# KOMATSU

HD325-7 HD405-7 **ENGINE POWER** 

386 kW / 518 HP @ 2.000 rpm

**MAXIMUM GVW** 

HD325-7: 69.900 kg HD405-7: 75.500 kg

**BODY CAPACITY, HEAPED** 

HD325-7: 24,0 m<sup>3</sup> HD405-7: 27,3 m<sup>3</sup>

HD 325 405



Off-Highway Truck

HD325-7 / HD405-7

## WALK-AROUND

#### **Productivity features**

- High performance Komatsu SAA6D140E-5 engine
- Variable horsepower control at Economy mode
- Automatic Idling Setting System (AISS)
- · Hydraulically controlled wet multiple-disc brakes and retarder
- Auto Retard Speed Control (ARSC)
- High strength body
- Minimum turning radius: 7,2 m
- ASR (Automatic Spin Regulator) (Option)
- PLM II (Memory card type payload meter) (Option)



#### Komatsu SAA6D140E-5

engine with high pressure common rail injection delivers ample power in a fuel efficient way. The engine meets EU Stage IIIA and EPA Tier III emissions regulations.



#### **Environment-friendly**

- · Low operating noise
- Low fuel consumption
- · Lead-free radiator
- Brake cooling oil recovery tank

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#### **BODY CAPACITY, HEAPED**

HD325-7: 24,0 m<sup>3</sup> HD405-7: 27,3 m<sup>3</sup>

#### **Operator environment**

- · Wide, spacious cab with excellent visibility
- Ergonomically designed cab
- Easy-to-see instrument panel
- Air suspension seat
- Tiltable, telescoping steering wheel and low effort pedals
- · Electric body dump control lever
- K-ATOMiCS transmission with "Skip-Shift" function
- Hydropneumatic suspension for all terrains
- Viscous cab mounts
- Built-in ROPS/FOPS
- Supplementary steering (Automatic)
- · Pedal-operated secondary brakes
- Three-mode hydropneumatic suspension (auto-suspension) (Option)
- Front stairway with handrails

#### Reliability features

- Fully hydraulic brake system
- Reliable Komatsu manufactured major components
- High-rigidity frame
- Wet multiple-disc brakes
- Flat face-to-face O-ring seals
- Sealed DT-connectors
- Highly reliable hydraulic system



#### Easy maintenance

- · Long oil change interval
- · Centralized greasing points
- · Centralized arrangement of filters
- Flanged type rims
- KOMTRAX™ Komatsu Tracking System

## **PRODUCTIVITY FEATURES**



High performance SAA6D140E-5 engine

#### **Electronic control system**

Komatsu's electronic control system monitors the vehicle performance, optimizing emissions, fuel efficiency and noise levels, even under extreme conditions.

## Heavy duty HPCR system (High Pressure Common Rail fuel injection)

A high pressure pump pumps fuel into an accumulator chamber or 'Common Rail'. An ECU (electronic control unit) then optimizes fuel injection from the common rail into the engine cylinders. This improves engine power and fuel efficiency, reducing emission and noise levels.

## Heavy-duty cooled EGR system (Exhaust Gas Recirculation)

Cooled exhaust gas returned to the cylinders prevents nitrogen and oxygen bonding during combustion, reducing NOx emissions, lowering thermal stress and improving fuel efficiency.

#### Air-to-air charge air cooling system

By cooling the compressed air supplied by the turbocharger to the cylinders, this system optimizes combustion efficiency, reduces emissions and improves engine performance.

#### **New combustion system**

Our new combustion system optimises combustion timing and ignition. Thanks to extensive computer simulations and analyses, its specially designed combustion chamber reduces NOx and particulates emissions, fuel consumption and noise levels.

#### Engine power mode selection system

The system allows selection of the appropriate mode between two modes "Power mode" or "Economy mode" according to each working condition. The mode is easily selected using 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 large production on an uphill haul is required.

Economy mode (Variable horsepower control)
Engine speeds of the maximum output, downshift, and upshift are set to a lower level. It is suitable for light work on a flat haul.

### 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. The result: the best gear for any driving situation.



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

### Hydraulically 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 (rear):
   50.847 cm<sup>2</sup>

#### **Automatic Idling Setting System (AISS)**

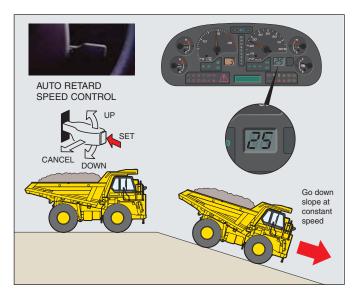


This system facilitates quick engine warmup and cab cooling/warming. When setting the system ON, engine idle speed is kept at 945 rpm when coolant temperature is 50 °C

or lower. Speed automatically returns to 750 rpm when coolant temperature reaches 50 °C.

#### **Auto Retard Speed Control (ARSC)**

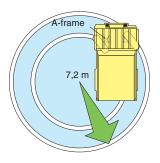
ARSC allows the operator to simply set the downhill travel speed and go down slopes at a constant speed. As a result, the operator can concentrate on steering. The speed can be set at increments of 1 km/h per click to match the optimum speed for the slope. Also, when it is predicted that the retarder oil temperature becomes overheated, since the retarder oil temperature is always monitored, operator is informed this by warning lamp.





#### **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.



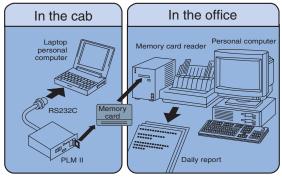


#### **ASR (Automatic Spin Regulator) (Option)**

ASR automatically prevents the rear tyres on either side from slipping on soft ground for optimal traction. The steering angle is monitored in order to ensure smooth turning.

### PLM II (Memory card type payload meter) (Option)

PLM II allows the production volume and the working conditions on the dump truck to be analyzed and controlled directly via a personal computer. The system can store up to 2.900 working cycles.



Note: The memory card, card reader and software for data processing are available as options.

## **OPERATOR ENVIRONMENT**

#### Wide, spacious cab with excellent visibility

The wide cab provides a comfortable space for the operator and a full size trainer's seat. A large electrically operated window and the operator's seat positioned on the left hand side ensures superior visibility.

#### 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 by operators and greater productivity. A rear view camera and monitor system is supplied as standard.



#### 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. This Komatsu on-board monitoring system makes the machine very friendly and easy to service.

#### Air suspension seat is standard

The air suspension, fabric-covered seat which is adjustable to the operator's weight is provided as standard. The air suspension seat dampens vibrations transmitted from the machine and reduces operator fatigue as well as holding the operator securely to assure confident operation.

#### Steering wheel and pedals

Low effort pedals reduce operator fatigue when working continuously for long periods. The tiltable, telescoping steering column enables operators to maintain an optimum driving position at all times.

#### Electric body dump control lever

The low effort lever makes dumping easier than ever.

A positioning sensor is installed for dump body control which significantly reduces the shock made by the lowering of the dump body.



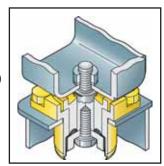


#### K-ATOMiCS with "Skip-Shift" function

The K-ATOMiCS (Komatsu Advanced Transmission with Optimum Modulation Control System) ensures proper clutch modulation pressure when the clutch is engaged. The total control system controls both the engine and transmission by monitoring the vehicle conditions. This system and newly added "skip-shift" function ensure smooth shifting and responsive acceleration.

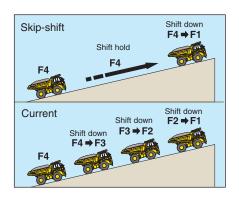


Viscous mounts reduce the noise transmitted to the cab and achieve a quiet 78 dB(A) noise level



#### "Skip-shift" function

The optimum travel speed automatically selected in response to the angle of ascent. Reduced frequency of down shifts and smoother operation are provided.



#### **Built-in ROPS/FOPS**

These structures conform to ISO 3471 and SAE J1040 standards and ISO 3449 and SAE J231 FOPS standards.



#### Supplementary steering and secondary brakes

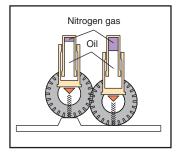
Supplementary steering and secondary brakes are standard features.

Steering: ISO 5010, SAE J1511, SAE J53

Brakes: ISO 3450, SAE J1473

### Hydro-pneumatic suspension for all terrains

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



### Three-mode hydropneumatic suspension (Auto-suspension) (Option)

For a comfortable and stable ride, the suspension mode is automatically switched to one of three stages (soft, medium and hard) according to load and operating conditions.



#### **Stairway**

A stairway at the front of the radiator grill simplifies such everyday operations as getting on and off the machine.

## ADVANCED MONITORING SYSTEM

#### Availability rate with vehicle monitoring system

The electronic display panel shows current vehicle condition and how to fix them with action codes and check results with service codes. Thus, vehicle management is easier and the working rate is higher. At the same time the monitoring data is saved to be used for later troubleshooting.

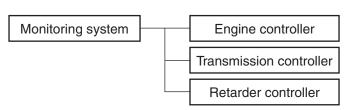


### **Equipment Management Monitoring System (EMMS)**



This window is normally used as the service meter/ odometer. If the dump truck has any abnormality or needs to be inspected or serviced, a message of proper remedy and an action code are displayed in this window. Each time the starting switch is turned on, the system is checked. If any filter or oil needs to be replaced at this time, the maintenance caution lamp flashes or lights up and the filter or oil to be replaced is displayed. If any abnormality occurs in the dump truck, a message is dispayed on the character diplay to notify the operator of what action to take. Accordingly, the operator can take that action immediately. The abnormality is displayed as a fault code on the character display and stored so that it will be available for quick troubleshooting to shorten downtime.

#### Monitoring network







## EASY MAINTENANCE



## Centralized greasing points

Greasing points are centralized at three locations.

#### Flange type rims

Flange type rims provide easy removal/installation of the tyres.



#### Centralized arrangement of filters

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





#### Electric circuit breaker

A circuit breaker is adopted in important electric circuits that should be restored in a short time when a problem occurs in the electrical system.



#### **Extended service intervals**

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

- Engine oil 500 hours
- Hydraulic oil 4.000 hours



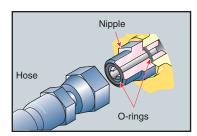
### RELIABILITY FEATURES

#### Komatsu components

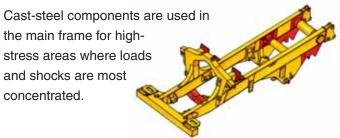
Komatsu manufactures the engine, torque converter, transmission, hydraulic units, and electrical parts on this dump truck. Komatsu dump trucks are manufactured with an integrated production system under a strict quality control system.

#### 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.



#### **High-rigidity frames**



#### **Sealed DT-connectors**

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



### Wet multiple-disc brakes and fully hydraulic braking system

For lower maintenance costs and higher reliability. Wet disc brakes are fully sealed. Contaminants are kept out, reducing wear and maintenance. Brakes require no adjustments for wear, meaning even lower maintenance. The new parking brake is also an adjustment- free, wet multiple-disc for high reliability and long life. Added reliability is designed into the braking system by the use of three independent hydraulic circuits. Provides hydraulic backup should one of the circuits fail. Fully hydraulic brakes system means no air system to bleed, or condensation of water that can lead to contamination, corrosion, and freezing.

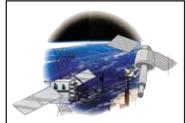
#### Reliable hydraulic system

A large capacity oil cooler is installed in each hydraulic circuit, improving the reliability of the hydraulic units during sudden temperature rises. Further, in addition to the main filter, a 10-micron line filter is located at the entrance to the transmission control valve. This system helps to prevent secondary faults.

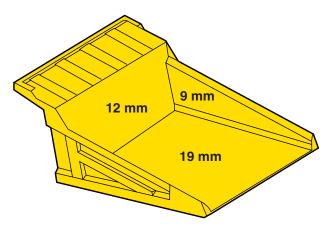
#### KOMTRAX™ Komatsu Tracking System

The Komatsu Tracking System, KOMTRAX™, provides a revolutionary new way to monitor your equipment, anytime, anywhere. It lets you pin-point the precise location of your machines and obtain real-time ma-

chine data. Using GPS transmitter and satellite technology, it's designed to be future proof and will meet your demands today and tomorrow.



### HD325-7: High-strength body



The body is built of 130 kg/mm² wear-resistant hightensile steel with a Brinell hardness of 400. The V-shape design also increases structural strength, and provides excellent load stability.

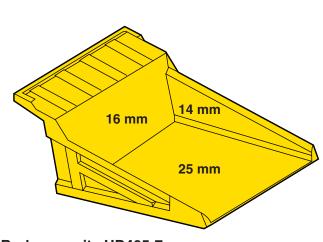
#### **Body capacity HD325-7**

Struck: 18,0 m<sup>3</sup> Heaped 3:1: 21,5 m<sup>3</sup> Heaped 2:1 SAE: 24,0 m<sup>3</sup>



### HD405-7: Ultra-hard, wear-resistant, high-tensilestrength steel plates

Komatsu and leading European and Japanese steel makers have developed a new ultra-hard, wear-resistant steel with a tensile strength of 145 kg/mm², making it the hardest and most wear-resistant steel ever developed for dump truck bodies. The material is up to 12,5% harder than that used in previous Komatsu dump trucks, with about two times the hardness of widely used liner materials and a Brinell hardness rating of 450. By adopting the material in thicker plates, we have enhanced both productivity and durability. Further, our dump trucks have large capacity bodies, ideal front and rear weight balance on tyres and high maximum loading capacities.



#### **Body capacity HD405-7**

Struck: 20,0 m³ Heaped 3:1: 24,5 m³ Heaped 2:1 SAE: 27,3 m³



## **SPECIFICATIONS HD325-7**



#### ENGINE

ModelKomatsu SAA6D140E-5
Type Common rail direct injection, water-cooled,
turbocharged, after-cooled, cooled EGR diesel
Engine power
at rated engine speed2.000 rpm
ISO 14396386 kW / 518 HP
ISO 9249 (net engine power)371 kW / 498 HP
No. of cylinders6
Bore $\times$ stroke
Displacement
Max. torque2.167 Nm/221 kgf·m
Governor Electronically controlled
Lubrication system:
Lubrication method Gear pump, force lubrication
FilterFull flow
Air filterDry type with double elements and precleaner
(cyclonpack type), plus dust indicator



#### **TRANSMISSION**

Torque converter	3-elements, 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 lockup and all higher gears
Reverse	Torque converter drive
Shift control	Electronic shift control with automatic
	clutch modulation in all gears
Max. travel speed	



#### AYI ES

Final drive type	
Ratios:	
Differential	3,125
Planetary	4,737



#### **SUSPENSION**

Mechanical stopper......8,1°



#### STEERING SYSTEM

TypeFully hydraulic power	steering	
with two double-acting	cylinders	
Supplementary steering Automatically and manually controlled		
(meets ISO 5010, SAE J1511 and S	SAE J53)	
Minimum turning radius, centre of front tyre	7,2 m	
Maximum steering angle (outside tyre)	43°	



#### RRAKES

Brakes meet ISO 3450 and SAE J1473 standards.

Service brakes:

Front	Full-hydra	ulic control, caliper disc type	
Rear	Full-hydraulic control,	oil-cooled multiple-disc type	
Parking brake	Sprir	ng applied, multiple-disc type	
Retarder	Oil-cooled, multiple-dis-	c rear brakes act as retarder.	
Retarder capacity	(continuous)	662 kW / 887 HP	
Secondary brakeA relay valve automatically actuates the service			
brakes v	when hydraulic pressure	e drops below the rated level.	
	Manu	al operation is also possible.	

Bra	ake	sur	lace:	

FIOIIL	908	CITI
Rear	0.847	cm <sup>2</sup>



#### **HYDRAULIC SYSTEM**

Hoist cylinder	. Twin, 2-stage telescopic type
Relief pressure	20,6 MPa/210 kg/cm <sup>2</sup>
Hoist time (at high idle)	10 sec
Lowing time (float)	10 sec



#### CAR

Dimensions comply with ISO 3471 and SAE J1040-1988c ROPS (Roll-Over Protective Structure) standards and ISO 3449 and SAE J231 FOPS (Falling Object Protective Structure) standard.



#### **MAIN FRAME**

Type ...... Box-sectioned construction



#### **TYRES**

Standard tyres ......18.00 R33



#### BODY

Capacity:	
Struck	18,0 m³
Heaped (3:1)	21,5 m³
Heaped (2:1, SAE)	24,0 m³
Payload	36,5 metric tons
Material	130 kg/mm²
400	D Brinell high tensile strength steel
Material thickness:	
	19 mm
Front	12 mm
Sides	9 mm
Target area (inside length × width)	5.500 mm × 3.380 mm
Dumping angle	48°
Height at full dump	
Heating	Exhaust heating



#### **ENVIRONMENT**

Engine emissions	Fully complies with EU Stage IIIA
	and EPA Tier III exhaust emission regulations
Noise levels:	
LpA operator ear	78 dB(A) (ISO 6396 dynamic test)
LwA external	110 dB(A) (2000/14/EC Stage II)
Vibration levels (EN 120	)96:1997)*
Hand/arm	$\leq 2.5 \text{ m/s}^2 \text{ (uncertainty K = 0.68 m/s}^2)$

Body.....  $\leq 0.5 \text{ m/s}^2 \text{ (uncertainty K = 0.29 m/s}^2\text{)}$ 

 $^{\star}$  for the purpose of risk assessment under directive 2002/44/EC, please refer to ISO/TR 25398:2006.



#### **WEIGHT (APPROX.)**

Empty weight	33.400 kg
Gross vehicle weight	
Not to exceed max. gross vehicle weight, including options	, fuel and
payload.	
Weight distribution	
Empty:	
Front axle	54,2%
Rear axle	45,8%
Loaded:	
Front axle	34,6%
Rear axle	65.4%

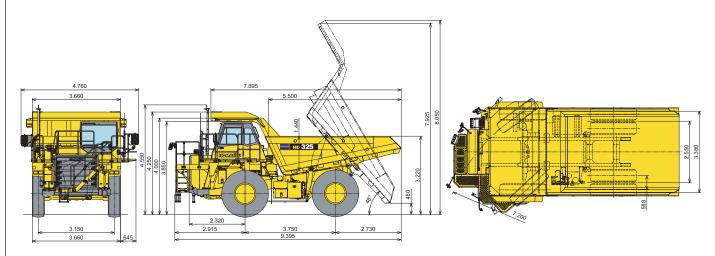


#### SERVICE REFILL CAPACITIES

Fuel tank	484 ltr
Engine oil	50 ltr
Torque converter, transmission and retarder cooling	90 ltr
Differentials (total)	45 ltr
Final drives (total)	30 ltr
Hydraulic system	129 ltr
Suspension (total)	44,2 ltr

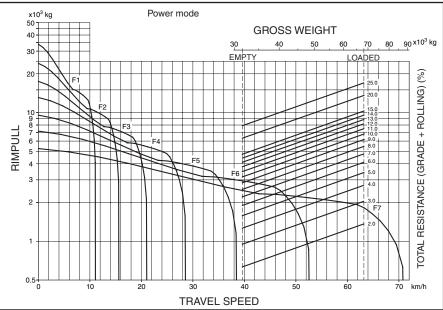


## MACHINE DIMENSIONS HD325-7



#### TRAVEL PERFORMANCE

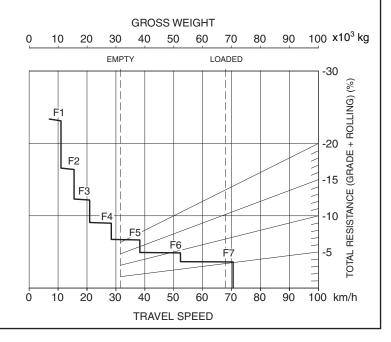
To determine travel performance:
Read from gross weight down to
the percent of total resistance. From
this weight-resistance point, read
horizontally to the curve with the
highest obtainable speed range,
then down to maximum speed.
Usable rimpull depends upon traction available and weight on drive
wheels.

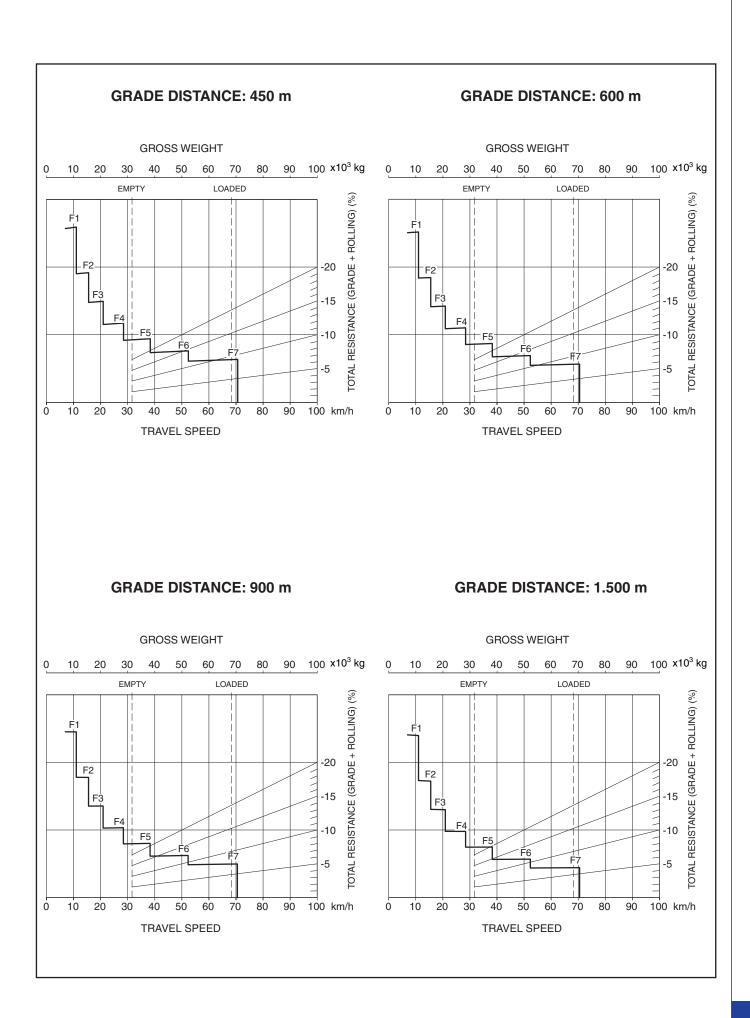


#### RETARDER PERFORMANCE

To determine brake performance:
These curves are provided to
establish the maximum speed and
gearshift position for safer 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 safely handle without
exceeding cooling capacity.

#### **GRADE DISTANCE: CONTINOUS DESCENT**





## **SPECIFICATIONS HD405-7**



#### ENGINE

Model	Komatsu SAA6D140E-5
TypeComr	non rail direct injection, water-cooled,
turbochar	ged, after-cooled, cooled EGR diesel
Engine power	
at rated engine speed	2.000 rpm
ISO 14396	386 kW / 518 HP
ISO 9249 (net engine power).	371 kW / 498 HP
No. of cylinders	6
Bore × stroke	140 × 165 mm
Displacement	15,24 ltr
Max. torque	2.167 Nm/221 kgf·m
Governor	Electronically controlled
Lubrication system:	
Lubrication method	Gear pump, force lubrication
Filter	Full flow
Air filter Dry type	with double elements and precleaner
	(cyclonpack type), plus dust indicator



#### TRANSMISSION

Torque converter	3-elements, 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 lockup and all higher gears
Reverse	Torque converter drive
Shift control	Electronic shift control with automatic
	clutch modulation in all gears
Max. travel speed	



#### AYI ES

Final drive type	
Ratios:	
Differential	3,125
Planetary	4,737



#### **SUSPENSION**

Mechanical stopper......8,1°



#### STEERING SYSTEM

TypeFully hydraulic power	steering
with two double-acting	cylinders
Supplementary steering Automatically and manually c	ontrolled
(meets ISO 5010, SAE J1511 and S	SAE J53)
Minimum turning radius, centre of front tyre	7,2 m
Maximum steering angle (outside tyre)	43°



#### BBAKES

Brakes meet ISO 3450 and SAE J1473 standards.

Service brakes:

Front	Full-hydra	ulic control, caliper disc type
Rear	Full-hydraulic control,	oil-cooled multiple-disc type
Parking brake	Sprir	ng applied, multiple-disc type
Retarder	Oil-cooled, multiple-dis-	c rear brakes act as retarder.
Retarder capacity	(continuous)	662 kW / 887 HP
Secondary brake	A relay valve auton	natically actuates the service
brakes v	when hydraulic pressure	e drops below the rated level.
	Manu	al operation is also possible.

3ra	ke	surf	ace	:	

FIOIIL	908	CITI
Rear	0.847	cm <sup>2</sup>



#### **HYDRAULIC SYSTEM**

Hoist cylinder	Twin, 2-stage telescopic type
Relief pressure	20,6 MPa/210 kg/cm <sup>2</sup>
Hoist time (at high idle)	10 sec
Lowing time (float)	10 sec



#### CAE

Dimensions comply with ISO 3471 and SAE J1040-1988c ROPS (Roll-Over Protective Structure) standards and ISO 3449 and SAE J231 FOPS (Falling Object Protective Structure) standard.



#### **MAIN FRAME**

Type ......Box-sectioned construction



#### TYRES

Standard tyres ......18.00 R33



Capacity:	
Struck	20,0 m³
Heaped (3:1)	24,5 m³
Heaped (2:1, SAE)	27,3 m³
Payload	40,0 metric tons
Material	145 kg/mm²
45	50 Brinell high tensile strength steel
Material thickness:	
Bottom	25 mm
Front	16 mm
Sides	14 mm
Target area (inside length × width)	5.590 mm × 3.380 mm
Dumping angle	48°
Height at full dump	8.070 mm
Heating	Exhaust heating



ENVIRONMENT
Engine emissions Fully complies with EU Stage IIII and EPA Tier III exhaust emission regulation
Noise levels:
LpA operator ear78 dB(A) (ISO 6396 dynamic test
LwA external
Vibration levels (EN 12096:1997)*
Hand/arm ≤ 2,5 m/s² (uncertainty K = 0,55 m/s²
Body ≤ 0,5 m/s² (uncertainty K = 0,28 m/s²
* for the purpose of risk assessment under directive 2002/44/EC,

please refer to ISO/TR 25398:2006.



#### **WEIGHT (APPROX.)**

Empty weight	35.500 kg
Gross vehicle weight	75.500 kg
Not to exceed max. gross vehicle weight, including options,	, fuel and
payload.	
Weight distribution	
Empty:	
Front axle	53,2%
Rear axle	46,8%
Loaded:	
Front axle	34,3%
Rear axle	65.7%

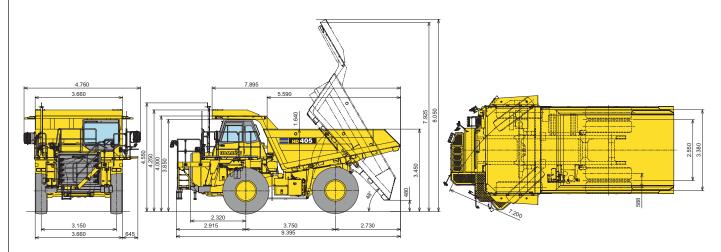


#### SERVICE REFILL CAPACITIES

Fuel tank	. 484 ltr
Engine oil	50 ltr
Torque converter, transmission and retarder cooling	90 ltr
Differentials (total)	45 ltr
Final drives (total)	30 ltr
Hydraulic system	. 129 ltr
Suspension (total)	44,2 ltr

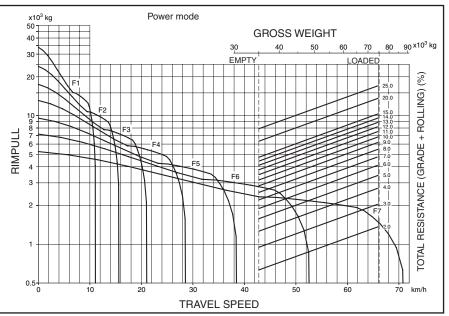


## **MACHINE DIMENSIONS HD405-7**



#### TRAVEL PERFORMANCE

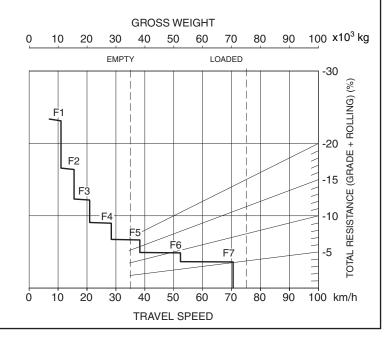
To determine travel performance: Read from gross weight down to the percent of total resistance. From this weight-resistance point, read horizontally to the curve with the highest obtainable speed range, then down to maximum speed. Usable rimpull depends upon traction available and weight on drive wheels.

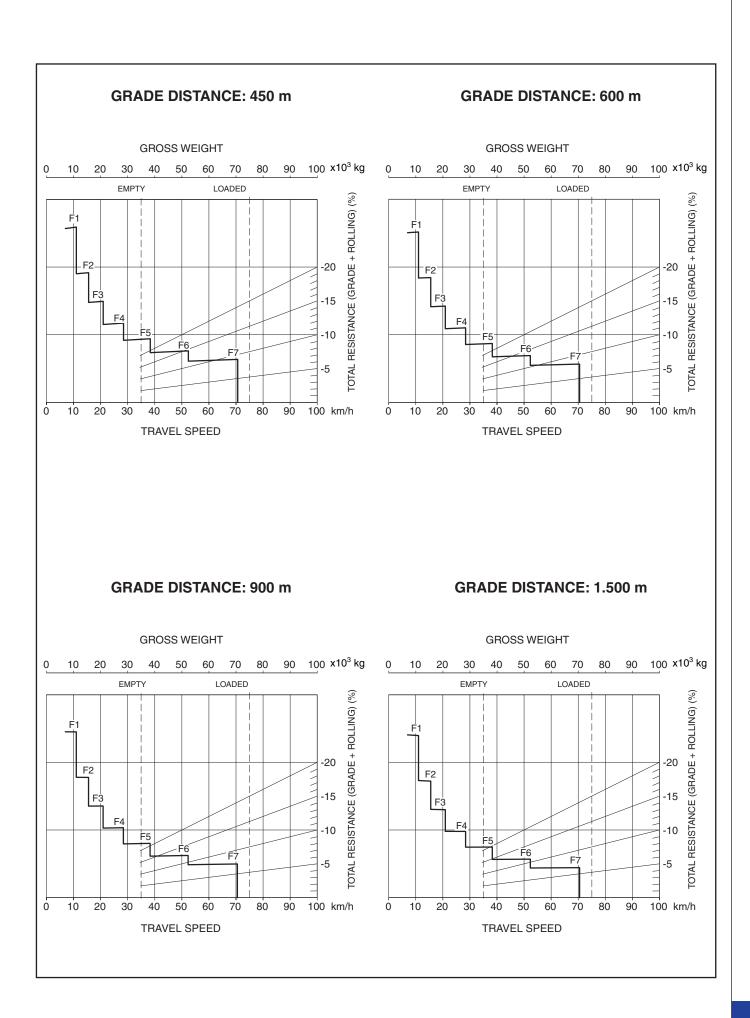


#### RETARDER PERFORMANCE

To determine brake performance:
These curves are provided to
establish the maximum speed and
gearshift position for safer 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 safely handle without
exceeding cooling capacity.

#### **GRADE DISTANCE: CONTINOUS DESCENT**





## **OFF-HIGHWAY TRUCK**

### STANDARD EQUIPMENT

#### **FNGINE**

- Komatsu SAA6D140E-5 engine, EU Stage IIIA/EPA Tier III compliant
- AISS (Automatic Idling Setting System)
- Engine power mode selection system
- Alternator 50 A/24 V
- Batteries 2 × 12 V/170 Ah
- Starting motor 11 kW

#### CAR

- · ROPS cab with FOPS, sound suppression type
- . Two doors, left and right
- Air conditioner
- · Electronic maintenance display/ monitoring system
- · Electronic hoist control system
- · Operator seat, reclining, air suspension type with retractable 78 mm width seat belt
- Power window (I.h.)

- · Steering wheel, tilt and telescopic
- · Sun visor
- Sun visor, additional
- Tinted glazing
- · Pre radio installation
- · Cigarette lighter, ashtray, cup holder, space for lunch box
- Windshield washer and wiper (with intermittent feature)

#### LIGHTING SYSTEM

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

#### **GUARDS AND COVERS**

- · Exhaust thermal guard
- Fire prevention covers
- Engine underguard
- TM underguard
- Drive shaft guard (front and rear)
- · Engine side covers

· Lockable fuel cap and covers

#### SAFETY EQUIPMENT

- Back-up alarm
- Horn, electric
- Coolant temperature alarm and light REGULATIONS
- · Hand rails for platform
- Front brake cut-off system
- · Ladders, left and right hand side
- · Supplementary steering
- Secondary brake
- · Rearview mirrors
- Underview mirrors
- Rear view camera and monitor
- · Front stairway with handrails

#### **OTHER**

- ARSC (Auto Retard Speed Control)
- Centralized greasing
- Electric circuit breaker, 24 V
- PM service connections
- . Muffler with body heating
- · Fuel tank with fast fill coupler

- Poor fuel arrangement (dust and water)
- Komtrax™ Komatsu Tracking System

· Complies with EC requirements

#### **BODY**

- · Body exhaust heating
- · Cab guard (left hand side)
- Spill guard, 250 mm
- · Platform guard (right hand side)
- Tyre guards
- · Mud guards

#### RIMS

• Rims for 18.00 R33

### **OPTIONAL EQUIPMENT**

#### CAB

- Cassette-radio
- Power window (r.h.)

- Body liner (HD325-7)
- Rock body (HD325-7)
- Side extension, 200 mm (HD325-7)

#### LIGHTING SYSTEM

- · Rear working lights, left and right
- Fog lights

#### SAFETY FOUIPMENT

- ASR (Automatic Spin Regulator)
- · Overturn warning system

#### **ARRANGEMENTS**

- · High-capacity batteries
- · Cold area arrangement (-30 °C to 40 °C)
- · Sandy and dusty area arrangement

#### **OTHER**

- · Auto greasing system
- · Engine coolant heater
- · Engine oilpan heater
- First aid kit
- Payload meter (PLM II)
- · Radiator shutter, canvas type
- Three-mode automatic hydropneumatic suspension

- 18.00-33-32PR (HD325-7)
- 18.00 R33



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