



SAT40C

Articulated Dump Truck



KEY FEATURES

- **High Power Performance:** The SAT40 offers a 9% increase in power reserve, with a maximum gradeability of 40%, and features a 6×6 all-wheel-drive system, enabling superior performance in challenging terrains.
- **Enhanced Comfort with Hydro-Pneumatic Suspension:** The truck features a full hydro-pneumatic suspension system with a vibration isolation rate exceeding 60%, significantly improving ride comfort and vehicle lifespan.
- **Advanced Hydraulic System:** Equipped with a separate hydraulic tank, efficient steering, and lifting systems, the SAT40 ensures high operational efficiency and reliability during heavy-duty operations.

Nominal Payload
41tonnes / 45tons

Gross Vehicle Weight (GVW)
Up to 75tonnes / 83tons

Gross Power
390kW

SAT40C

Dimensions & Specifications

PARAMETERS

Overall dimensions:	11418 mm × 3,473 mm × 4,017 mm (7,564mm)
L × W × H	
Wheelbase	4,550 mm + 1,950 mm
Track width	2,680mm
Ground clearance	570mm
Max.steering	45°
Min. steering radius	8,900 mm
Engine	Wechai
Model	WP13G530E310
Gross power	390 kW
Max. torque	2300Nm
Max. speed	50km/h
Max.Gradeability	40%
Struck SAE	20m ³
Heaped SAE 2:1	25.5m ³

FLUID CAPACITIES (L)

Engine crankcase and filter (engine oil)	28
Transmission, torque converter, retarder and oil cooler (automatic transmission exclusive oil)	55
Engine cooling system (antifreeze)	55
Fuel tank (diesel)	500
Hydraulic oil tank (hydraulic oil)	420
Front suspension · each (hydraulic oil)	3.5
Intermediate/rear suspension · single side (hydraulic oil)	9.5
Front/Rear axle · each (gear oil)	55
Intermediate axle (gear oil)	59
Wheel rim reducer · each (gear oil)	5
Transfer case (gear oil)	28

WEIGHT DISTRIBUTION

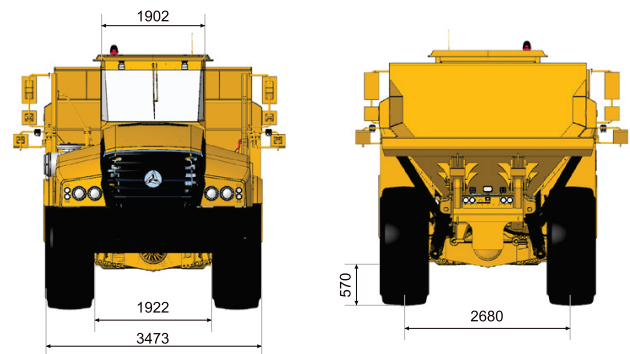
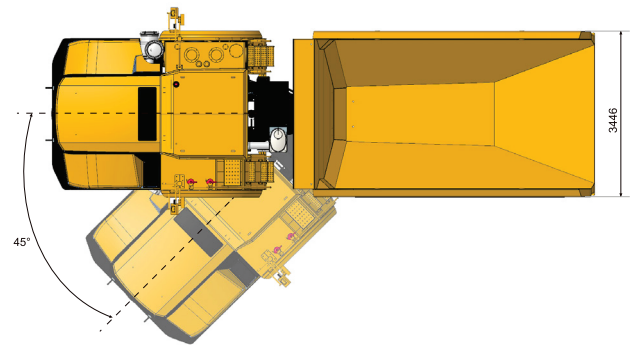
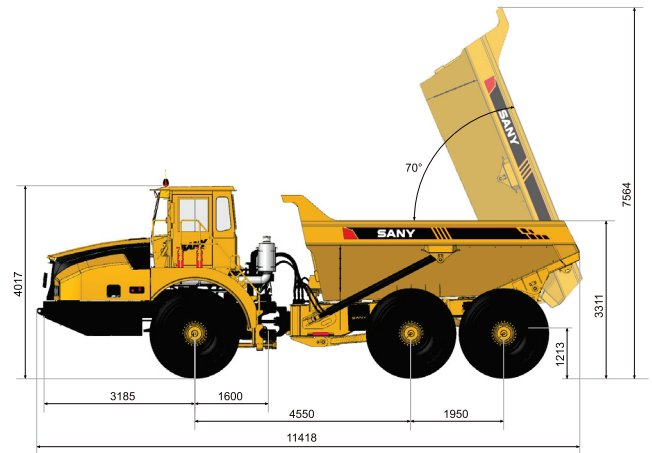
Axle Capacity	Front Axle	Intmd. Axle	Rear Axle
Unloaded	55%	23%	22%
Loaded	30%	35%	35%

WEIGHT PARAMETERS

Chassis, with hoists	29,036kg
Body, standard	4964kg
Net weight	34,000kg
Rated payload	41,000kg
Max. gross weight	75,000kg

* The maximum gross vehicle weight (GVW) includes optional equipment, all accessories, fully filled fuel tank, loadings, etc.; Overload will seriously deteriorate the lives of the components and the truck!

OVERALL DIMENSIONS



Dimension Unit:mm

• Dimensions may vary due to different configurations.
The specific parameters are subject to actual conditions.

The front and rear suspension of the truck is provided with the oil-gas (nitrogen) suspension cylinder characteristic of variable damping, featuring good damping effect and maintainability; thus, the road impact can be well absorbed; even in the extreme environment, the driver can still enjoy comfort during operation;
Front suspension travel: 200mm(7.9 in)
Middle and rear suspension travel: 155mm(6.1in)

FC mining special electronic automatic transmission is adopted to realize 6 forward gears and 1 reverse gear. This type of transmission can realize automatic speed change according to the load. The integration of hydraulic torque converter and hydraulic retarder is selected to provide the truck with the hydraulic retarding function.



Sany Southern Africa (Pty) Ltd
72 Denne Road, Hughes, Boksburg, 1459
SA Service Hotline: +27 (0) 211006700
enquiries@sanyouthafrica.com



Follow us on



www.sanyouthafrica.com

