

SRT55C



Weights

	Kg	lb		Kg	lb
Chassis, with hoists	31,000	68,000	Chassis, with hoists	31,000	68,000
Body, standard	11,000	24,000	Body, standard	13,000	29,000
Net Weight	42,000	92,000	Net Weight	44,000	97,000
Rated Payload	55,000	121,000	Rated Payload	53,000	116,000
Max. Gross Vehicle Weight*	97,000	213,000	Max. Gross Vehicle Weight*	97,000	213,000

*The maximum gross vehicle weight includes optional equipments, all the accessories, the filled fuel tank and the load etc.optional body with high strength and wear resistant steel plates

Service Capacities	L	(US gal)	Service Capacities	L	(US gal)
Engine crankcase and filters	65	(17.2)	Body hydraulic and brake cooling system	258	(68.4)
Transmission and filters	85	(22.5)	Planetaries (total)	45	(11.9)
Cooling system	166	(44.0)	Differential	50	(13.3)
Fuel tank	620	(164.3)	Front ride strut (each)	19	(5.0)
Steering and brake hydraulic tank	73	(19.3)	Rear ride strut (each)	16	(4.2)
Steering and brake hydraulic system (total)	76	(20.1)	Power take off	4	(1.1)
举升冷却油箱	239	(63.4)			

Product specifications are subject to change without notice.



2012.2 version

SANY MINING EQUIPMENT CO.,LTD

ADD: Sany Industry Town, Dongcheng Avenue, Economic and Technological Development Zone, Kunshan, Jiangsu.

Zip: 215300 Tel: 0512-57836888
Fax: 0512-57836445 http://www.sanyhe.com



Frame

High rigidity frame of full box section design. It has torsional frame rails, integral front bumper and closed-loop crossmember. Mild steel is used throughout front and rear longitudinal beams, torque tubes, rear mounting rack and bumper. High strength cast steel used in areas of stress concentration provides structural flexibility and resistance to impact loads.

Engine

Model.....Cummins QSK19-C700
 Type.....4cycle, direct injection, water-cooled,turbocharged, after-cooled diesel
 Gross power @2100rpm.....522kW(700hp)
 Net Power @2100rpm.....481kW(645hp)
 Power ratings based on SAE J1995 June 90. Engine emission meets Tier 2 USA EPA/CARB and proposed EU non-road mobile machinery directive.
 Maximum Torque @1500rpm3118Nm(2300 lb ft)
 Number of Cylinders/Configuration.....6,V type
 Bore x Stroke.....Φ159 x 159 mm (6.25 x 6.25 in)
 Displacement.....19L(1150in³)
 24 volt negative ground electrical system. Two 12 volt 243 Ah batteries with master disconnect switch. 9kW starter. Neutral start interlock protection. 100A alternator with integral voltage regulator.

Transmission

Allison H6610AR electronic control automatic transmission especially for mining truck. Six speeds forward, two reverse. Transmission input hydraulic retarder.

Gear	Forward						Reverse	
	1st	2nd	3rd	4th	5th	6th	r1	r2
Ratio	4.0	2.68	2.01	1.35	1.0	0.67	5.15	3.46
Km/h	9.9	14.6	19.5	29.1	39.3	57.5	6.6	11.8
mile/h	6.1	9.1	12.1	18.1	24.4	35.7	4.1	7.3

Drive Axle

Heavy duty axle with full floating axle shafts, single reduction spiral bevel gear differential, and planetary reduction at each wheel. High strength cast steel welded construction.

Ratios:
 Differential.....3.73:1
 Planetary.....5.80:1
 Total Reduction.....21.63:1

Suspension

Front: MacPherson type independent suspension with self-adapting, variable rate, nitrogen/oil SANY cylinders at empty/loaded. The linkage arrangement keeps the vehicle maintain good resistance to impact.

Rear: Rigid suspension consists of self-adapting, variable rate, nitrogen/oil SANY cylinders, A-frame linkage, lateral stabilizer bar and rear axle.

Maximum strut stroke: Front.....300 mm (11.8 in)
 Rear.....186 mm (7.3 in)

Maximum rear axle oscillation.....±7°

Tires

Tire Model.....24.00-35/(42PR)E-4
 Under certain working conditions, TKPH(ton-Km/h) capabilities of standard tires could be exceeded. Consult tire manufacturers for optimum tire selection.

Brakes

Service Brakes – Fully hydraulic brake system. Engine PTO mounted pressure compensating piston pump provides hydraulic pressure for brakes and steering. Separate circuits for front and rear wheels. Each circuit incorporates a nitrogen/hydraulic accumulator which stores energy for instant braking.

Front: Dry disc brake
 Disc diameter.....710 mm (28 in)
 Pad area, total.....1400 cm² (217 in²)

Rear: Oil-cooled, disc brake, completely sealed from dirt and water.
 Braking surface, total.....49000 cm² (7595in²)

Parking Brake – Rear brakes applied by spring loaded piston on disc pack, hydraulically released.

Secondary Brake – solenoid control applies service and parking brakes. Brakes conform to ISO 3450, SAE J 1473.

Steering

Independent hydraulic steering with closed-center steering valve, constant pressure control piston pump and accumulator.

Accumulator provides uniform steering regardless of engine speed. In the event of loss of engine power, it provides steering of approximately two lock-to-lock turns. A low pressure indicator light warns of system pressure below 115bar (1660 lbf/in²).

Steering conforms to ISO 5010, SAE J10511.
 Minimum turning radius(SAE).....9540mm

Hoist

Independently powered body hydraulic system.Two hoist cylinders with two-stage, double-acting in the second stage are mounted inside the frame rails.

System Relief Pressure.....180bar
 Body Hydraulic Pump Flow Rate @ 2100 rpm.....294L/min (89 US gal/min)
 Body raise time.....14 seconds
 Body lower time.....13seconds

Body

High strength wear resistant body.Longitudinal "V" type floor with integral transverse box-section stiffeners. Box-section ribs and stiffeners provide superior strength and impact support in the floor, sidewall, front wall, and top rail areas. The body is exhaust heated and rests on resilient impact absorption pads that are removable.

Body wear plates are steel plates of excellent wear resistance and high hardness and strength.

Thickness: Floor.....0.70 in (18 mm)
 Side.....0.39 in (10 mm)
 Front.....0.39 in (10 mm)

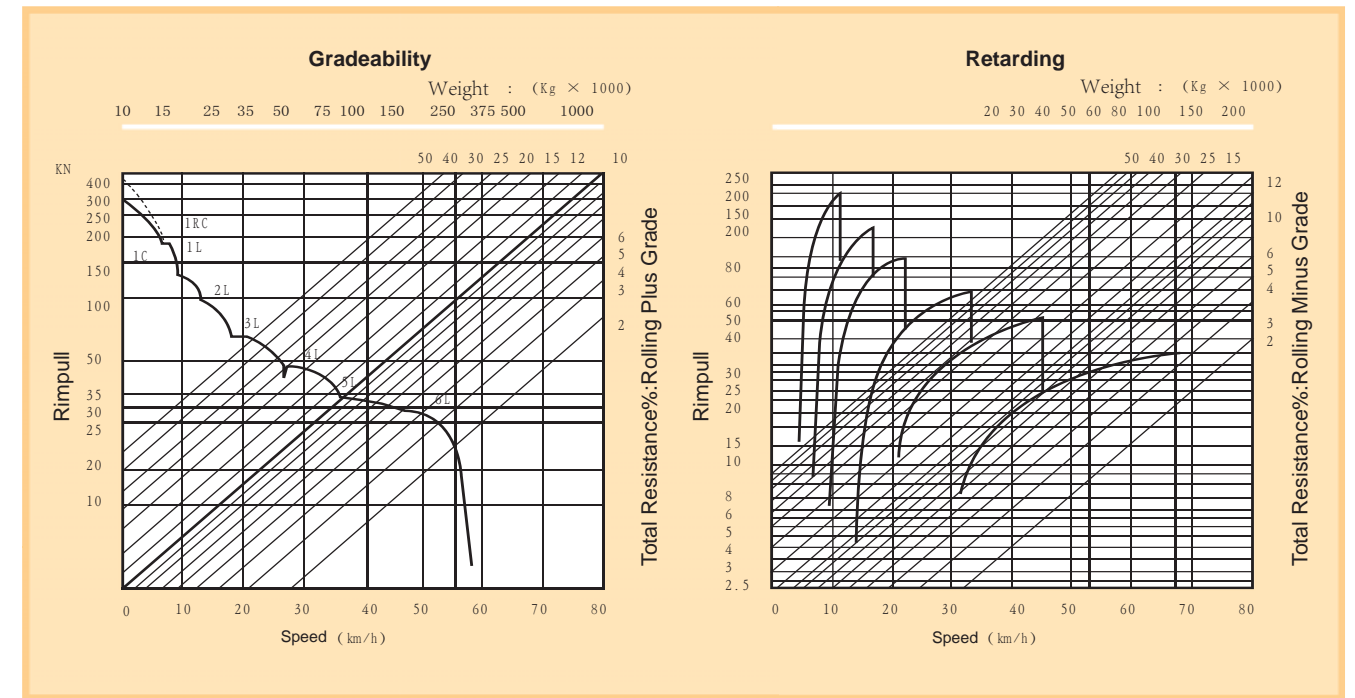
Capacities: Struck (SAE std).....34.0 yd³(26 m³)
 Heaped 2:1 (SAE std).....46.0 yd³(35 m³)

Cab

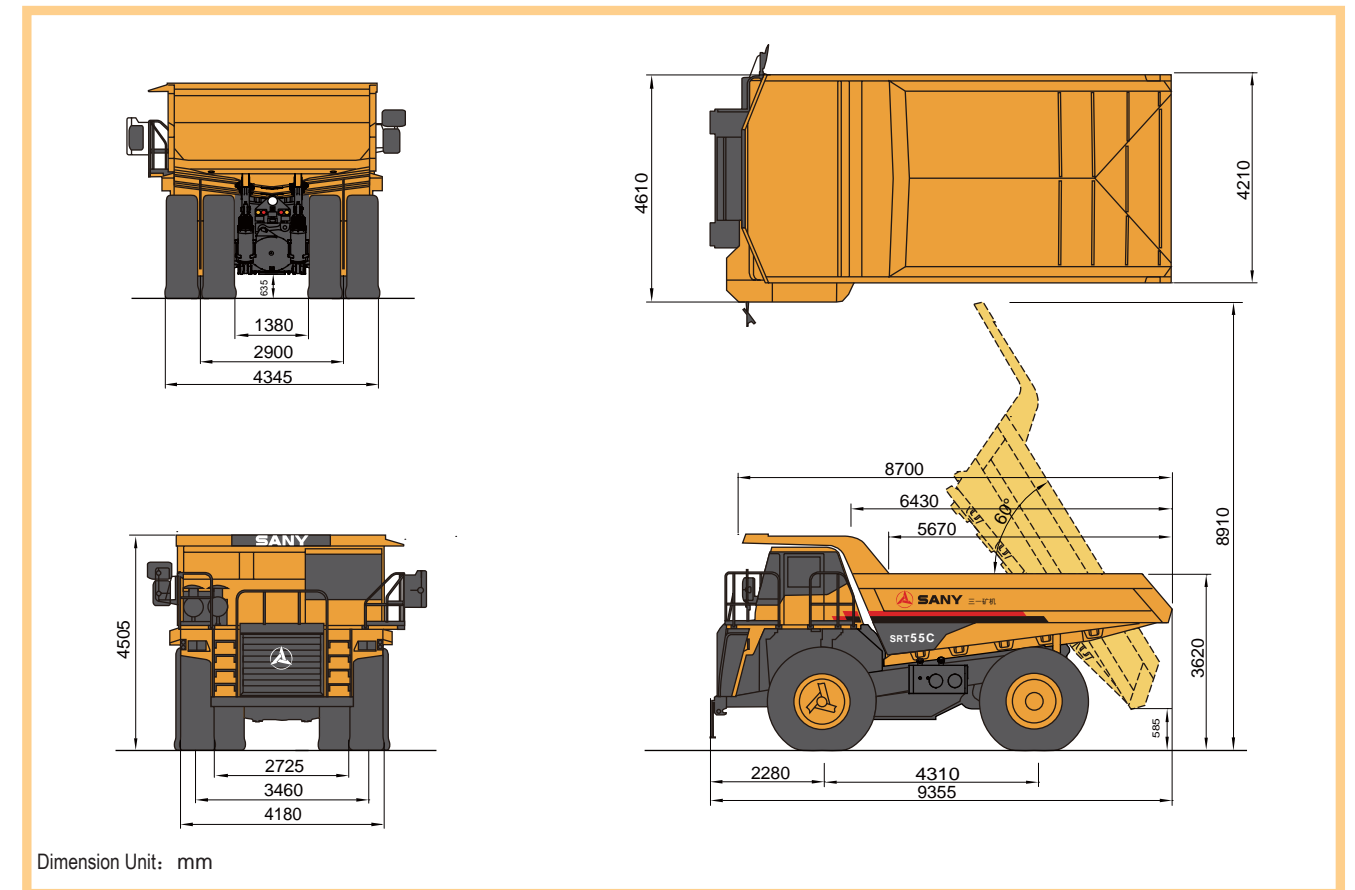
Large area of windscreen gives operator an all-around visibility. Acoustic lining material provides quiet operator space. Special pressurized cabin design isolates the operator from dust. Air suspension seat reduces vibration efficiently. ROPS/FOPS meet the requirements of ISO 3471 and the interior dimensions are designed according to ISO 3411.

Performance Data

Graphs based on 0% rolling resistance.



Machine Dimensions



Dimension Unit: mm