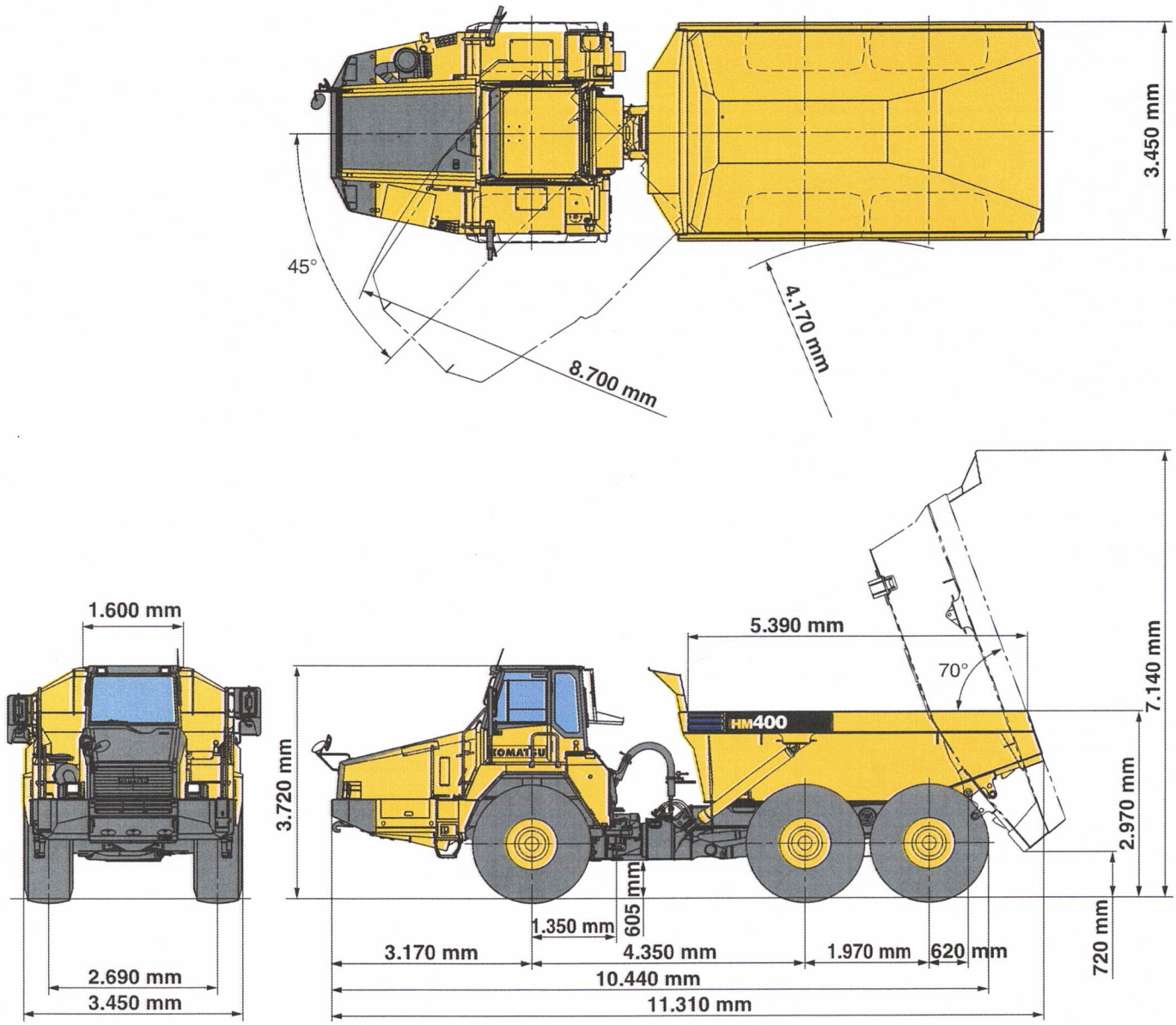
Dimensions & Performance Figures



All measurements with tyres 29.5 R25; if equipped with tyres 875/65 R29:
Overall height 3.740 mm, overall width 3.665 mm, tread 2.805 mm

Specifications

ENGINE

Model ..... Komatsu SAA6D140E-5
Type ..... Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power
at rated engine speed ..... 2.000 rpm
ISO 14396 ..... 338 kW / 453 HP
ISO 9249 (net engine power) ..... 327 kW / 438 HP
No. of cylinders 6
Bore × stroke ..... 140 × 165 mm
Displacement ..... 15,24 ltr
Max. torque ..... 213 kgf-m
Governor ..... Electronically controlled
Lubricating system ..... Gear pump, force lubrication
Filter ..... Full-flow filter
Air-filter type ..... Dry type with double elements and precleaner (cyclonpack 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
Lock-up clutch ..... Wet, single-disc clutch
Forward ..... Torque converter drive in 1st gear, direct drive in 1st lock-up and all higher gears
Reverse ..... Torque converter drive and direct drive in all gears
Shift control ..... Electronic shift control with automatic clutch modulation in all gears

Max. travel speeds:

	Forward						Reverse	
Gear	1.	2.	3.	4.	5.	6.	1.	2.
km/h	7,3	11,1	17,1	26,1	39,6	58,5	7,4	17,5

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 ..... 8,70 m
Articulation angle ..... 45° each direction

SUSPENSION

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

AXLES

Full time all wheel drive with limited slip differential in all axles.
Final drive type ..... Planetary gear
Ratios:
Differential 3,417
Planetary 4,941

BRAKES

Service brakes ..... Full-hydraulic control, oil-cooled multiple-disc type
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.

BODY

Capacity:
Struck ..... 16,5 m³
Heaped (2:1, SAE) ..... 22,3 m³
Payload ..... 36,5 tons
Material ..... 130 kg/mm² high tensile strength steel
Material thickness:
Bottom ..... 16 mm
Front ..... 8 mm
Sides ..... 12 mm
Target area (inside length × width) ..... 5.629 mm × 3.194 mm
Heating ..... Exhaust heating (option)

HYDRAULIC SYSTEM

Hoist cylinder ..... Twin, 2-stage type
Relief pressure ..... 20,6 MPa (210 kg/cm²)
Hoist time ..... 12 sec

CAB

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

WEIGHT (APPROX.)

Empty weight ..... 32.460 kg
Gross vehicle weight ..... 69.040 kg

Weight distribution
Empty:
- Front axle 55,0%
- Centre axle 22,9%
- Rear axle 22,1%

Loaded:
- Front axle 28,8%
- Centre axle 35,8%
- Rear axle 35,4%

TYRES

Standard tyres 29.5 R25

SERVICE REFILL CAPACITIES

Fuel tank ..... 493 ltr
Engine oil ..... 50 ltr
Torque converter, transmission and retarder cooling ..... 115 ltr
Differentials (total) ..... 97 ltr
Final drives (total) ..... 32 ltr
Hydraulic system ..... 180 ltr
Suspension (total) ..... 20,4 ltr

ENVIRONMENT

Engine emissions ..... Fully complies with EU Stage IIIA and EPA Tier III exhaust emission regulations

Noise levels
- LwA external ..... 110 dB(A) (2000/14/EC Stage II)
- LpA operator ear ..... 76 dB(A) (ISO 6396 dynamic test)

Vibration levels (EN 12096:1997)*
- Hand/arm ..... ≤ 2,5 m/s² (uncertainty K = 0,57 m/s²)
- Body ..... ≤ 0,5 m/s² (uncertainty K = 0,26 m/s²)

* for the purpose of risk assessment under directive 2002/44/EC, please refer to ISO/TR 25398:2006.