KOMATSU®

HM350-1

GROSS HORSEPOWER

298 kW 399 HP

NET HORSEPOWER

290 kW 389 HP

MAXIMUM GVW 60,925 kg 134,320 lb

> HM 350





ARTICULATED DUMPTRUCK

HM350-1 Articulated Dump Truck

The HM350-1 offers all around maximum productivity with faster travel speed and many features that enhance efficiency, while reducing maintenance costs. From construction sites to landfill - the HM350-1 excels.

Wide, spacious cab

- The wide cab offers a comfortable operator environment
- Viscous mounts support the cab while absorbing vibrations and noise
- Interior noise level 76 dB(A)

High performance and environment-friendly SAA6D140E-3 engine

- . Gross horsepower 298 kW 399 HP
- Meets North American EPA Tier II emission regulations for 2001

Tiltable cab can be tilted rearward to provide easy service.



Fully hydraulic articulated steering

- · Light and easy operation
- Minimum turning radius 8.4 m 27"7"

Interaxle and differential locks for 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.

HM350-1

ARTICULATED DUMP TRUCK

GROSS HORSEPOWER 298 kW 399 HP @ 2000 rpm

NET HORSEPOWER 290 kW 389 HP @ 2000 rpm

> MAXIMUM GVW 60,925 kg 134,320 lb

Komatsu designed, electronically controlled transmission for a comfortable ride.

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

Easy-to-Load Body

- Heaped capacity 19.8 m³ 25.9 yd³
- Low loading height 2840 mm 9'4"
- Robust body constructed of thick wearresistant steel having 400 Brinell hardness



Hydropneumatic Suspension for all terrains.

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

Maintenance-free oscillating hitch with tapered roller bearings

means lower operating costs by eliminating the need to lubricate the hitch.

Reliable, continuously cooled, wet type multiple-disc brake and retarder

- . Fully hydraulic controlled wet multiple-disc brake
- Retarder Absorbing Capacity (continuous descent)
 405 kW 544 HP
 583 kW 782 HP (with optional exhaust retarder)



Komatsu's highly productive, innovative technology, environmentally friendly machines built for the 21st century.

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

High Performance SAA6D140E-3 Komatsu Engine

This engine delivers faster acceleration and higher travel speeds with the highest horsepower per ton in its class. Advanced technology, such as Common Rail Injection system (CRI), air to air aftercooler, and an efficient turbo-charger enables the engine to meet the North American EPA Tier II emission regulations. High torque at low speed, impressive acceleration, and low fuel consumption ensures maximum productivity.



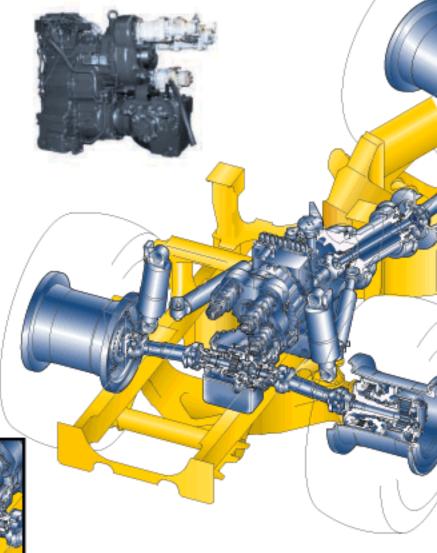
Komatsu Designed Interaxle and Differential Locking Systems

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.

Komatsu Designed Electronically Controlled Countershaft Transmission

The Komatsu designed Electronically Controlled Transmission called K-ATOMiCS has been successfully employed 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.



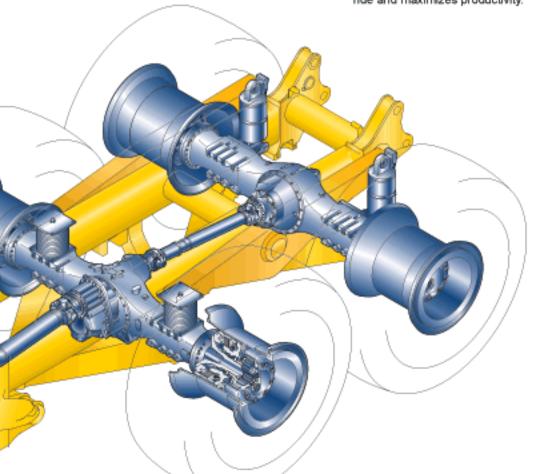


Hydro-pneumatic Suspension

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.





Large Capacity Body and Box Section Frame Structure

The 19.8 m³ 25.9 yd³ heaped capacity is among the highest in its class. The low loading height of 2840 mm 9'4" enables easy loading. The body is built of thick 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 high strength low alloy steel.

Hydraulically Controlled Wet Multiple-Disc Brakes and Retarder

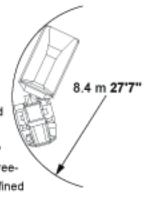
Wet multiple-disc brakes have been proven on Komatsu dump trucks and wheel loaders ensuring highly reliable and stable brake performance. The large-capacity, continuously cooled, wet-multiple disc brakes also function as a highly responsive retarder which gives the operator greater confidence at higher speeds when travelling downhill. Retarder Absorbing Capacity (continuous descent):

405 kW 544 HP

583 kW 782 HP (with optional exhaust retarder)

Articulated Steering

Fully hydraulic articulated steering offers low-effort operating performance and maneuverability. A minimum turning radius of only 8.4 m 27'7" provides the freedom to move about in confined areas.



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Komatsu has developed a state-of-the-art, wide comfortable cab. The low level of vibration and noise ensure maximum productivity from the operator.

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 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.

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. Problems are recorded in the monitor and indicated as service codes. This 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

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

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

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 Lever

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, SAE J1473



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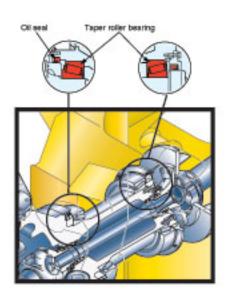
VIVILLEUTVICE

The HM350-1 has been designed to keep service time down and productivity up by having a maintenance-free oscillating hitch, a reduced number of grease points, easy access to filters, and longer intervals between oil changes.

Tiltable Cab

The cab can be tilted rearward 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 removing only eight bolts.





Fewer Grease Points

The number of grease points are minimized by using maintenance-free rubber bushings and a maintenance-free oscillating hitch.

Extended Service Intervals

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

- · Engine oil 500 hours
- · Transmission oil 1000 hours
- · Engine and transmission filters 500 hours

Guards

The following guards are provided as standard:

- Protective grille for rear window
- · Engine underguard
- · Transmission underguard
- · Propeller shaft guards
- Exhaust thermal guard
- · Fire prevention covers



ジャミじけいひいけい



ENGINE

| Model Komatsu SAA6D140E-3 Type Water-cooled, 4-cycle Aspiration Turbo-charged and air-to-air after-cooled |
|---|
| Number of cylinders |
| Bore |
| Stroke |
| Piston displacement |
| Performance: |
| Gross horsepower |
| Flywheel horsepower |
| Rated RPM |
| Maximum torque |
| Fuel system Direct injection |
| Governor Electronically controlled |
| Lubrication system |
| Method Gear pump, force-lubrication |
| Filter Full-flow type |
| Air cleaner Dry type with double elements and |
| precleaner (cyclopack 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 |
| 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 |



AXLES

| Full time all wheel drive with | 1 100% differential | lock in all axles. |
|--------------------------------|---------------------|--------------------|
| Final drive type | | Planetary gear |
| Ratios: | | |
| Differential | | 3.231 |
| Planetany | | 4 941 |



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 (meets SAE J695B) |
| Minimum turning radius, wall to wall 8.4 m 277" |
| Articulation angle |
| |



| Service brakes Full-hydraulic control, oil-cooled | i |
|---|---|
| multiple-disc type on all wheels | |
| Parking brake | |



MAIN FRAME

| Type | rticulated type, | box-sectioned |
|------|----------------------|----------------|
| | construction on | front and rear |



BODY

| Capacity: |
|---|
| Struck |
| Heaped (2:1, SAE) |
| Payload |
| Material |
| high tensile strength steel |
| Material thickness: |
| Bottom |
| Front |
| Sides |
| Target area |
| (inside length x width) 5285 mm x 2995 mm 17'4" x 9'10" |
| Heating Exhaust heating (option) |



HYDRAULIC SYSTEM

| Hoist cylinder | T | win, 2 -stage telescopic type |
|-----------------|---|--|
| Relief pressure | | 6 Mpa 210 kg/cm ² 2,990 PSI |
| Hoist time | | |



CAR

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



WEIGHT (APPROXIMATE)

| Empty weight | | | - | - | | - | - | | . 2 | 28 | 58 | 50 | k | g | | 6 | 2, | 94 | וס | b |
|----------------------|---|------|-------|---|---|---|---|--|-----|----|----|----|---|---|---|---|----|-----|-----|----|
| Gross vehicle weight | | | | | | | | | . (| 30 | 90 | 25 | k | g | 1 | 3 | 4, | 32 | 0 1 | b |
| Weight distribution: | | | | | | | | | | | | | | | | | | | | |
| Empty: Front axle | | | | | | | | | | | | | | | | | | 55 | 59 | 16 |
| Center axle. | _ | | | | | | | | | | | | | | | | 2 | 2.2 | 59 | Ж, |
| Rear axles . | | | | | | | | | | | | | | | | | 2 | 2.2 | 59 | Ж, |
| Loaded: Front axle. | | | | | | | | | | | | | | | | | | 30 | 49 | Ж, |
| Center axle | | | | | | | | | | | | | | | | | | 34 | 89 | Ж, |
| Rear axles | - | | | | - | | | | | | | | | | | | | 34 | 89 | Ж, |



TIRES

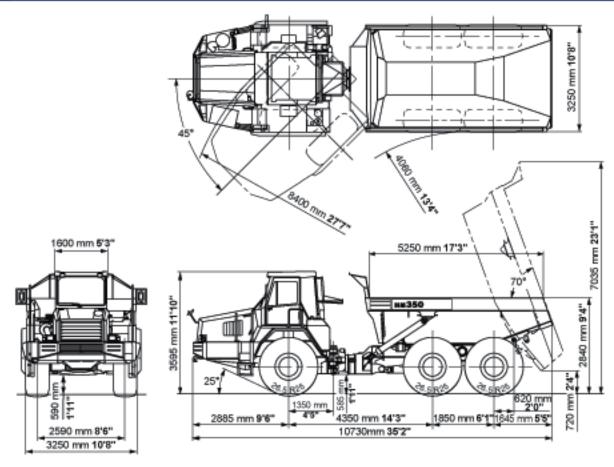
| Standard tire. | | 26.5 R25 |
|----------------|--|----------|
|----------------|--|----------|

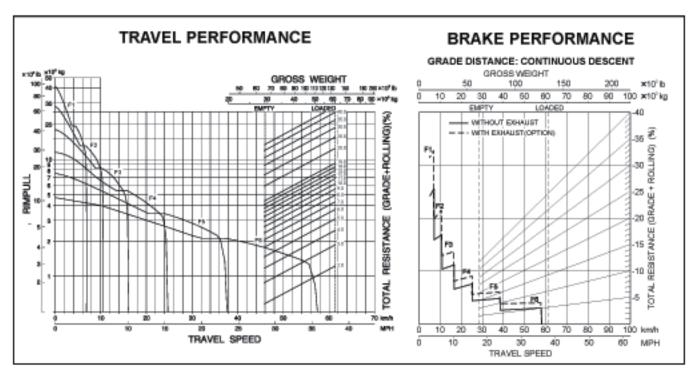


SERVICE REFILL CAPACITIES

| Fuel tank | | 495 Rr. 130,8 U.S. Gai |
|-----------------------|------|------------------------------|
| Engine oil | | . 52 ltr. 13.7 U.S. Gal |
| Torque converter, t | | |
| retarder cooling | | . 115 ltr. 30.4 U.S. Gal |
| Differentials (total) | | . 85 ltr. 22.5 U.S. Gal |
| Final drives (total) | | 27 ltr. 7.1 U.S. Gal |
| Hydraulic system . | | . 180 ltr. 47,6 U.S. Gal |
| Suspension (total) | | . 20.4 ltr. 5.4 U.S. Gal |











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-3, turbocharged and air to air aftercooled, high pressure common rail injection system, 2001 NA Tier II 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

- 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
- Power windows
- Radio AM/FM with cassette
- Rear window guard
- · Seat, air suspension, reclining (fabric)
- Seat, passenger, with 3" seat belt

- Seat belt,operator's, 3" width, 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

GUARD AND COVERS:

- Engine oil pan
- Driveline guards, front and rear
- Transmission underguard
- Mudguards for front and rear tires
- Exhaust/muffler thermal guard

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, 22.3 m³ 29.2 yd³
- Centralized greasing
- Differential lock in all axles, clutch type with electric controls
- Electric circuit breaker, 24 volt
- Electronic hoist control system
- · Hand rails for platform
- Hom, electric
- Hydropneumatic suspension, front and rear
- · Interaxle lockup, clutch type
- Ladders, left and right hand side
- Rearview mirrors
- Rearview mirrors, additional, left and right hand side
- Retarden/brake system, continuously cooled
- Steering system, automatic electric supplemental
- Tire, 26.5R25 Bridgestone VLT with rims
- Under view mirror, front



BODY:

- Delete body
- · Body exhaust heating kit
- Tail gate

LIGHTING SYSTEM:

- · Fog lights
- · Side working lights, left and right side

OTHER:

- Alternator, 75A, 24V
- · Batteries, large capacity

TIRES:

- Michelin 26.5R25 XADN
 - 26.5R25 XADT
- Goodyear 26.5R25 RL-2+
 - 26.5R25 GP4B

SUPPORT

Count on Komatsu and your local distributor for the support you deserve. Our success depends on satisfying your need for productive equipment and supporting that equipment. That's why we have one of the largest and strongest heavy-equipment distributor organizations in North America. Their personnel are not only trained to help you select the equipment that is best-matched for your business but to support that equipment.

Finance Through
its finance company,
Komatsu can offer you a
wide variety of financing
alternatives designed to meet
your needs. Programs include
municipal leases for governmental
agencies, conditional sales contracts,
and leases with \$1 purchase options
for customers interested in owning their
equipment. Ask your distributor about
Komatsu leasing. We offer finance and
operating leases and the unique Advantage
Lease which offers you predetermined pur-

Parts Three computer-linked parts distribution centers provide fast access to anywhere in the U.S. and Canada. Most parts are available overnight. Plus, Komatsu distributors keep a large assortment of commonly used parts in stock for immediate access.

chase, return, and renewal options.

Remanufactured parts Save money and still have the same warranty as new parts at a fraction of the cost with like-new remanufactured parts.

Maintenance Take advan-

tage of the experience we have gained and ask your distributor about our factory-supported programs including: regular scheduled maintenance, oil and wear analysis, diagnostic inspections, undercarriage inspections, training, special service tools, parts programs, and even a special software program to help your distributor keep track of and manage service-related data.

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