

Optional Equipment	Note
ASR	Traction control system
Tire pressure monitor	Realtime tire pressure and temperature monitoring
Fast fuel fill	Rapid refueling saves time and cost
Automatic lubrication system	For regular grease filling in a specified amount
Automatic weighing system	Real-time loaded weight monitoring
Full LCD instrument cluster	Clearly displaying the data content
12.1" touch screen	Large-screen display for convenient operation

OFF-HIGHWAY MINING TRUCK SKT160S



Nominal Payload
100tonnes/110tons

Gross Vehicle Weight (GVW) up to
161tonnes/177tons

Gross Power
925kW

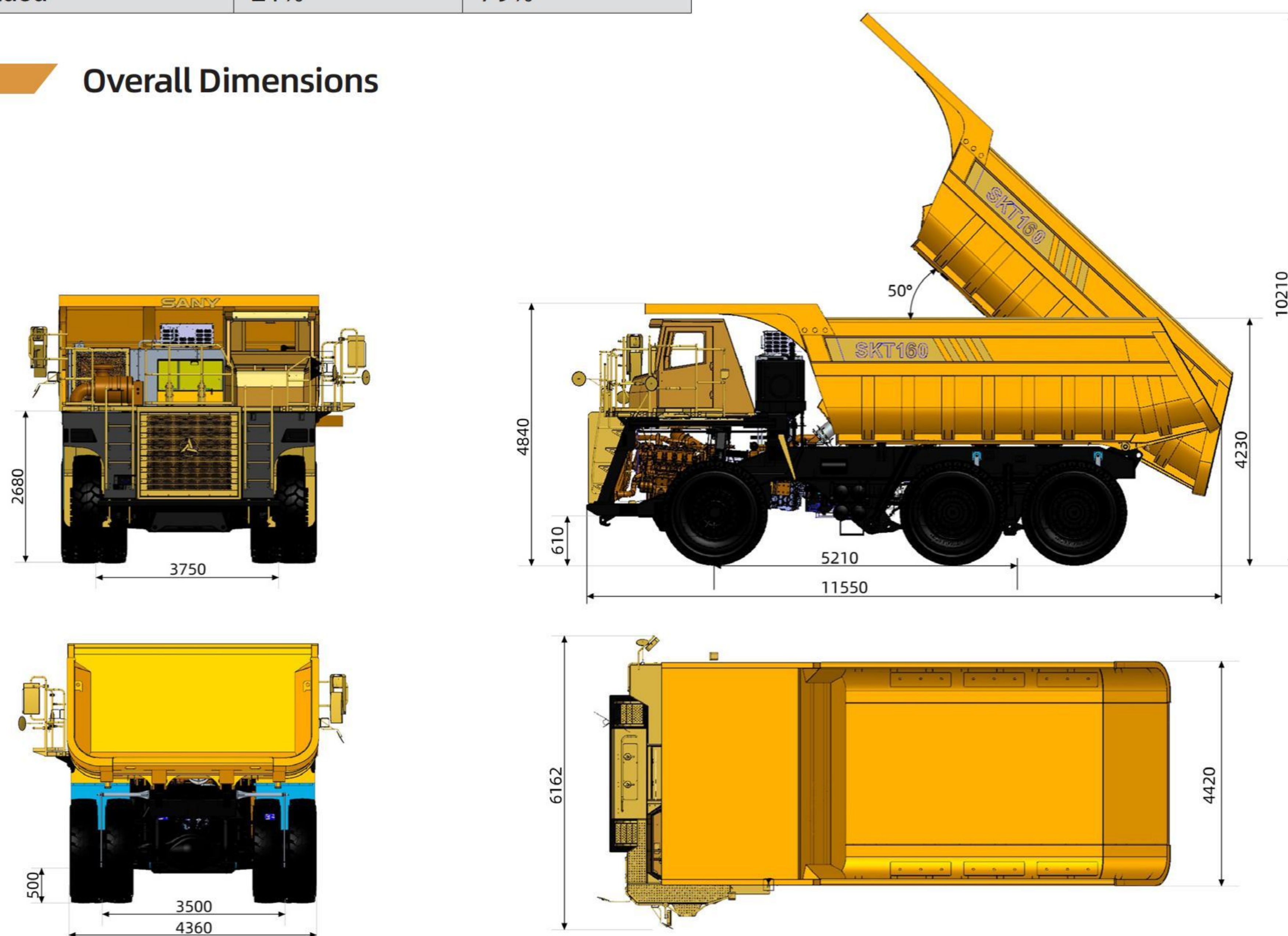
Technical Data

Overall Parameters	Unit	Value
Overall dimensions: L × W × H	mm/in	11,550×6,162×4,840(10,210) /455×258×191(402)
Wheelbase	mm/in	4,300/169
Front track width	mm/in	3,750/148
Rear track width	mm/in	3,500/138
Ground clearance	mm/in	500/20
Max. steering angle of front wheels	°	40
Min. steering radius	mm/in	13,500/531
Gross power	kW/hp	565+140+220 /758+310+450
Battery capacity	kW/h	147
Max. speed	km/h/mph	55
Max. Gradeability	%	>30
Struck SAE	m ³ /yd ³	44/58
Heaped SAE 2:1	m ³ /yd ³	61/80
Axle	t	40+65+65

Weight Distribution

Axle Capacity	Front Axle	Rear Axle
Unloaded	41%	59%
Loaded	21%	79%

Overall Dimensions



Dimension Unit:mm

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

Fluid Capacities

Fluid Capacities	L
Engine (engine oil)	44
Cooling system (antifreeze)	85
Hydraulic oil tank (hydraulic oil)	600
Intermediate/rear axle (gear oil)	216
Transmission (transmission oil)	34
Motor - battery (coolant)	30

Weight Parameters

Item	kg	lb
Net weight	61,000	354,945
Rated payload	100,000	220,462
Max. gross weight	161,000	354,944

* 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!

Main Configurations

Engine

- Model: Weichai WP17G770E304;
- Type: high pressure common rail, turbocharged intercooled;
- Rated power: 565kW/1900rpm;
- Max. torque: 3000Nm/1200rpm ~ 1600rpm;
- Number/type of cylinders: 8/V shape, turbocharged;
- Cylinder bore × stroke: Φ127mm×165mm/Φ5"×6.5";
- Displacement: 16.72L.

Drive Motor

Electric drive system	Rated/peak power kW	Rated/peak torque Nm	Max. speed rpm
IM	140/310	900/2,300	3,600
TM	220/450	1,100/2,500	3,600

Brakes

- Service brake: All hydraulic brake system control. Independent circuits front and rear. Each circuit incorporates accumulator which stores energy to provide instant braking response;
- Front brake: dry disc brake;
- Pad area:1,400cm(217in²);
- Intermediate/rear brake: Oil-cooled, disc brake, dustproof & waterproof, maintenance-free;
- Total area of braking surface: 49,000cm(7,595in²);
- Parking brake: Hydraulically released, the spring pushes piston to load;
- Retarder brake: implement through rear brake hydraulic retarder;
- Emergency brake: Through solenoid valve to provide service brakes and parking brake control;
- Maximum power of electric braking: 560kW(751hp);
- Max. rated power of continuous braking: 250kW(335hp).

Steering

- Independent hydraulic steering with closed-center steering valve, pressure compensating piston pump and accumulator. Accumulator provides uniform steering regardless of engine speed. In the event of loss of engine power, it provides emergency power to system for steering;
- Min. turning radius: 13,500mm;
- The steering system meets the SAE1151/5010 standard.

Tires

- Standard: 21.00R35;
- Specification of wheel rim: 35-13.00/2.5;
- Under certain working conditions, TKPH(ton-Km/h) capabilities of standard tires could be exceeded. Please kindly consult tire manufacturers for optimum tire selection.

Frame

- Dual variable-section box structures welded from high-strength alloy steel plates and steel castings, integrated with the FOPS/ROPS structures to achieve excellent bending capacity, strong distortion resistance, endurant impact ductility and extended life.

Suspension

- Independent front suspension. The smaller swing arm motion reduces the lateral displacement of tires and prolongs the lives of tires. It features extended life and maintenance period.
- Front suspension travel: 160mm (6.3 in);
- Rear suspension travel: 140mm (5.5 in).

Hoist

- Independently hydraulic system with retarders at limiting positions. Two 3-section hoist cylinders are mounted on both sides of the frame rails to keep stable of body while raises the body.
- Body hydraulic pump flowrate: (1,900rpm)323L/min (85USgal/min);
- Lifting≤ 20s, Lowering≤ 19s.

Body

- The body is U- structure. The side plates are constructed from extra wide high tensile strength abrasion-resistant steel. The body is highly impact resistance and needs lower load height. Tilted angle 50°;
- Standard thickness: Floor: 16mm; Side: 10mm; Front: 10mm;
- Struck: 44m³(58yd³);
- Heaped 2:1 (SAE std): 61m³(80yd³).

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.