

# KOMATSU

## HD465-10



Photo may include optional equipment

### Mechanical truck

#### **Horsepower**

Gross: 818 HP (610 kW)

Net: 791 HP (590 kW)

#### **Nominal payload**

61.2 US tons (55.5 metric tons)

#### **Body capacity**

Heaped (SAE 2:1): 48.5 yd<sup>3</sup> (37.1 m<sup>3</sup>)

# Boosted productivity and efficiency

The HD465-10 rigid frame mechanical drive haul truck is purpose-built with quarry, aggregate and mining customers in mind. This model maintains the legendary reliability and durability reputation experienced by customers around the globe while integrating modern operator comfort and technology features. It can quickly descend grades to the loading area and haul material to the dumping area in less time than the prior model due to reduced empty vehicle weight and increased engine horsepower.

### High-performance Komatsu SAA6D170E-7 engine with 5.5% more horsepower and 9.5% more max torque than the prior model

- Larger radiator and demand fan
- High-efficiency, enlarged closed-loop cooling system
- Dual stage economy mode
- 3.8 yd<sup>3</sup> (2.9 m<sup>3</sup>) (+8.5%) increase in rated capacity (SAE 2:1 heaped) above the prior model
- Maintains the tight turning radius (28'7"/8,712 mm) of the prior model

### You can count on the HD465-10 to keep your operation moving

- New dump body design with higher tensile strength steel
- Integrated payload meter system
- Brake performance check procedure fully integrated in the machine monitor and Komtrax
- Maintenance-free batteries
- Lightweight resin wheel chocks





# Increased Operator Comfort Features

## New operator comfort features have been added in the cab to reduce fatigue throughout long shifts

- Full LED light package provides excellent visibility for operation in variable conditions
- Waiting brake automatically applies the brake retarder when the shift lever is put in neutral, helping reduce fatigue throughout the loading and dumping phases
- Hill start assist reduces potential rollback when starting from a stop on a slope
- Throttle lock enables the operator to set the engine speed for long uphill hauls
- Seat belt reminder system provides audible and visual reminders to the operator when the belt is not worn
- during operation, such as an externally illuminated mounted beacon
- Automatic retarder speed control (ARSC) system
- Komatsu Traction Control System (KTCS) system



## Stay in the know with Komtrax

The Komatsu wireless monitoring system lets you monitor all essential machine information on your computer, smartphone or tablet:

- Komtrax Plus
- Satellite and wireless LAN access
- Insightful operational data and reports
- Data that empowers proactive preventative maintenance

## Specifications

### Engine

Model	Komatsu SAA6D170E-7	
Type	Water-cooled, 4-cycle	
Aspiration	Variable geometry, turbo-charged, air-to-air after-cooled, cooled Exhaust Gas Recirculation (EGR)	
No. of cylinders	6	
Bore	6.69 in	170 mm
Stroke	6.69 in	170 mm
Piston displacement	1,413 in <sup>3</sup>	23.15 L
Engine power		
SAE J1995	Gross 818 HP (610 kW) @ 2,000 rpm	
ISO 14396/SAE J1995	Net 791 HP (590 kW) @ 2,000 rpm	
Fan drive type	Hydraulic	
Maximum torque	3,016 ft.-lbs.	417 kgf-m
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, pre-cleaner and evacuator valve	

\* EPA Tier 4 Final emission certified.

### Transmission

Torque converter	3-elements, 1-stage, 2-phase	
Transmission	Fully automatic, planetary type	
Speed range	7 speeds forward and 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	
Shift control	Electronic shift control with automatic clutch modulation in all gears	
Maximum travel speed	43.5 mph	70.0 km/h

### Axles

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

### Suspension system

Independent, hydropneumatic suspension cylinder with fixed throttle to dampen vibration		
Effective cylinder stroke (front suspension)	11.9 in	303 mm
Rear axle oscillation		
Oil stopper	6.8 in	173 mm
Mechanical stopper	7.7 in	196 mm

### Steering system

Type	Fully hydraulic power steering with two double-acting cylinders	
Supplementary steering	Manually controlled	
Minimum turning radius	28ft. 7 in	8.7 m
Maximum steering angle	39 degrees	

### Cab

Dimensions comply with ISO 3471 ROPS (rollover 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 brakes	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
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## Hydraulic system

Hoist cylinder	Twin, 2-stage telescopic type		
Relief pressure	2,988 psi	20.6 MPa	210 kgf-cm <sup>2</sup>
Hoist time	11.5 sec		

## Tires

Standard tires	24.00 R35
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## Service refill capacities

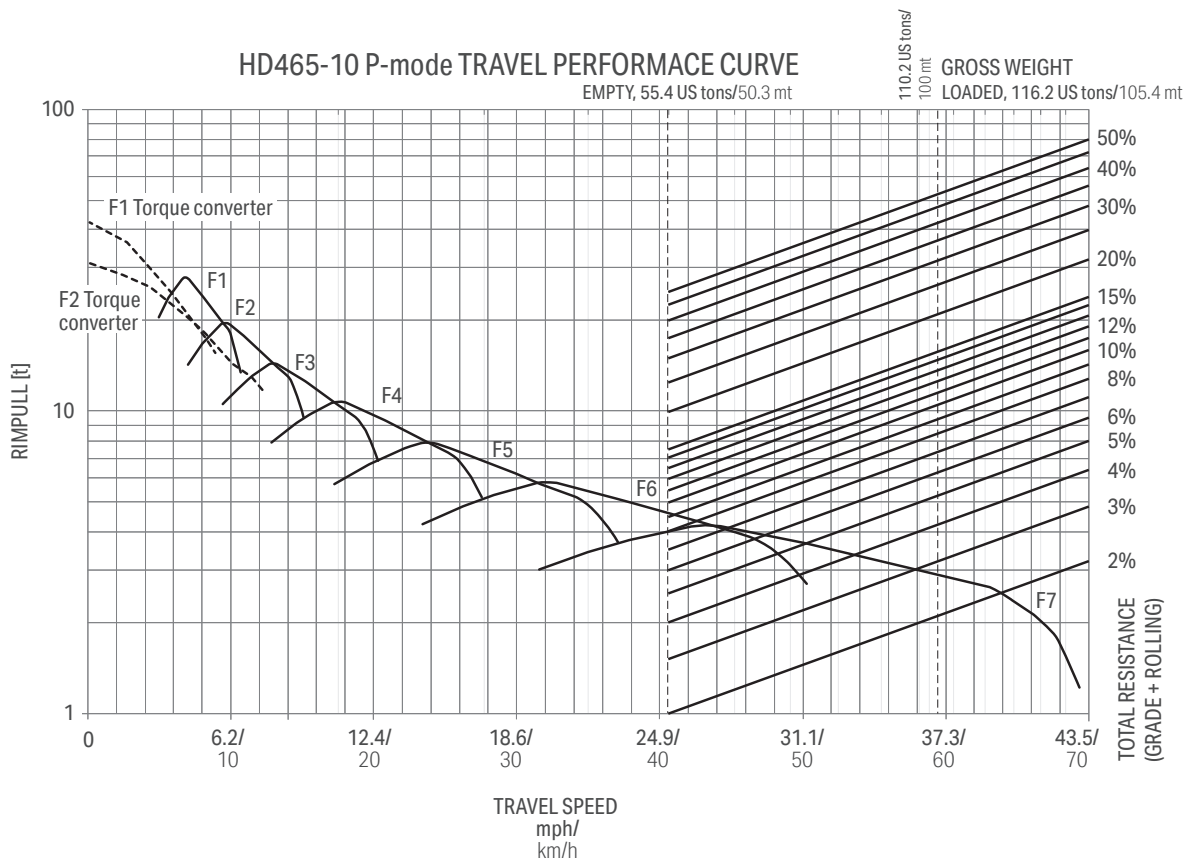
Fuel tank	211.3 gal	800 L
Engine oil	21.1 gal	80 L
Torque converter, transmission and retarder cooling	59.2 gal	224 L
Differential	25.1 gal	95 L
Final drives (total)	11.1 gal	42 L
Hydraulic system	39.4 gal	149 L
Suspension (total)	17.5 gal	66.2 L

## Body

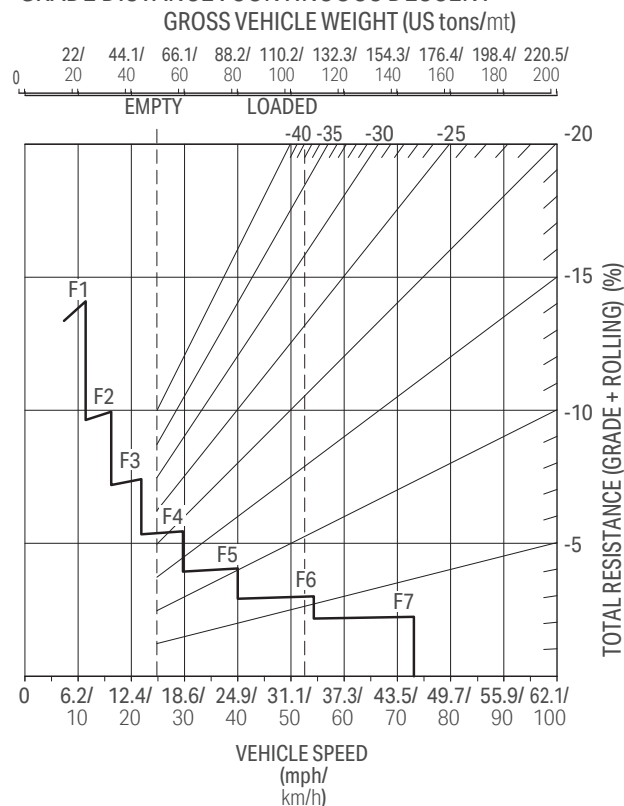
### General purpose body

		unlined		lined	
Capacity	Heaped capacity (2 : 1)	48.5 yd <sup>3</sup>	37.1 m <sup>3</sup>	47.7 yd <sup>3</sup>	36.5 m <sup>3</sup>
	Struck capacity	32.7 yd <sup>3</sup>	25 m <sup>3</sup>	32.3 yd <sup>3</sup>	24.7 m <sup>3</sup>
Target area		30.5 yd <sup>2</sup> /25.5 m <sup>2</sup> (21'2"/6,450 mm× 13'3,960 mm)			
Weight	Empty weight	110,011 lbs.	49,900 kg	119,040 lbs.	54,000 kg
	Nominal payload	122,357 lbs.	55,500 kg	113,318 lbs.	51,400 kg
	Gross vehicle weight	232,367 lbs.	105,400 kg	232,367 lbs.	105,400 kg
	Maximum payload (120 %)	146,828 lbs.	66,600 kg	136,025 lbs.	61,700 kg
	Max. gross vehicle weight (120 %)	256,839 lbs.	116,500 kg	255,975 lbs.	115,700 kg
Distribution (empty)	Front	54.2%		51.1%	
	Rear	45.8%		48.9%	
Distribution (Loaded) *nominal	Front	33.6%		33.5%	
	Rear	66.4%		66.5%	
Body (Liner) thickness	Bottom	.63"	16 mm	.63" (.63")	16 (16) mm
	Front	.35"	9 mm	.35" (.35")	9 (9) mm
	Side	.35"	9 mm	.35" (.35")	9 (9) mm
Body/liner material	Bottom	450 HB high tensile strength steel		General purpose body material +	
	Front				
	Side	450 HB high tensile strength steel		High tensile strength steel liner	





### GRADE DISTANCE : CONTINUOUS DESCENT



At ambient temperature 104 deg F/40 deg C  
 Retarder performance varies depending on ambient temperature.



# Standard equipment for base machine

## Engine and related components

Air cleaner, dry type, two stage
Auto idle shutdown
Automatic idling setting system (AISS)
Biodiesel fuel, B20
Body heat exhaust
Electric priming fuel pump
Engine, Komatsu SAA6D170E-7, 6-cylinder, turbocharged, air/air aftercooled, EGR cooled, diesel
Gross HP (SAE J1995): 818 HP (610 kW) @ 2,000 RPM
Net HP (ISO 9249/SAE J1349): 791 HP (590 kW) @ 2,000 RPM
Engine secondary shutdown switch
Fan, hydraulically driven, reversible
Komatsu Diesel Particulate Filter (KDPF) (qty. 2)
Mode selector switch (Power, Economy, Economy lite)
Radiator, lead-free, modular core

## Electrical system

Alternator, 100 ampere, 24 volt
Back-up alarm
Batteries, maintenance free, 4 x 12 volt, 160 Ah
Battery disconnect switch
Electric circuit breakers, 24V
Emergency stop switch, ground level
Horn, electric
Lights
Beacon lamp, amber
LED access ladder lamp
LED back-up lamp, rear
LED dump lamp
LED engine compartment lamp
LED fog lamps
LED head lamps, high and low beam
LED side working lamps, LH and RH
LED stop and tail lamps
LED turn signal/hazard warning, front and rear
Starter disconnect switch
Starting motors, 2 x 7.5 kW direct electric 24-volt

## Power train and controls

7-speed transmission, fully automatic with K-ATOMiCS
Brake cooling oil recovery tank
Front brake, caliper disc-type
Komatsu Traction Control System (KTCS)
Parking brake, integrated in rear brake
Rear brake, oil cooled, multiple disc, hydraulically controlled
Secondary brake, pedal actuated, variable
Skip shift function

## Operator environment

Cab with built-in ROPS/FOPS
12 volt outlet (qty. 2)
Automatic climate control system with cab pressurization
Body hoist control, electric
Cigarette lighter, 12-volt and ashtray
Dome light
Door, LH and RH
Lunch box and beverage holder
Machine monitor with 7-inch color LCD display
Operator seat, air suspension type, heated, ventilated with 3-point retractable seat belt (3" 75 mm wide lap belt, 2" 50 mm wide shoulder belt)
Power window, LH and RH
Radio, AM/FM with AUX, USB and Bluetooth inputs
Rear window electronic defrost
Rearview mirror, outside cab mount, heated (LH & RH)
Rearview monitoring system, dedicated monitor
Secondary steering system
Steering wheel, tilt and telescopic
Sun visor, screen
Tinted glass (Front: laminated glass)
Trainer seat, folding, with 2-point retractable seat belt (3" 75 mm wide)
Underview mirror
Wiper/washer front and rear, front intermittent

## Guard and cover group

Cab and platform guards
Catwalk with handrails, skid resistant
Driveline guards, front & rear
Engine underguard
Exhaust side covers
Exhaust thermal guard
Mud flaps
Rock ejector bar
Transmission underguard



## Other standard equipment

Anchor points, tie-off type (ISO 14567)
Angled front stairs with handrails
Automatic retard speed control (ARSC)
Centralized greasing points
Dump counter
Ecology guidance and ecology gauge
Fast fill coupler for fuel tank
Filler cap and cover lock
Front brake cut-off system
Haul road analysis system
Hill start assist
Hydropneumatic suspension (front & rear)
Komtrax Plus telematics package with integrated payload meter (PLM), satellite communication and Wireless LAN
KOWA sampling ports

Machine immobilization switch
Overload prevention alarm
Overrun warning and prevention
Overturn warning system
PM service connectors
Rims for 24.00 R35 tires (qty. 6)
Safety pins (qty. 2)
Seatbelt reminder system
Wheel chock, resin, with storage bracket (qty. 2)

## Optional equipment

Alternative exhaust configuration (RH side discharge)
Unlined dump body
Lined dump body
Michelin XTRA Load Grip tires
Bridgestone VRLS tires



## Notes

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