

HD785-7 sets new standards for performance and safety

Komatsu has released a new 91-tonne capacity rigid dump truck that raises the bar for this type of machine. The HD785-7 offers best-in-class engine power and brake retardation, as well as excellent fuel efficiency.

The HD785-7 has a Komatsu SAA12V140E-3 engine that delivers 1178 HP at 1900 rpm. This powerful and efficient engine provides impressive acceleration, low fuel consumption and a top speed of 65 km/h.

To optimise performance and fuel consumption, the engine is fitted with a variable horsepower control (VHPC). This system sets the maximum engine power to one of four levels to match the job being carried out and the working conditions. The operator chooses between power and economy mode, and the VHPC automatically detects whether the machine is loaded or unloaded. Consequently, the HD785-7 delivers excellent climbing ability when required and can reduce fuel consumption.

Ensuring the engine power is effectively harnessed, the HD785-7 has an advanced transmission with 7 forward and 2 reverse gears. The transmission includes Komatsu's electronically controlled clutch modulation system K-ATOMiCS, which controls both the engine and transmission to optimise clutch engagement. Combined with a new 'skip-shift' function that automatically matches the travel speed to the incline, this system ensures smooth gear shifting and responsive acceleration.

The HD785-7 also has a number of features to improve operational safety such as an advanced retarder braking system. With a capacity of 1464 HP for continuous decent, the largest in its class and more than the engine power, this system ensures the safest downhill travel. It includes Komatsu's anti-pitching 4-wheel oil-cooled multiple disc retarder AP-FOUR, which shares the retarding force between all four wheels to reduce tyre-lock and allow smooth downhill travel. In addition, the auto-retard speed control (ARSC) allows the operator to pre-select a constant downhill speed so they can concentrate on steering.

For even greater safety, the HD785-7 can be optionally fitted with an anti-lock braking system (ABS) and an automatic spin regulator (ASR) that prevents the rear tyres from slipping on soft ground, improving traction and braking.

With a heaped capacity of 60 m³, the HD785-7 is matched to Komatsu's PC1250 and PC2000 excavators, and WA800 and WA900 wheel loaders.

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Specifications

Net power @ 1900 rpm	879 kW / 1178 HP
Weight	72 tonnes
Payload capacity	91 tonnes
Heaped capacity	60 m ³

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