KOMATSU® HM350-2R



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

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304 kW 408 HP

NET HORSEPOWER

294 kW 394 HP

MAXIMUM GVW

63440 kg 139,900 lb





HM350-2R ARTICULATED DUMP TRUCK

Komatsu designed, electronically controlled

F6-R2 counter-shaft type transmission with K-ATOMiCS (Komatsu Advanced Transmission with Optimum Modulation Control System). Transmission shift hold

Easy-to-load body

hardness

• Heaped capacity 19.8 m³ 25.9 yd³ • Low loading height 2975 mm 9'9"

• High strength body constructed of thick

wear-resistant steel having 400 Brinell

transmission for a comfortable ride.

button optimizes the operator control.

WALK-AROUND

The HM350-2R 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 HM350-2R has the competitive edge.

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

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 Komatsu SĂA6D140E-5 engine

- Gross horsepower 304 kW 408 HP
- Engine power mode selection system realizes both greater productivity and improved fuel economy
- Higher engine output and torque improve productivity in all applications



Photo may include optional equipment.

Fully hydraulic articulated steering

- Light and easy operation
- Minimum turning radius 8.6 m 28'3"

Interaxle & differential locks provide excellent traction in rough terrain.

The oil-cooled multiple-disc interaxle lock and differential locks can be turned on and off during travel. In addition, the differential locks can lock up all three axles' differentials for maximum traction.

ARTICULATED DUMP TRUCK

HM350.2R

GROSS HORSEPOWER 304 kW 408 HP @ 2000 rpm

NET HORSEPOWER 294 kW 394 HP @ 2000 rpm

> **MAXIMUM GVW** 63440 kg 139,900 lb





Hydro-pneumatic suspension for all terrains.

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

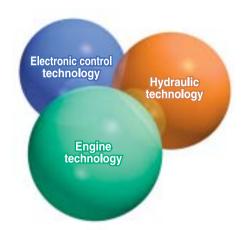
High capacity, reliable, continuously cooled, wet type multiple-disc brakes and retarder

• Fully hydraulic controlled wet multiple-disc brake • Retarder absorbing capacity (continuous descent) 444 kW 595 HP

PRODUCTIVITY FEATURES

The combination of high travel speeds and an efficient engine delivers maximum productivity at the lowest cost.

Komatsu technology



Komatsu develops and produces all major components, such as engines, electronics and hydraulic components, in house.

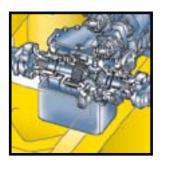
With this "Komatsu Technology," and adding customer feedback, Komatsu is achieving great advancement in technology.

To achieve both high levels of productivity and economical performance, Komatsu has developed the main components with a total control system.

The result is a new generation of high performance and environment friendly machines.

High performance Komatsu SAA6D140E-5 engine

Powerful turbocharged and air-to-air aftercooled Komatsu SAA6D140E-5 engine provides 304 kW 408 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 torgue 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.

Hydro-pneumatic suspension

The hydro-pneumatic suspension has been proven on Komatsu's rigid dump trucks. 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.

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.

Komatsu designed interaxle and differential locking systems

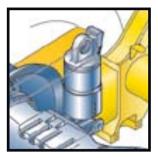
The full-time six-wheel drive system reduces slippage. A wet multiple-disk interaxle clutch also locks the three axles in unison for greater traction. The interaxle lock and differential locks can be switched on and off while the truck is travelling, thereby boosting productivity. In addition, the differential lock switch, which is a three position switch, can lock up the rear axle differentials only, or all axles for maximum performance in the worst conditions.

Hydraulically controlled wet multiple-disc brakes and retarder

Wet multiple-disc brakes have been proven on Komatsu dump trucks and wheel loaders ensuring 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): 444 kW 595 HP

ARTICULATED DUMP TRUCK

HM350.2R



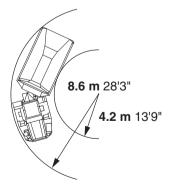


Large capacity body and box section frame structure

The HM350 has the large heaped capacity of 19.8 m³ 25.9yd³ body. The low loading height of 2975 mm 9'9" 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 HM350's frame is designed using a rigid box structure with connecting torque tubes made of high strength low alloy steel.

Articulated steering

Fully hydraulic articulated steering offers low-effort operating performance and maneuverability. A minimum turning radius of only 8.6 m 28'3" provides ability to work in tight areas.



OPERATOR ENVIRONMENT

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 airtight 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 guiet 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 window and the operator's seat positioned to the left 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. The front under view mirrors are increased to two 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.



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.



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.





ARTICULATED DUMP TRUCK

HM350.2R

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

HM350-2R ARTICULATED DUMP TRUCK

EASY MAINTENANCE

The HM350-2R 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 filters 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



SPECIFICATIONS

ENGINE	
Model	Type Articulated type, box-sectioned construction on front and rear Connected by strong torque tubes.
Bore 140 mm 5.51" Stroke 165 mm 6.50" Piston displacement 15.24 ltr 930 in ³	BODY
Horsepower SAE J1995	Capacity: 14.6 m³ 19.1 yd³ Struck 19.8 m³ 25.9 yd³ Payload 32.3 metric tons 35.6 U.S. tons Material 130 kg/mm² 185,000 psi high tensile strength steel Material thickness: Bottom 16 mm 0.63" Front. 8 mm 0.31" Sides 12 mm 0.47" Target area (inside length x width) Heating Exhaust heating (option)
TRANSMISSION	HYDRAULIC SYSTEM
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	Hoist cylinder Twin, 2-stage telescopic type Relief pressure 20.6 MPa 210 kg/cm ² 2,990 psi Hoist time 12 sec
Reverse	САВ

Torque converter 3-elements, 1-stage, 2-pl Transmission Full-automatic, counter-shaft Speed range 6 speeds forward and 2 rev Lockup clutch Wet, single-disk c	type erse
Forward	gear,
Reverse Torque converter drive and direct drive in all Shift control Electronic shift control with autor	natic
clutch modulation in all Maximum travel speed	

AXLES

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SUSPENSION SYSTEM

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

STEERING SYSTEM

Type Art	iculated type, fully hydraulic power steering
	with two double-acting cylinders
Supplementary steering	Automatically actuated,
	electrically powered
Minimum turning radius, wal	l to wall
Articulation angle	45° each direction

BRAKES

Service brakes	Full-hydraulic control, oil-cooled
r	nultiple-disc type on front and center axles
Parking brake	Spring applied, caliper disc type
RetarderFr	ont and center axle brakes act as retarder

ARTICULATED DUMP TRUCK

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

WEIGHT (APPROXIMATE)
Empty weight
Gross vehicle weight
Empty: Front axle
Center axle
Rear axle
Loaded: Front axle
Rear axle



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SERVICE REFILL CAPACITIES

Torque converter, transmission and Suspension (total) 21.2 ltr. 5.6 U.S. Gal

LIGHTING SYSTEM:

• Engine underguard

SAFETY EQUIPMENT:

• Alarm, backup

• Horn, electric

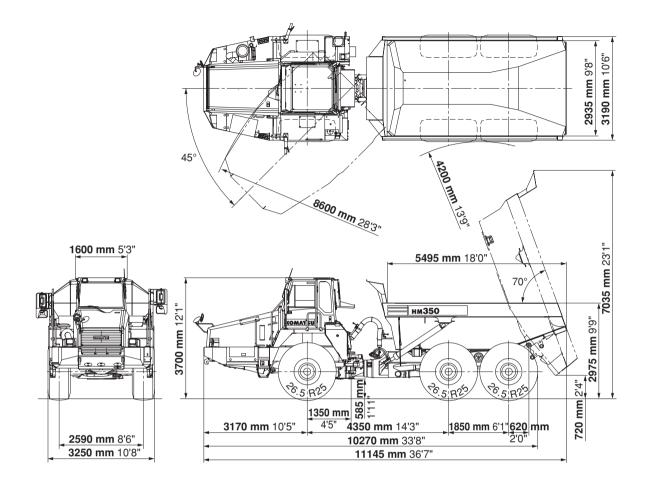
Rearview mirrors

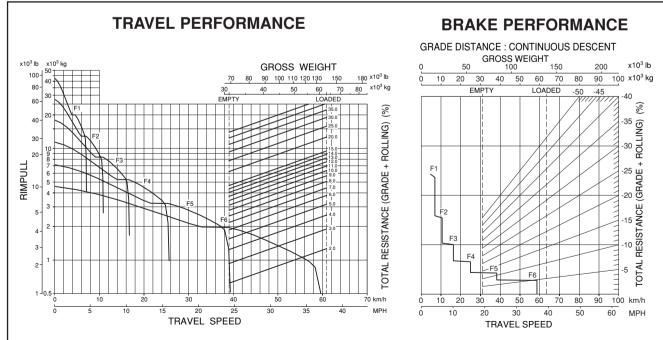
• Under view mirrors

Back-up light

Hazard lights

DIMENSIONS





6.00 STANDARD EQUIPMENT FOR BASE MACHINE

ENGINE:

- Alternator, 60A/24V
- Batteries, 2 x 12V/136Ah
- Engine, Komatsu SAA6D140E-5
- Exhaust muffler • Starting motor, 1 x 11.0 kW

CAB:

- Air conditioner Ashtray
- Cigarette 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
- Sun visor, front window
- Tiltable ROPS cab with FOPS, sound suppression type
- Two doors, left and right

6.00 OPTIONAL EQUIPMENT

CAB:

- Power window (R.H)
- Radio, AM/FM
- Radio, AM/FM with cassette

BODY:

- Body exhaust heating kit
- Body liner

LIGHTING SYSTEM:

- Back work lights, left and right side
- Fog lights
- Yellow beacon

SAFETY:

• Rear view camera and monitor

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 Rock body • Tail gate, wire type • Upper side extension, 200 mm 8"

ARTICULATED DUMP TRUCK

HM350-2R

 Headlights with dimmer switch • Indicator, stop and tail lights

GUARD AND COVERS:

• Exhaust muffler thermal guard • Fire prevention covers Propeller shaft guards, front and rear • Transmission underguard

BODY:

Electronic hoist control system

- TIRES:
- 26.5 R25

OTHER:

- Centralized greasing
- Differential locks in all axles, clutch type
- Electric circuit breaker, 24V
- Mud guards
- Side marker

• Anti-slip material on fenders • Automatic supplementary steering Coolant temperature alarm and light Hand rails for platform

• Ladders, left and right hand side Protective grille for rear window

• Steering joint locking assembly

OTHER:

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