HM300-2R

GROSS HORSEPOWER
254 kW 340 HP

NET HORSEPOWER
246 kW 329 HP

MAXIMUM GVW
51420 kg 113,360 lb

Articulated Dump Truck

Photo may include optional equipment.

Materials and specifications are subject to change without notice.

Komatsu is a trademark of Komatsu Ltd. Japan.
The HM300-2R offers all around maximum productivity with faster travel speed and many features that enhance efficiency, while reducing maintenance costs. From rough terrain construction sites to landfills - the HM300-2R has the competitive edge.

Building on the technology and expertise Komatsu has accumulated since its establishment in 1921, GALEO presents customers worldwide with a strong, distinctive image of technological innovation and exceptional value. The GALEO brand will be employed for Komatsu’s full lineup of advanced construction and mining equipment. Designed with high productivity, safety and environmental considerations in mind, the machines in this line reflect Komatsu’s commitment to contributing to the creation of a better world.

Wide, spacious cab with excellent visibility
- The wide cab offers a comfortable operator and passenger environment
- Viscous mounts support the cab while absorbing vibrations and noise
- Low-noise cab through improved sealing with integrated floor
- Interior noise level 76 dB(A)
- Additional front under view mirrors provide superior visibility
- Air suspension seat is standard
- Power window (L.H)

High performance and Komatsu SAA6D125E-5 engine
- Gross horsepower 254 kW 340 HP
- Engine power mode selection system realizes both greater productivity and improved fuel economy
- Higher engine output and torque improve productivity in all applications

Fully hydraulic articulated steering
- Light and easy operation
- Minimum turning radius 7.96 m 26’1”

Difficult terrain
- Fully hydraulic steering enables easy maneuverability
- Minimum turning radius

Tiltable cab can be tilted rearward 32 degrees to provide easy service.

Hydro-pneumatic Suspension for all terrains.
The hydro-pneumatic suspension in both front and rear suspensions assures a comfortable ride even over rough terrain.

Komatsu designed, electronically controlled transmission for a comfortable ride.
F6-R2 counter-shaft type transmission with K-ATOMiCS (Komatsu Advanced Transmission with Optimum Modulation Control System). Transmission shift hold button optimizes the operator control

Easy-to-Load Body
- Heaped capacity 16.6 m³ 21.7 yd³
- Low loading height 2790 mm 9’2”
- High strength body constructed of thick wear-resistant steel having 400 Brinell hardness

High capacity, reliable, continuously cooled, wet type multiple-disc brake and retarder
- Fully hydraulic controlled wet multiple-disc brake
- Retarder Absorbing Capacity (continuous descent) 370 kW 496 HP
Komatsu Designed Differential Locking Systems

The full-time six-wheel drive system reduces slippage. A wet multiple-disk interaxle clutch also locks the three axles in unison for greater traction. The interaxle lock can be switched on and off while the truck is travelling, thereby boosting productivity. In addition, limited slip differentials prevent the tires on either side from slipping on soft ground.

Hydraulically Controlled 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. 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):

370 kW 496 HP

Komatsu Designed Electronically Controlled Countershaft Transmission

The Komatsu designed Electronically Controlled Transmission called K-ATOMiCS has been a success in Komatsu’s rigid dump trucks. The electronic clutch modulation system ensures proper clutch pressure when the clutch is engaged. The total control system controls both the engine and transmission by monitoring the vehicle conditions. This high technology system assures smooth shifts without shock and maximizes power train life.

High Performance Komatsu SAA6D125E-5 Engine

Powerful turbocharged and air-to-air aftercooled Komatsu SAA6D125E-5 engine provides 254 kW 340 HP. This engine realizes high power in low fuel consumption with Common Rail Injection system (CRI), and thus it delivers higher travel speeds with high horsepower. Also high torque at low speed, impressive acceleration, and low fuel consumption ensure maximum productivity.

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 with a switch in the operator’s cab.

Power mode

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

Economy mode

Engine speeds of the maximum output, downshift, and upshift are set to a lower level. It is appropriate for light work on the flat ground.

Large Capacity Body and Box Section Frame Structure

The HM300 has the large heaped capacity of 16.6 m³ 21.7yd³ body. The low loading height of 2790 mm 9’2” enables easy loading. The body is built of high strength wear-resistant steel with a Brinell hardness of 400, and the body shape provides excellent load stability. Rugged enough for the toughest jobs, the HM300’s frame is designed using a rigid box structure with connecting torque tubes made of high strength low alloy steel.

Hydro-pneumatic Suspension

Hydro-pneumatic suspension with proven performance in larger articulated and rigid trucks is tailored for use in the HM300. The front axle hydro-pneumatic suspension employs “De Dion” type design, allowing the machine to ride more smoothly over bumps. The rear-axles are mounted on a dynamic equalizer structure equipped with hydro-pneumatic suspension. The entire vehicle’s suspension delivers a comfortable ride and maximizes productivity.

Hydraulically Controlled 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. 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):

370 kW 496 HP

Articulated Steering

Fully hydraulic articulated steering offers low-effort operating performance and maneuverability. A minimum turning radius of only 7.96 m 26’1” provides ability to work in tight areas.
Komatsu has developed a state-of-the-art, wide comfortable cab. The low level of vibration and noise ensure maximum productivity from the operator.

**Low-noise Designed Cab**
Integrated cab and floor provide a tight cab. Engine room is also sealed. The low noise and sound insulated muffler/exhaust pipe contribute to reducing sound levels. All these together offer a quiet and comfortable operator environment.

**Wide, Spacious Cab with Excellent Visibility**
The wide cab provides a comfortable space for the operator and a full-size buddy seat. Large electrically operated windows and operator’s seat positioned to the left side ensure 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. The front underview mirrors are increased to three from one, and the rear view mirrors increased to four from two. Newly employed laminated glass in the windshield assures safe operation. In addition, electric heated rear window facilitates defrosting.

**Built-in ROPS/FOPS Cab**
These structures conform to ISO 3471:1994 standard.

**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.

**Viscous Cab Mounts**
Viscous mounts reduce the noise transmitted to the cab and achieve a quiet 76 dB(A) noise level.

**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.

**Electric Body Dump Control**
The low effort lever makes dumping easier than ever.

**Supplementary Steering and Secondary Brakes**
Supplementary steering and secondary brakes are standard features.
- Steering: ISO 5010-1992, SAE J1511
- Brakes: ISO 3450-1996

**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.

**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 the optimum driving position at all times.

Photo may include optional equipment.
The HM300-2R has been designed to keep service time down and productivity up by reduced number of grease points, easy access to filters, and longer intervals between oil changes.

Tiltable Cab

The cab can be tilted rearward 32 degrees to provide easy maintenance/service for the engine and transmission. Note: An external hydraulic pump is required to tilt the cab or a service crane can be used after easily removing only eight bolts...

Fewer Grease Points

The number of grease points are minimized by using maintenance-free rubber bushings.

Extended Service Intervals

In order to minimize operating costs, service intervals have been extended:
- Engine oil 500 hours
- Transmission oil 1000 hours
- Engine oil filter 500 hours
- Transmission oil filters 1000 hours

Guards

The following guards are provided as standard:
- Protective grille for rear window
- Engine underguard
- Heavy duty transmission underguard
- Propeller shaft guards
- Exhaust thermal guard
- Fire prevention covers

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**Specifications**

**Engine**

- Model: Komaitsu 8A6/6125E-5
- Type: Turbo-charged, 4-cylinder, Water-cooled, 4-cylinder
- Bore: 125 mm, 4.92"
- Stroke: 150 mm, 5.91"
- Piston displacement: 114.624 in³
- Horsepower: SAE J1995
  - Gross: 254 kW, 340 HP
  - Net: 246 kW, 329 HP
- Rated rpm: 2000 rpm
- Fan drive type: Mechanical
- Maximum torque: 174 kgm, 1.259 lb ft
- Fuel system: Gear pump, force lubrication
- Governor: Direct injection
- Lubrication system: Electronically controlled
- Air cleaner: Dry type with double elements and precleaner (cyclone pack type), plus dust indicator

**Transmission**

- Torque converter: 3 elements, 1-stage, 2-phase
- Transmission: Full-automatic, counter-shaft type
- Speed range: 6 speeds forward and 2 reverse
- 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 and direct drive in all gear
- Shift control: Electronic shift control with automatic clutch modulation in all gear
- Maximum travel speed: 58.6 km/h, 36.4 mph

**Axles**

- Full time all wheel drive with limited slip differential in all axles.
- Final drive type: Planetary gear
- Ratios: Differential: 3.154, Planetary: 4.667

**Suspension System**

- Front: Hydro-pneumatic suspension
- Rear: Combined hydro-pneumatic and rubber suspension system

**Steering System**

- Type: Articulated type, fully hydraulic power steering with two double-acting cylinders
- Supplementary steering: Automatically actuated, electrically powered
- Minimum turning radius, wall to wall: 7.90 m, 26'1"
- Articulation angle: 45° each direction

**Brakes**

- Service brakes: Full hydraulic control, oil-cooled multiple-disc type on front and center axle
- Parking brake: Spring applied, caliper disc type
- Retarder: Front and center axle brakes act as retarder

**Body**

- Capacity: 12.9 m³, 16.9 yd³
- Gross (21.5, SAE): 16.6 m³, 21.7 yd³
- Payload: 27.3 metric tons, 30.1 U.S. tons
- Material: 130 kg/mm², 184.5 psi high tensile strength steel
- Material thickness:
  - Bottom: 14 mm, 0.55"
  - Front: 8 mm, 0.31"
  - Sides: 12 mm, 0.47"
- Target area (inside length x width):
  - 5240 mm x 2685 mm 172" x 85.1"
- Heating: Exhaust heating (option)

**Hydraulic System**

- Hoist cylinder: Twin, 2-stage telescopic type
- Relief pressure: 20.6 MPa 290 psi
- Hoist time: 12 sec

**CAB**

- Dimensions comply with ISO 3471 ROPS (Roll-Over Protective Structure) standards

**Tires**

- Standard tire: 23.5 R25

**Service Refill Capacities**

- Fuel tank: 384 ltr, 101.5 U.S. Gal
- Engine oil: 37 ltr, 9.8 U.S. Gal
- Torque converter, transmission and retarder cooling: 77.5 ltr, 20.5 U.S. Gal
- Differentials (total): 63.5 ltr, 16.8 U.S. Gal
- Final drives (total): 24 ltr, 6.3 U.S. Gal
- Hydraulic system: 120 ltr, 31.7 U.S. Gal
- Suspension (total): 10.4 ltr, 2.7 U.S. Gal
**STANDARD EQUIPMENT FOR BASE MACHINE**

**ENGINE:**
- Alternator, 50A/24V
- Batteries, 2 x 12V/136Ah
- Engine, Komatsu SAA6D125E-5
- Exhaust muffler
- Starting motor, 1 x 7.5 kW

**CAB:**
- Air conditioner
- Ashtray
- Cigar lighter
- Cup holder
- Electronic maintenance display/monitoring system
- Heated rear window
- Operator seat, reclining, air suspension type with retractable 78 mm 3” width seat belt
- Passenger seat with retractable seat belt
- Power window (L, H)
- Space for lunch box
- Steering wheel, tilt and telescopic

**LIGHTING SYSTEM:**
- Back-up light
- Hazard lights
- Headlights with dimmer switch
- Indicator, stop and tail lights

**GUARD AND COVERS:**
- Engine underguard
- Exhaust muffler Thermal guard
- Fire prevention covers
- Propeller shaft guards, front and rear
- Transmission underguard

**SAFETY EQUIPMENT:**
- Alarm, backup
- Anti-slip material on fenders
- Automatic supplementary steering
- Coolant temperature alarm and light
- Hand rails for platform
- Horn, electric
- Ladders, left and right hand side
- Protective grille for rear window
- Rearview mirrors
- Steering joint locking assembly
- Under view mirrors

**BODY:**
- Electronic hoist control system

**TIRES:**
- 23.5 R25

**OTHER:**
- Centralized greasing
- Electric circuit breaker, 24V
- Limited slip differentials in all axles
- Mud guards
- Side marker

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**OPTIONAL EQUIPMENT**

**CAB:**
- Power window (R, H)
- Radio, AM/FM
- Radio, AM/FM with cassette

**BODY:**
- Body exhaust heating kit
- Body liner
- Rock body
- Tail gate, wire type
- Upper side extension, 200 mm 8”

**LIGHTING SYSTEM:**
- Back work lights, left and right side
- Fog lights
- Yellow beacon

**SAFETY:**
- Rear view camera and monitor

**TIRES:**
- 30/65 R25 (750/65 R25)

**OTHER:**
- Alternator, 75A/24V
- Auto Retarder with Accelerator Control (ARAC)
- Fire extinguisher
- Gas charge tool
- Spare parts for first service
- Tool kit
- Vandalism protection