



SAT40C

ARTICULATED DUMP TRUCK



High adaptability

All-wheel drive, automatic limited slip differential lock, and all-wheel wet brake adapt to the driving on all road conditions.



High comfort

It features the coordination of full oil-gas suspension and suspension seats to effectively minimize the vibration and offer an excellent experience of operation.



High reliability

The box type frame welded from high-strength steel features high reliability and durability and provides excellent availability performance.



High intelligence

Intelligent network, intelligent protection, preventative maintenance, and remote controller upgrade.

Main technical specification

Item	Parameter
Payload (t)	41
Engine power (kW/rpm)	390/2,100
Max. travel speed (km/h)	55
Gradeability (%)	40
Struck / heaped capacity of the body (m ³)	20/26
Tire specification	29.5R25
Minimum turning radius (m)	8.9

Dimensions

Dimensions	Parameters
Overall length (mm)	11,428
Overall width (mm)	4,182
Overall height (mm)	4,011

Weights

Weights	kg	lb
Net weight	34,000	74,597
Payload	41,000	90,390
Gross weight	75,000	165,347

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Engine

- Model: WEICHAI WP13G530E310;
- Rated power: 390kW/2100rpm;
- Maximum torque: 2300N · m;
- The emission of the engine complies with the CHINA III requirements of GB20891-2014 Limits and measurement methods for exhaust pollutants from diesel engines of non-road mobile machinery.

Transmission

- Model: FC6A250DPR;
- The flexible automatic gearshift features low gearshift impact;
- The hydraulic torque converter is installed to achieve higher drive force;
- The hydraulic retarder is installed to stably control the vehicle speed during downslope driving.

Axle

- The heavy-duty rigid drive axle features reliable and stable performances;
- The wet brakes are installed to provide long-acting and reliable braking force;
- The automatic limited slip differential lock mechanism guarantees high efficiency and reliability, requiring no driver's intervention.

Steering system

- The full-hydraulic articulated steering features stable and sensitive steering;
- The closed-core load-sensing steering gear and the load-sensing plunger pump ensure high efficiency and energy-saving;
- The independent emergency grounded steering pump safeguards the driving safety throughout the journey.

Dumping system

- Bilateral double-acting hydraulic cylinder featuring reliable operation without deflection;
- Large-displacement piston pump with elevating time of 12.5s.

Reminder:

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Suspension

- Full oil-gas suspension offering a comfortable experience and protecting the frame and axle;
- The high vibration isolation rate realizes high driving comfort and mitigates the vehicle vibration;
- It passed the bench durability test and features long life.

Body

- It is made of wear-resistant steel plates with high yield strength;
- Optimized tilter structure with smooth tilting and without jamming;
- Standard capacity: flattening: 20m³, stacking: 26m³.

Cab

- Large full-view windscreen featuring wide vision for the operator;
- High-end air suspension seat offering a comfortable experience;
- It complies with the ROPS/FOPS standard;
- The cab can be tilted backward to ease the checking and service of powertrain.

Frame

- High-strength steel box-type welded frame with light weight;
- Impact resistance, bending and torsion resistance, and high durability.

Optional configurations

Equipment name	Description
Lubrication system	Automatic centralized lubrication system
Fire extinguishing system	Automatic fire-extinguishing system



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