Lubrication-Free Oscillating Hitch

The lubricant-free oscillating hitch means lower operating costs.

Hydropneumatic Suspension for All Terrain

The hydropneumatic suspension assures a comfortable ride even over rough terrain.

Interaxle & Differential Locks for Excellent Traction in Rough Terrain

The oil-cooled multiple-disk interaxle lock and differential locks can be turned on and off during travelling. Also the differential locks can lock up all 3-axles differentials for maximum traction.

Reliable Wet Type Multiple-Disk Brake and Retarder

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

High Performance and Environment friendly SAA6D140E-3 Engine

- Gross Horsepower: 331 kW 444 HP

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).

Tiltable Cab

The cab can be tilted rearward to provide easy service.

Fully Hydraulic Articulated Steering

- Light and easy operation
- Minimum turning radius: 8.7 m 28' 7”

Easy-to-Load Body

- Heaped capacity: 22.3 m³ 29.2 yd³
- Low loading height: 2670 mm 9’
- Robust body constructed of thick wear-resistant steel having 400 Brinell hardness.
The combination of high travel speeds and an efficient engine with low emissions delivers maximum productivity at the lowest cost.

**High Performance SAA6D140E-3 Engine**
This engine delivers faster acceleration and higher travel speeds with the highest horsepower per ton in its class. Advanced technology, such as high-pressure electronic controlled injection system (CRI), air to air aftercooler and an efficient turbocharger enabling the engine to suit low emission. High torque at low speed, impressive acceleration and low fuel consumption ensure maximum productivity.

**Komatsu Designed Electronically Controlled Transmission**
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.

**Interaxle & 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.

**Fully Hydraulically Controlled Wet Multiple-Disk Brakes and Retarder**
Wet multiple-disk brakes have been proven on Komatsu’s rigid dump trucks and wheel loaders. They ensure highly reliable and stable brake performance. The large-capacity wet-multiple disk brakes also function as a highly responsive retarder which gives the operator great confidence while travelling downhill. Retarder Absorbing Capacity (continuous descent): 405 kW 544 HP 583 kW 782 HP (with optional exhaust retarder)

**Hydropneumatic Suspension**
The hydropneumatic suspension has been proven on Komatsu’s rigid dump trucks. The front axle 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 hydropneumatic suspension. The entire vehicle’s suspension system responds to the ground conditions. The suspension delivers a comfortable ride and maximizes the productivity.

**Large Capacity Body and Box Section Frame Structure**
The 22.3 m³ 29.2 yd³ heaped capacity is among the highest in its class, and the low loading height of 2970 mm 9’9” 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 HM400’s frame is designed using a rigid box structure with high strength low alloy steel.

**Articulated Steering**
Fully hydraulic articulated steering offers low-effort operating performance and maneuverability. A minimum turning radius of only 8.7 m 28’7” provides the freedom to move about in confined areas.
**Operator Environment**

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

**Wide, Spacious Cab**
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 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.

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

**Steering Wheel and Pedals**
Low effort pedals reduce driver 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.

**Easy Maintenance**

The HM400-1 has been designed to keep service time down and productivity up by having a lubrication-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.

**EASY MAINTENANCE**

The HM400-1 has been designed to keep service time down and productivity up by having a lubrication-free oscillating hitch, a reduced number of grease points, easy access to filters, and longer intervals between oil changes.

**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.

**Hydropneumatic Suspension for All Terrain**
The hydropneumatic suspension assures a comfortable ride even over rough terrain and ensures maximum productivity and operator confidence.

**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 extra light 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

**Fewer Grease Points**
We have minimized the number of grease points by using maintenance-free rubber bushings and a lubrication-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 & 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
STANDARD EQUIPMENT

- Space for lunch box
- Steering wheel, tilt & telescopic
- Sun visor, front window
- Two doors, left and right

Lighting system:
- Back-up light
- Hazard lights
- Headlights with dimmer switch
- Indicator and stop and tail lights

Safety:
- Anti-slip material on fenders
- Automatic supplementary steering
- Back-up alarm
- Coolant temperature alarm and light
- Hand rails for platform
- Electric horn
- Ladders, left and right side
- Protective grills for rear window
- Rear view mirrors
- Steering joint locking assembly

Under view mirror
- Engine guard
- Exhaust muffler thermal guard
- Fire prevention covers
- Propeller shaft guards, front and rear
- Transmission underguard

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

Body:
- Electric hoist control system

Tires:
- 29.5 R25

OPTIONAL EQUIPMENT

- Yellow beacon
- Additional retarding, engine exhaust
- Rear view camera and monitor
- Engine oil filter warning alarm and light

Arrangement:
- Batteries for cold area arrangement
- Cold area arrangement
- Poor fuel (contained water) arrangement
- Sandy and dusty area arrangement

Other:
- Alternator, 75A
- Auto-greasung system
- Fire extinguisher
- Gas charge tool
- Radiator shutter, canvas type
- Spare parts for first service
- Tool kit
- Vandalism protection

Tires:
- 875/65 R29

ENGINE

Model: KOMATSU SAA6D140E-3
Type: Water-cooled, 4-cylinder, direct injection
Governor: Electronically controlled

Torque converter, transmission and retarder cooling: Electrically powered

Performance:
- Gross horsepower: 430 HP
- Flywheel horsepower: 430 HP
- Rated RPM: 2000 RPM
- Max. torque: 1,529 lb·ft
- Fuel system: Direct injection

Transmission:
- Oil type with double elements and precleaner, plus dust indicator

Torque converter: 3 elements, 1-stage, 2-phase
Transmission: Full automatic, counter-shaft type
Speed range: 6 speeds forward and 2 reverse
Shift control: Electronically controlled with automatic clutch modulation in all gear

Payload:
- 29.2 cu.yd
- 208.5 kg.m
- 331 kW
- 586.9 km/h
- 29.2 cu.yd
- 208.5 kg.m
- 331 kW
- 586.9 km/h

GUARDIAN UNDERGROUN

- Fuel system: Direct injection
- Governor: Electronically controlled
- Transmission: Direct injection
- Torque converter: Direct injection

AXLES

Full time all wheel drive with 100% differential lock in all axles

Differential:
- Planetary gear

Planetary gear:
- 3.417

Suspension system:
- Combined hydropneumatic suspension
- 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: 18.7 m 38”
Articulation angle: 45˚ each direction

Service brakes:
- Full-hydraulic control, oil-cooled, multi-disc type
- Retarder:

Service Refill Capacities

- Fuel tank: 495 lb., 130.8 U.S. gal
- Engine oil: 52 lb., 13.7 U.S. gal
- Torque converter, transmission and retarder cooling: 115 lb., 30.4 U.S. gal
- Hydraulics (total): 844 lb., 14.4 U.S. gal
- Battery: 35 lb., 9.2 U.S. gal
- Hydraulics (total): 180 lb., 47.6 U.S. gal
- Suspension (total): 29.5 lb., 9.9 U.S. gal