

# Specifications

## ENGINE

|                                   |   |
|-----------------------------------|---|
| Model .....                       | Komatsu SAA6D140E-6   |
|                                   | Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel |
| Engine power                      |   |
| at rated engine speed .....       | 2.000 rpm   |
| ISO 14396 .....                   | 353 kW / 473 HP   |
| ISO 9249 (net engine power) ..... | 350 kW / 469 HP   |
| No. of cylinders .....            | 6   |
| Bore × stroke .....               | 140 × 165 mm  |
| Displacement .....                | 15,24 ltr   |
| Max. torque .....                 | 2.263 Nm (231 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 speed ..... | 55,9 km/h  |

## 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 ..... | 8,80 m  |
| Articulation angle .....                   | 45° each direction  |

## SUSPENSION

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

## TYRES

|                      |          |
|----------------------|----------|
| Standard tyres ..... | 29.5 R25 |
|----------------------|----------|

## CAB

Complies ISO 3471 ROPS (Roll-Over Protective Structure) ISO 3449 FOPS (Falling Object Protection Structure) standards.

## AXLES

|   |                |
|---|----------------|
| Full time all wheel drive with Komatsu Traction Control System. |                |
| Final drive type .....  | Planetary gear |
| Ratios:   |                |
| Differential .....  | 3,272          |
| Planetary .....   | 4,941          |

## BRAKES

|                      |   |
|----------------------|---|
| Service brakes ..... | Independent front and center wheel brakes, full-hydraulic control, oil-cooled, multiple-disc type |
| Parking brake .....  | Spring applied, calliper 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. |
|------------|---|

## SERVICE REFILL CAPACITIES

|   |          |
|---|----------|
| Fuel tank .....   | 518 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 |

## HYDRAULIC SYSTEM

|                                 |                                  |
|---------------------------------|----------------------------------|
| Hoist cylinder .....            | 2 single stage cylinders         |
| Relief pressure .....           | 27 MPa (275 kg/cm <sup>2</sup> ) |
| Hoist time (at 1.800 rpm) ..... | 12 sec                           |

## ENVIRONMENT

|                                   |   |
|-----------------------------------|---|
| Engine emissions .....            | Fully complies with EU Stage IIIB and EPA Tier 4 interim exhaust emission regulations |
| Noise levels                      |   |
| LwA external .....                | 110 dB(A) (2000/14/EC Stage II)   |
| LpA operator ear .....            | 72 dB(A) (ISO 6396 dynamic test)  |
| Vibration levels (EN 12096:1997)* |   |
| Hand/arm .....                    | ≤ 2,5 m/s <sup>2</sup> (uncertainty K = 1,31 m/s <sup>2</sup> )                       |
| Body .....                        | ≤ 0,5 m/s <sup>2</sup> (uncertainty K = 0,42 m/s <sup>2</sup> )                       |

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

## WEIGHT (APPROX.)

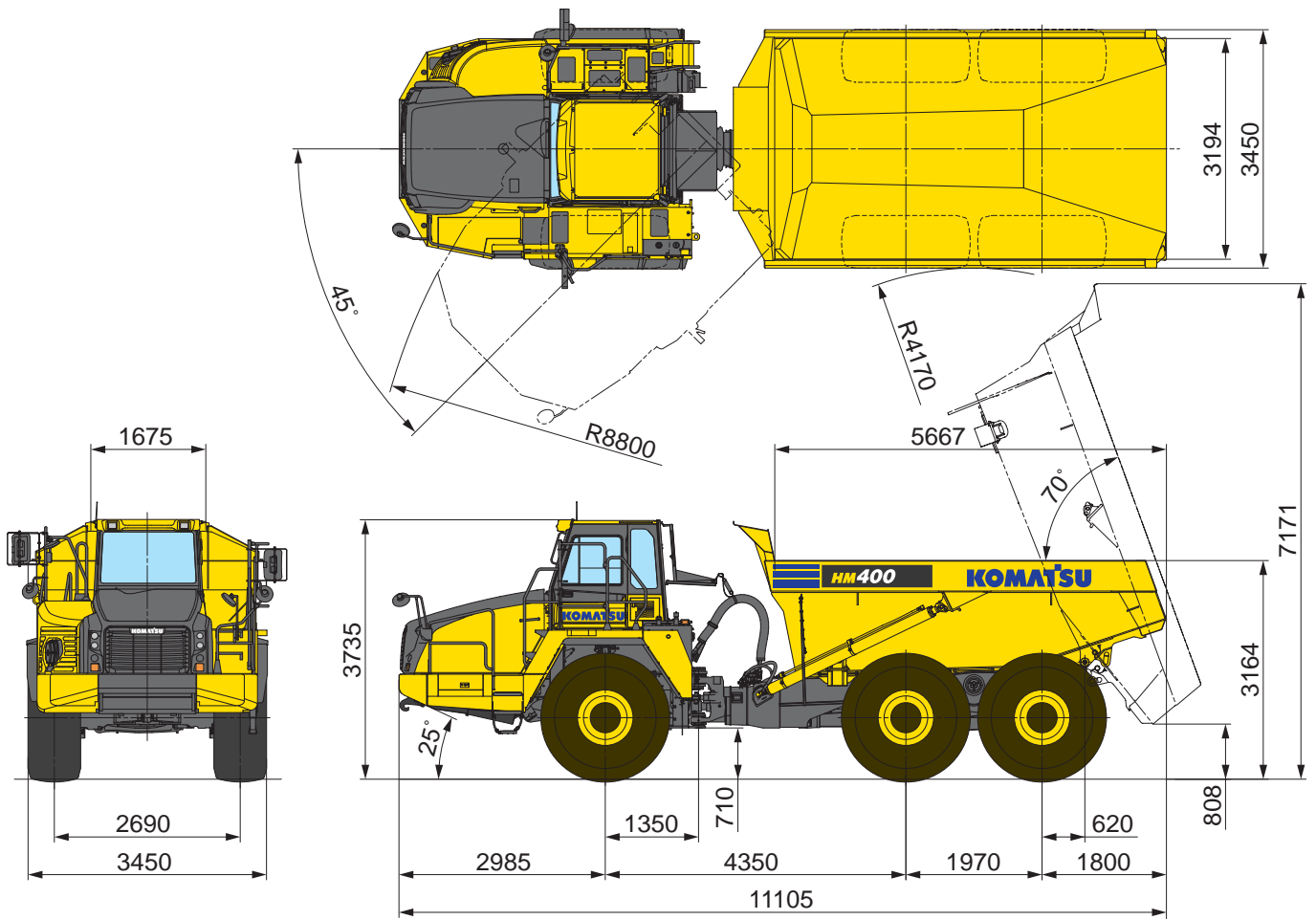
|                            |           |
|----------------------------|-----------|
| Empty weight.....          | 33.660 kg |
| Gross vehicle weight ..... | 73.740 kg |
| Weight distribution:       |           |
| Empty:                     |           |
| Front axle .....           | 56,4%     |
| Center axle.....           | 22,5%     |
| Rear axle.....             | 21,1%     |
| Loaded:                    |           |
| Front axle .....           | 29,4%     |
| Center axle.....           | 35,4%     |
| Rear axle.....             | 35,2%     |

## BODY

|  |   |
|--|---|
| Capacity:                                |   |
| Struck .....                             | 18,2 m <sup>3</sup>                                   |
| Heaped (2:1, SAE).....                   | 24,0 m <sup>3</sup>                                   |
| Payload.....                             | 40 tons   |
| Material.....                            | 130 kg/mm <sup>2</sup><br>high tensile strength steel |
| Material thickness:                      |   |
| Bottom .....                             | 14 mm   |
| Front.....                               | 8 mm  |
| Sides .....                              | 12 mm   |
| Target area (inside length × width)..... | 5.667 mm × 3.194 mm                                   |
| Heating .....                            | Exhaust heating (option)                              |



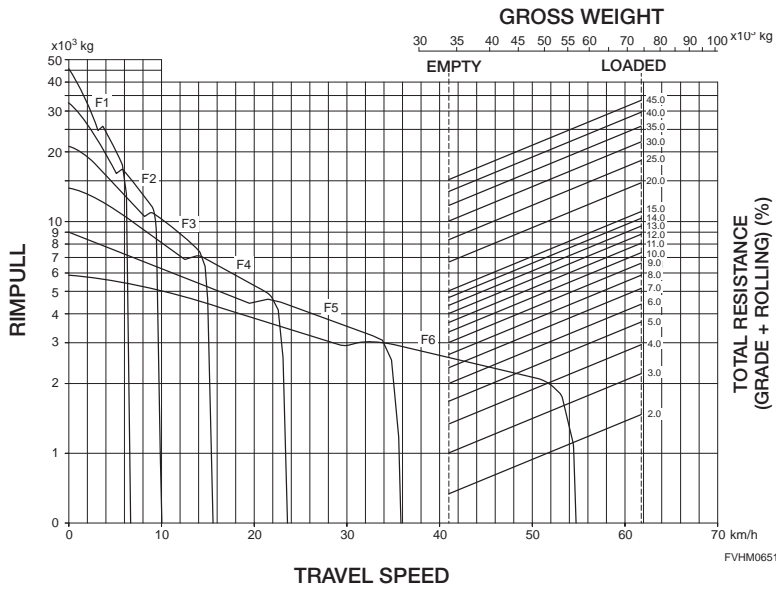
# Dimensions & Performance Figures



All measurements with tyres 29.5 R25



## TRAVEL PERFORMANCE



## BRAKE PERFORMANCE

