Optional Equipment	Note
Hydraulic retarder	Standard automatic transmission, optional manual transmission, suitable for long downhill road conditions.
Air suspension seat	Improving driving comfort
Tilted body	Suitable for rock materials with diameter ≥500mm
Extended brim	The brim can fully cover the top of the cab to prevent materials from falling
Automatic lubrication system	For regular grease filling in a specified amount
Automatic fire-extinguishing system	Automatic fire extinguishing for engine
Automatic sprinkler system	For prevention of brake heat fade, suitable for long downhill road conditions
Low temperature configuration	Improved cab and electrical, hydraulic and power system components for low temperature conditions

SANY HEAVY EQUIPMENT CO., LTD

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OFF-HIGHWAY MINING TRUCK
SKT105S

Auto Payload
65tonnes/72tons

Manual payload
70tonnes/77tons

Gross Power
390kW

Technical Data

Overall Parameters	Unit	Value
Overall dimensions: L × W × H	mm/in	9,200×4,000×4,100(11,080) /362×157×161(436)
Wheelbase	mm/in	3,775+1,750/149+69
Front track width	mm/in	2,835/112
Rear track width	mm/in	2,895/114
Ground clearance	mm/in	330/13
Max. steering angle of front wheels	°	35
Min. steering radius	mm/in	12,000/472
Gross power	kW/hp	390/523
Max. speed	km/h	AT 35/MT 42
Max.Gradeability	%	30
Struck SAE	$m^3(yd^3)$	AT 35(46)/MT 38(50)
Heaped SAE 2:1	$m^3(yd^3)$	AT 42(55)/MT 44(58)

* 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!

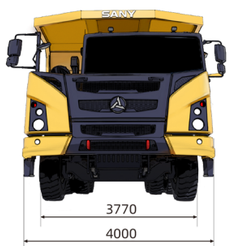
Fluid Capacities

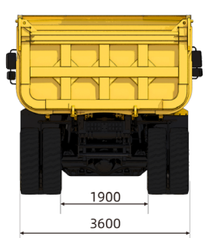
Fluid Capacities	L
Fuel tank (diesel)	530
Engine crankcase and filter (engine oil)	25
Transmission oil	55(Lubricating oil for AT) 33(Gear oil for MT)
Intermediate-axle main reducer (gear oil)	24
Rear-axle main reducer (gear oil)	20
Intermediate and rear-axle wheel rim reducers (gear oil)	6
Hydraulic oil tank (hydraulic oil)	230
Engine cooling system (antifreeze)	86(AT) 60(MT)

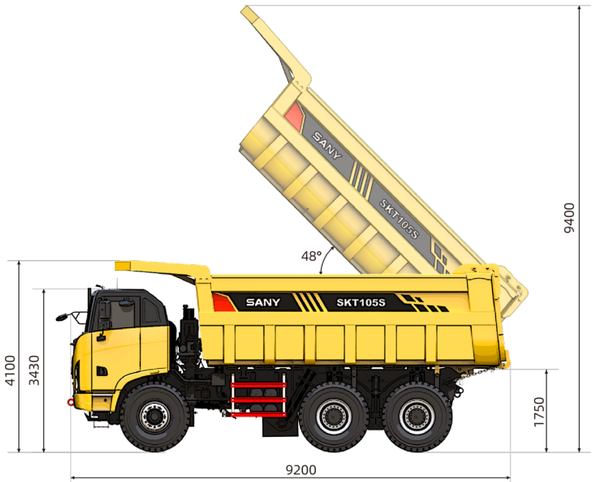
Weight Distribution

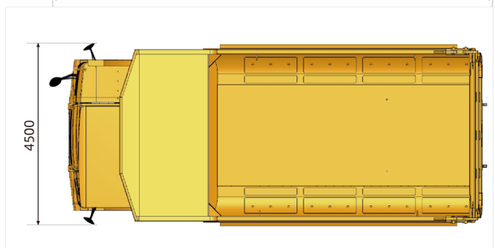
Axle Capacity	Front Axle	Rear Axle
Unloaded	35%	65%
Loaded	20%	80%

Overall Dimensions









Dimension Unit:mm

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

Main Configurations

Engine

- Model: Weichai WP13G530E310;
- Type: In-line, direction injection, water-cooling, four-stroke, turbocharged, intercooled, electronically controlled high pressure common rail;
- Max. power: 390kW/2100rpm;
- Max. torque: 2300N.m;
- Number/type of cylinders: 6,Straight type;
- Bore stroke: Φ127mm x 165 mm/Φ5'' x6.5'';
- Displacement: 13L.

Transmission

Automatic transmission

- Model: Allison 4800RS_PR;
- Flexible automatic shift, with small shift impact;
- Equipped with hydraulic torque converter for larger driving force;
- Equipped with hydraulic retarder for stable control of downhill speed.

Manual transmission

- Transmission model: Fast 8DS260;
- Low maintenance cost and high reliability;
- Hydraulic retarder as optional, for stable control of downhill speed.

	AT Allison4800							Reverse
	1st	2nd	3rd	4th	5th	6th	7th	r1
Ratio	7.63	3.51	1.91	1.43	1	0.74	0.64	-4.8
km/h	-	6	14	19	27	35	-	-5

	MT 8DS260								Reverse
	1st	2nd	3rd	4th	5th	6th	7th	8th	r1
Ratio	6.73	4.61	3.4	2.52	1.86	1.35	1	0.62	-6.25
km/h	5	7	9	13	17	24	32	40	-5

Brakes

- The system employs drum brakes and dual-circuit air pressure control. The two circuits are independent from each other; large brake size, and large air reservoir. Spring with reinforced plenum provides adequate braking force. When the brake system is under low pressure, the instrument will give low pressure alarm to remind the operator to stop in time for maintenance.

Steering

- Full-hydraulic emergency steering: improving driving comfort, steering agility, and reliability;
- In the event of loss of engine power, it provides emergency power to system for steering.

Tires

- Standard: 16.00R25 E3;
- Specification of wheel rim: 11.25/2.0-25;
- Under certain working conditions, TKPH(ton-Km/h) capabilities of standard tires could be exceeded. Please kindly consult tire manufacturers for optimum tire selection.

Frame

- The antitorque frame welded from high strength alloy steel plate with steel castings.It features better bending resistance,antitorque and impact resistance.
- Overload capacity>20%, stiffness lifting>25%, frame life>10years.

Drive Axle

- Heavy-duty full floating axle, with high bearing capacity;
- Enhanced main reducer, wheel rim reducer, double-stage driving for more driving force;
- High strength cast steel axle housing, reliable and durable.

Suspension

- Full hydro pneumatic suspension, with greatly improved driving comfort, high vibration isolation rate, driving comfort, and reduced vibration; it has passed the bench durability test, with a proven extended service life;
- Front suspension travel: 220mm(8.7in);
- Rear suspension travel: 250mm(9.8in).

Hoist

- The lift cylinder (bore: 174mm) has the double-cylinder middle lifting mode to effectively prevent rollover; each lift cylinder involves a telescopic cylinder of three stages, supporting a great lifting height and stable lifting;
- Body hydraulic pump flow rate: 260L/min;
- Liftings≤ 20s, Loweringss≤ 30s.

Body

- The body is newly designed U-shape structure.The arc-shape side plates have better impact resistance and wear resistance, which guarantees smooth dumping without material stuck. The body framework is of a through structure with higher strength. The main steel plate is made of high-strength wear-resistant plate, ensuring an extended life. Maximum lifting angle 48°. The standard body is made of welded 16mm bottom plate, 10mm side plate, and 14mm front plate;
- Struck (SAE std): AT: 35m^3(46yd^3) /MT: 38m^3(50yd^3);
- Heaped 2: 1 (SAE std): AT: 42m^3(55yd^3) /MT: 44m^3(58yd^3).

Cab

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