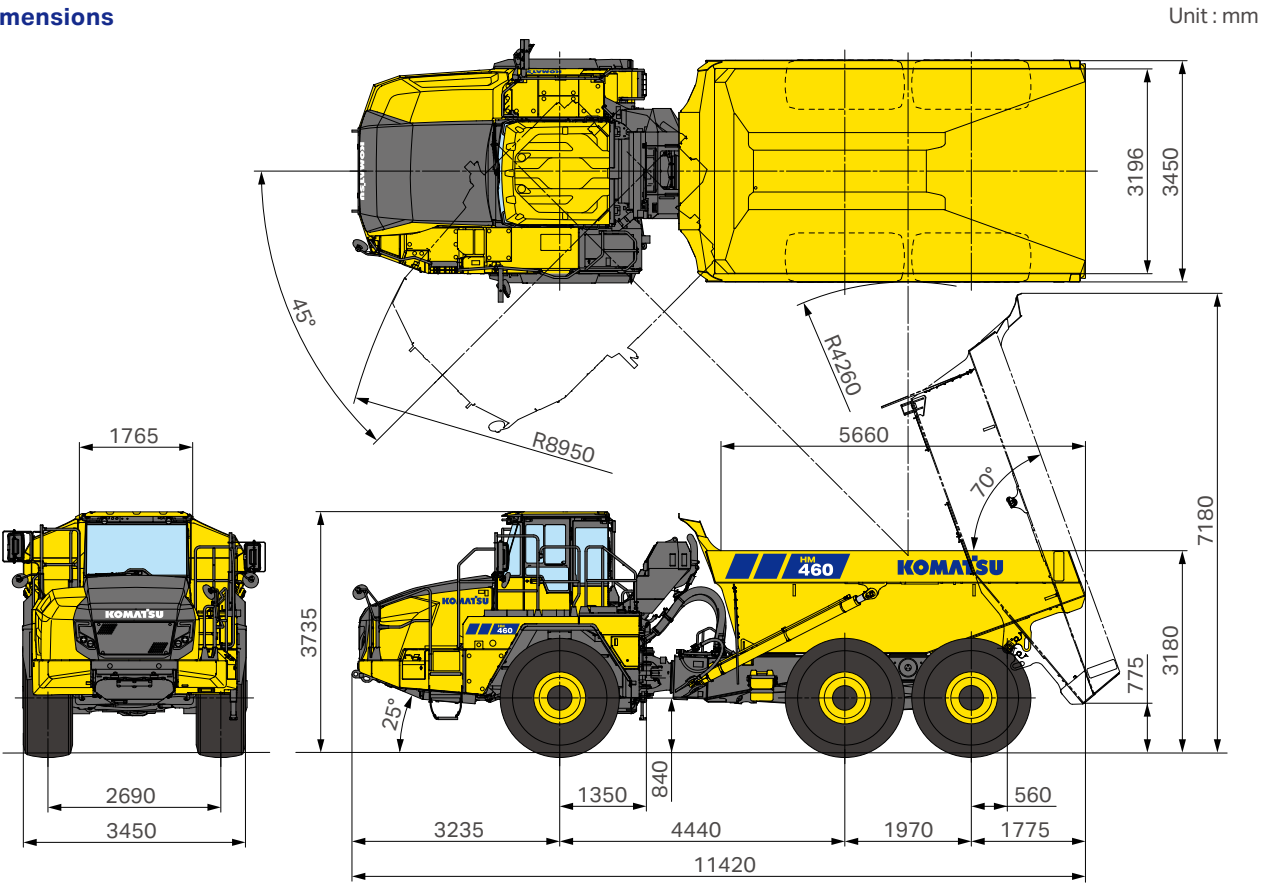


Easy oil sampling New

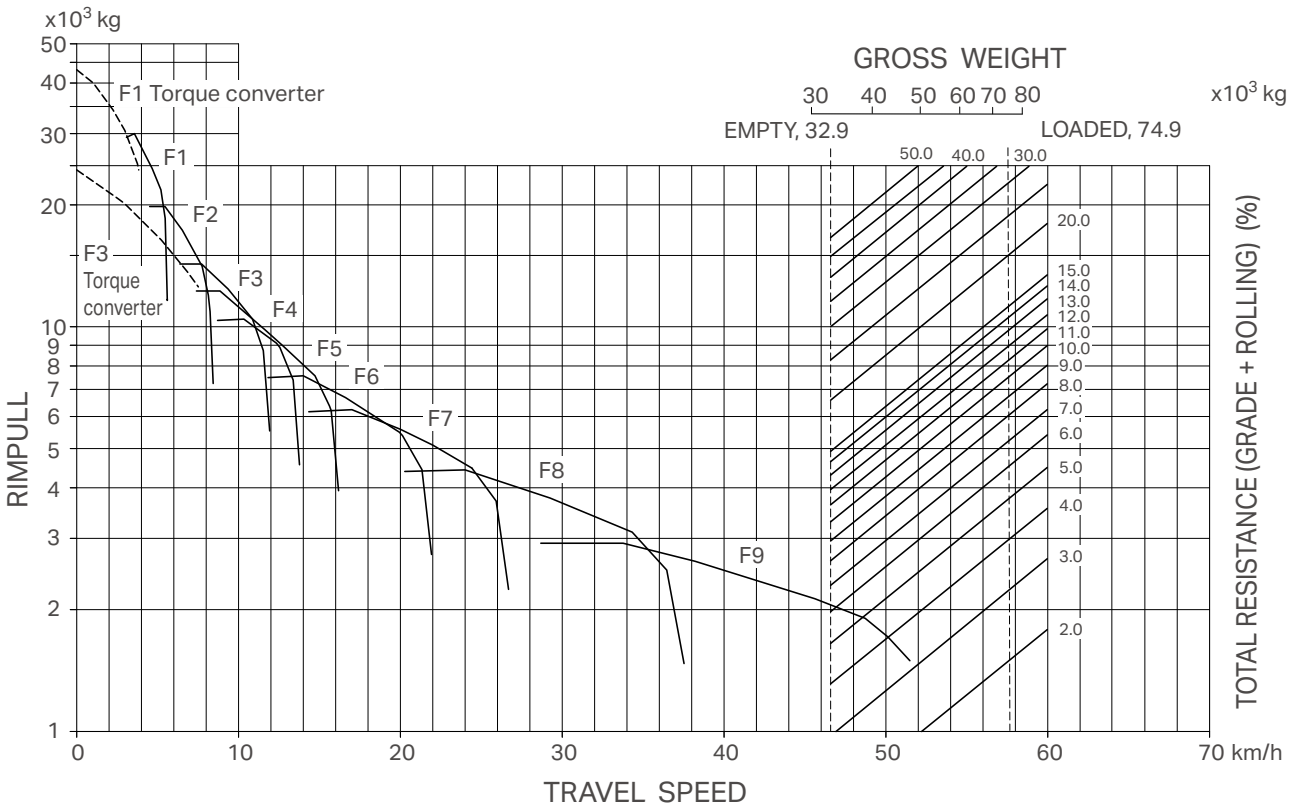
The sampling ports for oil and coolant are equipped as standards. All ports are collectively placed around the left side of the engine.



Dimensions



Travel performance (P-mode)



Retarding guidelines



Gear speed	Continuous downhill gradient[%]	600 m downhill gradient[%]	Speed [km/h]
F1	34 ~ 54	35 ~ 57	6
F2	23 ~ 34	25 ~ 36	9
F3	20 ~ 23	21 ~ 25	13
F4	17 ~ 20	18 ~ 22	15
F5	13 ~ 17	14 ~ 19	17
F6	11 ~ 13	12 ~ 15	23
F7	8 ~ 11	9 ~ 12	28
F8	6 ~ 8	7 ~ 10	40
F9	0 ~ 6	0 ~ 8	56

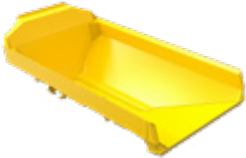
* Max. loaded machine : 74900 kg, Tire size : 29.5 R25
* Actual grade, not including rolling resistance.
* Depending on the road resistance, the change in weight or ambient temperature because of the load, the speed limit is changed.

Body selection

The HM460-6 has multiple body types to choose from, with optional equipment tailored to the user’s load conditions available for each body. A no-heating model is also available for all body types.

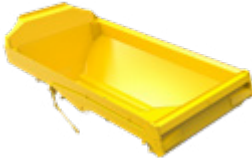
Standard body

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



Standard body + tailgate

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



Bottom plate	t14 / HB450-grade, wear-resistant steel	—
Front plate	t7 / HB450-grade, wear-resistant steel	—
Side plate	t11 / HB450-grade, wear-resistant steel	—
Protector	t7 / HB450-grade, wear-resistant steel	—
Body capacity	25.7 m³	26.8 m³



Specifications

Engine

Model	Komatsu DBA127
Type	Water-cooled, 4-cycle
Aspiration	Turbocharged, aftercooled
Number of cylinders	6
Bore x stroke	130 mm x 160 mm
Piston displacement	12.74 L
Governor	All-speed, electronic
Horsepower	
SAE J1995	Gross 386 kW 517 HP
ISO 14396	386 kW 517 HP
ISO 9249 / SAE J1349*	Net 385 kW 516 HP
Rated rpm	1700 min ⁻¹
Maximum torque	2803 N·m 286 kgf·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 360 kW (483 HP). 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	53.5 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	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	18.9 m³
Heaped (2:1, SAE)	25.7 m³
With tailgate	23.8 m³
Payload	42.0 metric tons
Material	HB450 wear-resistant steel plate
Material thickness	
Bottom	14 mm
Front	7 mm
Sides	11 mm
Target area	
(Inside length x width)	5767 mm x 3194 mm
Heating	Exhaust heating (Optional)

Hydraulic system

Hoist cylinder	Twin, telescopic type
Relief pressure	28.4 MPa 290 kgf / cm²
Hoist time	12 sec

Weight

Empty weight	32900 kg
Gross vehicle weight	74900 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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Service refill capacities

Fuel tank	473.0 L
DEF tank	84.4 L
Engine oil	49.0 L
Torque converter, transmission and retarder cooling	89.4 L
Differentials (Total)	116.2 L
Final drives (Total)	35.8 L
Hydraulic system	138.8 L
Suspension (Total)	21.4 L
Cooling system	88.0 L

Standard and optional equipment

Engine	
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	●
SCR	●
Starting motor, 11.0 kW	●

Function and 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	●
PLM	●
Reinforced Hoist Cylinder for KAL	●
Semi-auto dumping	●
Skip shift function	●
Waiting brake	●

Cab	
10-inch sub monitor	●
2 x 12 V power supply socket and USB port power charging	●
3 position hoist control system	●
8-inch 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	●
Operator seat, reclining, air suspension type with 4-point retractable seat belt (2-inch width)	○
Sun visor, side and rear	○

Guard 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	●

Safety equipment	
Alarm, backup	●
Lockable Battery Isolation Switch	●
Coolant temperature alarm and lamp	●
Dimpled slip-resistant plates	●
Emergency engine stop switch, ground level and in cab	●
Engine shutdown secondary switch	●
Fully hydraulic controlled wet multiple-disc brakes and retarder system	●
Guard rails	●
Horn, electric	●
Lockable Starter Motor Isolation Switch	●
Neutral coast inhibitor	●
Overload prevention, only alarm	●
Parking brake	●
Protective grille for rear window	●
Rear view mirrors with heater	●
Komvision camera system	●
Rollover prevention system	●
Secondary brake	●
Secondary engine shutdown switch	●
Secondary steering	●
Steering joint locking assembly	●
Step (Right side) and ladder (Left side)	●
Tying-down	●
Under view mirrors	●
Overload prevention, alarm + speed limit	○
Seat belt reminder, green beacon	○
Speed limiter	○

Body	
Body (25.7 m³ ,42 ton payload)	●
Safety pin	●
Tie off	●
Body tail gate	●
Exhaust heating	○

Tires	
29.5 R25	●

Other	
Auto power off	●
Battery Jump Start Receptacle	●
Brake cooling oil capture tank	●
Delayed engine shutdown	●
Fuel Fast Fill Coupling	●
ECO gauge	●
ECO guidance	●
Electric circuit breakers, 24 V	●
Electric priming fuel pump	●
Hydraulic driving fan & electric fan	●
KOWA ports	●
Komtrax	●
Light- weight wheel chocks	●
Machine inclination monitoring	●
Necessary tool kit	●
PM clinic service connectors	●
Power cab tilt	●
Powered tiltable engine hood	●
Tool box	●
Gas charge tool	○
General tool kit	○
Spare parts for first service	○

Further equipment on request
● Standard equipment
○ Optional equipment

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