GROSS HORSEPOWER

386 kW 518 HP

NET HORSEPOWER

371 kW **498 HP**

MAXIMUM GVW 69280 kg 152,740 lb

HD 325

OFF-HIGHWAY TRUCK





HD325-7

With Tier 3 Engine

WALK-AROUND

Productivity Features

- High performance Komatsu SAA6D140E-5 engine Net horsepower 371 kW 498 HP
- Mode selection system (Variable Horsepower at Economy Mode)
- Automatic Idling Setting System (AISS)
- 7-speed, fully automatic K-ATOMiCS transmission
- Fully hydraulic controlled wet multiple-disc brakes and retarder; Retarder absorbing capacity (Continuous descent) 662 kW 887 HP
- Long wheelbase and wide tread
- Large high strength body Heaped capacity 24 m³ **31.4 yd³**
- Small turning radius 7.2 m 23'7"
- Automatic retard speed control (ARSC)(Option)
- Automatic spin regulator (ASR) (Option)

Easy Maintenance

- Advanced monitoring system
- Wet multiple-disk brakes and fully hydraulic braking system
- Extended oil change interval
- Centralized arrangement of filters
- Centralized greasing points
- Flanged type rim
- Electric circuit breakers
- Centralized greasing points

Environment Friendly

- Komatsu SAA6D140E-5 engine is North American EPA Tier 3 and EU Stage 3A emission certified
- Low operation noise
- Lead-free radiator

KOMATSU

• Brake cooling oil recovery tank

KØMTRAX

Komtrax equipped machines can send location, SMR and operation maps to a secure website utilizing wireless technology. Machines also relay error codes, cautions, maintenance items, fuel levels, and much more.

OFF-HIGHWAY TRUCK

HD325-7

GROSS HORSEPOWER 386 kW 518 HP @ 2000 rpm

NET HORSEPOWER 371 kW 498 HP @ 2000 rpm

MAXIMUM GVW 69280 kg 152,740 lb



Operator Environment

- Wide, spacious cab with excellent visibility
- Ergonomically designed cab
- Easy-to-see instrument panel
- Ideal driving position settings
- K-ATOMiCS with "Skip-Shift" function
- Hydropneumatic suspension
- Built-in ROPS/FOPS Level 2
- Viscous cab mounts
- Electric body dump control lever
- Supplementary steering and secondary brakes
- AM/FM radio with cassette



Photo may include optional equipment.

PRODUCTIVITY FEATURES

Komatsu Technology



Komatsu's new "ecot3" engines are designed to deliver optimum performance under the toughest of conditions while meeting the latest environmental regulations. This engine is Tier 3 EPA, EU Stage 3A and Japan emissions certified. "ecot3" – ecology and economy combined with Komatsu technology to create a high performance engine without sacrificing power or productivity.

High performance Komatsu SAA6D140E-5 engine

This engine delivers faster acceleration and higher travel speeds with high horsepower per ton. Advanced technology, such as Common Rail Injection system (CRI), air-to-air aftercooler, efficient turbo-charger, and heavyduty cooled EGR enables the engine to be North American EPA Tier 3 and EU stage 3A emission certified. High torque at low speed, impressive acceleration, and low fuel consumption ensure maximum productivity.

Mode selection system

The system allows selection of the appropriate mode between <Power mode > or <Economy mode> according to each working condition. The mode is easily selected with a switch in the operator's cab.

Power mode

Great productivity can be attained by taking full advantage of high output power. It is appropriate for job sites where larger production uphill-hauling is required.

Economy mode (variable horsepower)

The engine power automatically changes depending on loaded or unloaded conditions always to use an optimum gear speed. It is appropriate for light work on flat ground.

Automatic Idling Setting System (AISS)

This system facilitates quick engine warm-up and cab cooling/warming. When setting the system ON, engine idle speed is kept at 945 rpm when coolant

temperature is 50°C **122°F** or lower. Speed automatically returns to 725 rpm when coolant temperature reaches 50°C **122°F**.



7-speed, fully automatic K-ATOMiCS transmission

The K-ATOMiCS (Komatsu Advanced Transmission with

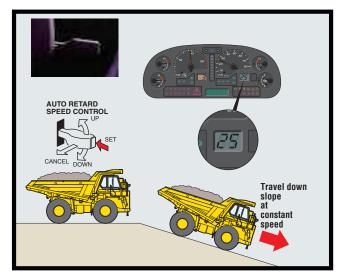
Optimum Modulation Control System) automatically selects the optimum gear according to vehicle speed, engine speed and the shift position you've chosen. This results in the best gear for any driving situation.



K-ATOMICS (Komatsu Advanced Transmission with Optimum Modulation Control System)

Automatic Retard Speed Control (ARSC)(Option)

ARSC allows the operator to simply set the downhill travel speed and go down slopes at a constant speed. As a result, the operator can concentrate on steering. The speed can be set at increments of 1 km/h **0.6 MPH** per click (±5 km/h **3.1 MPH** of maximum speed adjustment) to match the optimum speed for the slope. Also, since the retarder cooling oil temperature is always monitored, the speed is automatically lowered.





Fully hydraulic controlled wet multiple-disc brakes and retarder

Wet multiple-disc brakes ensure highly reliable and stable brake performance. The large-capacity, continuously cooled, wet-multiple disc brakes also function as a highly responsive retarder which gives the operator greater

confidence at higher speeds when travelling downhill.

- Retarder Absorbing Capacity (continuous descent): 662 kW
 887 HP
- Brake Surface Area (rear): 50847 cm² **7,881 in**²

Long wheelbase and wide tread

With an extra-long wheelbase, a wide tread and an exceptionally low center of gravity, the HD325-7 hauls the load at higher speed for more production, and delivers superior driving comfort over rough terrain.

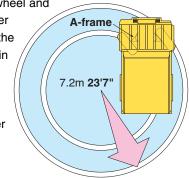
Large high strength body

A wide target area makes for easy loading with minimal soil spillage and more efficient hauling. The body is built of 130 kg/mm² **184,900 PSI** wear-resistant high-tensile steel with a Brinell hardness of 400. The V-shape design also increases structural strength and provides excellent load stability.

Small turning radius

The MacPherson strut type front suspension has a special A-frame 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 this turning angle, the smaller the turning radius of the truck.



Automatic Spin Regulator (ASR) (Optional)

ASR automatically maximizes traction by preventing the rear tires from slipping on either side.



OPERATOR ENVIRONMENT

Wide, spacious cab with excellent visibility

Wide windows in the front, side and back, plus plenty of space in the richly upholstered interior, provide quiet, comfortable environment from which to see and control every aspect of operation. Front and side under view mirrors have also been added.

Ergonomically designed cab

The ergonomically designed operator's compartment makes it very easy and comfortable for the operator to use all the controls. The result is more confident operation and greater productivity.

Easy-to-see instrument panel

The instrument panel makes it easy to monitor critical machine functions. In addition, a caution light warns the operator of any problems that may occur. Problems are recorded in the monitor and indicated as service codes. This makes the machine user friendly and easy to service.

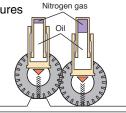
Ideal driving position settings

The 5-way adjustable operator seat and the tilt-telescopic steering column create an optimum driving posture for increased driving comfort and more control over the machine's operations. The suspension seat dampens vibrations transmitted from the machine, which reduces operator fatigue and holds the operator securely to assure confident operation. 78 mm **3**" width seat belt is provided as standard equipment.



Hydropneumatic suspension for all terrains

The hydropneumatic suspension assures a comfortable ride even over rough terrain and ensures maximum productivity and operator confidence.





OFF-HIGHWAY TRUCK

HD325-7

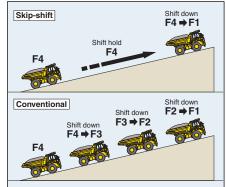
K-ATOMiCS with "Skip-shift" function

An electronically controlled valve is provided for each clutch pack in the transmission for independent clutch engagement/ disengagement. It enables an ideal change in clutch modulation pressure and torque cut-off timing in response to travel conditions. This system and newly added "skip-shift" function ensure smooth shifting and responsive acceleration.

"Skip-shift" function

Optimum travel speed

automatically selected in response to angle of ascent. This reduces the downshift frequency and provides smoother operation.



Built-in ROPS/FOPS Level 2

These structures conform to ISO3471 and SAE J1040 ROPS standards and ISO 3449 and SAE J231 FOPS level 2 standards.



Viscous cab mounts

Viscous mounts reduce the noise transmitted to the cab and achieve a quiet 77 dB(A) noise level.

Electric body dump control lever

The low effort lever makes dumping easy. A positioning sensor is installed for dump body control which significantly reduces the shock made by the lowering of the dump body.



Supplementary steering and secondary brakes

Supplementary steering and secondary brakes are standard features. Steering: ISO 5010, SAE J1511, SAE J53 Brakes: ISO 3450, SAE J1473



RELIABILITY FEATURES

Komatsu components

Komatsu manufactures the engine, torque converter, transmission, hydraulic units, and electrical parts on this dump truck. Komatsu dump trucks are manufactured with an integrated production system under a strict quality control system.

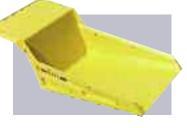
High-rigidity frame

Cast-steel components are used in the main frame for high-stress areas where loads and shocks are most concentrated.

Rigorous dump body design

The standard dump body is made of 130 kg/mm² **184,900 PSI** high-tensile-strength steel for excellent rigidity and reduced

maintenance cost. The V-shape design also increases structural strength. The side and bottom plates of the dump section are reinforced with ribs for added strength.



Reliable hydraulic system

The oil cooler is installed in the radiator lower tank, improving the reliability of the hydraulic system during sudden temperature rises. In addition to the main filter, a 25-micron line filter is installed at the entrance to the transmission control valve. This system helps to prevent secondary faults.

Sealed DT connectors

Main harnesses and controller connectors are equipped with sealed DT connectors providing high reliability, water resistance, and dust resistance.



Pedal-operated secondary brake

If there should be a failure in the foot brake, the parking

brake and front disc brakes are activated as pedal operated secondary brake. In addition, when hydraulic pressure drops below the rated level, the parking brake is automatically actuated.



Lead-free radiator

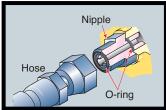
In addition to compliance with emission regulations, a leadfree aluminum core is utilized for the radiator to comply with global environmental requirements.

Brake cooling oil recovery tank

To protect the environment, a tank is installed to recover brake cooling oil in the event of brake floating seal leakage.

Flat face-to-face O-ring seals

Flat face-to-face O-ring seals are used to securely seal all hydraulic hose connections and to prevent oil leakage.



Protection

by electronic control

Item	Function
Downshift inhibitor	Even if the driver downshifts accidentally, a speed appropriate to the current gear is automatically set, preventing over-runs.
Over-run inhibitor	When descending grades, if vehicle's speed surpasses maximum for current gear, rear brakes automatically operate, preventing over-runs.
Reverse inhibitor	The vehicle is prevented from moving backward when operating the body.
Forward/Reverse shift inhibitor	This device makes it impossible to shift from forward to reverse when the vehicle's speed surpasses 4 km/hr 2.5 mph.
Anti-hunting system	When running near a shift point, a smooth automatic shifting takes place.
Neutral engine start system	The engine is prevented from starting when the shift lever is not in neutral.

HD325-7

EASY MAINTENANCE

Advanced monitoring system

The Komatsu advanced monitoring system identifies maintenance items, reduces diagnostic times, indicates oil and filter replacement hours and displays abnormality codes. This monitor system helps to maximize machine production time.



Wet multi-disc brakes and fully hydraulic braking

systems mean lower maintenance costs and higher reliability. Wet disc brakes are fully sealed to keep contaminants out, reducing wear and maintenance. Brakes require no adjustments for wear, leading to even lower maintenance. Added reliability is designed in the braking system with three independent hydraulic circuits providing hydraulic backup should one of the circuits fail. Fully hydraulic braking systems eliminate the air system so air bleeding is not required and water condensation, that can lead to contamination, corrosion and freezing, is eliminated.

Extended oil change intervals

In order to minimize operating costs, oil change intervals have been extended:

- Engine oil: 500 hours
- Hydraulic oil: 4,000 hours

Centralized arrangement of filters

The filters are centralized so that they can be serviced easily.





Flange type rim

Flange type rims provide easy removal/installation of tires.



Electric circuit breaker

A circuit breaker is used in important electric circuits that need to be restored quickly time when a problem occurs in the electrical system.

Centralized greasing points (Option)

Greasing points are centralized at three locations.







Specifications



Model Type Aspiration Turbo-charged, air	
Number of cylinders	
Bore x stroke	
Piston displacement	15.24 ltr. 930 in ³
Horsepower	
SAE J1995	Gross 386 kW 518 HP
ISO 9249 /SAE J1349	Net 371 kW 498 HP
Rated rpm	
Fan drive type	
Maximum torque	. 2167 N·m 221 kg·m 1,600 lb·ft
Fuel system.	Direct injection
Governor	
Lubrication system :	-
Method	Gear pump, force-lubrication
Filter	Full-flow type
Air cleaner	
	d precleaner, plus dust indicator

EPA Tier 3 and EU Stage 3A emission certified.

TRANSMISSION

Torque converter	
Transmission	Full-automatic, planetary type
Speed range	
Lockup clutch	Wet, single-disk 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	

XLES

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

SUSPENSION SYSTEM

Independent, hydropneumatic suspension cylinder with fixed throttle to dampen vibration
Effective cylinder stroke (front suspension)
Rear axle oscillation:
Oil stopper
Mechanical stopper 8.1°

STEERING SYSTEM

Туре	Fully hydraulic power steering
	with two double-acting cylinder
Supplementary steering	
(me	ets ISO 5010, SAE J1511 and SAE J53)
Minimum turning radius	
Maximum steering angle	

САВ

Dimensions comply with ISO 3471 and SAE J1040-1988c ROPS (Roll-Over Protective Structure) standards.



Туре Box-sectioned structure



Brakes meet ISO 3450 and SAE 1473 standards.

Service brakes:
Front
Rear full-hydraulic, oil-cooled, multiple-disc type
Parking brake Spring applied, multiple-disc type
Retarder Oil-cooled, multiple-disc rear brakes act as retarder
Secondary brake Manual pedal operation
When hydraulic pressure drops below the rated level,
parking brake is automatically actuated
Brake surface
Front
Rear
BODY

	ć	
Povload	30 (2:1, SAE)	
Fayload		32 metric tons 35 U.S. tons
Materia	1130 kg/mm² 184,860 psi	
		high-tensile-strength steel
Structur	re	V-shape body
Materia	l thickness:	
Botton	n	19 mm 0.75 "
Front		
Sides		9 mm 0.35 "
Target a	area	
(insid	de length x width) 550	0 mm x 3380 mm 18'1" x 11'1"
		7925 mm 26'0"
		Exhaust heating
	-	



Hoist cylinder	Twin, 2-stage telescopic type
Relief pressure	20.6 MPa 210 kg/cm ² 2,990 psi
Hoist time	

W

WEIGHT (APPROXIMATE)
Empty weight
Gross vehicle weight with 32 metric ton (35 U.S.ton) payload
Max. gross vehicle weight:
Standard tire 69280 kg 152,740 lb
Not to exceed max. gross vehicle weight, including options, fuel
and payload
Weight distribution:

	tribution:	
Empty:	Front axle	51.7%
	Rear axle	48.3%
Loaded	: Front axle	33%
	Rear axle	67%

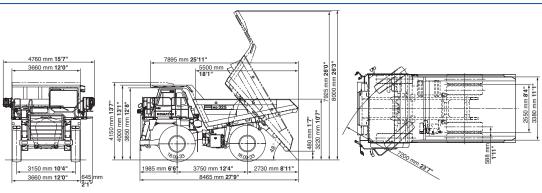
0 TIRES

SERVICE REFILL CAPACITIES

Fuel tank .484 ltr.' Engine oil .50 ltr. Torgue converter, transmission and	
retarder cooling	11.9 U.S. Gal 7.9 U.S. Gal 34.1 U.S. Gal

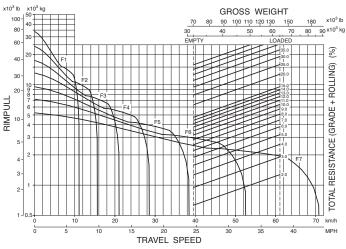
OFF-HIGHWAY TRUCK

DIMENSIONS



TRAVEL PERFORMANCE

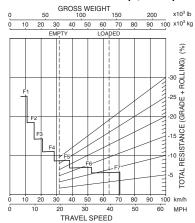
To determine travel performance: Read from gross weight down to the percent of total resistance. From this weight resistance point, read horizontally to the curve with the highest obtainable speed range, then down to maximum speed. Usable rimpull depends upon traction available and weight on drive wheels.



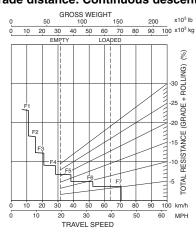
BRAKE PERFORMANCE

To determine brake performance: These curves are provided to establish the maximum speed and gearshift position for descents on roads with a given distance. Read from gross weight down to the percent of total resistance. From this weight-resistance point, read horizontally to the curve with the highest obtainable speed range, then down to maximum descent speed the brakes can handle without exceeding cooling capacity.

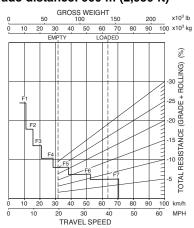
Grade distance: 600 m (1,970 ft)

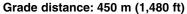


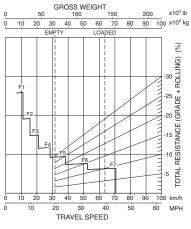
Grade distance: Continuous descent



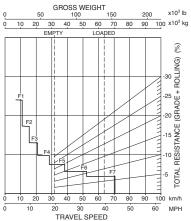
Grade distance: 900 m (2,950 ft)







Grade distance: 1500 m (4,920 ft)



STANDARD EQUIPMENT

ENGINE:

- AISS (Automatic Idling Setting System)
- Alternator, 75A/24V
- Batteries, 2 x 12V/170Ah
- Engine, Komatsu SAA6D140E-5 ٠
- Starting motor, 1 x 11.0 kW •
- Variable horsepower system

CAB:

- 12V outlet port
- Air conditioners/heater/defroster, electronically controlled
- Ashtray
- Cigarette lighter
- Cup holder •
- Electronic hoist control system •
- Electronic maintenance . display/monitoring system
- Operator seat, reclining, suspension type with retractable 78 mm 3" width seat belt
- Passenger seat with retractable 78 mm 3" width seat belt
- Power windows (LH)

- ROPS cab with FOPS level 2, sound • suppression type
- Radio, AM/FM with cassette
- Space for lunch box
- Steering wheel, tilt and telescopic .
- Sunvisor •
- Tinted glass
- Two doors, left and right
- Windshield washer and wiper • (with intermittent feature)

LIGHTING SYSTEM:

- Back-up light ٠
- Hazard lights •
- Headlights with dimmer switch
- Indicator, stop and tail lights

GUARD AND COVERS:

- Drive shaft guard (front and rear)
- Engine and transmission underguards •
- Exhaust thermal guard ٠
- Fire protective covers
- Tire guards

OPTIONAL EQUIPMENT

CAB:

· Seat, air suspension

BODY

- Spill guard, 150 mm 6" [90 kg 200 lb]

- 18.00-33-32PR
- 18.00 R33

OTHER:

OTHER:

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Alarm, backup

Horn, electric

Side markers

KOMTRAX®

RH, LH

Catwalk with hand rails

Hand rails for platform

Electric circuit breaker, 24V

Front brake cut-off system

Overrun warning system

Coolant temperature alarm and light

Ladders, left and right hand side

Supplementary steering, automatic

Rearview mirrors and underview mirrors

- Automatic Retard Speed Control (ARSC)
- Automatic Spin Regulator (ASR)
- · Gas charge tool
- Muffler (no body heating type)

Standard equipment may vary for each country. This specification sheet may contain attachments and optional equipment that are not available in your area. Please consult your Komatsu distributor for detailed information.



KOM

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D06(5M) C

6/06(EV-4)



- Fog lights • Work light, RH and LH side
- LIGHTING SYSTEM:

- 24 m³ 31.4 yd³ body w/o liner
- 24 m³ 31.4 yd³ rock body w/ liner

TIRES:

GUARD:

• Platform guard, Right hand side [35 kg 80 lb]