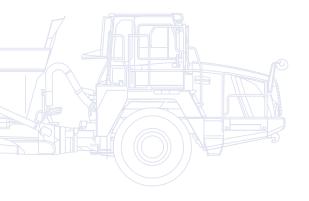
KOMATSU



Articulated Dump Truck

HM300-3



ENGINE POWER
248 kW / 332 HP @ 2.000 rpm

MAX. PAYLOAD
28,0 ton

BODY CAPACITY, HEAPED
17,1 m³

Walk-Around

The latest Komatsu technology and components combine to put the HM300-3 articulated dump truck in a class of its own. The EU Stage IIIB engine platform provides it with increased horsepower and lower fuel consumption and emissions. An advanced and exclusive Komatsu Traction Control System optimizes overall performance on any ground condition. With a new look for its robust exterior, and state of the art solutions for its suspension and retarder systems, the HM300-3 is built to last.

First-class operator comfort

- Front and rear hydro-pneumatic suspension
- Multi-purpose colour monitor with Eco-guidance function
- Quiet and spacious work environment
- Power window
 Air suspension seat with headrest

Easy maintenance

- · Electrically tilting cab
- Centralized grease points
- Maintenance-free oscillating hitch
- Maintenance-free wet brakes
- Easy and safe access to the engine

HM300-3

ENGINE POWER 248 kW / 332 HP @ 2.000 rpm

> MAX. PAYLOAD 28,0 ton

BODY CAPACITY, HEAPED 17,1 m³

High productivity and efficiency

- Exclusive Komatsu Traction Control System (KTCS)
- Increased body capacity (28 tonnes)
- Fuel efficient EU Stage IIIB engine
- High capacity wet multiple disc brakes
- Komatsu Advanced Transmission



Tough and reliable

- Market leading Komatsu design
- Wet multiple-disc brakes and retarder
- K-ATOMiCS transmission
- Komatsu-built power train
- High-strength body

Highest safety standards

- Secure platform access to cab and maintenance areas
- Excellent all-round visibility
- Rear view camera system
- Highly responsive retarder
- Safe front access



Komatsu Wireless Monitoring System

High Productivity and Efficiency

New Komatsu engine technology

The powerful and fuel-efficient Komatsu SAA6D125E-6 engine in the HM300 delivers 248 kW/332 HP at 2.000 rpm and is EU Stage IIIB certified. To maximise power, fuel efficiency and emission compliance, it is turbo charged and features direct fuel injection, air-to-air after cooling and cooled EGR.

Komatsu Traction Control System (KTCS)

For its world renowned RDTs
Komatsu developed various wheel
slip control systems that were refined and combined with new technologies to produce the advanced
traction control system that equips
all HM300-3 machines. KTCS
automatically provides optimum
traction on any ground condition. If
tyre slippage is detected by speed

sensors located on four wheels, automatic application of the interaxle differential lock occurs. If tyre slippage continues, the intelligent brakes systems automatically control the slipping wheel and regain traction on the opposite side. This improves productivity but also tyre durability.

Komatsu Diesel Particulate Filter (KDPF)

Komatsu's high efficiency DPF captures more than 90% of particulate matter. It includes a special oxidation catalyst with fuel injection system that can incinerate trapped particulates by either active or passive regeneration with no need to interrupt machine operations.

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.

Variable Geometry Turbo (VGT)

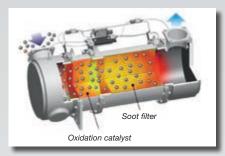
The VGT provides optimal air flow to the engine combustion chamber under all speed and load conditions. Exhaust gas is cleaner, fuel economy is improved while machine power and performance are maintained.

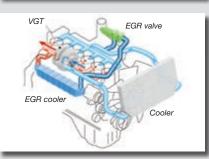
Komatsu Closed Crankcase Ventilation (KCCV)

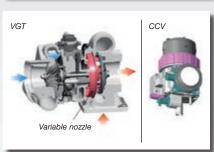
Crankcase emissions (blow-by gas) are passed through a CCV filter. The oil mist trapped in the filter is returned back to the crankcase while the filtered gas is returned to the air intake.

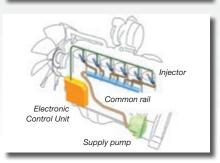
High-Pressure Common Rail (HPCR)

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 precise quantity of pressurised fuel into the redesigned engine combustion chamber by multiple injections.











Large capacity body

With an increased payload of 28 tonnes, the HM300-3's body capacity combined with a loading height of only 2.830 mm enables easy loading, lowers the centre of gravity and maintains a high ground clearance.





First-Class Operator Comfort

Unique hydro-pneumatic suspension

On both, the front and rear axles, Komatsu's unique trailing arm hydro-pneumatic suspension gives the HM300-3 a smooth ride with reduced pitching and excellent driving comfort. Less shocks to the operator and to the machine components - and less spilled material - also result in increased durability, comfort, and productivity.

Large TFT colour multi monitor

A large user-friendly colour monitor enables safe, accurate and smooth work. It provides on-hand data to continuously improve productivity and fuel consumption. Multilingual and with all essential information available at a glance, it features simple and easy to operate switches and multifunction keys that provide the operator with fingertip access to a wide range of functions and operating information.

Wide and comfortable cab

The wide cab with user-friendly controls provides a spacious and comfortable working environment. A fully adjustable air-suspension seat dampens vibrations, holds the operator safe, and reduces the fatigue of long shifts. Plenty of room is left for an extra full-size trainer's seat. Large front and electric side windows ensure superior visibility and increased operator confidence, while an electric heated rear window facilitates defrosting and speeds the start-up of operations.

Low noise levels

To reduce the 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 lownoise and sound-insulated muffler helps to bring the sound levels way down to 73 dB(A).











Tough and Reliable

Market leading Komatsu design

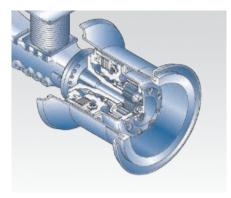
The HM300-3 is made from Komatsu manufactured components that successfully prove their durability day after day. Top-selling technology used for previous generations of Komatsu trucks sets the mould for all Komatsu ADTs. The entire power train is Komatsu designed and the engine, transmission and axles are perfectly matched for unsurpassed productivity and durability.

K-ATOMiCS transmission

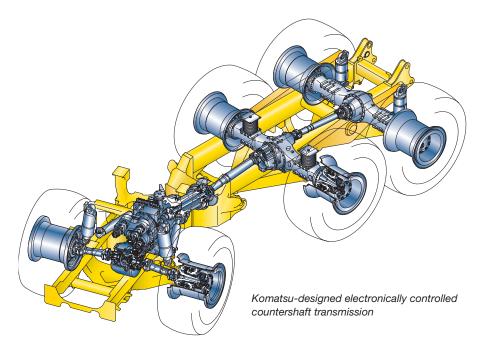
K-ATOMiCS, Komatsu's exclusive electronically controlled transmission is perfectly tuned for the HM300-3. The "total control system" manages both the engine and transmission by monitoring the vehicle's condition. This Komatsu designed technology guarantees smooth shifting and maximises transmission life.

Wet multiple-disc brakes and retarder

Wet multiple-disc brakes with proven performance in larger articulated and rigid trucks are tailored for use in the HM300-3. The large-capacity, continuously cooled, wetmultiple disc brakes also function as a highly responsive retarder that gives the operator greater confidence at higher speeds when travelling downhill. (Retarder absorbing capacity, continuous descent: 349 kW 468 HP)



Hydraulically controlled wet multi-disc brakes and retarder







Easy Maintenance

Lowest brake maintenance cost

No other manufacturer offers wet disc brakes on all its ADTs, and the Komatsu HM300-3 is no exception. No matter how abrasive the application, there is no need to worry about early replacement of the brake disc packs of its forced oil-cooled wet disc brakes. Embedded in an oil bath and sealed off from the environment, brakes on the HM300-3 have an exceptionally long overhaul period minimizing your maintenance cost.



With 575 mm free space, the hinge connection on the HM300-3 stays out of the mud and its robust maintenance-free build gives it a longer life time.

Tilting cab

The cab can be tilted rearward 36 degrees to provide easy maintenance and service to the engine and transmission.



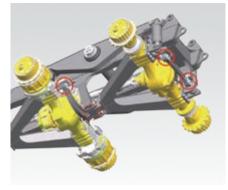
Remote greasing



Maintenance monitor



Ground level access



Rubber bushings





Highest Safety Standards

Safer with KTCS

By operating only the accelerator, Komatsu's unique traction control system (KTCS) allows full-time all wheel drive, along with safe and easy turning on soft ground and slippery roads. The diver requires no extra driving or operational skill.

Supplementary steering and secondary brakes

Supplementary steering and secondary brakes are standard features. They help to guarantee operator safety in emergency situations.

Steering

ISO 5010-1992, SAE J1511 **Brakes**ISO 3450-1996, SAE J1473

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, and additional under-view mirrors and a rear-view mirrors minimise blind spots.

Built-in ROPS/FOPS

These structures conform to ISO 3471 and SAE J1040-1988c standards.

Safe access

Operators can enter the machine easily and safely with a secure access from the platform to the cab. The access steps are located on the front of the machine, away from the potentially hazardous articulation.



Rear view camera system

Rear frame inclination sensor

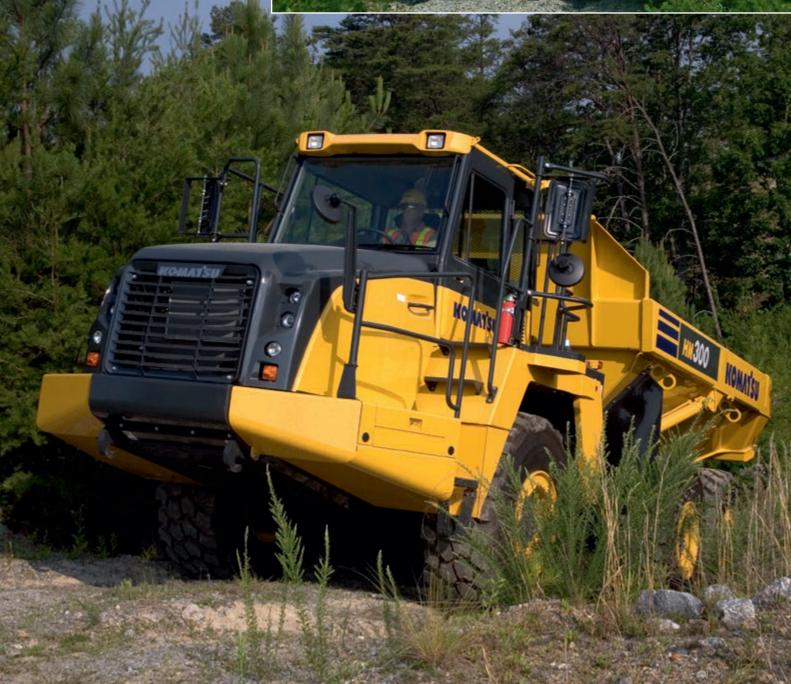
To avoid personal and machine damage, this system warns the operator if there is a risk of body tip over.



Standard guards

- Protective fence around engine hood
- Protective grille for rear window
- Engine underguard
- Heavy-duty transmission underguard
- Propeller shaft guards
- Exhaust thermal guard
- Fire prevention covers





Komatsu Wireless Monitoring System

The easy way to higher productivity

KOMTRAX™ is the latest in wireless monitoring technology. It delivers insightful and cost saving information about your fleet and equipment and offers you a wealth of information to facilitate peak machine performance. By creating a tightly integrated web of support it allows pro active and preventive maintenance and helps you to efficiently run a business.

Knowledge

You get quick answers to basic and critical questions about your machines - what they're doing, when they did it, where they're located, how they can be used more efficiently, and when they need to be serviced. Performance data is relayed by satellite from your machine to your computer and to your local Komatsu distributor - who's readily available for expert analysis and feedback.

Convenience

KOMTRAX™ helps to conveniently manage your fleet on the web, wherever you are. Data is analysed and packaged specifically for easy and intuitive viewing in maps, lists, graphs and charts. You can anticipate the type of service and parts your machines could require, or troubleshoot problems before Komatsu technicians arrive on site.



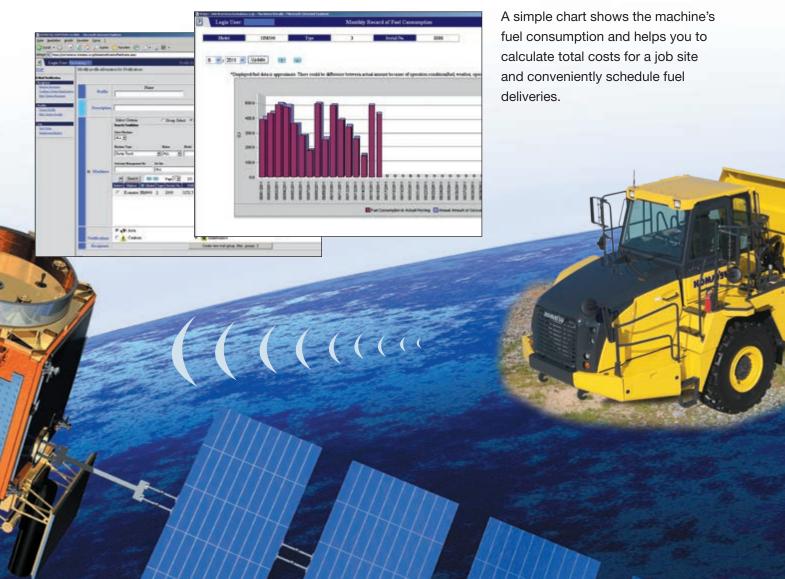
KOMTRAXTM

Power

The detailed information that KOMTRAX™ puts at your fingertips 24 hours a day, 7 days a week gives you the power to make better daily and long-term strategic decisions. You can anticipate problems, customize maintenance schedules, minimize downtime and keep your machines where they belong – working on the job site.



Through the web application, a variety of search parameters are available to quickly find information about specific machines based on key factors such as utilization rates, age, various notification messages, and more.



Specifications

ENGINE	AXLES
Model	Full time all wheel drive with Komatsu Traction Control System. Final drive type
Engine power at rated engine speed	Differential 3,154 Planetary 4,667
ISO 14396248 kW / 332 HP	Fidiletaly4,007
ISO 9249 (net engine power)242 kW / 324 HP	
No. of cylinders	
Bore × stroke125 × 150 mm	
Displacement11,04 ltr	BRAKES
Max. torque	Coming byoken Independent front and contay wheel byoken
GovernorElectronically controlled	Service brakesIndependent front and center wheel brakes
Lubricating systemGear pump, force lubrication	full-hydraulic control, oil-cooled, multiple-disc type
FilterFull-flow filter	Parking brake
Air-filter type Dry type with double elements and precleaner	netaluel Tont and centre axie blakes act as retalue
(cyclonpack type), plus dust indicator	
TRANSMISSION	MAIN FRAME
	Type Articulated type, box-sectioned
Torque converter 3-elements, 1-stage, 2-phase	construction on front and rear
Transmission	Connected by strong torque tubes
Speed range	
Lock-up clutch	
Forward Torque converter drive in 1st gear, direct drive	
in 1st lock-up and all higher gears	
ReverseTorque converter drive and direct drive in all gears	SERVICE REFILL CAPACITIES
Shift control Electronic shift control with automatic	Final tools
clutch modulation in all gears	Fuel tank
Max. travel speed58,6 km/h	Engine oil
	Differentials (total)71,5 lt
	Final drives (total)
STEERING SYSTEM	Hydraulic system
-	Suspension (total)
TypeArticulated type, fully hydraulic power steering	Casponolon (total)
with two double-acting cylinders	
Supplementary steering	
electrically powered Minimum turning radius, wall to wall8,10 m	
Articulation angle	HYDRAULIC SYSTEM
Thousand and the same of the s	Hoist cylinderTwin, 1-stage type
	Relief pressure
CLICPENICION	Hoist time
SUSPENSION	10,0 300
FrontHydro-pneumatic suspension	
RearCombined hydro-pneumatic	
and rubber suspension system	FAILUROALAAFAIT
,	ENVIRONMENT
	Engine emissionsFully complies with EU Stage IIIE
TYRES	exhaust emission regulation
	Noise levels
Standard tyres	LwA external114 dB(A) (2000/14/EC Stage II)
	LpA operator ear73 dB(A) (ISO 6396 dynamic test
	Vibration levels (EN 12096:1997)*
CAB	Hand/arm≤ 2,5 m/s² (uncertainty K = 1,17 m/s²
CUD	Body≤ 0,5 m/s² (uncertainty K = 1,17 m/s²
Complies ISO 3471 ROPS (Roll-Over Protective Structure) ISO 3449	* for the purpose of risk assessment under directive 2002/44/EC,
FOPS (Falling Object Protection Structure) standards.	please refer to ISO/TR 25398:2006.

WEIGHT (APPROX.)

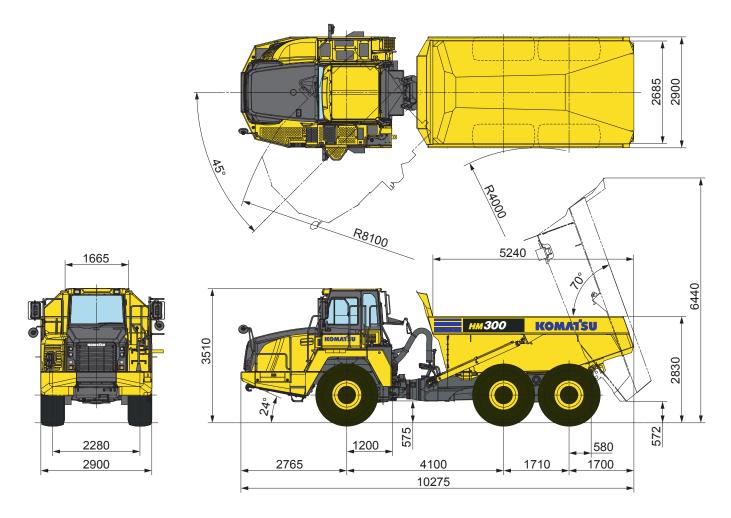
Empty weight	-
Weight distribution	
Empty:	
Front axle	57%
Centre axle	23%
Rear axle	20%
Loaded:	
Front axle	29%
Centre axle	36,5%
Rear axle	34,5%

BODY

Capacity:	
Struck	13,4 m³
Heaped (2:1, SAE)	17,1 m³
Payload	
Material	130 kg/mm²
	high tensile strength steel
Material thickness:	
Bottom	14 mm
Front	8 mm
Sides	12 mm
Target area (inside length × width)	5.250 mm × 2.685 mm
Heating	Exhaust heating (option)



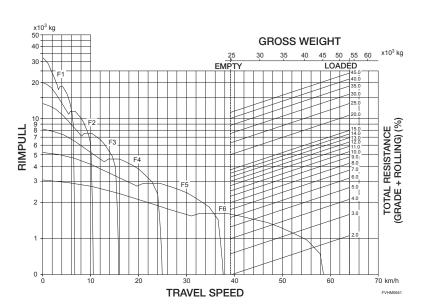
Dimensions & Performance Figures

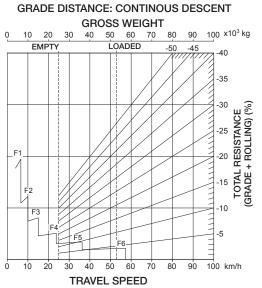


All measurements with tyres 23.5 R25

TRAVEL PERFORMANCE

BRAKE PERFORMANCE







Articulated Dump Truck

HM300-3

Standard and Optional Equipment

ENGINE

Komatsu SAA6D125E-6 turbocharged common rail direct injection diesel engine EU Stage IIIB compliant	•
Komatsu Diesel Particulate Filter (KDPF)	•
Alternator 90 A/24 V	•
Starter motor 7,5 kW/24 V	•
Batteries 2 × 12 V/136 Ah	•

BODY

ВООТ	
Electronic hoist control system	•
Body exhaust heating kit	0
Body liner	0
Tail gate, wire type, overall width 2.998 mm	0
Rody side extension 200 mm	

AXLES AND TYRES

Komatsu Traction Control System	•
Tyres 23.5 R25	•
Tyres 30/65 R25 (750/65 R25)	0

SERVICE AND MAINTENANCE

Centralized greasing	•
Large TFT colour monitor panel KOMTRAX™ - Komatsu wireless monitoring system	
Vandalism protection	•
Gas charge tool for suspension cylinders	0

CABIN

Tilting (electrically) ROPS/FOPS cab,
sound suppression type
Operator seat, reclining, air suspension type with
50 mm width 3-point seat belt
Trainer seat with 2-point seat belt •
Steering wheel, tilt and telescopic
Air conditioner •
Heated rear window (electric)
Power window (l.h.)
Sun visor, front window •
Body dump counter
Cigarette lighter, ashtray, cup holder, space for
lunch box
Pre radio installation kit
Power mode, economy mode •
Odometer •
ECO drive guidance •
12 Volt power supply

SAFETY EQUIPMENT

Back-up alarm	•
Anti-slip material on fenders	•
Automatic supplementary steering	•
Coolant temperature alarm and light	•
Electric circuit breaker, 24 V	•
Hand rails for platform	•
Horn, electric	•
Ladders, left and right hand side	•
Protective grille for rear window	•
Protective fence around engine hood	•
Rear-view mirrors (heated)	•
Under-view mirrors	•
Steering joint locking assembly	•
Side marker	•
Rear view camera system	•
Side inclination caution alarm	•
Fire extinguisher	0

LIGHTING SYSTEM

Back-up light	•
Turn indicator lights front/rear with hazard function	•
Headlights high and low beam with dimmer switch	•
Stop and tail lights	•
Side lamps back cabin	•
Back work lights, left and right side	0
Fog lights	0
-	

OTHER EQUIPMENT

Mud guards	•
Engine underguard	•
Propeller shaft guards, front and rear	•
Transmission underguard	•
Komatsu Diesel Particulate Filter (KDPF) thermal guard	•
Fire prevention covers	•
Automatic retarder with acceleration control (ARAC)	•
Tool box storage compartment	•

Further equipment on request

- standard equipment
- optional equipment

Your Komatsu partner:



Komatsu Europe International N.V.

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EESS020004 08/2016

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