KOMATSU®

HM350-2
With Tier 3 Engine

GROSS HORSEPOWER

304 kW 408 HP

NET HORSEPOWER

294 kW **394 HP**

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

HM 350





WALK-AROUND

The HM350-2 with the new EPA Tier 3 and EU Stage 3A emissions certified "ecot3" engine offers all around maximum productivity with more horsepower and many features that enhance efficiency, while reducing maintenance costs. From rough terrain construction sites to landfills, the HM350-2 has the competitive advantage.

Tiltable cab can be tilted rearward **32°** 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 excellent visibility
- · Air suspension seat is standard
- Power windows
- Electric heated rear window

High performance and environment-friendly SAA6D140E-5 ecot3 engine

- Gross horsepower 304 kW 408 HP
- North American EPA Tier 3 and EU Stage 3A emissions certified
- 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 8.6 m 28'3"
- Tilt and telescoping steering column fits any operator

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.

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 trailing arm

suspension for all terrains.

The hydro-pneumatic suspension in both front and rear suspensions assures a comfortable ride even over rough terrain and keeps the tires on the ground at all times.

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 or the transmission will automatically shift through all the gears.

Easy-to-load body

- 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 hardness



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

- Fully hydraulic controlled wet multiple-disc service brakes
- Retarder Absorbing Capacity (continuous descent)
 444 kW 595 HP

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 axle's differentials 100% for maximum traction.

PRODUCTIVITY FEATURES

The combination of high horsepower and an efficient engine with low emissions delivers maximum productivity at the lowest cost.



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 and EU Stage 3A 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, and an efficient turbo-charger enables the engine to be North American EPA Tier 3 and EU stage 3A emissions certified. 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 high production under high ground resistance is required.

Economy mode

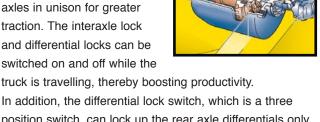
Engine speeds for the maximum horsepower output, downshift, and upshift are set to a lower level. It is appropriate for lighter work applications.

Komatsu Designed Electronically Controlled Countershaft Transmission

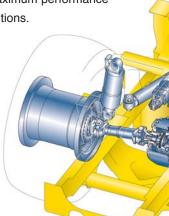
The Komatsu designed Electronically Controlled
Transmission with K-ATOMiCS has been a proven success in Komatsu's rigid dump trucks. The electronic clutch modulation system ensures proper clutch pressure when the clutch is engaged. The total control system controls both the engine and transmission by 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

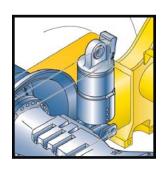


In addition, the differential lock switch, which is a three position switch, can lock up the rear axle differentials only, or all axles for maximum performance in the worst conditions.



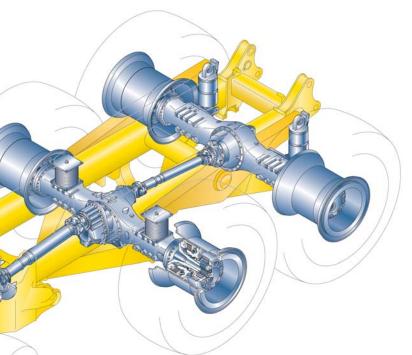
Hydro-Pneumatic Trailing Arm Suspension

The hydro-pneumatic suspension has been proven on Komatsu's rigid dump trucks. The front axle hydro-pneumatic suspension employs a "De Dion" type design. The suspension is a trailing arm design which allows the truck to ride smoothly. The rear-axles are mounted on a dynamic equalizer structure equipped with hydro-pneumatic suspension. The entire vehicle's hydro-pneumatic suspension delivers a comfortable ride and maximizes productivity.



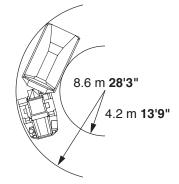
Large Capacity Body and Box Section Frame Structure

The 19.8 m³ 25.9 yd³ heaped capacity body is among the highest capacity in its class. 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 and retains the load. 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.



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 when travelling downhill. Retarder Absorbing Capacity (continuous descent): 444kW 595HP.

OPERATOR ENVIRONMENT

The Komatsu cab is a state-of-the-art, wide comfortable cab. The low level of vibration and noise, plus the excellent visibility, ensure maximum productivity from the operator.

Low-Noise Designed Cab

Integrated cab and floor provide an airtight cab. Engine compartment is also sealed. The low noise and sound insulated muffler/exhaust pipe contribute to reducing sound levels. The combined features 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 the operator's seat positioned to the left side ensures excellent 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 for greater productivity.

The front under view mirrors are increased to three from one, and the rear view mirrors increased to four from two.

Newly employed laminated glass in the windshield has been installed. 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



Built-In ROPS/FOPS Level 2

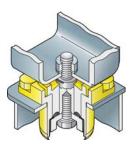
These structures conform to OSHA/MSHA requirements.

Hydro-Pneumatic Suspension for All Terrains

The hydro-pneumatic suspension, for both front and rear axles, 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 truck and reduces operator fatigue as well as holding the operator securely to assure confident operation.

Electric Body Dump Control Lever

The low effort lever makes dumping easier than ever.

Supplementary Steering and Secondary Brakes

Supplementary steering and secondary brakes are standard features.



EASY MAINTENANCE

The HM350-2 has been designed to keep service time down and productivity up with a reduced number of grease points, easy access to filters, and longer intervals between oil changes.

Tiltable Cab

The cab can be tilted rearward **32°** to provide easy maintenance/service for the engine and transmission.

Note: An external hydraulic pump and cylinder 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



Shields and Guards

The following shields and guards are provided as standard:

- Rear window grill
- Engine underguard
- Transmission underguard
- Driveline guards, front and rear
- Exhaust thermal shields
- Front and rear tire mud flaps



SPECIFICATIONS



ENGINE

Model
Bore
Stroke
Piston displacement
Horsepower
SAE J1995 Gross 304 kW 408 HP
ISO 9249 / SAE J1349 Net 294 kW 394 HP
Rated rpm
Fan drive type Mechanical
Maximum torque
Fuel system Direct injection
Governor Electronically controlled
Lubrication system
Method
Air cleaner Dry type with double elements and
precleaner (cyclopack type), plus dust indicator
EPA Tier 3 and EU stage 3A emissions certified.



TRANSMISSION

Torque converter	Full-automatic, counter-shaft type 6 speeds forward and 2 reverse
Forward	Wet, single-disk clutch
direct drive	in 1st lockup and all higher gears
Reverse Torque convert	
Shift control Ele	ctronic shift control with automatic clutch modulation in all gear
Maximum travel speed	57.1 km/h 35.5 mph



AXLES

Full time all wheel drive with 100% differential lock in all axles.
Final drive type Planetary gear
Ratios:
Differential
Planetary



SUSPENSION SYSTEM

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



STEERING SYSTEM

Туре	Articulated type, fully hydraulic power steering
	with two double-acting cylinders
Supplementary steering	J Automatically actuated,
	electrically powered
Minimum turning radius	, wall to wall 8.6 m 28'3"
Articulation angle	45° each direction



BRAKES

Service brakes	Full-hydraulic control, oil-cooled
0011100 0101100 1111111	multiple-disc type on front and center axles
Parking brake	Spring applied, caliper disc type
Retarder	Front and center axle brakes act as retarder



MAIN FRAME

Type	Articulated type, box-sectioned
	construction on front and rear
	Connected by strong torque tubes.



BODY

Capacity:	14.6 m³ 19.1 yd ³
	. 32.3 metric tons 35.6 U.S. tons
Material	130 kg/mm ² 185,000 psi
	high tensile strength steel
Material thickness:	
Bottom	16 mm 0.63 "
Front	8 mm 0.31"
Sides	
Target area	
	5495 mm x 2935 mm 18'0" x 9'8" Exhaust heating (option)



HYDRAULIC SYSTEM

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



CAE

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



WEIGHT (APPROXIMATE)

Empty weight	
Empty: Front axle	57.4%
Center axle	
Rear axles	21.0%
Loaded: Front axle	31.8%
Center axle	34.2%
Rear axles	34.0%



TIRES

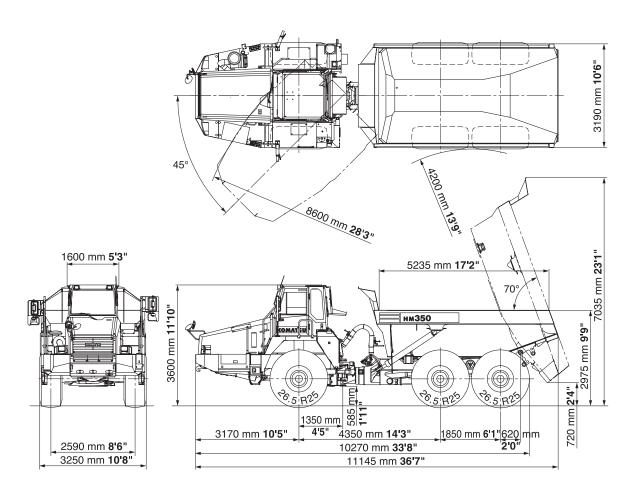
Standard tire		26.5 R25
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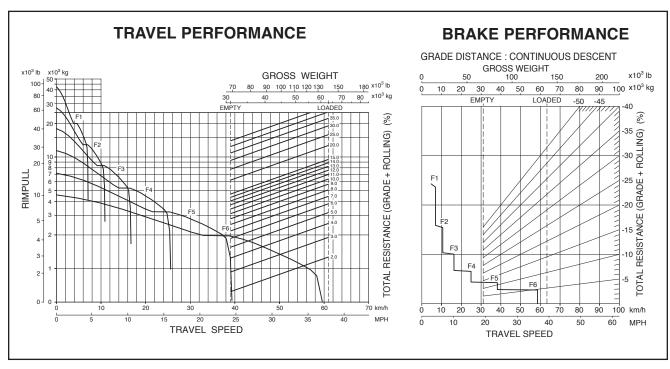


SERVICE REFILL CAPACITIES

Fuel tank	130.3 U.S. Gai
Engine oil	13.2 U.S. Gal
Torque converter, transmission and	
retarder cooling115 ltr.	30.4 U.S. Gal
Differentials (total)	21.8 U.S. Gal
Final drives (total)	10.0 U.S. Gal
Hydraulic system	47.6 U.S. Gal
Suspension (total)	5.6 U.S. Gal







ARTICULATED DUMP TRUCK



STANDARD EQUIPMENT FOR BASE MACHINE

ENGINE

- Alternator, 50A/24V
- Air cleaner, dry type with double elements and precleaner, plus dust indicator
- Batteries, 170 Ah/2 x 12V
- Electric governor
- Engine, Komatsu SAA6D140E-5, turbocharged and air-to-air aftercooled, high pressure common rail injection system, 2006 NA Tier 3 certified, diesel
- Exhaust muffler with stack
- Full-automatic F6 R2 transmission with K-ATOMiC shift control and automatic T/C lockup
- Starting motor, 11.0 kW
- · Separator, fuel/water

CAB

- 12 volt outlet port
- Air conditioner/heater/defroster, electronically controlled
- · Ashtray and cigarette lighter
- Cup holder
- Dual entry
- Electronic hoist control system
- Electronic maintenance display/ monitoring system
- Floor mat
- Heater rear window
- Operator seat, reclining air suspension type
- Power windows
- Radio AM/FM with cassette
- Rear window grill

- ROPS/FOPS Level 2
- Seat belt, passenger and operator,
 78 mm 3" wide retractable
- Storage space under seat and right armrest
- Sun visor, front window
- Tilt and telescopic steering wheel
- Tilt cab arrangement for easy serviceability
- Tinted glass
- Windshield washer and wiper (front and rear)

LIGHTING SYSTEM

- Back-up light
- Hazard light system
- · Headlights with dimmer switch
- Stop, tail and turn signal lights
- Working lights, front

SHIELDS AND GUARDS

- Engine underguard
- Driveline guards, front and rear
- Transmission underguard
- Front and rear tire mud flaps
- Exhaust thermal shields

MONITORING SYSTEM

- Instrument panel (digital display with service meter and odometer, fuel gauge, speedometer, tachometer, coolant temperature, torque converter oil temperature, retarder oil temperature)
- Warning light and alarm system (parking brake, dump body float, fuel, secondary

steering, coolant temperature, torque converter oil temperature, retarder oil temperature, battery charge, steering oil temperature, engine oil pressure, retarder oil pressure, tilt caution, engine system, transmission system, retarder system)

OTHER STANDARD EQUIPMENT

- Alarm, backup
- Body, 19.8 m³ 25.9 yd³
- Centralized greasing
- Differential lock in all axles, clutch type with electric controls
- Electric circuit breaker, 24 volt
- Hand rails for platform
- Horn, electric
- Hydropneumatic suspension, front and rear
- Interaxle lockup, clutch type
- KOMTRAX™
- Ladders, left and right hand side
- Payload, dump counter
- Provision for tailgate
- Rearview mirrors
- Rearview mirrors, additional, left- and right-hand side
- Retarder/brake system, continuously cooled
- Rims for 26.5 x 25 tires (set of 6)
- Steering system, automatic electric supplemental
- Under view mirror, front



BODY

- Delete body
- Body exhaust heating kit
- Tail gate, scissors type

LIGHTING SYSTEM

- Foa lights
- Side work lights, left and right side

OTHER

Alternator, 75A/24V

TIRES

Bridgestone . . 26.5R25 VLT

• Michelin 26.5R25 XADN

• Goodyear 26.5R25 XADT



- Automatic lubrication
- Body liners, steel and poly
- Body sideboards 203 mm 8" high
- Tailgate field kit



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