



SRT55D-W

Mining Sprinkler



Equipment model: SRT55D-W

Technical requirements	Technical performance index
Drive type	4 × 2
Load (t)	50
Empty vehicle weight (t)	45
Gross weight (t)	95
Maximum gradeability (%)	25
Maximum speed (km/h)	53
Overall dimension: full length (mm)	9,300
Overall dimension: full width (mm)	5,480
Overall dimension: full height (mm)	4,950
Wheel base (mm)	4,310
Front wheel tread (mm)	3,460
Rear wheel tread (mm)	2,900
Minimum ground clearance (mm)	600

Distribution of axle load

Technical requirements	Technical performance index
Unloaded: front (%)	48
Unloaded: rear (%)	52
Heavy loaded: front (%)	36
Heavy loaded: rear (%)	64

Cab features and requirements

Technical requirements	Technical performance index
Cab features and requirements	1. Adopt panoramic windshield design, with a wider field of vision; 2. The noise meets the ISO 6395 requirements.

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Transmission

Shift and transmission ratio	Forward gear						Reverse gear	
	Gear 1	Gear 2	Gear 3	Gear 4	Gear 5	Gear 6	Gear 1	Gear 2
Transmission ratio	4.0	2.68	2.01	1.35	1.0	0.67	5.15	3.46
Vehicle speed (km/h)	9	13	18	27	37	55	6	8.9

Drive axle

Technical requirements	Technical performance index
Drive axle	Heavy load type, full floating half shaft
Main reducer: type speed ratio	Primary spiral bevel gear structure 3.73:1
Wheel reducer: type speed ratio	Planet gear type 5.80:1

Tire and wheel hub

Technical requirements	Technical performance index
Tire specification	Bridgestone 24.00R35 Deep pattern E-4
Wheel hub material	Only for mining truck, nodular cast iron

Brake system

Technical requirements	Technical performance index
Type	Front wheel brake: dry disc brake Rear wheel brake: wet oil-cooled disc brake
Emergency stop device	Press emergency stop button, and make front and rear brakes act simultaneously to realize emergency brake.
Parking brake	Hydraulic release, through applying pressure to the piston on the rear brake disc by the spring.

Reminder:

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Steering system

Technical requirements	Technical performance index
Type	Disconnected double trapezoidal structure, full hydraulic steering
Emergency steering configuration	When the engine loses power, the steering accumulator can provide emergency power with about 2 steering cycles.
Minimum turning radius (m)	9.54

Types and features of carrier frame

Technical requirements	Technical performance index
Types and features of carrier frame	Carrier frame with full box section, has non-twisting transverse beam, integral front bumper and closed ring beam. High-strength steel castings and main weld structure are used in the stress concentration area, enhancing the rigidity and ductility of carrier frame and lengthening the fatigue life.

Engine

Technical requirements	Technical performance index
Engine: model & manufacturer	Volvo AD1643VE-B
Engine type	Inline 6-cylinder, 4-stroke, water-cooled direct injection, exhaust turbo pressurization, and intake intercooler.
Engine power	565kW (768HP)/1,900 rpm
Engine displacement	16.1 L
Waste gas emission standard	Tier II
Maximum torque	3,260 Nm /1,260 rpm
Fuel tank capacity (L)	530

Upperworks system

Technical requirements	Technical performance index
Water tank geometric volume	55 m
Water tank rated volume	50 m
Rated water flow	1,800 L/min
Watering volume	0.25 L/m ² ~ 1.00 L/m ²
Watering width	10 m ~ 20 m
Watering mileage	2 km ~ 6 km

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