

**KOMATSU**

**HD465-8**  
**HD605-8**

**OFF-HIGHWAY TRUCK**



**HD465-8**

# Walk-Around



HD465/605-8



## PRODUCTIVITY ON DEMAND

### Powerful and Environmentally Friendly

- Fuel efficient high performance Komatsu SAA6D170E-7 engine
- Eco-gauge and Eco guidance
- Adjustable auto idle shutdown

### First-Class Comfort

- Newly designed spacious, economical cab
- Heated and ventilated air suspension seat
- High resolution LCD colour monitor
- Hydro-pneumatic suspension

### Reliability & Maintenance

- Hydraulically driven, reversible cooling fan
- Fully hydraulic brake system
- High-rigidity frame

### Maximised Efficiency

- Hydraulically controlled wet multiple-disc brakes and retarder
- Auto Retard Speed Control (ARSC)
- K-ATOMiCS transmission with “Skip-Shift” function
- Komatsu Traction Control System (KTCS) (Option)

### Safety First

- Komatsu SpaceCab™ – Built-in ROPS/FOPS
- Rear-view camera system
- Integrated stairways with handrails and gentle slope

### KOMTRAX Plus

- Komatsu Wireless Monitoring System
- Increased operational data and fuel savings

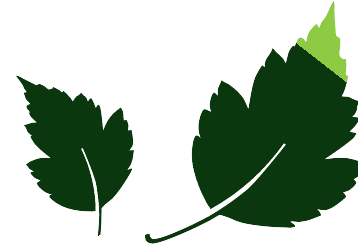




Powerful and Environmentally Friendly



HD465/605-8



**Exhaust Gas Recirculation (EGR)**  
Cooled EGR is a technology well-proven in current Komatsu engines. The increased capacity of the EGR cooler now ensures very low NOx emissions and a better engine performance.

**Komatsu Closed Crankcase Ventilation (KCCV)**  
Crankcase emissions (blow-by gas) are passed through a CCV filter. The oil mist trapped in the filter is returned back to the crankcase while the filtered gas is returned to the air intake.

**High-Pressure Common Rail (HPCR)**  
To achieve complete fuel burn and lower exhaust emissions, the heavy-duty High-Pressure Common Rail fuel injection system is computer controlled to deliver a

**Variable Geometry Turbo (VGT)**  
The VGT provides optimal airflow to the engine combustion chamber under all speed and load conditions. Exhaust gas is cleaner, fuel economy is improved while machine

## Heavy-duty aftertreatment system

KDPF captures more than 90% of Particulate Matter (PM). Special oxidation catalyst and extra fuel injection in the exhaust stream can decompose accumulated soot in the DPF filter by either active or passive regeneration. This system does not interrupt normal operation or require additional action from the driver.

## Automatic Idling Setting System (AISS)

This system facilitates quick engine warm-up and operator cab cooling/warming. When the system is "ON", engine idle speed is kept at 1.100rpm, and is lowered to 750rpm as the coolant temperature rises. It automatically returns to 1.100rpm when the coolant temperature drops.

## Brake cooling oil recovery tank

A tank is installed on each rear wheel to capture brake cooling oil



# Maximised Efficiency



## Payload meter (PLM)

The PLM manages the payload of each hauling cycle and analyzes the truck's production volume and working conditions for a specific period. Loaded weight is displayed in real time, both on the cab's monitor and by external display lamps.



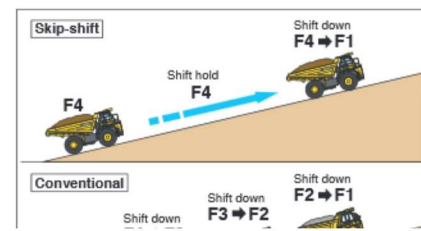
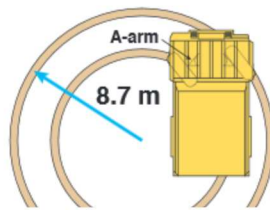
## Komatsu Traction Control System (KTCS) (optional)

KTCS continuously monitors the rear wheels' rotating speed and vehicle speed for slippage. In case of excessive wheel slip, the brake is automatically applied, and optimum tire traction is maintained. KTCS activates and deactivates automatically, and improves productivity and tire life more than the conventional ASR system.



## K-ATOMiCS transmission

K-ATOMiCS is an electronic shift control with automatic clutch modulation in all gears. It optimizes oil pressure for the clutch engagement and provides smoother shifting without torque off.

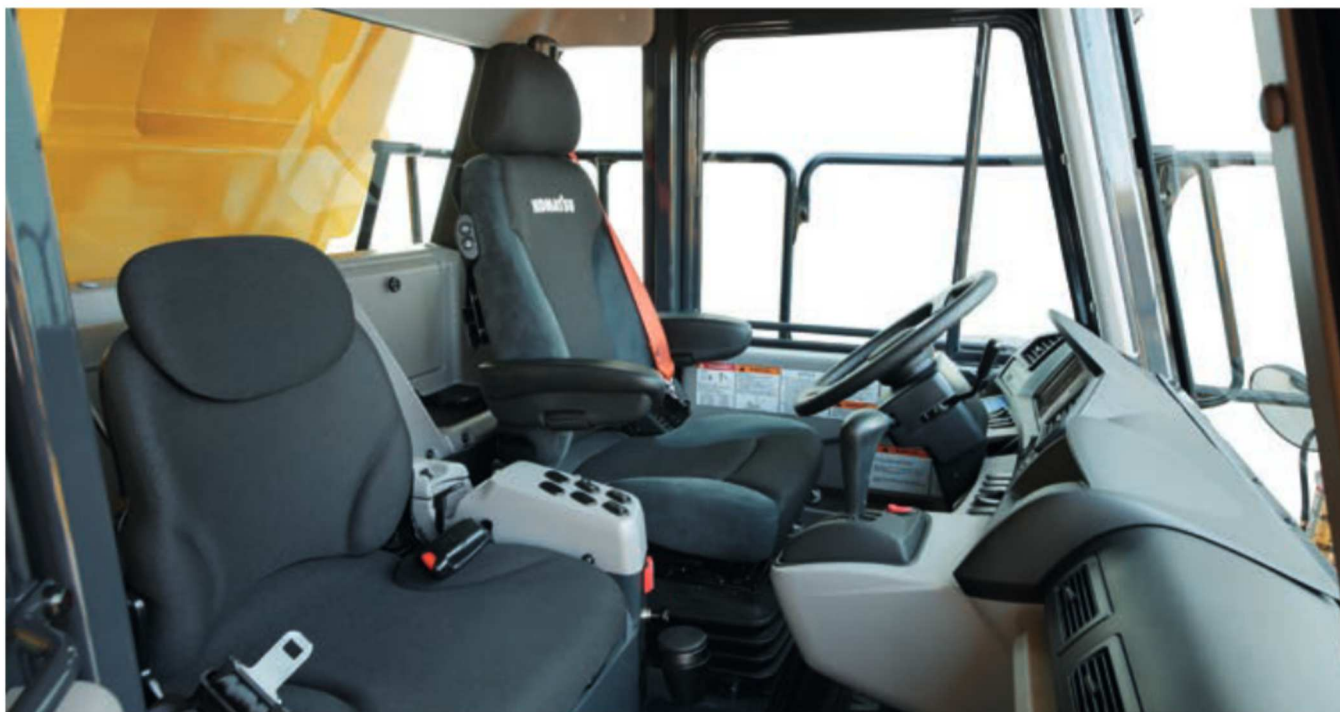


HD465/605-8





## First-Class Comfort



### Wide and comfortable cab

The wide Komatsu SpaceCab™ with user-friendly controls provides a comfortable and safe work environment. A fully adjustable air-suspended seat dampens vibrations and reduces the fatigue of long shifts. Large front and electric side windows give a superior visibility and increased confidence.

### Hydro-pneumatic suspension

Komatsu's hydro-pneumatic suspension gives the HD465/605-8 a smooth ride with reduced pitching and excellent driving comfort. Less shocks for the operator and for the machine components also mean less spilled material and increased durability, comfort and productivity.

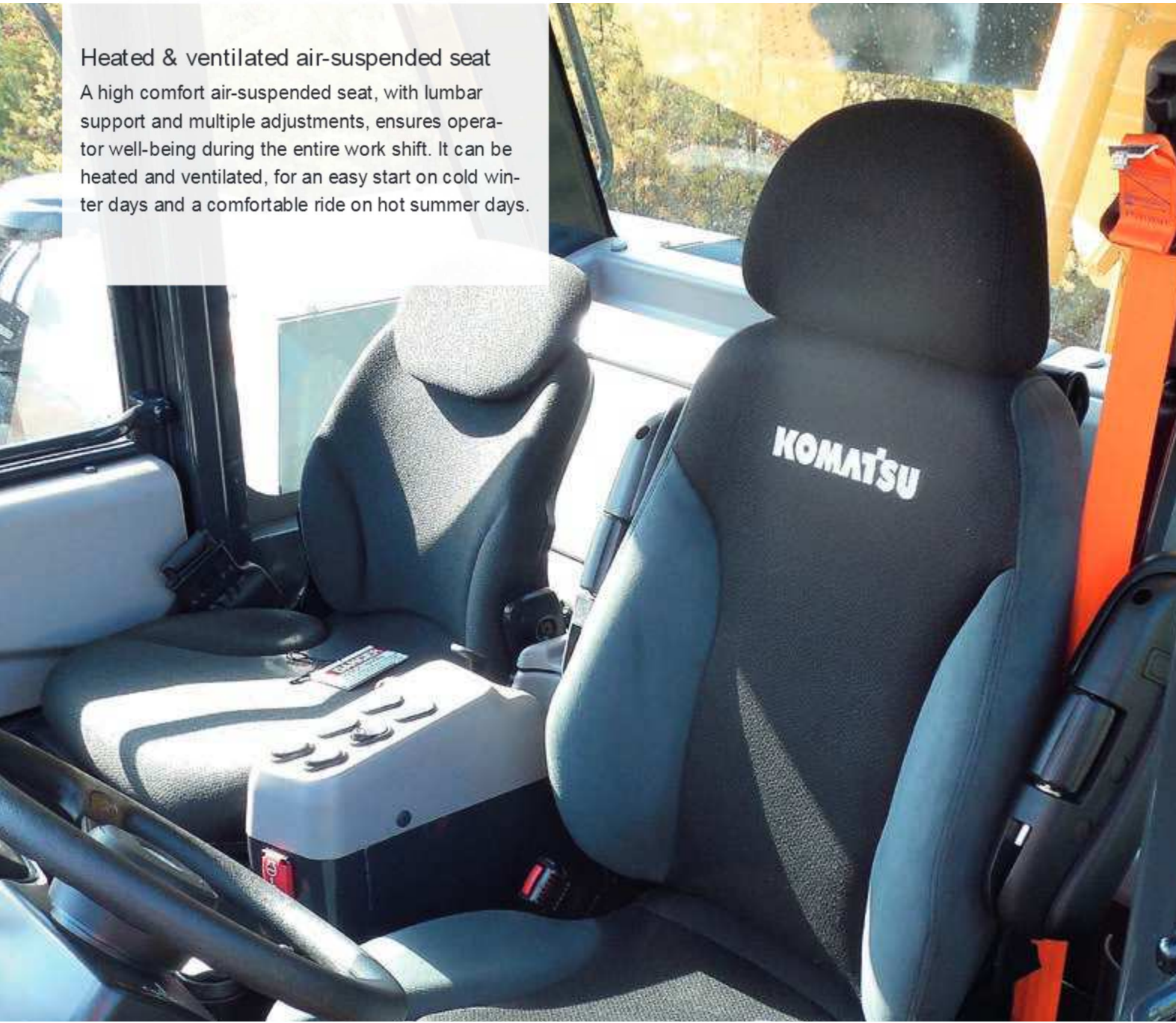
### Low-noise design

To reduce noise levels, the cab is mounted on viscous dampeners. Further noise reduction is achieved by the integrated cab floor: it makes the cab air-tight and seals off the engine compartment. A low-noise and sound-insulated muffler helps to bring sound levels way down.



**Heated & ventilated air-suspended seat**

A high comfort air-suspended seat, with lumbar support and multiple adjustments, ensures operator well-being during the entire work shift. It can be heated and ventilated, for an easy start on cold winter days and a comfortable ride on hot summer days.



# Information & Communication Technology



## Lower operating costs

Komatsu ICT contributes to the reduction of operating costs by assisting to comfortably and efficiently manage operations. The monitor panel displays instant guidance messages to help promote energy saving, and the Eco-gauge indicates actual fuel consumption. To further

## Large LCD colour monitor

A large user-friendly colour monitor enables safe, accurate and smooth work. Multilingual and with all essential information available at a glance, it features simple and easy-to-operate switches and multifunction keys that provide fingertip access to a wide range of functions and opera-

## Troubleshooting function

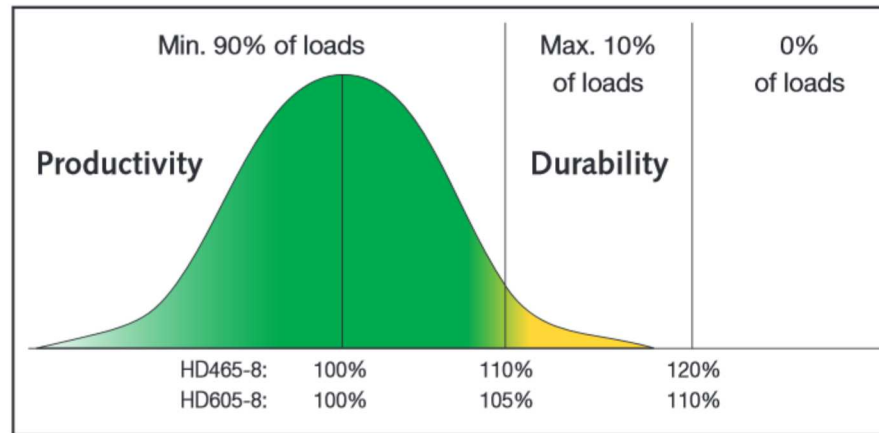
Various meters, gauges and warning functions are centrally arranged on the LCD unit. This unit facilitates the start-up inspection and promptly warns the operator with a lamp and buzzer if any abnormal conditions occur.



# Tough and Reliable

## Loading policy

Each dump truck has its own “target payload”. Respecting the “Loading Policy” maximizes productivity with the full utilization of the vehicle performance. It reduces operating costs, and extends the life of brakes, tires, and other components.



## High-rigidity frames

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

### HD465-8: 10/10/20 policy

- Monthly average payload must not exceed the truck’s target payload.
- No less than 90% of all loads must be up to 110% of the truck’s target payload.
- No more than 10% of all loads may be between 110% and 120% of the truck’s target payload.
- Any single load must not exceed 120% of the truck’s target payload.

### HD605-8: 10/5/10 policy

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

## Body selection

Several different types of bodies are selectable, with optional equipment for various load conditions prepared

## 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 side and bottom plates of the dump body



# Safety First



ROPS/FOPS to ISO 3471 ROPS and ISO 3449 FOPS Level II standard



Safe cab access thanks to the low angle of the front stairways with handrails, slip-resistant



Rear-view camera system



## Excellent all-round visibility

To keep the working area under control, a laminated-glass windshield, wide side windows, a standard rear-view camera and monitor, 3 additional under-view mirrors and 4 rear-view mirrors combine to minimise blind spots.

## Supplementary steering and secondary brakes

Standard features on the HD465/605-8 include supplementary steering and secondary brakes. They help to guarantee safety in emergency situations.

## Speed limiter

Maximum travel speed is limited independently for both empty and loaded conditions.

The optional overload speed limiter limits the maximum travel speed to 15 km/h when the payload exceeds the threshold value.



HD465/605-8



# Easy Maintenance



## Ground access battery box and battery disconnect switch

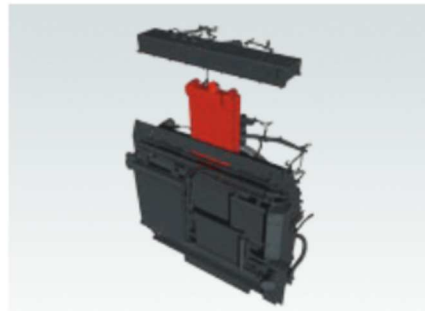
For easy and safe daily check and service work, the battery box and battery disconnect switch are both accessible from ground level.

## Long service intervals

Engine oil at 500 hours, transmission oil at 1000 hours and hydraulic oil at 4000 hours change intervals minimize operating cost.

## Komatsu CARE™

Komatsu CARE™ is a maintenance program that comes as standard with every



## Modular design wide core radiator with reversible fan

The wide core modular radiator prevents clogging even in a dusty work environment. To minimize manual cleaning, a reversible fan blows the dust out. The radiator core can be removed without the entire assembly, keeping repair costs down.

## Centralized greasing points

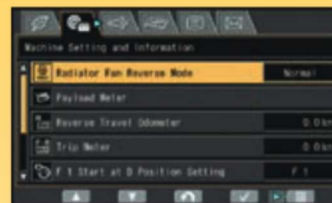
Greasing points are located accessible from ground level to make daily maintenance easier.



Maintenance caution



Basic maintenance screen



Radiator fan mode



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# KOMTRAX

## What

- KOMTRAX is Komatsu's remote equipment monitoring and management system
- KOMTRAX continuously monitors and records machine health and operational data
- Information such as fuel consumption, utilization, and a detailed history aids in making repair or replacement decisions

## Who

- KOMTRAX is standard equipment on all Komatsu construction products

## When

- Know when your machines are running or idling and make decisions that will improve your fleet utilization
- Detailed movement records ensure you know when and where your equipment is moved
- Up to date records allow you to know when maintenance was done and help you plan for future maintenance needs

## Where

- KOMTRAX data can be accessed virtually anywhere through your computer, the web or your smart phone
- Automatic alerts keep fleet managers up to date on the latest machine notifications

## Why

- Knowledge is power - make informed decisions to manage your fleet better
- Knowing your idle time and fuel consumption will help maximize your machine efficiency
- Take control of your equipment - any time, anywhere



# Specifications HD465-8

## ENGINE

Model	Komatsu SAA6D170E-7
Type	Common rail direct injection, water-cooled, turbocharged, after-cooled, cooled EGR diesel
Engine power	
at rated engine speed	2.000 rpm
ISO 14396	578 kW/778 HP
ISO 9249 (net engine power)	540 kW/724 HP
No. of cylinders	6
Bore x stroke	170 x 170 mm
Displacement	23,15 l
Max. torque	3.644 Nm (372 kgf-m)
Governor	Electronically controlled
Lubrication system	
Lubrication method	Gear pump, force lubrication
Filter	Full-flow filter
Air-filter type	Dry type with double elements, precleaner and evacuator valve

## TRANSMISSION

Torque converter	3-element, 1-stage, 2-phase
Transmission	Full-automatic, planetary type
Speed range	7 speeds forward and 1 reverse
Lock-up clutch	Wet, multiple-disc clutch
Forward	Torque converter drive in 1st gear, direct drive in 1st lock-up and all higher gears
Reverse	Torque converter drive
Shift control	Electronic shift control with automatic clutch modulation in all gears
Max. travel speed	70 km/h

## STEERING SYSTEM

Type	Full-hydraulic power steering with two double-acting cylinders
Supplementary steering	Automatically and manually controlled (meets ISO 5010 and SAE J1511)
Minimum turning radius, centre of front tyre	8,7 m
Max. steering angle, outside tyre	39°

## AXLES

Final drive type	Planetary gear
Rear axle	Full-floating
Ratios	
Differential	3,538
Planetary	4,737

## BRAKES

Brakes meet ISO 3450 standard.	
Service brakes	
Front	Full-hydraulic control, caliper disc type
Rear	Full-hydraulic control, oil-cooled multiple-disc type
Parking brake	Spring applied, multiple-disc type
Retarder	Oil-cooled, multiple-disc rear brakes act as retarder
Retarder capacity (continuous)	802 kW / 1.075 HP
Secondary brake	Manual pedal operation. When hydraulic pressure drops below the specified level, parking brake is automatically actuated.
Brake surface	
Front	1.936 cm <sup>2</sup>
Rear	64.230 cm <sup>2</sup>

## MAIN FRAME

Type	Box-sectioned structure
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## SERVICE REFILL CAPACITIES

Fuel tank	800 l
Engine oil	80 l
Torque converter, transmission and retarder cooling	215 l
Differentials (total)	95 l
Final drives (total)	42 l
Hydraulic system	149 l
Suspension (total)	66,2 l

# Dimensions & Performance Figures

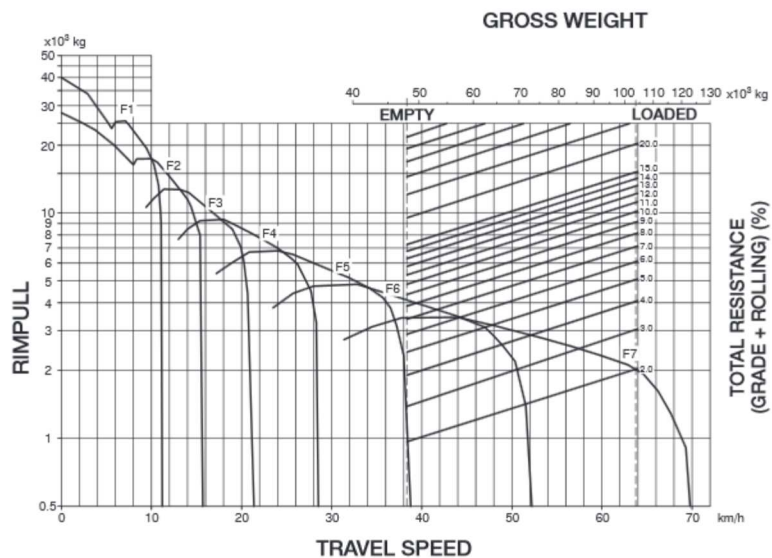
## WEIGHT (APPROX.)

Empty weight	48.420 kg
Gross vehicle weight	103.500 kg
Weight distribution	
Empty	
Front axle	53%
Rear axle	47%
Loaded	
Front axle	34%
Rear axle	66%

## BODY

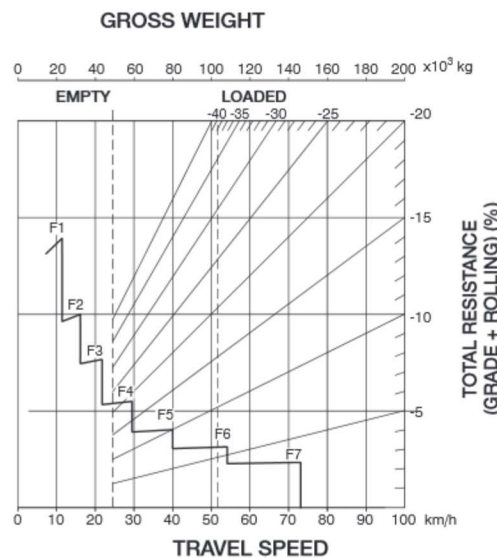
Capacity	
Struck	25,0 m <sup>3</sup>
Heaped (2:1, SAE)	34,2 m <sup>3</sup>
Payload	55 metric tons
Material	
130 kg/mm <sup>2</sup> high tensile strength steel	
Material thickness	
Bottom	19 mm
Front	12 mm
Sides	9 mm
Target area (inside length x width)	
6.450 mm x 3.870 mm	
Heating	
Exhaust heating	

## TRAVEL PERFORMANCE

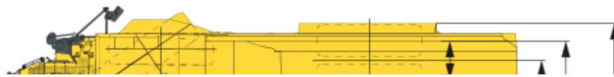


## BRAKE PERFORMANCE

GRADE DISTANCE: CONTINUOUS DESCENT



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





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Torque converter	3-element, 1-stage, 2-phase
Transmission	Full-automatic, planetary type
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Lock-up clutch	Wet, multiple-disc clutch
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Shift control	Electronic shift control with automatic clutch modulation in all gears
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Type	Box-sectioned structure
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Engine oil	80 l
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Differentials (total)	95 l
Final drives (total)	42 l
Hydraulic system	149 l
Suspension (total)	66,2 l

# Dimensions & Performance Figures

## WEIGHT (APPROX.)

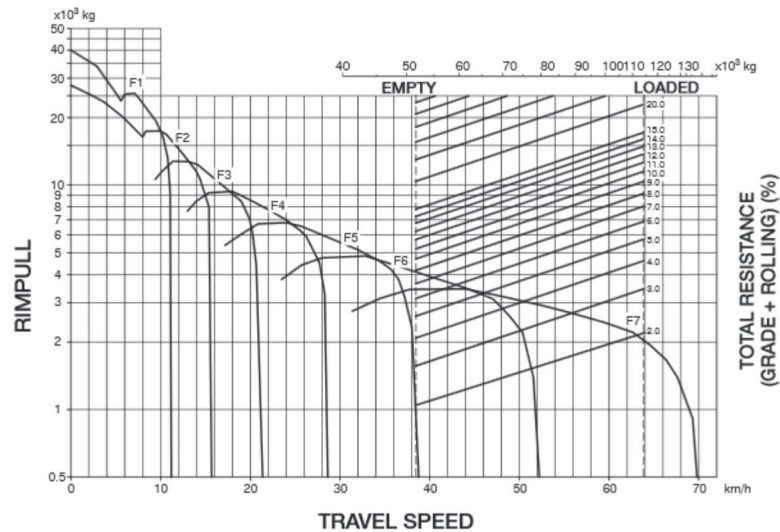
Empty weight	51.620 kg
Gross vehicle weight	114.700 kg
Weight distribution	
Empty	
Front axle	51%
Rear axle	49%
Loaded	
Front axle	33%
Rear axle	67%

## BODY

Capacity	
Struck	29,0 m <sup>3</sup>
Heaped (2:1, SAE)	40,0 m <sup>3</sup>
Payload	63 metric tons
Material	
	130 kg/mm <sup>2</sup> high tensile strength steel
Material thickness	
Bottom	25 mm
Front	16 mm
Sides	14 mm
Target area (inside length x width)	6.450 mm x 3.870 mm
Heating	Exhaust heating

## TRAVEL PERFORMANCE

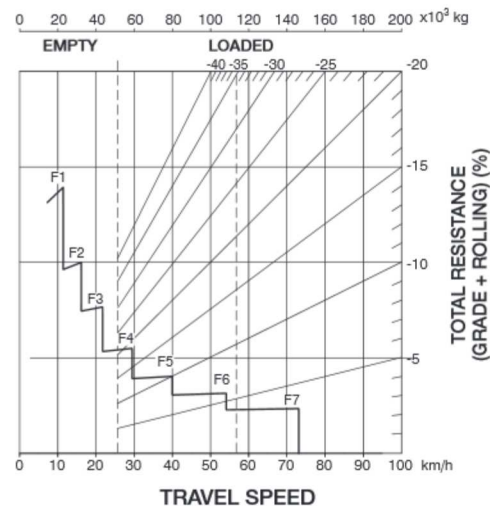
### GROSS WEIGHT



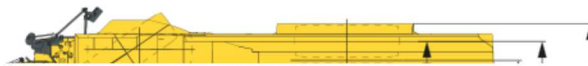
## BRAKE PERFORMANCE

### GRADE DISTANCE: CONTINUOUS DESCENT

### GROSS WEIGHT



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



# Standard and Optional Equipment

## ENGINE

Komatsu SA46D170E-7 turbocharged common rail direct injection diesel engine	EP
Remote hydraulically driven, variable speed, reversible cooling fan	EP
Auto-deceleration function	EP
Adjustable auto idle shutdown	EP
Alternator 90 A / 24 V	EP
Starter motor 2 x 7,5 kW	EP
Batteries 4 x 12 V	EP
Dry type air cleaner, double element with dust indicator	EP

## BODY

Body exhaust heating kit	EP
Spill guard, 300 mm, weld-on/bolt-on type	EP
Electronic hoist control system	EP
Rock ejector bars	EP
Safety pin	EP
Tire guard, rear, weld-on type	EP
Cab guard, left, bolt-on type	EP
Platform guard, bolt-on type	EP
Steel body liners	EP
Side extensions	EP

## OTHER EQUIPMENT

Mud guards	EP
Engine underguard	EP
Propeller shaft guards, front and rear	EP
Transmission underguard	EP
Komatsu Diesel Particulate Filter (KDPF) thermal guard	EP
Fire prevention covers	EP
Auto Retard Speed Control (ARSC)	EP
Payload meter (FLM)	EP
Engine side covers	EP
Lockable fuel cap and covers	EP
Brake cooling oil recovery tank	EP
Electric circuit breakers, 24 V	EP

## CABIN

ROPS/FCPS cab, sound suppression type with tinted windows, front laminated glass, two doors (left and right)	EP
Operator seat, air suspension type with heating, ventilation and retractable 3-point seat belt	EP
Trainer seat with 2-point seat belt	EP
Steering wheel, tilt and telescopic	EP
Air conditioner	EP
Sun visor	EP
Windshield washer and wiper (with intermittent feature)	EP
Cigarette lighter, ashtray, cup holder, space for lunch box	EP
AM/FM radio with auxiliary input (MP3 jack)	EP
Body dump counter	EP
Eco-gauge and Eco guidance	EP
2 x 12 Volt power supply	EP

## SERVICE AND MAINTENANCE

Automatic greasing system	EP
Large LCD colour monitor panel	EP
KOMTRAX Plus – Komatsu wireless monitoring system	EP
Komatsu CARE™ – a maintenance program for Komatsu customers	EP
Electric refuelling pump	EP
Fuel tank with fast coupler	EP
Engine room lamp	EP
Centralised greasing points (4)	EP
Battery jump start	EP
Hydraulic oil filter clogging alarm	EP
PM service connections	EP
Radiator shutter, canvas type	EP
Centralized quick connectors for oil change	EP
Wheel chocks	EP

## AXLES AND TYRES

## SAFETY EQUIPMENT

Speed limiter	EP
Back-up alarm	EP
Automatic supplementary steering	EP
Coolant temperature alarm and light	EP
Battery main switch	EP
Hand rails for platform	EP
Horn, electric	EP
Ladders, left and right hand side	EP
Front brake cut-off system	EP
Protective fence around engine hood	EP
Heated rear-view mirrors	EP
Under-view mirrors	EP
Rear-view camera system	EP
Secondary engine shutdown switch (inside cab)	EP
Hydraulically controlled wet multiple-disc brakes and retarder	EP
Overrun warning and prevention system	EP
Overturn warning system	EP
Pedal-operated secondary brake	EP
Neutral coast inhibitor	EP
Emergency engine stop switch	EP
Step light	EP
Overload speed limiter	EP
Antilock brake system (ABS)	EP
Starter disconnect switch	EP
Body position alarm	EP

## LIGHTING SYSTEM

Back-up light	EP
Halogene headlights high and low beam	EP
Side lamps, left and right	EP
Fog lights	EP
LED stop and tail lights, turn indicator lights with hazard function	EP
Back work lights, left and right side	EP
Additional back-up light	EP

Further equipment on request