

# KOMATSU®

# HM400-5

EPA Tier 4 Final Engine

Australia & New Zealand Specifications

**ARTICULATED TRUCK**

HM400



Photos may include optional equipment.

**HORSEPOWER**

Gross: 473 HP 353 kW  
Net: 466 HP 348 kW

**PAYLOAD**

40,000 kg

**BODY CAPACITY**

Heaped (SAE 2:1): 24.0 m<sup>3</sup>

# SPECIFICATIONS



## ENGINE

Model .....	Komatsu SAA6D140E-7*
Type .....	Water-cooled, 4-cycle
Aspiration .....	Komatsu variable geometry, turbo-charged, after-cooled, cooled EGR
Number of cylinders .....	6
Bore .....	140 mm
Stroke .....	165 mm
Piston displacement .....	15.24 ltr
Horsepower:	
SAE J1995 .....	Gross 353 kW 473 HP
ISO 9249 / SAE J1349 .....	Net 348 kW 466 HP
Rated rpm .....	2000 rpm
Fan drive type .....	Hydraulic
Maximum torque .....	2257 N•m 230 kg•m
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 (cyclonpack type), plus dust indicator

\*EPA Tier 4 Final emissions certified



## 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 .....	55.9 km/h



## AXLES

Full time all wheel drive .....	
Final drive type .....	Planetary gear
Ratios:	
Differential .....	3.727
Planetary .....	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
Standard .....	ISO5010, SAE J1511
Minimum turning radius, wall to wall .....	8.8 m
Articulation angle .....	45° each direction



## CAB

Standard .....	ISO3449 (FOPS) ISO3471 (ROPS)
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## BRAKES

Service brakes .....	Full-hydraulic control, oil-cooled multiple-disc type on front and centre axles
Standard .....	ISO3450
Parking brake .....	Spring applied, caliper disc type
Retarder .....	Front and centre axle brakes act as retarder



## MAIN FRAME

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

Capacity:	
Struck .....	18.2 m <sup>3</sup>
Heaped (2:1, SAE) .....	24 m <sup>3</sup>
Payload .....	40 metric tons
Material .....	130 kg/mm <sup>2</sup> high tensile strength steel
Material thickness:	
Bottom .....	16 mm
Front .....	8 mm
Sides .....	12 mm
Target area (inside length x width) .....	5667 mm x 3194 mm
Heating .....	Exhaust heating (option)



## HYDRAULIC SYSTEM

Hoist cylinder .....	Twin, telescopic type
Relief pressure .....	28.4 MPa 290 kg/cm <sup>2</sup>
Hoist time .....	12.0 sec



## WEIGHT (APPROXIMATE)

Empty weight .....	35055 kg
Gross vehicle weight .....	75135 kg
Weight distribution:	
Empty: Front axle .....	56.9%
Centre axle .....	23.6%
Rear axle .....	19.5%
Loaded: Front axle .....	30.4%
Centre axle .....	35.8%
Rear axle .....	33.8%



## TYRES

Standard tyre .....	29.5 R25
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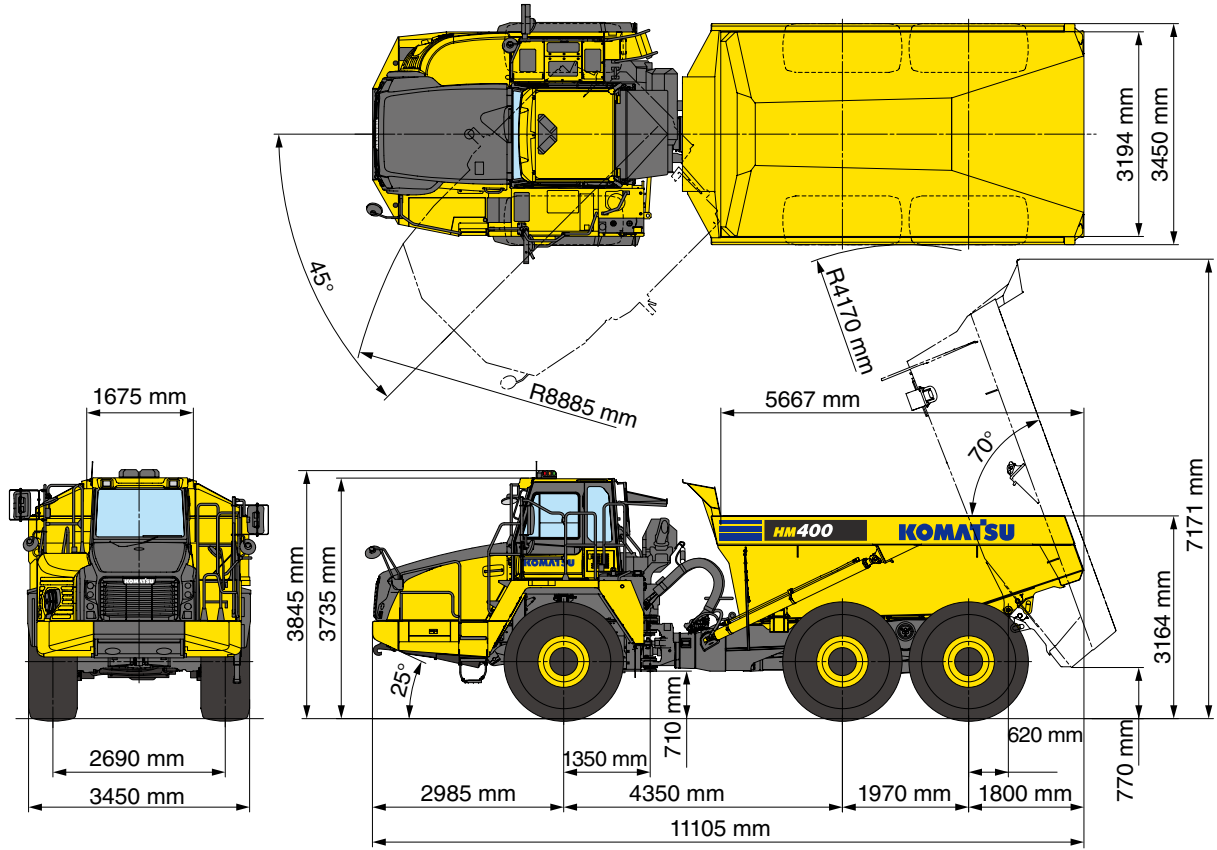
## SERVICE REFILL CAPACITIES

Fuel tank .....	525 ltr
DEF tank .....	34.0 ltr
Engine oil .....	50 ltr
Torque converter, transmission and retarder cooling .....	125 ltr
Differentials (total) .....	108 ltr
Final drives (total) .....	32 ltr
Hydraulic system .....	167 ltr
Suspension (total) .....	21.4 ltr

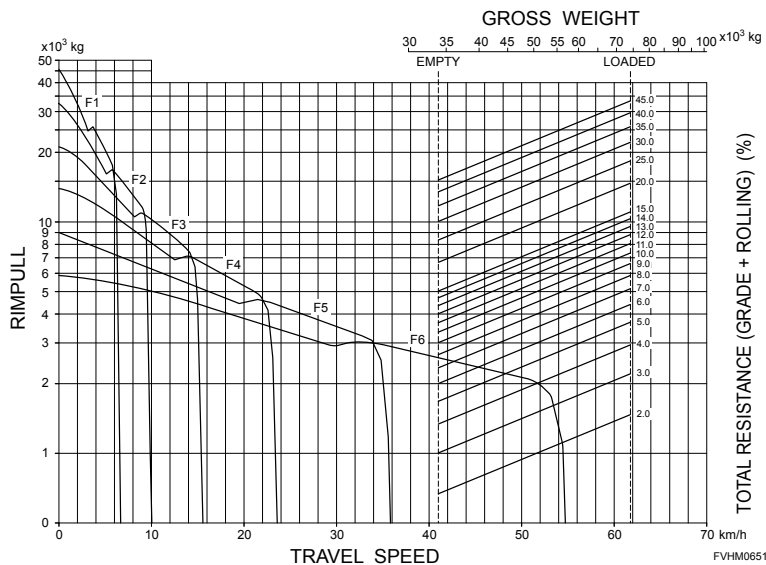
# SPECIFICATIONS



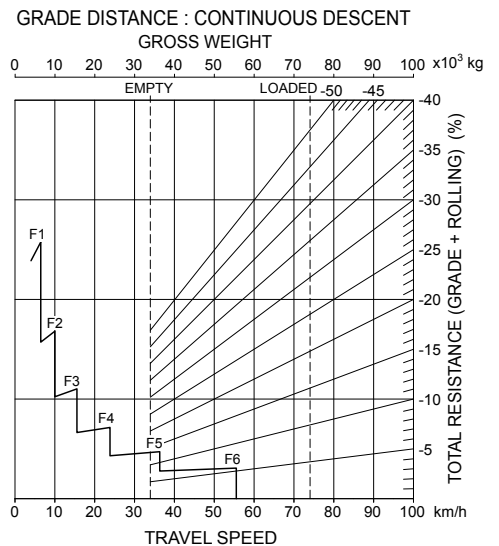
## DIMENSIONS



## TRAVEL PERFORMANCE (Power mode)



## BRAKE PERFORMANCE





## STANDARD EQUIPMENT FOR BASE MACHINE

### ENGINE

- Air cleaner, dry type, double elements and pre-cleaner, plus dust indicator
- Alternator, 90 A, 24 V
- Batteries, 2 x 12 V/160 Ah, 910 CCA
- Engine, Komatsu SAA6D140E-7 (with EGR)
- Hydraulic driven reversible cooling fan, after cooler
- Hydraulic driven reversible cooling fan, radiator
- Komatsu Diesel Particulate Filter (KDPF)
- Komatsu Variable Displacement Turbocharger
- Selective Catalyst Reduction (SCR) system
- Starting motor, 11.0 kW
- Two mode power system (Economy and Power)

### CAB

- 2 x DC12V electrical outlets
- Air conditioner
- AM/FM radio with AUX terminal
- Colour rear view monitor
- Front wiper (with washer and intermittent)
- Operator seat, reclining, air suspension type with 3-point retractable seat belt
- Passenger seat with 2-point retractable seat belt
- Power window (LH)
- Rear wiper (with washer)
- Steering wheel, tilt and telescopic
- Sun visor, front window
- Tilttable ROPS cab with FOPS, sound suppression type

### LIGHTING SYSTEM

- Back-up lamp
- Back work lamps, LH and RH side
- Flashing beacon, LED with guard
- Front, cab mounted work lamps
- Hazard lamps
- Head lamps (High/Low)
- LED reverse and articulation work area lights
- LED stop, tail and turn signal lamps

### GUARD AND COVERS

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

### BODY

- Body, 24.0m<sup>3</sup>, SAE 2:1 heaped (24.4m<sup>3</sup> with tailgate)
- Electronic hoist control system

### TYRES

- 29.5 R25

### OTHER

- Automatic greasing system
- Alarm, backup
- Anti-slip material on fenders
- Auto idle stop function
- Back-up alarm
- Lockable starter and battery isolation switch
- Coolant temperature alarm and lamp
- Dump counter
- Ecology guidance and ecology gauge
- Emergency stop switches (3)
- Electric circuit breakers, 24 V
- Electric priming fuel pump
- Engine shutdown secondary switch
- Full-automatic F6-R2 transmission with lock-up torque converter & K-ATOMIC shift control
- Guard rails
- Handrail with 100 mm kickplate
- Horn, electric
- Hydropneumatic suspension, front and rear
- KOWA live sampling points for engine, transmission, and hydraulic oil
- Komatsu Traction Control System (KTCS)
- KOMTRAX@ Level 5
- Mud guard
- Provision for fire suppression
- Provision for UHF radio, bracket and wiring
- Provision for 9 kg fire extinguisher
- Parking brake
- Payload Meter (PLM)
- Power cab tilt
- Protective grille for rear window
- Factory Tailgate Included
- Retarder, with Automatic speed control
- Rear view monitoring system
- Secondary brake
- Secondary steering, automatic, electric
- Side markers
- Steering joint locking assembly
- Step (right side) and ladder (left side)
- Tool box
- Wheel chocks, steel type
- Under view mirror



## OPTIONAL EQUIPMENT

- Bluetooth Radio
- Body Liners
- Body, with exhaust heating ducting, 24.0 m<sup>3</sup>, SAE 2:1 heaped, unlined floor
- Fire Extinguishers
- Fire Suppression
- Jump start receptacle
- UHF Radio

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