

Optional Equipment	Note
Retarder (integrated in transmission)	Suitable for spe
Heating type body	Engine exhaust
Low-temperature start-up system	Suitable for ext
Automatic fire-extinguishing system	Fire extinguishi
Automatic lubrication system	For regular grea

peed control on long downhill roads

t gas heating structure

xtremely low temperature regions

ning forengine cab

ease filling in a specified amount



IT O SITAIC III SANY



Sany SAT40C articulated mining dump truck

ARTICULATED DUMP TRUCK SAT40C



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

Technical Data

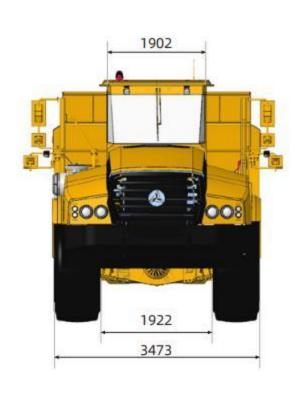
Overall Parameters	Unit	Value
Overall dimensions: L × W × H	mm/in	11,418×3,473×4,017(7,564) /450×137×158(298)
Wheelbase	mm/in	4,550+1,950/179+77
track width	k width mm/in 2,680/106	
Ground clearance	mm/in	570/22
Max.steering	o	45
Min. steering radius	mm/in	8,900/350
Gross power	kW/hp	390/523
Max. speed	km/h	42/50
Max.Gradeability	%	40
Struck SAE	m³/yd³	20/26
Heaped SAE 2:1	m³/yd³	25.5/33

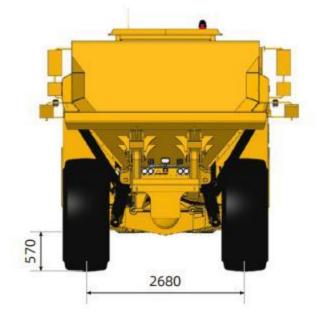
Weight Distribution

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



Overall Dimensions

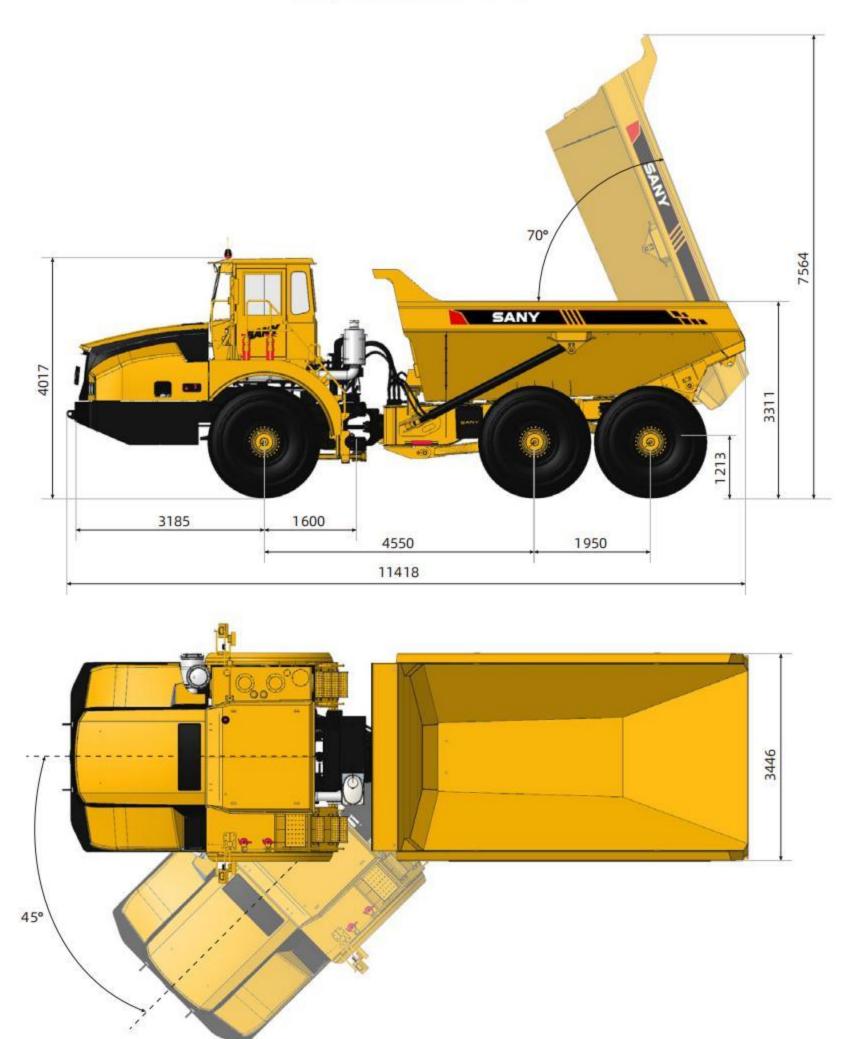




Dimension Unit:mm

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

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Fluid Capacities

Fluid Cap

Engine cran Transmissio cooler(auto Engine cooli

Fuel tank (di

Hydraulic oi

Front suspe

Intermediat (hydraulic oi

Front/Rear a

Intermediat

Wheel rim

Transfer cas

Item Chassis, with Body, standa

Net weight

Rated payloa

Max. gross w

* 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!

acities	L
kcase and filter (engine oil)	28
on, torque converter, retarder and oil matic transmission exclusive oil)	55
ing system (antifreeze)	55
iesel)	500
il tank (hydraulic oil)	420
ension · each (hydraulic oil)	3.5
te/rear suspension · single side bil)	9.5
axle · each (gear oil)	55
te axle (gear oil)	59
reducer · each (gear oil)	5
se (gear oil)	28

Weight Parameters

	kg	lb
h hoists	29,036	64,013
ard	4964	10,944
	34,000	74,957
ad	41,000	90,390
veight	75,000	165,347

4	Main Co
}	Engine
	Model: WeichaiWP13
	Type: 4 cycle turboch
	Max. power: 390kW/2
	Max. torque: 2300Nm
	Number of cylinders/
	Bore stroke: Φ127mm

Displacement: 12.54L_o

Transmission

hydraulic retarding function.

	Forward						Reverse
	1st	2nd	3rd	4th	5th	6th	r1
Ratio	4.4	2.33	1.53	1	0.72	0.61	3.97
km/h	4.3	9.4	<mark>16.1</mark>	26.4	35.3	42	4.4
Mile/h	2.7	5.8	10	16.4	22	26.1	2.7

O Brakes

- Brake type: full disc wet brake;
- Service brake: Equipped with full power hydraulic brake system, each wheel equipped with fully closed, forced-oil-cooled multidisc brake, for traveling and operation safety and operating comfort;
- auxiliary braking;
- Parking brake:Caliper brake is used to lock the drive shaft; springapplied type, hydraulic release;
- by solenoid valve;
- Brakes meet the requirements of ISO 3450.

Steering

- 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

Cab

- a comfortable operating space;
- The cab conforms to the requirements of ISO 3471. The cab provides a sound exposure Leq (equivalent sound level) of less than 78 dB(A) when tested with doors and windows closed.

onfigurations

3G530E310;

- harged charge air cooled;
- 2100rpm;
- n/1500rpm; /configuration: 6, straight type;
- n × 165mm/Φ5''×6.5'';

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

- Retarder brake:transmission retarder brake as optional for
- Emergency brake: Service braking and parking braking controlled

The full-hydraulic articulated steering features stable and

Meet FOPS/ROPS certified. Equipped with integral four-pillar tipping protection design, adjustable cushioned seat, luxury upholstery, and tiltable and telescopic steering wheel to provide

Frame

 Having been carefully analyzed, calculated and designed, the frame is made of high strength steel plates, of box type construction, and features light weight, good impact resistance, high bending and torsional resistance, and good durability. Casting structure can preferentially reduce stress concentration and extend the service life.

Suspension

- 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).

0101 Hoist

- Independent hydraulic system, with two double acting oil cylinders installed outside the frame, ensuring a smooth lifting process.It has the lifting-in-place and falling-in-place functions;
- Body hydraulic pump flow rate: (2200r/min)308L/min;
- Lifting≤ 13s, Lowering≤ 10s。

Drive 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.

- Body

- V' type tilted body, made of high strength wear-resistant steel plate, with high wear and impact resistance. The optimized body structure guarantees smooth dumping without materials stuck; standard body: welded from 16mm bottom plate, 10mm side plate, and 8mm front plate;
- Struck: 20m³(26yd³);
- Heaped 2:1 (SAE std): 25.5m³(33yd³)_o

Tires

- Standard: 29.5R25;
- Specification of wheel rim: 25-25.00/3.5;
- Under certain working conditions, TKPH(ton-Km/h) capabilities of standard tires could be exceeded. Please kindly consult tire manufacturers for optimum tire selection.