

KOMATSU®

HD605-8

Tier 4 Final Engine

OFF-HIGHWAY TRUCK

HD605



Photos may include optional equipment.

HORSEPOWER

Gross: 775 HP 578 kW
Net: 724 HP 540 kW

NOMINAL PAYLOAD

69.4 US tons 63.0 metric tons

BODY CAPACITY

Heaped (SAE 2:1): 52.3 yd³ 40.0 m³

WALK-AROUND

PRODUCTIVITY FEATURES

- High performance Komatsu SAA6D170E-7 engine with increased horsepower (724 HP/540 kW)
- Variable Geometry Turbocharger (VGT) is hydraulically actuated to provide optimum air flow under all speed and load conditions
- Komatsu Diesel Particulate Filter (KDPF) reduces particulate matter while providing automatic regeneration that does not interfere with daily operation
- No use of Selective Catalytic Reduction (SCR) or Diesel Exhaust Fluid (DEF)
- Seven-speed, fully automatic K-ATOMiCS transmission with skip shift function
- Automatic Retard Speed Control (ARSC)
- Rear oil cooled, multiple-disc brakes provide high retarding capability (802 kW **1,075 HP**)
- Tight turning radius: 8.7 m **28' 7"**



Photos may include optional equipment.

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PRODUCTIVITY AND FUEL ECONOMY

Komatsu Traction Control System (KTCS) monitors for wheel spin and automatically applies independent brake assemblies for optimum traction in all ground conditions to improve productivity.

Komatsu's latest "on demand" energy saving technologies automatically adjust engine torque and hydraulic output according to demand, for smooth operation and improved fuel efficiency.

OPERATOR ENVIRONMENT

- Air suspension, heated, ventilated seat
- Angled front stairways with handrails for easy access
- Automatic climate control system
- Ergonomically designed, spacious cab with excellent visibility
- Heated rearview mirrors
- Hydro-pneumatic suspension for a smooth ride
- Machine monitor with high resolution, seven-inch color Liquid Crystal Display (LCD) unit
- Rearview monitor system
- Three-point seat belt is standard
- Two 12 volt power outlets
- Viscous cab mounts for a quiet, comfortable ride

ECOLOGY AND FUEL EFFICIENCY

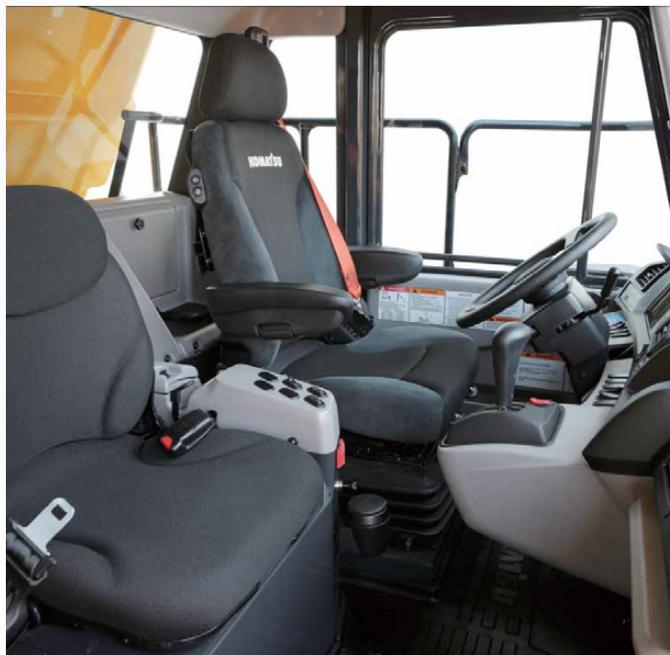
- Energy saving operation thanks to ecology guidance
- Fuel consumption reduced up to seven percent compared to the HD605-7E0
- Komatsu auto idle shutdown helps reduce idle time and operating costs
- Komatsu SAA6D170E-7 engine is EPA Tier 4 Final emissions certified

RELIABILITY FEATURES

- 10-5-10 payload policy
- High rigidity frame
- Integrated Payload Meter (PLM)
- Komatsu designed and manufactured components
- Robust dump body design
- Supplementary steering, automatic
- Secondary hydraulic brakes

MAINTENANCE FEATURES

- Advanced monitoring system with onboard diagnostics, no laptop required
- Centralized, ground level, arrangement of filters and greasing points
- Engine compartment light
- Fast fuel fill coupler
- Hydraulically operated, reversible cooling fan
- KOMTRAX PLUS® allows remote access to maintenance and performance information
- Modular radiator core system
- Battery Disconnect Switch with lock out/tag out allows a technician to disconnect the power supply and prevent machine start up before servicing the machine
- Service technician restraint harness tie off points on the Cab and bed body (ISO 14567) to help make maintenance service more efficient

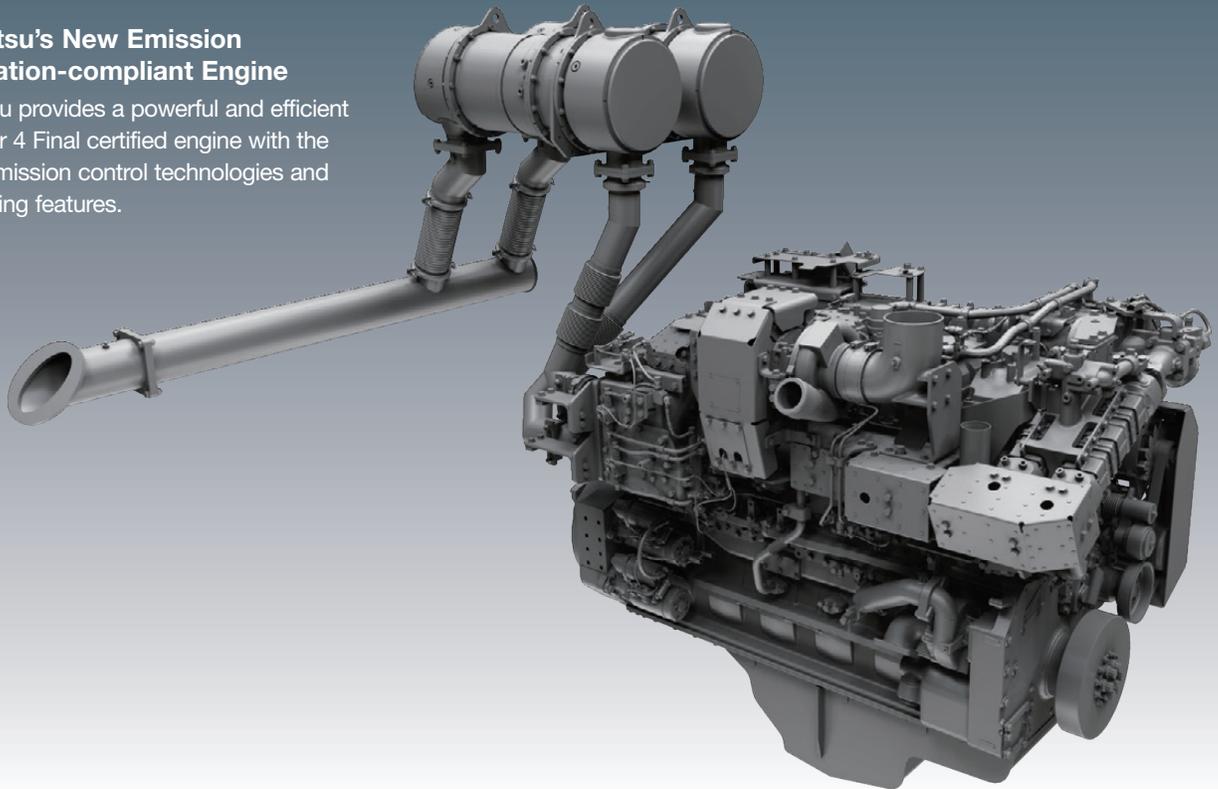


ECOLOGY & ECONOMY FEATURES

NEW ENGINE TECHNOLOGIES

Komatsu's New Emission Regulation-compliant Engine

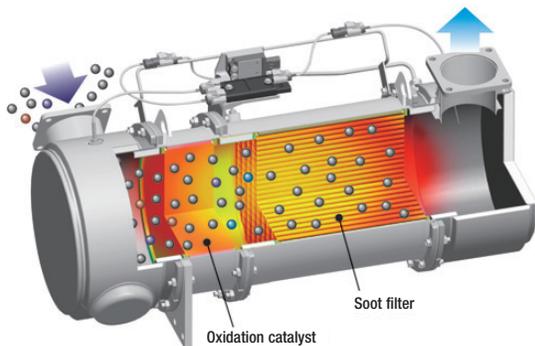
Komatsu provides a powerful and efficient EPA Tier 4 Final certified engine with the latest emission control technologies and fuel saving features.



HD605-8

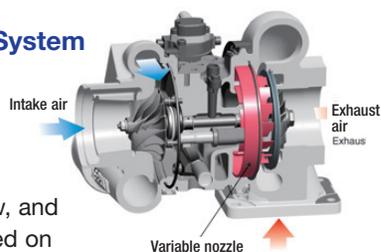
Heavy-Duty Aftertreatment System

The Komatsu Diesel Particulate Filters (KDPFs) capture more than 90% of Particulate Matter (PM). The KDPFs include a special oxidation catalyst to facilitate decomposition of most PM without operator action and no need to interrupt normal operation.



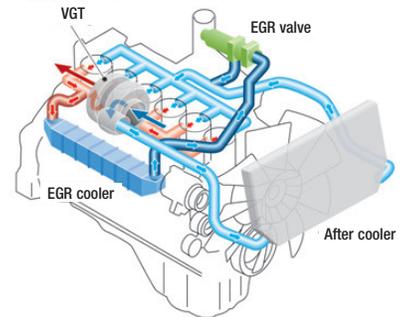
Variable Geometry Turbocharger (VGT) System

The VGT system uses proven, Komatsu-designed hydraulic technology for variable control of airflow, and supplies optimal air based on load conditions.



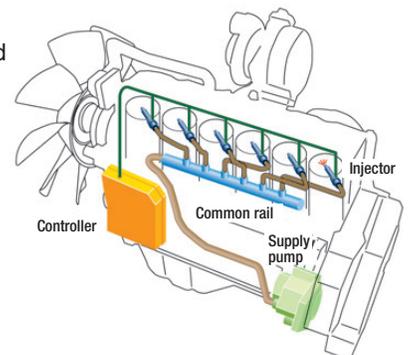
Heavy-Duty Cooled Exhaust Gas Recirculation (EGR) System

The system recirculates a portion of exhaust gas into the air intake and lowers combustion temperatures. The system dramatically reduces NOx and lowers fuel consumption.



High Pressure Common Rail (HPCR) Fuel Injection System

The system is designed to achieve an optimal injection of high-pressure fuel via computerized control, providing near-complete combustion to reduce PM emissions.

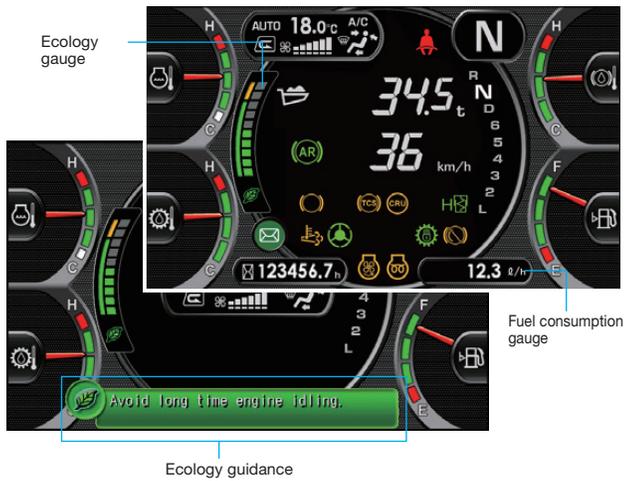


Energy Saving Operation

To support optimum operation, an easy-to-read ecology gauge is included at the LCD unit of the machine monitor. The ecology gauge indicates a momentary fuel consumption rate during operation. Operating the vehicle with the gauge in the green zone ensures the most energy efficient operation.

The monitor provides ecology guidance to the operator to help promote energy saving operation.

For example, if the operator stops the machine for a long period of time with the engine idling, the monitor will display the message “Avoid long time engine idling”.



Low Fuel Consumption

The latest Komatsu "on demand" energy saving technologies achieve lower fuel consumption, while keeping high productivity.

- New variable displacement piston pumps for the steering & hoist circuits
- Improved transmission control hydraulic pressure management

Auto Idle Shutdown

When the engine is idling for a certain time (settings from five to 60 minutes), the engine automatically stops to reduce unnecessary fuel consumption and exhaust emissions.



PERFORMANCE FEATURES

High Performance Komatsu SAA6D170E-7 Engine

The powerful and fuel-efficient Komatsu SAA6D170E-7 engine delivers **775 HP** 578 kW at 2000 rpm, approximately 5% more than the previous model. This assures better acceleration and shorter cycle time for improved productivity. Power train components are redesigned to accommodate the increased power.



Long Wheelbase and Wide Tread

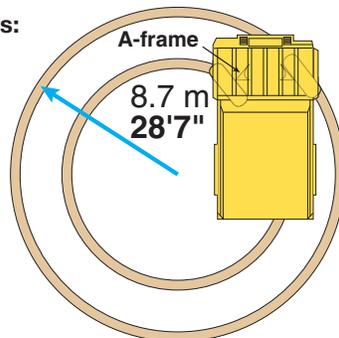
With an extra-long wheelbase, a wide tread and an exceptionally low center of gravity, the HD605-8 hauls the load at higher speed for greater productivity, and delivers superior driving comfort over rough terrain.

Small Turning Radius

The McPherson strut type front suspension has a special A-arm between each wheel and the main frame. The wider space created between the front wheels and the main frame increases the turning angle of the wheels. The larger turning angle correlates to a smaller turning radius.

Minimum Turning Radius:

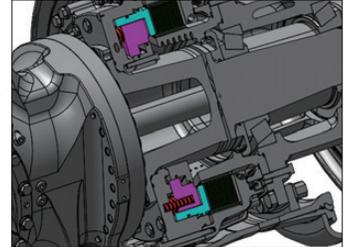
28'7" 8.7 m



Fully Hydraulic Controlled Rear Oil Cooled Multiple-Disc Brakes and Retarder

Rear oil cooled multiple-disc brakes ensure highly reliable and stable brake performance. The large-capacity, continuously-oil-cooled, multiple-disc brakes also function as a highly responsive retarder, which gives the operator greater confidence at higher downhill speeds.

Retarder Absorbing Capacity: 1,075 HP 802 kW



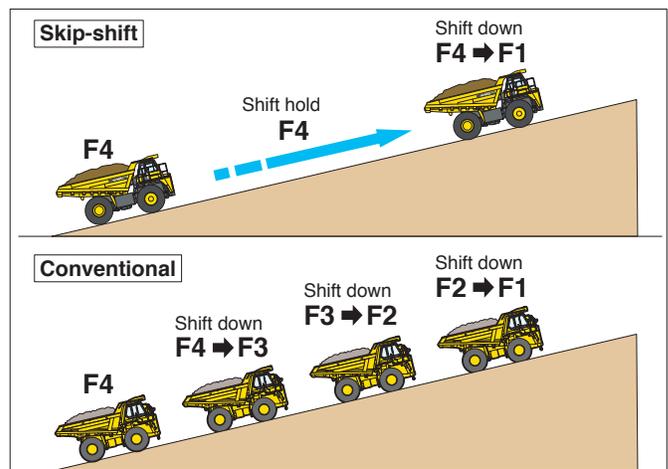
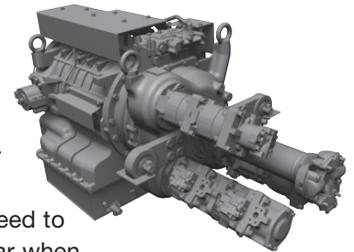
Komatsu Advanced Transmission with Optimum Modulation Control System (K-ATOMiCS) with Skip Shift Function

Fully automatic control selects the optimum gear, according to vehicle speed and the engine speed. The shift point automatically changes, depending on the acceleration of the vehicle. This avoids unnecessary fuel consumption.



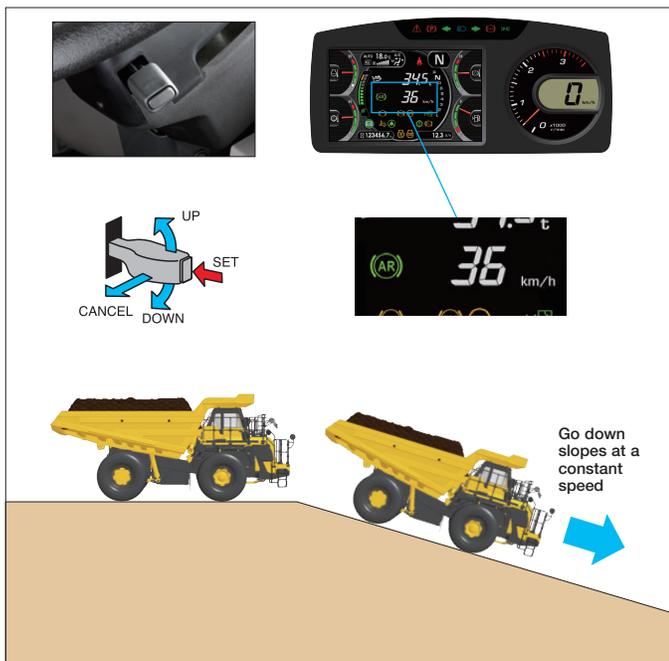
Skip shift function:

Automatically selects a gear position, depending on the grade. This eliminates the need to shift down through each gear when travelling uphill. It also reduces the number of downshifts, makes the driving smoother, improves the operator's comfort and reduces material spillage.



Automatic Retard Speed Control (ARSC)

ARSC allows the operator to simply set the downhill travel speed at a constant speed. This allows the operator to concentrate on steering. The speed can be set at increments of **0.6 mph** 1km/h per click (+/- **3.1 mph** 5 km/h of maximum speed adjustment) to match the optimum speed for the slope. The retarder cooling oil is continuously monitored and the travel speed is automatically lowered if the oil temperature increases to a set limit.



Automatic Idling Setting System

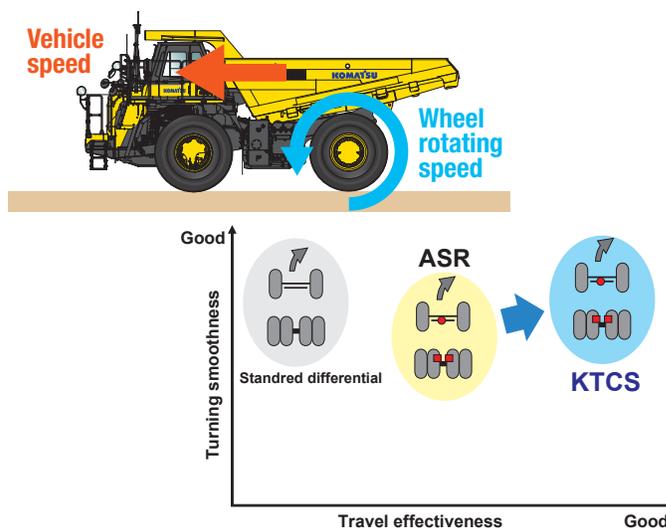
This system facilitates quick engine warm-up and operator cab cooling/warming. When turning the system ON, engine idle speed is kept at 1100 rpm, but is lowered to 750 rpm when the coolant temperature rises. Speed automatically returns to 1100 rpm when the coolant temperature drops.



Komatsu Traction Control System (KTCS)

New KTCS ensures optimum traction in soft or wet road conditions. The system monitors for wheel slippage at the rear axle, and an acceleration sensor allows determination of a high speed turn versus slippage.

If slippage is detected, the brakes are applied independently to each wheel set for optimum traction. This function occurs automatically without operator input and steering performance is not compromised, as with a differential lock system.



OPERATOR COMFORT



HD605-8

Ergonomically Designed Cab

The ergonomically designed operator's compartment provides the operator a convenient control layout and comfortable environment for more confident operation and greater productivity.



Automatic Climate Control System

The automatic climate control system allows the operator to easily set and maintain a desired cab ambient temperature. Excellent heating/cooling capacity and air flow keep the cab environment comfortable throughout the year.



Radio with AUX Terminal

By connecting an auxiliary sound device to the input jack, the operator can listen to the sound through the speakers in the cab.



Storage Spaces

Generous storage spaces are provided inside the cab. **Glove box, lunch box tray, hot or cool box, and cup holder**



Lunch box tray



Hot or cool box, cup holder

Air Suspension Seat

The heated and ventilated, air suspension, fabric-covered seat is adjustable to the operator's weight, and is provided as standard. The air suspension seat dampens vibrations transmitted from the machine to reduce operator fatigue. A three-point operator seat belt is standard.

Foldable Trainer Seat

The foldable trainer seat includes a two-point, retractable seat belt. Seat comfort has been significantly improved.



Tilt-Away Steering Column

The tilt steering column and telescopic steering wheel allow the operator to set the steering wheel to the desired position. The tilt mechanism incorporates a spring-assist for easy adjustment.



Low Noise Design

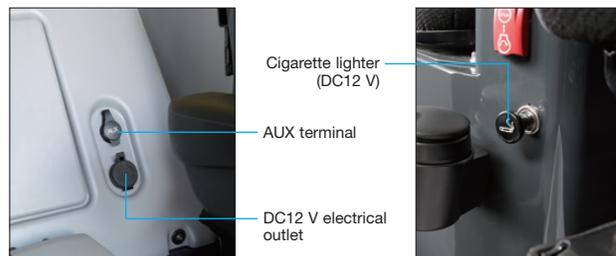
The spacious cab is mounted with large-capacity viscous mounts. The low-noise engine, hydraulically-driven fan and cab sealing provide a quiet, low-vibration and comfortable operating environment.

Noise Level at Operator's Ear:
77 dB(A) (ISO 6396)



DC12 V Outlet

Two DC12 V outlets are standard in the operator's cab. A 12 V cigarette lighter is located on the front side of the center console, and an additional 12 V outlet is located on the rear cover, behind the operator seat.



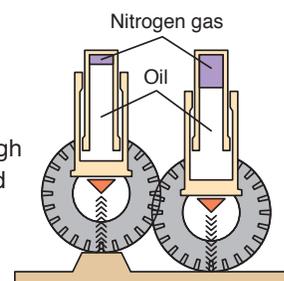
Electronic Hoist Control

The hoist control lever has a short throw and can be operated with light effort. A "kick-out function" eliminates the need to hold the lever in the raise position. Body seating shock is significantly reduced by the use of a positioning sensor that reduces the lowering speed just before the body seats on the mainframe.



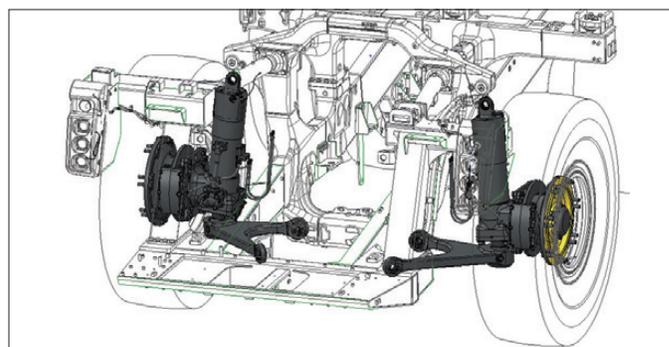
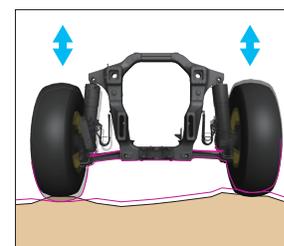
Rear Hydropneumatic Suspension

The hydropneumatic suspension provides a smoother ride over rough terrain to maximize production and operator comfort.



McPherson Strut Type Front Suspension

McPherson strut type independent suspension is used on the front wheels. The linkage arrangement is a low friction design that allows the front wheels to follow uneven road surface smoothly for a comfortable ride.



GENERAL FEATURES



HD605-8

Rearview Monitor System

The operator can view behind the vehicle on the full color monitor, located on the right side of the dashboard. This monitor can be always ON, or only when the shift lever is in the reverse position. Visual distance guidelines can be added for the operator's convenience.



Rearview monitor



Rearview camera

Convenient Access

Inclined stairs with handrails provide easy access to the cab and service deck.

Dimpled Slip-Resistant Plates

Stairways and walkways are made with dimpled, slip-resistant plates for better traction.



Dimpled slip-resistant plates

Built-In ROPS/FOPS Cab

The operator cab structure conforms to the ISO 3471 ROPS standard, and ISO 3449 FOPS Level II standard.



Secondary Engine Shutdown Switch

A secondary engine shutdown switch is located in the cab for emergency use.



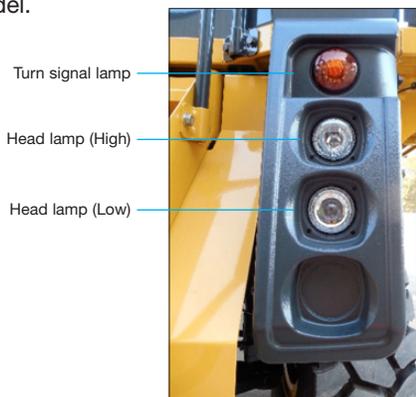
LED Rear Combination Lamps

LED lamps are standard for the rear combination lamps. The LED lamps feature long service life and excellent visibility.



Round Halogen Head Lamps

Round-shaped halogen lamps are used for the head lamps to provide increased lighting, compared to the previous truck model.



Secondary Steering

The secondary steering system is automatically activated if the steering circuit hydraulic pressure lowers due to a hydraulic system failure. This can also be activated manually by the secondary steering switch in the cab. The pilot lamp on the LCD monitor tells the operator that the system is operable when turning the key switch on.



Secondary Brake

Secondary brakes are a standard feature. When the secondary brake pedal is depressed, a redundant hydraulic circuit applies the front brakes and the rear parking brakes.



Protection Functions Supported by Electronic Control

Item	Function
Downshift inhibitor	Even if the driver downshifts accidentally, the transmission gear is maintained until the vehicle speed becomes appropriate to the selected gear for preventing over-runs.
Over-run inhibitor	When descending grades, if the vehicle's speed surpasses the maximum speed for the current gear, the rear brakes are automatically activated, preventing over-runs.
Reverse inhibitor	The vehicle is prevented from shifting to reverse gear when operating the body.
Forward/Reverse shift inhibitor	This device makes it impossible to select a change in travel direction when the vehicle's speed exceeds 4 km/h.
Anti-hunting system	When running near the shift point, smooth travel is maintained by preventing unnecessary shifts up or down.
Neutral start interlock	The engine is prevented from starting when the shift lever is not in neutral.
Neutral coast inhibitor	It prevents the gear position from shifting to neutral while traveling over a certain speed, even if the shift lever is moved to the neutral position.

TECHNOLOGY

MACHINE MONITOR WITH LARGE HIGH RESOLUTION LCD UNIT

Machine Monitor

The machine monitor displays machine information and provides access to machine settings.

Switch panel

The switch panel is used to select various LCD screens and the air conditioner control screen. By using the switch panel, you can display user menus on the LCD screen and access machine settings and lighting conditions. A keypad provides simple and easy navigation to machine operation information.

Large Multi-Lingual LCD Monitor

A large, user-friendly color monitor provides excellent screen visibility via a TFT liquid crystal display that is easily read at various angles and lighting conditions. A keypad provides simple and easy navigation to machine operation information.



Machine Monitor

- | | |
|--|----------------------------------|
| 1 Engine coolant temperature gauge | 7 Shift indicator |
| 2 Torque converter oil temperature gauge | 8 Retarder oil temperature gauge |
| 3 A/C display | 9 Fuel gauge |
| 4 Ecology gauge | 10 LED indicator |
| 5 Payload / clock | 11 Speedometer |
| 6 ARSC set travel speed | 12 Engine tachometer |

Switch Panel

- | |
|---|
| 1 Air conditioner (A/C) switches / Numeral keypad |
| 2 Function switches |

Maintenance Reminders

When the time remaining to the next scheduled maintenance is less than 30 hours*, the maintenance time monitor appears.

* The time can be set in the 10 to 200 hours range.



Maintenance screen

Troubleshooting Function

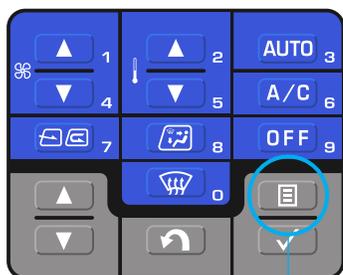
Various meters, gauges and warning functions are centrally arranged on the LCD unit. This unit facilitates the start-up inspection and promptly warns the operator with a lamp and a buzzer if any abnormality occurs. Each abnormal condition is indicated in one of four recommended action levels.



HD605-8

Visual User Menu

Pressing the menu switch on the switch panel displays the user menu screen. The menus are grouped by their functions. Easy-to-understand icons enable intuitive use.

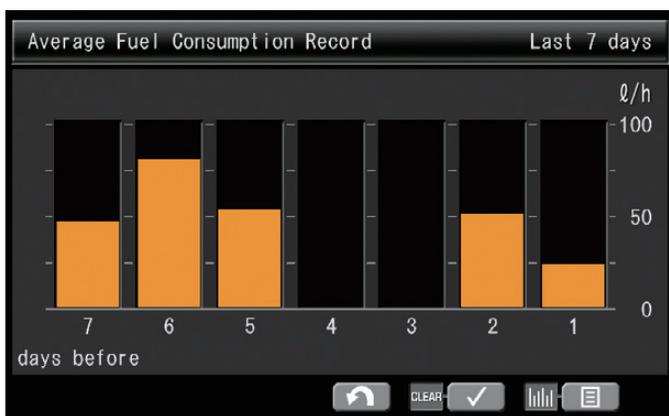


Menu switch



1 Energy saving guidance

- Operation records
- Ecology guidance records
- Average fuel consumption record
- Configurations



2 Machine setting / information

- Radiator fan reverse mode
- KTCS setting etc.



3 Aftertreatment regeneration

- Setting regeneration disable
- Operation of manual stationary regeneration

4 Maintenance

- Check and reset of various maintenance intervals

Maintenance Item	Interval	Remain
Air Cleaner Cleaning or Change	—	—
Engine Oil Change	500 h	499 h
Engine Oil Filter Change	500 h	499 h
Fuel Prefilter Change	500 h	499 h
T/M Oil Filter Change	500 h	499 h

5 Monitor setting

- Language setting (27 languages)
- Rearview monitor setting
- Measurement unit setting
- Screen brightness adjustment etc.

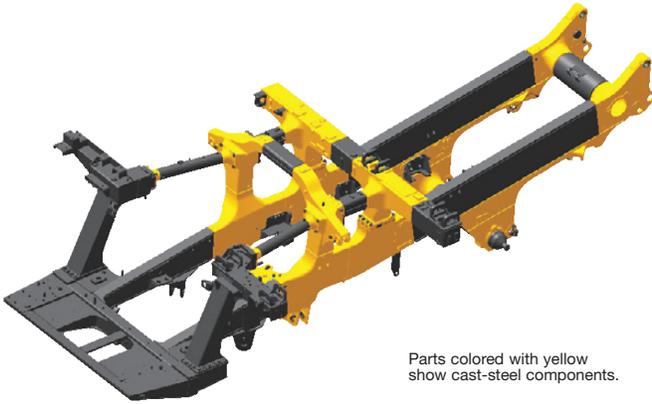


6 Mail check

RELIABILITY FEATURES

High-Rigidity Frame

Cast-steel components are used in critical areas of the main frame where loads and shocks are most concentrated.

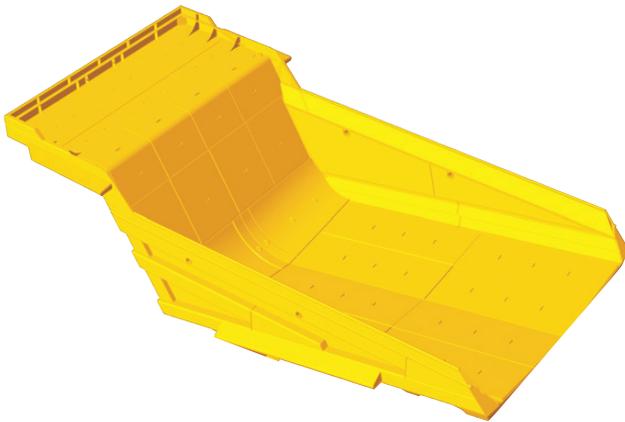


Parts colored with yellow show cast-steel components.

Robust Dump Body Design

Dump bodies are made of high-tensile-strength steel for excellent rigidity and low maintenance cost. Major portions of the interior surface are made of abrasion resistant, HB400 steel for excellent wear characteristics. The V-bottom design contributes to the structural strength and enhanced machine stability by centering the load at a lower center of balance. The side and 19 mm thick bottom plates of the dump body are reinforced with lateral and longitudinal bolsters.

Bodies are offered with or without a steel liner package with 19 mm thick floor liners.



Payload Policy

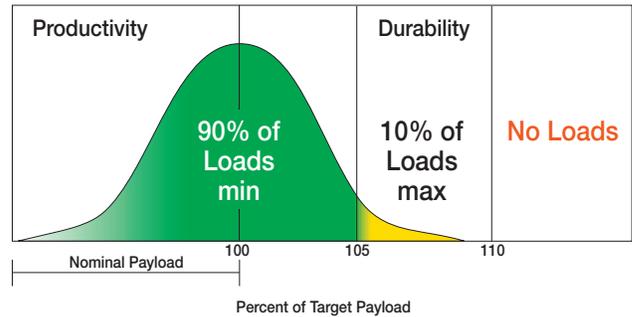
Purpose

Recognizing that variation occurs naturally in material density, fill factors, and loading equipment, Komatsu America Corp. deems it necessary to establish a consistent payload policy. This payload policy is intended to identify the guidelines and limitations for the loading of Komatsu mining trucks. Following this policy will provide the best combination of productivity and machine longevity.

Criteria

- 1) Monthly average payload must not exceed the target payload of the truck.
- 2) No less than 90% of all loads must be up to 105% of the target payload of the truck.
- 3) No more than 10% of all loads may be between 105% and 110% of the target payload of the truck.
- 4) Any single load must not exceed 110% of the target payload of the truck.

Target payload: Rated gross vehicle weight - Empty vehicle weight (Include all attached options)



Integrated Payload Meter (PLM)

PLM is a tool to manage the hauling cycle payloads and to analyze the production volume and working conditions of the dump truck for specific time periods. Loaded weight is shown on the payload display (on the LCD unit), and by the external display lamps in real time, while loading.



External display lamp



Payload display Loaded weight

MAINTENANCE FEATURES

Centralized Arrangement of Filters

The filters are conveniently grouped for easy service.



Electric Circuit Breaker

Circuit breakers are used for important electric circuits that need to be restored quickly if a problem occurs in the electrical system.



Centralized Greasing Points

Greasing points are centralized at three locations. Each of these locations is accessible from ground level.



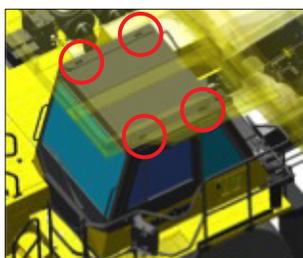
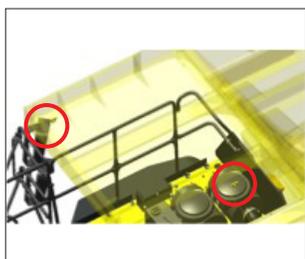
Electric Priming Pump

An electric engine priming pump is standard.



Tie Off Points Standard (ISO 14567)

When working in elevated positions on the cab or dump body, tie off points provide anchors for technicians harness lanyards.



Ground Accessible Battery Compartment

The battery compartment is located at ground level to facilitate daily checks and battery replacement.



Battery Disconnect Switch

A standard battery disconnect switch with lock out/tag out allows a technician to disconnect the power supply and lock out before servicing the machine.



Extended Oil Change Intervals

Long oil change intervals minimize operating cost.

- Engine oil 500 hours
- Hydraulic oil 4000 hours
- Transmission oil 1000 hours

Reversible Fan

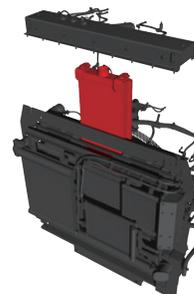
The radiator fan is hydraulically driven and reversible. The fan reverse mode can be controlled from the monitor.



Fan reverse indicator

Modular Radiator Core System

The radiator assembly consists of three cores, and each core can be independently replaced without removing the entire assembly.



Complimentary Scheduled Maintenance

- Complimentary scheduled engine maintenance for **3 years or 2,000 hours**, whichever comes first
- Service is performed by factory certified technicians using Komatsu Genuine parts and fluids
- Significantly reduce ownership costs and increase reliability and uptime
- Increase resale value with detailed maintenance records and transferable program benefits

Complimentary KDPF Exchange

- Covers exchange of both KDPF assemblies within the first five years at the suggested **exchange interval of 4,500 hours***
- Assurance of factory certified KDPF cleanings
- Reduced downtime from exchange

PM Interval	500	1000	1500	2000
PERFORM KOWA SAMPLING (6 samples) – engine, transmission, hydraulic, L & R final drive, rear differential	✓	✓	✓	✓
CLEAN AIR CLEANER ELEMENT	✓	✓	✓	✓
DRAIN WATER AND SEDIMENT FROM FUEL TANK	✓	✓	✓	✓
COMPLETE 50 POINT INSPECTION FORM; LEAVE PINK COPY WITH CUSTOMER OR IN CAB	✓	✓	✓	✓
RESET MONITOR PANEL MAINTENANCE COUNTER FOR APPROPRIATE ITEMS	✓	✓	✓	✓
CHANGE ENGINE OIL	✓	✓	✓	✓
REPLACE ENGINE OIL FILTER	✓	✓	✓	✓
REPLACE FUEL PRE-FILTER	✓	✓	✓	✓
REPLACE FUEL MAIN FILTER		✓		✓
REPLACE KCCV FILTER				✓
FACTORY TRAINED TECHNICIAN LABOR	✓	✓	✓	✓
2 KDPF Exchanges suggested at 4,500 Hrs				

* Certain exclusions and limitations apply. Refer to the customer certificate for complete program details and eligibility. Komatsu® and Komatsu Care® are registered trademarks of Komatsu Ltd. Copyright 2019 Komatsu America Corp.

Komatsu CARE® – Extended Coverage

- Extended Coverage can provide peace of mind by protecting customers from unplanned expenses that effect cash flow
- Purchasing extended coverage locks-in the cost of covered parts and labor for the coverage period and helps turn these into fixed costs



Komatsu Parts Support

- 24/7/365 to fulfill your parts needs
- 9 parts Distribution Centers strategically located across the U.S. and Canada
- Distributor network of more than 300 locations across U.S. and Canada to serve you
- Online part ordering through Komatsu eParts
- Remanufactured components with same-as-new warranties at a significant cost reduction



Komatsu Oil and Wear Analysis (KOWA)

- KOWA detects fuel dilution, coolant leaks, and measures wear metals
- Proactively maintain your equipment
- Maximize availability and performance
- Can identify potential problems before they lead to major repairs
- Reduce life cycle cost by extending component life

SPECIFICATIONS



ENGINE

Model.....Komatsu SAA6D170E-7*
 Type.....Water-cooled, four-cycle
 Aspiration.....Variable geometry, turbo-charged, air-to-air
 after-cooled, cooled Exhaust Gas Recirculation (EGR)
 Number of cylinders.....6
 Bore.....170 mm **6.69"**
 Stroke.....170 mm **6.69"**
 Piston displacement.....23.15 ltr **1,413 in³**
 Horsepower:
 SAE J1995.....Gross 578 kW **775 HP**
 ISO 9249 / SAE J1349.....Net 540 kW **724 HP**
 Rated rpm.....2000 rpm
 Fan drive type.....Hydraulic
 Maximum torque.....372 kg•m **2,688 ft lbs**
 Fuel system.....Direct injection
 Governor.....Electronically controlled
 Lubrication system:
 Method.....Gear pump, force-lubrication
 Filter.....Full-flow type
 Air cleaner.....Dry type with double elements and
 precleaner (cyclone pack type), and evacuator valve

*EPA Tier 4 Final emissions certified



TRANSMISSION

Torque converter.....Three-elements, one-stage, two-phase
 Transmission.....Full-automatic, planetary type
 Speed range.....Seven speeds forward and one reverse
 Lockup clutch.....Wet, multiple-disc clutch
 Forward.....Torque converter drive in 1st gear,
 direct drive in 1st lockup and all higher gears
 Reverse.....Torque converter drive
 Shift control.....Electronic shift control with automatic
 clutch modulation in all gears
 Maximum travel speed.....70.0 km/h **43.5 mph**



AXLES

Rear axle.....Full-floating
 Final drive type.....Planetary gear
 Ratios:
 Differential.....3.538
 Planetary.....4.737



SUSPENSION SYSTEM

Independent, hydro-pneumatic suspension cylinder with fixed
 throttle to dampen vibration
 Effective cylinder stroke (front suspension).....303 mm **11.9"**
 Rear axle oscillation:
 Oil stopper.....6.8°
 Mechanical stopper.....7.7°



STEERING SYSTEM

Type.....Fully hydraulic power steering
 with two double-acting cylinders
 Supplementary steering.....Manually controlled
 (meets ISO 5010)
 Minimum turning radius.....8.7 m **28' 7"**
 Maximum steering angle.....39°



CAB

Dimensions comply with ISO 3471
 ROPS (Roll-Over Protective Structure) standards.



BRAKES

Brakes meet ISO 3450 standards.
 Service brakes:
 Front.....Dry type, single disc type full hydraulic
 Rear.....Oil cooled, multiple disc type full hydraulic
 Parking brake... Oil cooled, multiple disc type, spring operated,
 hydraulic releasing type
 Retarder.....Oil cooled, multiple disc type full hydraulic
 Secondary brake.....Manual pedal operation
 when hydraulic pressure drops below the rated level,
 parking brake is automatically actuated



MAIN FRAME

Type.....Box-sectioned structure



BODY

Capacity:
 Struck.....29.0 m³ **37.9 yd³**
 Heaped (2:1 SAE).....40.0 m³ **52.3 yd³**
 Payload.....63.0 metric tons **69.4 U.S. tons**
 Material.....130 kg/mm² **184,900 psi**
 high tensile strength steel
 Material thickness:
 Bottom.....19 mm **0.75"**
 Front.....12 mm **0.47"**
 Sides.....9 mm **0.35"**
 Target area
 (inside length x width).. 6450 mm x 3870 mm **21' 2" x 12' 8"**
 Height at full dump.....8800 mm **28' 10"**
 Heating.....Exhaust heating



HYDRAULIC SYSTEM

Hoist cylinder.....Twin, two-stage telescopic type
 Relief pressure.....20.6 MPa 210 kg/cm² **2,990 psi**
 Hoist time.....11.5 sec



WEIGHT (APPROXIMATE)

Empty weight.....51620 kg **113,803 lbs**
 Nominal gross vehicle weight:
 Standard tire.....114700 kg **252,870 lbs**
 *Max. gross vehicle weight:
 Standard tire.....121,000 kg **266,759 lbs**
 Weight distribution:
 Empty: Front axle.....51%
 Rear axle.....49%
 Loaded: Front axle.....33%
 Rear axle.....67%

*When payloads are managed per Komatsu's 10-5-10 payload policy



TIRES

Standard tire.....24.00 R35



SERVICE REFILL CAPACITIES

Fuel tank.....800 ltr **211.3 U.S. gal**
 Engine oil.....80 ltr **21.1 U.S. gal**
 Torque converter, transmission and
 retarder cooling.....215 L **56.8 U.S. gal**
 Differential.....95 L **25.1 U.S. gal**
 Final drives (total).....42 L **11.1 U.S. gal**
 Hydraulic system.....149 L **39.4 U.S. gal**
 Suspension (total).....66.2 L **17.5 U.S. gal**



STANDARD EQUIPMENT FOR BASE MACHINE

ENGINE:

- Air cleaner, dry type, two stage (qty two)
- Automatic Idling Setting System (AISS)
- Auto Idle Shutdown
- Electric priming fuel pump
- Engine secondary stop switch
- Engine, Komatsu SAA6D170E-7, six cylinder, turbocharged, air/air after-cooled, EGR cooled, diesel; Gross HP (SAE J1995): 775HP (578kW) / 2000 RPM; Net HP (ISO 9249/SAE J1349): 724HP (540 kW) / 2000 RPM
- Fan, hydraulically driven, reversible
- Komatsu Diesel Particulate Filter (KDPF) (qty two)
- Starting aid, intake manifold pre-heater
- Variable geometry turbocharger

ELECTRICAL SYSTEM:

- Alternator, 90 ampere, 24 volt
- Back-up alarm
- Batteries, 4 x 12 volt 240 Ah, 910 CCA
- Battery disconnect switch with lock out – tag out
- Emergency stop switch, ground level
- Horn, electric
- Lights
 - Access ladder lamp
 - Back-up light, rear
 - Engine compartment light
 - Fog lights
 - Head lights, halogen (high and low beam)
 - Side working lights, LH and RH
 - Stop and tail lights (LED)
 - Turn signal, (two front, two rear) (LED) with hazard switch
- Starter isolator
- Starting motors, 2 x 7.5 kW direct electric 24V

POWER TRAIN AND CONTROLS:

- Seven-speed transmission, fully automatic with K-ATOMICS
- Komatsu Traction Control System (KTCS)
- Front brake, dry type, single disc type, full hydraulic
- Parking brake, oil cooled, multiple disc type, spring operated, hydraulic releasing type
- Rear brake, oil cooled, multiple disc type, full hydraulic
- Skip shift function

OPERATOR ENVIRONMENT:

- Cab, with built in ROPS/FOPS
 - 12 Volt outlet (qty two)
 - Automatic climate control system with cab pressurization
 - Auxiliary steering system
 - Beverage holder (qty two)
 - Body hoist control, electric
 - Cigarette lighter and ashtray
 - Dome light and reading light
 - Door, LH and RH
 - Lunch box tray and storage trays
 - Machine monitor with seven-inch color LCD display

- Operator seat, air suspension type, heated, ventilated, with three-point retractable seat belt (3" 75 mm wide lap belt and 2" 50 mm wide, high visibility shoulder belt)
- Power windows, LH and RH
- Radio, AM/FM with aux terminal
- Rearview mirror, outside cab mount, heated (LH & RH)
- Rearview monitoring system with dedicated monitor
- Steering wheel, tilt and telescopic
- Sun visor (qty two)
- Tinted glass (front, laminated glass)
- Trainer seat, folding, with two-point retractable seat belt (3" 75 mm wide)
- Wiper/washer, front, with intermittent setting

GUARD AND COVER GROUP:

- Catwalk with handrails
- Deck rail
- Driveline guards, front & rear
- Engine underguard
- Exhaust thermal guard
- Front handrail, over radiator
- Mudguards
- Transmission underguard

MONITORING SYSTEM, ELECTRONIC DISPLAY ITEMS:

- Instrument panel gauges
 - Coolant temperature
 - Hour meter (service meter)
 - Retarder oil temperature
 - Speedometer with odometer
 - Tachometer
 - Torque converter oil temperature
- Warning lights
 - Engine coolant temperature
 - Engine coolant level
 - Engine oil pressure
 - Parking brake
 - Retarder oil temperature
 - Torque converter oil temperature

OTHER:

- Anchor points, tie off type (ISO 14567)
- Angled front stairs with hand rails
- Automatic retarder speed control (ARSC)
- Centralized lube block
- Dump counter
- Ecology guidance and ecology gauge
- Fast-fill coupler for fuel tank
- Filler cap and cover locks
- Front brake cut-off system
- Hydropneumatic suspension (front & rear)
- KOMTRAX Plus® telematics package with integrated payload meter (PLM), satellite communication and WiFi
- Less body (must select body)
- Machine immobilization switch
- Mirror, rearview, underview
- PM service connectors
- Rock ejector bars
- Tie off points on cab and bed body (ISO 14567)
- Wheel chocks with storage brackets



OPTIONAL EQUIPMENT

BODY:

- Alternate exhaust configuration (RH side discharge)
- Body
- Body liner

TIRES (24.00 R35):

- Michelin XDTB
- Bridgestone VRLS
- Michelin X-Quarry
- Michelin X-Traction Super Terrain

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