KOMATSU

HD1500-8

Off-highway truck

Engine power
1180 kW / 1580 HP @ 1900 rpm

Rated payload
139 metric tons

Body capacity, heaped
78 m^3 / 94 m^3

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When you need a mechanical haul truck to help improve productivity and efficiency at your mine or quarry operation, the HD1500-8 is the solution. This vehicle features a high performance Komatsu SDA16V159E-3 engine, large capacity retarder, tight turning radius and Komatsu Traction Control System (KTCS) to help ensure higher levels of productivity.

Leverage Komatsu's reliability to help

improve the productivity and efficiency of your site operations

Ecology and economy features

- Komatsu EU Stage V engine
- Engine cooling fan clutch
- Energy saving operation
- Selectable operating modes

Performance features

- Komatsu Advanced Transmission with Optimum Modulation Control System (K-ATOMiCS) with skip shift function
- Automatic Retarder Speed Control (ARSC)
- High durable axle
- Komatsu Traction Control System (KTCS)

Reliability

- High-rigidity frame
- Robust dump body design
- 10-10-20 payload policy
- Engine pre-lubrication system
- Payload Meter (PLM)
- PLM scoreboard (optional)
- Road condition analysis

Operator environment

- Ergonomically designed cab
- Automatic climate control system
- Air suspension seat
- Low noise design
- Electronic hoist control
- Hydropneumatic suspension
- KomVision all around monitoring system on a dedicated display
- Built-in ROPS (ISO3471)/FOPS (ISO3449) cab
- LED headlamps (high and low beam), side lamps and rear combination lamps
- Rearview monitoring system on a dedicated display
- High resolution 7" color LCD display unit
- Diagonal stairway
- Secondary steering and brake

Maintenance

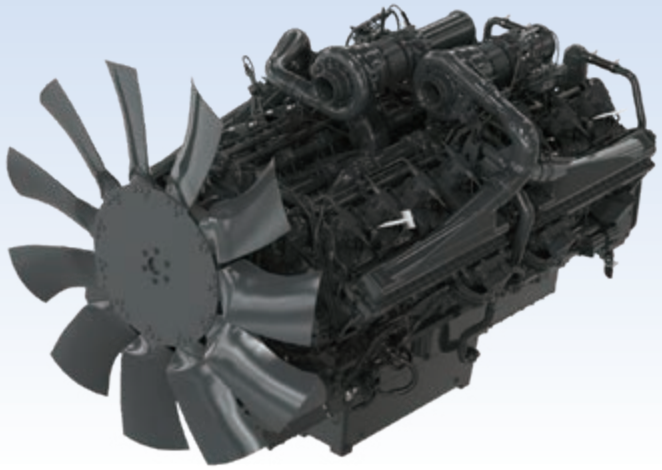
- Service center
- Fan drive with auto tensioner
- Automatic greasing system
- Easy radiator tube replacement
- Tie-off anchor points for maintenance

KOMATSU CARE™ A maintenance program for Komatsu customers

Ecology and economy features

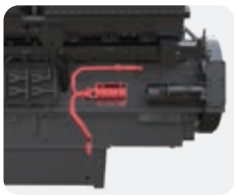
Power and efficiency

Get the latest emission control technologies with Komatsu's powerful and economical EU Stage V compliant engine, selective catalytic reduction (SCR), diesel exhaust fluid (DEF) and fuel saving features.



Engine Prelub* system

Avoid dry starts with a system that automatically and safely fills and filters all oil passages with oil prior to cranking every time you start the engine.
**Prelub is a trademark of Cummins Inc.*

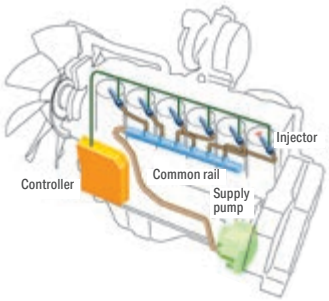


Ether start system

Get maximum cold weather starting assistance for frequent starting below -4°C with the ether start system.

High pressure common rail (HPCR) fuel injection system

Designed to deliver an optimal injection of high-pressure fuel by means of computerized control, this system achieves near complete combustion to reduce particulate matter (PM) emissions.



Low fuel consumption

Latest Komatsu on demand energy saving technologies achieve lower fuel consumption while keeping high productivity.

- Variable displacement piston pumps for steering and hoist circuit
- Improvements in management of hydraulic pressure for transmission control

Electronic control system

Ensure effective integration of your machine components with an electronic control system that performs high-speed processing of all signals from various sensors installed on the vehicle and the engine. Engine condition is displayed on the monitor inside the cab, providing necessary information to the operator. Additionally, managing the information via Komtrax Plus helps customers schedule and track required maintenance actions.

Engine cooling fan clutch

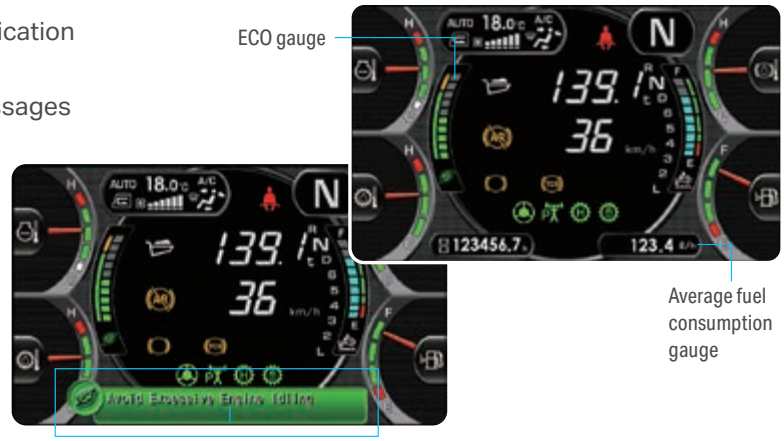
Help minimize fuel loss and prevent overcooling/overheating with an engine cooling fan that is driven by the fan clutch. It is fully engaged, half engaged or off depending on the coolant temperature and other factors.

Energy-saving operation

In order to support optimum operation, an easy-to-read ECO gauge is on the LCD unit of the machine monitor. The ECO gauge indicates a momentary fuel consumption rate during operation. Operate the vehicle within the green zone of the gauge to help ensure energy saving operation.

Fuel consumption rate depends on the application and the accelerator pedal operation.
In addition, the following ECO guidance messages are displayed for fuel saving operation:

- Avoid excessive engine idling
- Release the hoist lever
- Operating the accelerator pedal with brake actuated lowers fuel economy



Selectable operating modes

The operator can choose between two operating modes (economy or power) according to machine operating condition and/or course profile.

Power mode

Appropriate for higher production jobs and uphill hauling applications. The power mode increases the engine maximum output and raises the upshift and downshift engine speeds during operation.

Economy mode

Appropriate for lighter work on flat ground, the economy mode lowers the engine maximum output along with lowering the upshift and downshift engine speeds during operation.

Performance features

Long wheelbase and wide tread

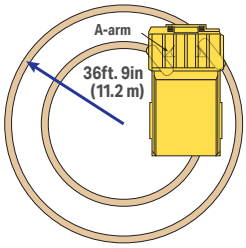
With an extra-long wheelbase, a wide tread and a low center of gravity, the HD1500-8 hauls the load at a higher speed to help boost productivity and deliver superior driving comfort over rough terrain.

Small turning radius

Maneuver around the mine with a MacPherson strut-type front suspension that 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 provides a smaller turning radius for the vehicle.

Minimum turning radius: 11.2 m.

The turning radius varies depending on ground conditions and/or vehicle speed.



Fully hydraulic controlled wet multiple-disc brakes and retarder

Help ensure highly reliable and stable brake performance with wet multiple-disc brakes on all four wheels. Large-capacity continuously oil cooled multiple-disc brakes on all four wheels also functions as a highly responsive retarder, which gives the operator a greater confidence at higher speeds when traveling downhill.

Retarder absorbing capacity: 1750 kW (2346 HP)*

*At ambient temperature 40°C (Retarder performance varies depending on ambient temperature.)

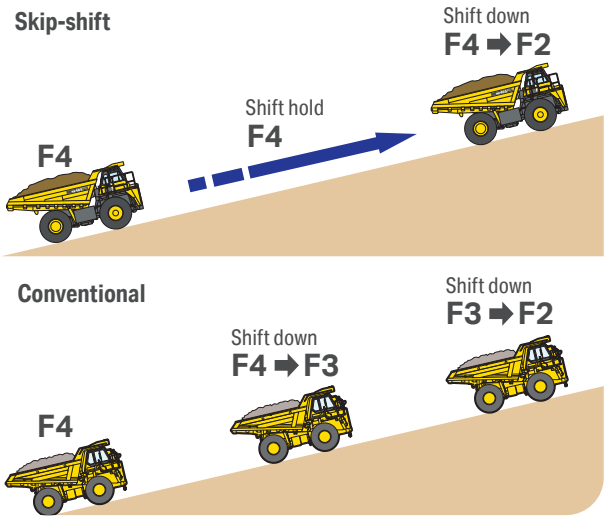
7-speed fully automatic transmission

Help minimize unnecessary fuel consumption with a shift point that automatically changes depending on the acceleration of the vehicle. The transmission is designed to have seven forward and one reverse shift. In order to meet various operation conditions, the reverse gear can be selected from two kinds of gear ratio (high/low) on the LCD monitor.

K-ATOMiCS with skip shift function

Help conserve fuel with Komatsu Advanced Transmission with Optimum Modulation Control System (K-ATOMiCS) with skip shift function. This system provides electronic shift control with automatic clutch modulation in all gears, which optimizes the clutch engagement oil pressure at every gear position and provides smoother shifting without torque off.

Skip shift function: Avoid unnecessary shifting with the skip shift function, which automatically selects the proper gear position depending on the slope grade when driving uphill. This function helps reduce the number of downshifts to make the ride smoother, improves operator comfort and reduces material spillage.

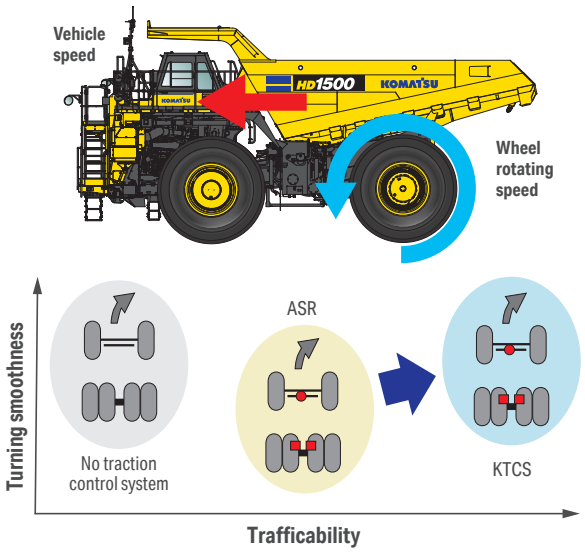


Automatic retarder speed control (ARSC)

Handle steep haul roads by setting your desired downhill travel speed with the automatic retard speed control (ARSC), which automatically applies the brake retarder to maintain the desired setting so you can descend the road with confidence. Set at an increment of 1 km/h by clicking the control lever (±5 km/h max.) to adjust the downhill speed appropriate to the slope grade.

Komatsu traction control system (KTCS)

Avoid wheel slippage with a system that continuously monitors rear wheel rotation speeds and vehicle speed. If excessive wheel slip is detected, this system automatically applies the brake to control wheel slip ratio and maintain optimum condition of tyre traction. As a result, it helps improve productivity and tyre life. KTCS is automatically activated and deactivated without operator intervention.



ASR: Automatic Spin Regulator

Automatic idling setting system

Warm up your engine fast with this automatic idling setting system. While on, the engine idle speed is kept at 650 rpm. When off, the engine idle speed is kept at 1000 rpm, but is lowered to 650 rpm when the parking brake or the retarder brake is on. Warm or cool your operator cab quick, too.

Highly durable axle

The HD1500-8 equips a light, reliable and durable axle by improving strength of gears and optimizing shape of casting, which contributes to longer interval and less cost of the overhaul.

Operator environment features

Ergonomically designed cab

Get a convenient control layout and comfortable environment for more confident operation and greater productivity with this ergonomically designed operator's compartment.

Automatic climate control system

Easily and accurately set the indoor temperature of the cab by the switch panel on the dashboard with this automatic climate control system. Excellent heating/cooling capacity and air flow keep the operator's environment comfortable throughout the year.

High performance radio

Stay connected with this AM/FM radio, which offers a convenient auxiliary input and Bluetooth wireless capabilities.

Storage spaces

Practical and convenient storage spaces are provided inside the cab — glove box, lunch box tray, hot/cool box and cup holder.

Lunch box tray

Hot/Cool box, cup holder

Air suspension seat

Help dampen vibrations transmitted from the cab floor and reduce operator fatigue with this fabric-covered, adjustable, air suspension operator seat. Seat heater and ventilator are equipped as standard.

Foldable trainer seat

The trainer seat with 2-point retractable seat belt is comfortably sized and its back is foldable to the front for easy access to the fuses behind the trainer seat.

Tilt-away and telescopic steering column

Comfortably enter and exit the cab with a tiltable and telescopic steering column that allows the operator to set the steering wheel to a desired position. The tilt mechanism incorporates a spring assist for easy adjustment.

Low noise design

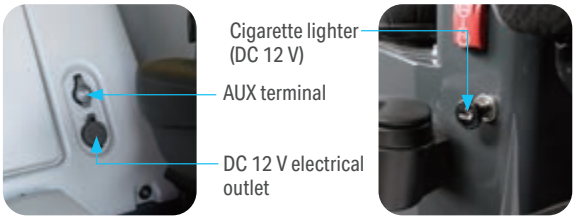
The spacious cab is mounted with large capacity viscous mounts. The low noise engine, fan clutch and cab sealing provide a quiet, low vibration and comfortable operator's environment.

Noise level at operator's ear (SAE J1166)

72 dbA

Standard 12 V DC outlets

Two 12 V DC 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.

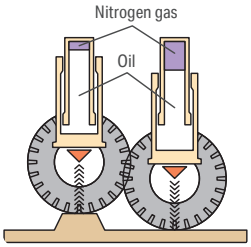


Electronic hoist control

Simplify the dumping operation with this electronically controlled hoist system. A sensor is installed to detect the dump body position, which helps to significantly reduce the shock when the dump body is seated on the main frame.

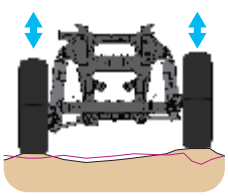
Hydropneumatic suspension for all terrains

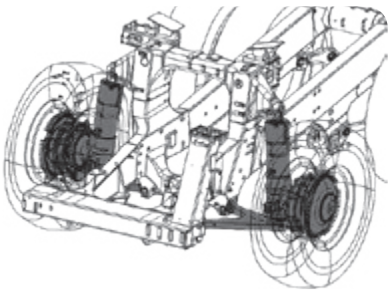
Help improve operator comfort and maximize production with a hydropneumatic suspension that provides a smoother ride over rough terrain.



MacPherson strut-type front suspension

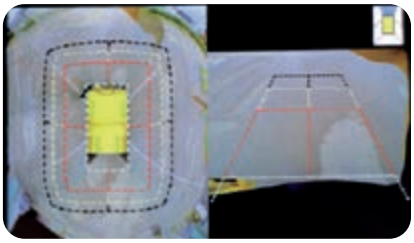
Steady the ride with a MacPherson strut-type independent suspension that's used on the front wheels. The linkage arrangement with low friction allows the front wheels to follow uneven road surface smoothly for a comfortable ride.





KomVision all around monitoring system

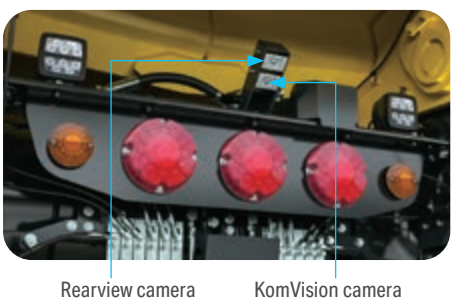
Enhance visibility with KomVision 360-degree monitoring system that uses 6 cameras to provide a real-time view of your surroundings. The 360-degree bird's eye view is displayed on a dedicated monitor located on the dash. Two screen mode allows the bird's eye view and any of the 6 cameras to be viewed simultaneously on the monitor.



Rearview monitor system

Monitor your surroundings with a rearview of the vehicle on a full color monitor. This monitor can be always on, or when the shift lever is in the reverse position. Visual distance guidelines can be added for the operator's convenience.

Rearview monitor



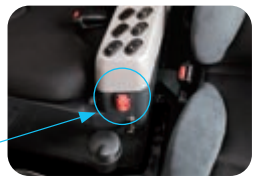
General features

Built-in ROPS/FOPS cab

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

Secondary engine shutdown switch

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



Loaded with LED lamps

Get long service life, excellent visibility and energy savings with standard LED lamps for this truck's head lamps, rear combination lamps, fog lamps, turn signal lamps and hazard warning lamps. Back-up lamps, engine room lamps, side work lamps and ladder lamps are also LED lamps.

Diagonal stairway

Get easy access/egress to/from the cab and the deck with this low angle diagonal stairway. Ladders with gates and handrails are also provided on both the left hand and right hand sides as the secondary egress.

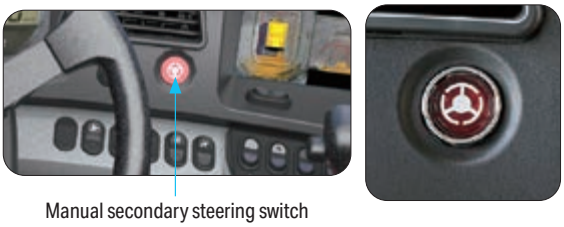
Dimpled slip-resistant plates

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

Secondary steering

The secondary steering system is automatically activated if the hydraulic pressure of the steering circuit lowers (e.g., failure in the hydraulic system). This can also be activated manually by the secondary steering switch in the cab. The pilot lamp on the LCD monitor informs the operator that the system is operable when turning the key switch on.

Conforms to: ISO 5010, SAE J1511



Secondary brake

As an added measure of reliability, a secondary brake is standard. This system is operated by using the left brake pedal and utilizes an independent hydraulic circuit to simultaneously apply the front and rear parking brakes.

Conforms to: ISO 3450, SAE J1473

Protection functions supported by electronic control

Downshift inhibitor	Even if the operator downshifts accidentally, the current transmission gear remains in position until the vehicle speed is appropriate to the selected gear to help prevent overruns
Overrun inhibitor	When descending grades, if the vehicle exceeds the maximum speed for the current gear, the front and rear brakes are automatically activated to help prevent overruns
Reverse inhibitor	Prevents the vehicle from shifting to reverse gear when operating the body
Forward/reverse shift inhibitor	This device makes it impossible to shift to and from reverse when the vehicle's speed exceeds 4 km/h
Anti-hunting system	When running near the shift point, the system prevents unnecessary shift up and down for smooth traveling
Neutral safety	The engine is prevented from starting when the shift lever is not in neutral
Neutral coast inhibitor	Prevents gear position from shifting to neutral while traveling over a certain speed, even if the shift lever is moved to neutral position

Monitor features

High resolution 7-inch color LCD unit

The machine monitor displays machine information and offers various settings for the vehicle. The 7-inch color LCD unit displays the same in the normal screen. Use the switch panel to change the screen to the user menu screen. The switch panel is also used to control the air conditioner.

Machine monitor

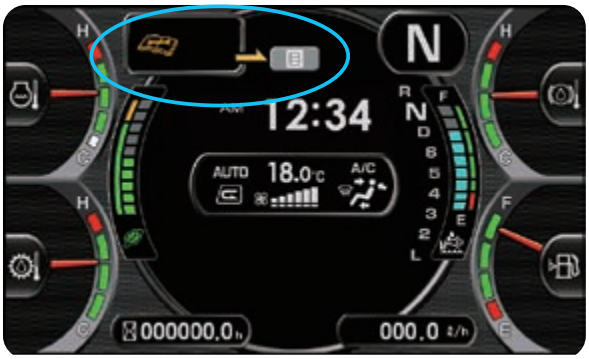
1. Engine coolant temperature gauge
2. Torque converter oil temperature gauge
3. A/C display
4. ECO gauge
5. Payload / clock
6. ARSC set travel speed
7. Shift indicator
8. DEF level gauge
9. Retarder oil temperature gauge
10. Fuel gauge
11. LED indicator
12. Speedometer
13. Engine tachometer

Switch panel

1. Automatic climate control (A/C) switches/numeral keypad
2. Function switches

Maintenance time caution

The maintenance time monitor appears when the next maintenance action needed, even if this occurs before your preset hours. *The time can be set in the10 to 200 hours range.*



Monitor features

Troubleshooting function

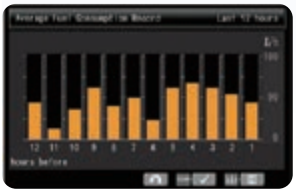
Help facilitate the start-up inspection and promptly warn the operator (visually and audibly) of any abnormal conditions with the various meters, gauges and warning functions that are centrally arranged on the LCD monitor. Each condition is indicated according to one of four recommended action levels.

Pressing the menu switch on the switch panel displays the user menu screen. The menus are grouped by their functions and the easy-to-understand icons help make the menu intuitive.

Machine monitor

1. ECO guidance
   - Operation records
   - ECO guidance records
   - Average fuel consumption logs
   - Configurations
2. Machine setting / information
   - Payload meter
   - KTCS setting
   - ARSC setting
   - Dumping counter
3. Aftertreatment devices regeneration
4. SCR information
5. Maintenance
   - Check and reset various maintenance intervals / remaining hours
6. Monitor setting
   - Rearview monitor setting
   - KomVision setting
   - Meter select
   - Screen adjustment
   - Language setting (27 languages)
7. Mail check

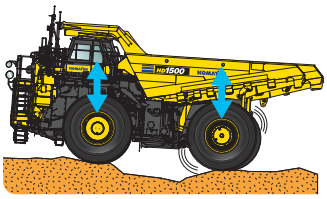
Maintenance screen



Reliability features

Road condition analysis

Map the haul road condition by calculating pressure at each suspension cylinder with this function. The calculated haul road condition (i.e., road roughness, road gradient) will be reported to the operator, along with geographical data via Komtrax Plus. Reporting data includes recommendations for optimal travel speed and timing of road maintenance as appropriate. This is a useful tool for helping to maximize machine availability and road condition optimization.



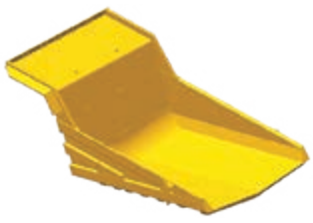
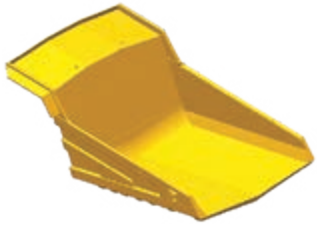
High-rigidity frame

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

Yellow colored parts are cast-steel components.

Robust dump body design

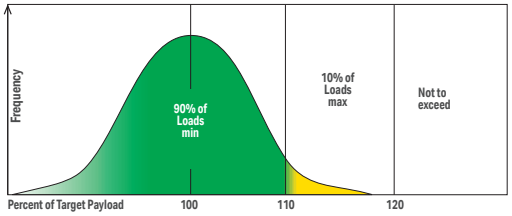
The standard dump body is made of high-tensile-strength steel for excellent rigidity and low maintenance cost. The V-shape and V-bottom design contribute to the structural strength. The front, side and bottom plates of the dump body are reinforced with lateral and longitudinal bolsters. 2 kinds of bodies are available depending on the application.

78 m³ body	For high density material such as copper/iron ore and hard overburden Plate thickness: 19/12/9 mm (Bottom/front/side)	
94 m³ body	For low density material such as loose overburden and dry soil Plate thickness: 16/10/9 mm (Bottom/front/side)	

Loading policy

Each dump truck has its own target payload. Following the loading policy can help maximize productivity by fully utilizing the vehicle's performance, reducing the operating cost and extending the life of brakes, tyres and other components.

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 110% of the target payload of the truck
3) No more than 10% of all loads may be between 110% and 120% of the target payload of the truck
4) Any single load must not exceed 120% of the target payload of the truck



Target payload = rated gross vehicle weight empty vehicle weight (include all attached options)

Operating a dump truck with an extraordinary payload can cause the following adverse effects:

- Operating an under loaded truck increases the number of round trips required to haul the same quantity of materials, which can increase cost-per-ton and degrade vehicle performance
- Operating an overloaded truck can deteriorate the brake discs and tyres, which can shorten the life of the drive system and increase maintenance and repair costs

PLM

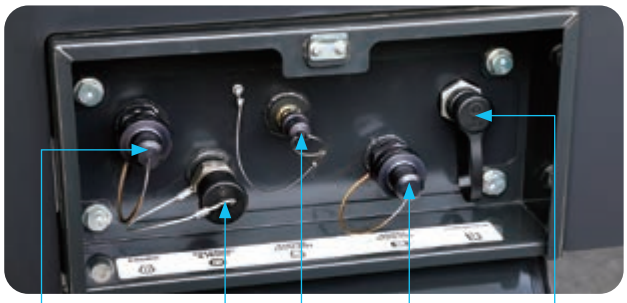
Payload display Loaded weight

Help manage the payload of each hauling cycle by analyzing the production volume and the working conditions of the dump truck with the payload manager. Loaded weight is indicated on the payload display (the LCD unit) and the external display lamps in real time while loading.

Maintenance features

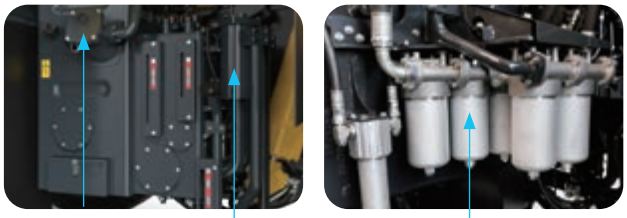
Service center

A convenient service center is located on the bottom part of the steering/hoist tank, which facilitates engine oil, coolant, transmission oil, steering and hoist oil, and brake cooling oil refilling at the same location.



Centralized arrangement of filters

The filters are centralized for easy service.

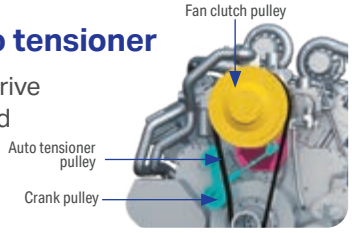


Extended interval of exchanging filters and oil

This truck can help achieve an extensive interval of exchanging the oil with its rear axle oil filtration system. Also, large capacity filters for engine oil and fuel can help prolong the intervals of exchanging the filters.

Fan drive with auto tensioner

The engine cooling fan drive belt tension is maintained by the auto tensioner pulley and is maintenance free.



Automatic greasing system

This system automatically supplies grease to each greasing point with every preset hour, making it unnecessary to periodically lubricate by manual pump. The refill port to the reservoir is accessible from the ground level.

Electric circuit breaker

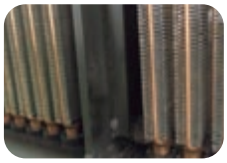
Circuit breakers are used for important electric circuits which need to be restored quickly when a problem occurs in the electrical system.

Battery disconnect switch

For convenience in maintenance/service, a battery disconnect switch is located on the left side of the vehicle and is accessible from the ground level.

Easy radiator tube replacement

Individual cooling tubes are held in headers with flexible seals and are easy to remove and install. It is not necessary to replace as an assembly, and only damaged tubes can be replaced.



Tie-off anchor points for maintenance

Anchor points to fix safety harnesses are installed to the machine in order to secure safety during maintenance.

Specifications

Engine

Model		Komatsu SDA16V159E-3
Type		Water-cooled, 4-cycle
Aspiration		Overhead valve, direct injection type, turbocharged, after-cooled
Number of cylinders		16
Bore × stroke		159 mm × 159 mm
Piston displacement		50.5 l
Enginepower		
SAE J1995 (gross)	1180 kW	1580 HP
ISO 9249/SAE J1349 (net)	1170 kW	1570 HP
Rated rpm		1900 rpm
Fan drive type		Mechanical with electronic controlled fan clutch
Maximum net torque		7378 Nm
Fuel system		Direct injection
Governor		Electronic controlled
Lubrication system		
Method		Gear pump, forced-lubrication
Filter		Full-flow type
Air cleaner		Dry type with double elements, precleaner and evacuator valve

Transmission

Torque converter	3-element, 1-stage, 2-phase
Type	Full-automatic, planetary-type
Speed range	7 speeds forward, 1 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 and direct (lockup)
Shift control	Electronic shift control with automatic clutch modulation in all gears
Maximum travel speed	56.5 km/h

Axles

Rear axle	Full-floating
Final drive type	Planetary gear
Ratios:	
Differential	1.72
Planetary	11482

Suspension

MacPherson strut type front suspension and four-link type rear axle suspension with independent, hydropneumatic cylinders.	
Effective cylinder stroke	Planetary gear
Front suspension	375 mm
Rear suspension	106 mm
Rear axle oscillation	
Oil stopper	3.9°
Mechanical stopper	5.8°

Steering System

Type	Full hydraulic power steering system with double acting cylinders
Secondary steering	Automatic/manual control (Meets ISO 5010 and SAE J1511)
Minimum turning radius	11.2 m
Maximum steering angle	43°

Cab

Standard	FOPS (ISO 3449 level II), ROPS (ISO 3471)

Main frame

Type	Box-sectioned structure

Brakes - meet ISO 3450 standard

Service brakes	
Front	Fully hydraulic,oil-cooled, multiple-disc type
Rear	Fully hydraulic,oil-cooled, multiple-disc type
Parking	Spring applied, multiple-disc type
Retarder	Oil-cooled, multiple-disc type front and rear breaks act as retarder
Secondary brake	Manual pedal operation – when hydraulic pressure drops below the specified level, parking brake is automatically actuated
Brake surface	
Front	67939 cm²
Rear	97055 cm²

Body

Capacity	
Struck	50 / 63 m³
Heaped (2:1, SAE)	78 / 94 m³
Rated payload	139 metric tons
Material	400/450 brinell hardness high tensile strength steel
Structure	V-shape body with V-bottom
Material thickness	
Bottom	19 mm
Front	12 mm
Sides	9 mm
Dumping angle	45°
Height at full dump	11305 mm

Hydraulic system

Hoist cylinder		Twin, 2-stage telescopic type
Relief pressure	24 MPa	245 kgf/cm²
Hoist time (rated engine rpm)		13.5 s

Tyres

Standard tyre	33.00 R51

Service refill capacities

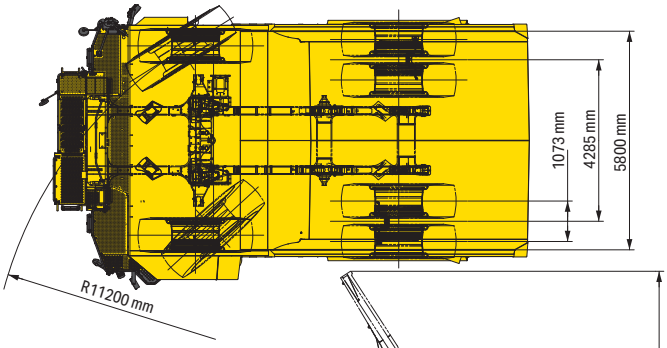
Fuel tank (specified capacity)	2120 l
DEF tank	212 l
Engine oil	215 l
Radiator	460 l
Torque converter, transmission	129 l
Differential	439 l
Final drives (total)	214 l
Hydraulic system	316 l
Suspension (total)	191.6 l

Weight (approximate)

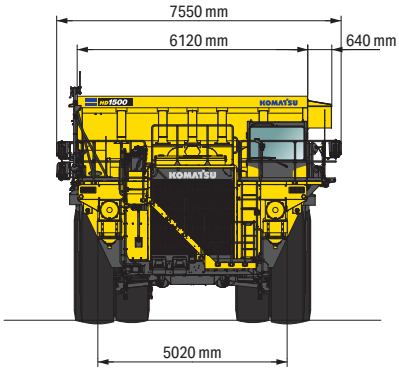
Rated empty vehicle weight	110400 kg
Rated gross vehicle weight	249580 kg
Weight distribution	
Empty: Front axle	52.5%
Rear axle	47.5%
Loaded: Front axle	32.9%
Rear axle	67.1%

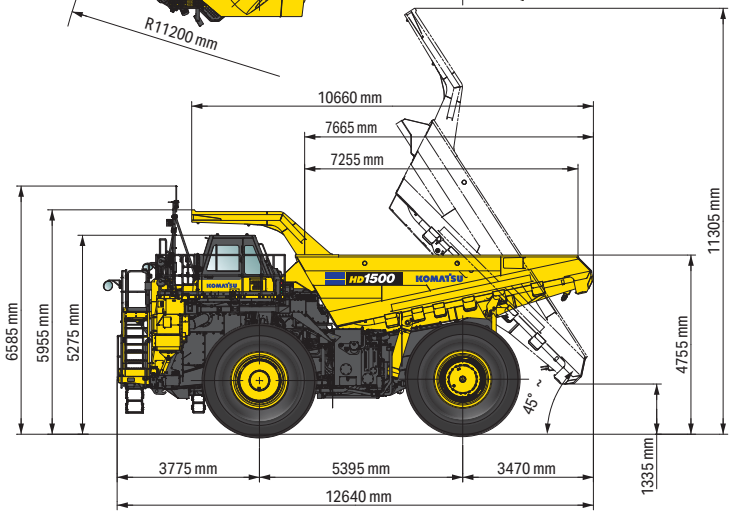
Environment

Engine emissions	Fully complies with EU Stage V exhaust emission regulations
Noise level, LpA operator ear	70.9 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)	
Hand/arm	≤ 2.5 m/s² (uncertainty K = 0.77 m/s²)
Body	≤ 0.5 m/s² (uncertainty K = 0.20 m/s²)
Contains fluorinated greenhouse gas HFC-134a (GWP 1430). Quantity of gas 1.2 kg; CO_2 equivalent 1.72 t	

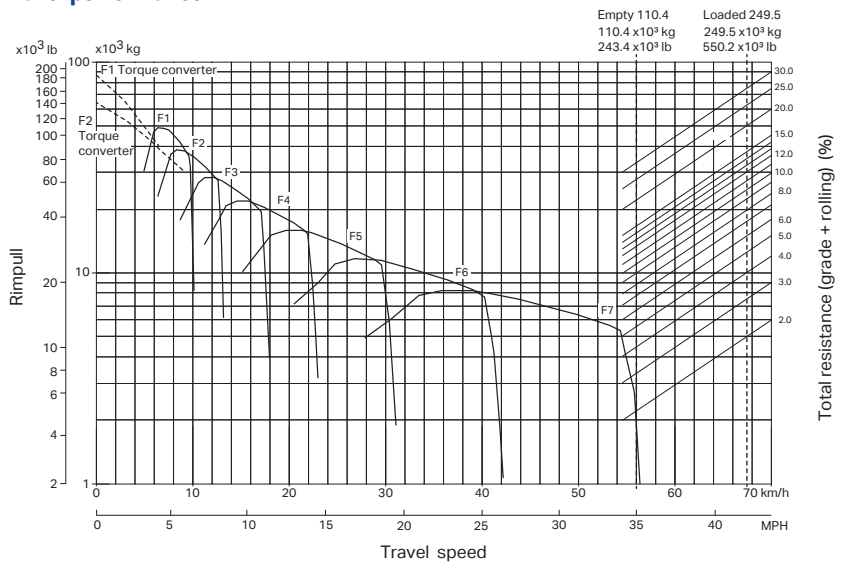


Dimensions with 73 m³ body



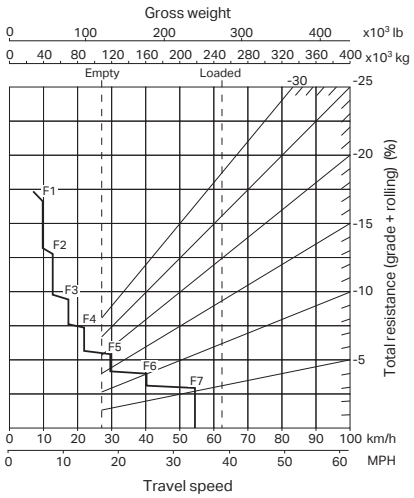


Travel performance



Brake performance

Grade distance: continuous descent



Standard and optional equipment

Engine and related components

Engine, Komatsu SDA16V159E-3, 16 cylinder, turbocharged, after cooled, diesel	●
Selective catalytic reduction (SCR) after treatment with diesel exhaust fluid (DEF) tank and heated lines	●
Air cleaner, double element dry type with pre-cleaner and restriction indicator	●
Cooling fan clutch with auto belt tensioner	●
Electric priming fuel pump	●
Engine pre-lubrication system	●
Engine starting aid system, ether	●
Engine secondary shutdown switch	●
Radiator, lead free, modular core	●
Automatic idling setting system (AISS)	●
Exhaust body heating	●
Radiator shutter for cold weather	○
Ether start aid for cold weather	○
Engine oil and coolant heater, electric	○

Electrical system

Alternator, 250 A, 24 V	●
Back-up alarm	●
Batteries, 4 x 12 V	●
Battery isolator	●
Electric circuit breakers, 24 V	●
Emergency stop switch, ground level	●
Horn, electric	●
LED lighting package	●
Starter isolator	●
Starting motors, 2 x 9 kW, electric	●

Power train and controls

7-speed transmission, fully automatic (7F, 1R)	●
Transmission oil filter clogging alarm	●
Brake cooling oil recovery tank	●
Brakes, oil cooled, multiple disc, hydraulically controlled, front and rear	●
Komatsu traction control system (KTCS)	●
Neutral coast inhibitor	●
Parking brake, integrated in front and rear brakes	●
Retarder, manual	●
Automatic retard speed control (ARSC)	●
Secondary brake, pedal actuated, variable	●
Skip shift function	●
Torque converter with hydraulic lockup control	●
Rear axle oil filtration system	●

Operator environment

Cab with built-in ROPS/FOPS (ISO 3471/ISO 3449)	●
12 V outlet (qty 2)	●
Automatic climate control system with cab pressurization	●
Body hoist control, electric	●
Cigarette lighter and ashtray	●
Door, lh and rh	●
KomVision All Around Monitoring System (6 Cameras)	●
Machine monitor with 7" color LCD display	●
Power and economy mode selection	●
Operator seat, air suspension, heated, ventilated with 3-point 3" retractable seat belt	●
Power windows, lh and rh	●
Radio, AM/FM with aux input and bluetooth	●
Rearview mirror, outside cab mount, heated	●
Rearview monitoring system with dedicated monitor	●
Secondary steering, automatic and manual	●
Steering wheel, tilt and telescopic	●
Sun screen, retractable	●
Tinted thermoshield glass	●
Trainer seat with 3" retractable lap belt	●
Underview mirror	●
Wiper/washer, windshield (intermittent)	●
Additional cab heater	○

Guard and cover group

Cab and platform guard	●
Catwalk with handrails, skid resistant	●
Driveline guards, front and rear	●
Engine side covers	●
Engine underguard	●
Exhaust thermal guard	●
Fire safety shield (located behind engine)	●
Mud flaps	●
Rock ejector bars	●
Transmission underguard	●

Other equipment

Anchor points, tie off type (ISO 14567)	●
Diagonal access stairway	●
Buddy (disabled body raise) system	●
Disabled truck quick connect couplers	●
Dump counter	●
Ecology guidance and ECO gauge	●
Fast fill coupler for fuel tank	●
Filler cap lock and cover lock	●
Ground level service center fluid ports - transmission, engine, brake control, steering and hoist oil	●
Automatic greasing system with ground level refill port	●
Hydropneumatic suspension, front and rear	●
Jump start receptacle	●
Electric engine oil and coolant heater	●
Electric hydraulic oil tank heater	●
Ether engine starting aid system	●
Komtrax Plus satellite communication (iridium)	●
Overload prevention system	●
Overrun warning and prevention	●
Overturn warning system	●
Payload meter	●
PM service connectors	●
Smart rims for 33.00 R51 tyres with large bore valve stems (qty 6)	●
Body safety pins (qty 2)	●
Wheel chocks (qty 2)	●
LH relocate fast fill coupler for fuel tank	●
94 m^3 dump body	○
78 m^3 dump body	○
Hydraulic powered access ladder	○
Adjustable steering rod tie	○
Hydraulic oil heater, electric	○
Payload meter scoreboard	○
Spare smart rim with valve (front)	○
Spare smart rim with valve (rear outer)	○
Spare smart rim with valve (rear inner)	○

Further equipment on request

● standard equipment
○ optional equipment

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