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SF35100 300T

Mining Dump Truck Specifications



SF35100 300t Mining dump truck

Technical Specifications



SPECIFICATION

Model	4×2Rear axle driven
EVW	210t
Payload	300t
Weight Distribution:	
Empty: Front axle	49%
Rear axle	51%
Loaded: Front axle	33%
Rear axle	67%
Rated grade ability	8%
Max. grade ability	16%
Braking distance (velocity at 30km/h)	≤26m



ENGINE

Model 1	Cummins QSK60 (Standard)
Model 2	MTU 16V 4000 (Optional)
Fuel	Diesel
Cylinders	16
Stroke	4
Rated power	2014kW2700HP@1900rpm
Flywheel power	1902kW2550HP@1900rpm
Wet weight 1	9619kg (21,207lbs)Cummins
Wet weight 2	7529kg(16,599lbs)MTU



ELECTRIC DRIVE SYSTEM

Alternator	GE 5GTA41B
Control	AC control system
Traction motor	GE 5GDY114
Reduction ratio	36.62:1
Max. speed	64.5km/h(40mph)



HYDRAULIC SYSTEM

Steering	Accumulator assisted twin double acting cylinders provide constant rate steering. Emergency steering automatically applied by accumulator.
Turning circle diameter (SAE)	32 m (105')
Filtration	In-line replaceable elements
Suction	full flow, 100 mesh
Hoist and steering	Dual, in-line, high pressure.
Component cabinet	Above deck, easily accessible with diagnostic test connections.
Hoist	Two 3-stage dual-acting outboard cylinders, internal cushion valve, over-center dampening.
Hoist times	
Power-up loaded	25 sec
Power-down	14 sec
Float-down empty	14 sec
Pumps	Three pumps, single package, end of alternator
Hoist and brake cooling	Pressure-compensating piston pump with output of 1018 lpm (268gpm) at 1900 rpm and 18000 kPa(2,610psi)
Steering and brake	Pressure-compensating piston pump with output of 275lpm (73 gpm) at 1900 rpm and 19000 kPa(2,755 psi)
System relief pressures	
Hoist	20000 kPa(2,900 psi)
Steering and brake	25000 kPa(3,626psi)
Quick disconnects standard for powering disabled truck and for systems diagnostics.	



COOLING SYSTEM

Cooling system	Exhaust-type expansion tank
bicirculating cooling system	



TIRES AND RIMS

Tires	53/80 R63, deep rock, tubeless, E-4
Rims	38×63×5



BRAKING

Service brakes	oil-cooled,hydraulic-actuated, four-wheel spread each wheel.
Max. service apply pressure	17200 kPa (2,500 psi)
Total friction area per brake	97025 cm ² (15,038 in ²)
Emergency brakes	applied prior to hydraulic system pressure dropping below level required to meet secondary stopping requirements.
Wheel brake locks	Switch activated
Parking brakes	Multiple discs, spring-applied, Hydraulically-released, dry brakes on inboard end of each wheel motor rotor shaft.
Rated to hold on ± 15% grade @ maximum gross vehicle weight.	
Electric dynamic retarder	Max4026kW 5400 HP



FRAME

Advanced technology, a welded structure with fine low alloy of high strength steel with integral ROPS supports, box-type main longitudinal girder with constant strength, variable cross-section elastic rear beam, rigid continuous gantry beam.	
Plate material	490 MPa (71,068 psi) HSLA steel
Rail width	305mm(12")
Rail depth (maximum)	1778 mm (70")
Rail depth (minimum)	305 mm (12")
Top and bottom plate thickness	45 mm (1.26")
Side plate thickness	25mm(0.98")
Drive axle mounting	Pin and ball bearing joints
Drive axle alignment	Locking pin and nut



CAB

Advanced Operator Environment with integral 4-post ROPS/FOPS structure (meets ISO 3471, ISO3449), totally enclosed, multi-direction seat and steering wheel, cooling-warming air condition, electric windshield wipers w/washer, power windows, Vehicle Health Management System, Payload Weighing System ensures comfortable and high efficient.	
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SUSPENSION

Hydro-pneumatic suspension of variable oil nitrogen ratio, with integral rebound control	
Max front stroke	374.0mm (14.7")
Max rear stroke	236.0mm (9.29")



SERVICE CAPACITIES

Cooling system	650L
Crankcase	280L
Hydraulic tank	1040L
Motor gear box	2×35L
Fuel tank	4500L



ELECTRICAL SYSTEM

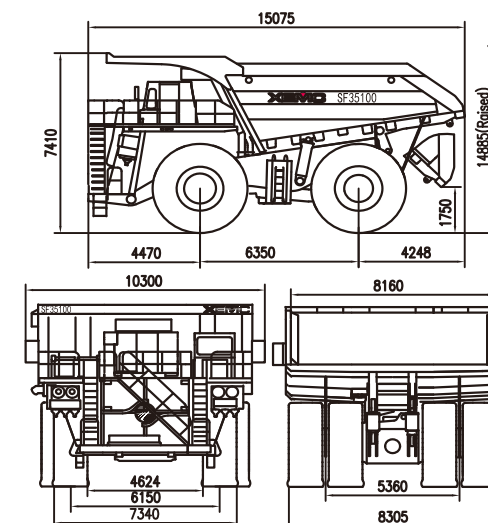
Battery	4x12v 900CCA	Start
	4x12v 900CCA	control
Alternator		28V, 260 A
Lighting		24V
Starting motor		2 / 24V



BODY

The dump body applied with full-welded structure and bucket-type bottom sheet, consists of bottom sheet, front sheet, side sheet and Canopy sheet .Rear wheel rock ejectors, body tilt cable, side exhaust and rubber mounts on frame are standard.Pivot exhaust heating optional.	
Floor sheet	19mm(0.75") 1400MPa (203,053psi) High-strength steel
Front sheet	12 mm (0.47") 1400 Mpa (203,053psi) High-strength steel
Side sheet	8mm (0.31") 1400 Mpa (203,053psi)High-strength steel
Canopy sheet	5 mm (0.19") 600 MPa (87,022 psi) HSLA steel
Struck	175m ³ 229yd ³
Standard SAE heaped 2:1	215m ³ 360 yd ³
Body can be design according to comprehensive volume-weight and rated load capacity.	

DIMENSIONS (mm)



✂ Rated Payload 300t Rated Power 2014kW