

Water sprinkling vehicle BELAZ-76135 with tank capacity 119 m³

It's effective at execution of watering and sprinkling operations
on strip-mining roads under various climatic operating conditions.



Engine

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| Model | CUMMINS KTA 38-C |
| Four-cycle turbocharged and intercooled direct diesel engine with V-type cylinders arrangement. | |
| Rated power @ 1900 rpm, kW (hp) | 895(1200) |
| Maximum torque @ 1300 rpm, N.m | 4726 |
| Number of cylinders | 12 |
| Cylinders displacement, l | 37,8 |
| Cylinder diameter, mm | 159 |
| Piston stroke, mm | 159 |
| Specific fuel consumption at rated power, g/kW hr | 207 |
| Air cleaning is performed by three-stage filter with dry-type elements. | |
| Pressurized circulation lubrication system designed with "wet" sump. | |
| Single-loop fluid cooling system with forced circulation. | |
| Fluid preheating system. Pneumatic starter starting system. | |
| Electric equipment system voltage, V | 24 |

Electric drive

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| AC-DC drive with traction alternator, two traction motors, motor-in-wheel double-reduction gear units with spur gears, adjustment devices, microprocessor-based control system and control devices. | |
| Transmission ratio | 30,36 |
| Maximum travel speed, km/h | 48 |

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| Traction alternator | SGT-1000, GST-1, GSN500 |
| Traction motor | EDP-600; EK-590 |

Suspension

Suspension is conventional for front and driving axles and equipped with trailing arms, central joints and transverse rods. Cylinders are pneumohydraulic (nitrogen and oil) with inbuilt hydraulic shock absorber. Two cylinders are on the front axle and two cylinders are on the rear axle.

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| Cylinder piston stroke, mm | |
| - front | 320 |
| - rear | 290 |

Steering

Steering is hydrostatic with steerable front wheels.

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| Steering angle, dg | 42 |
| Turning radius, m | 13 |
| Overall turning diameter, m | 28 |
| Steering meets ISO 5010 requirements. | |

Brakes

Water sprinkling vehicle brake system meets ISO 3450 international safety requirements and is equipped with service, parking, auxiliary and emergency brake systems.

Service brake system consists of front wheels disk brakes with two brake gears per disk and rear wheels disk brakes with two brake gears per disk and automatic gap adjustment. The disks are mounted on traction motor shafts.

Parking brake system is permanently closed with one rear wheels brake gear per disk, spring actuator and hydraulic control.

Auxiliary brake system is electrodynamic braking by traction motors with forced air cooling of brake resistors (UVTR 2x600, power 1200 kW).

Emergency brake system uses parking brake and operable circuit of wheel brakes.

Hydraulic drive

Hydraulic system is combined for steering and brakes actuator.

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| Variable-displacement axial-piston oil pump. | |
| Maximum pressure in hydraulic system, MPa | 18 |
| Maximum pump delivery @ 1900 rpm, dm ³ /min | 474 |
| Filtration degree, mcm | 10 |

Foam generator set

Foam generator set consists of foam former, air-foam gun with remote drive, foam mixer, stop and control valves and connections.

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| Foam ratio (in foam generator operation mode), not less | 6 |
| Gun turning angle: | |
| - in vertical plane, dg | from -15 to +45 |
| - in horizontal plane, dg | ±35 |
| Jet range, m | 40 |
| Foam former tank capacity, l | 7000 |

Frame

Frame is welded of high-strength low-alloy steel with application of cast elements at the maximum loading points. Box-section variable-height sidemembers are interconnected by crossmembers.



Tires

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| Tubeless air tires with quarry tread pattern. | |
| Tire designation | 33.00-51 |
| Inflation pressure, MPa | 0,62 |
| Rim designation | 24.00-51/5.0 |

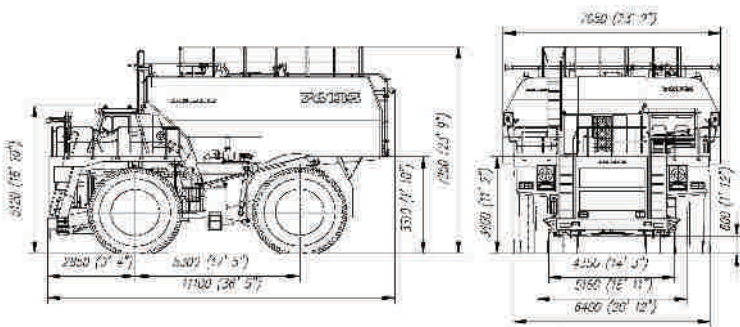
Cab

Two-man two-door cab with air-sprung adjustable driver seat, additional trainee seat and adjustable steering column.
The cab meets ROPS safety requirements and requirements of standards (EN 474-1 and EN 474-6) that specify permissible levels of in-cab noise, vibration, content of hazardous substances and dust.
In-cab noise level is not more than 80 dB(A).
Local vibration level is not more than 126 dB(A).
Overall vibration level is not more than 115 dB(A).

Special equipment

Fire-fighting system (standard)
Heating and conditioning unit (standard)
Tire-pressure monitoring telemetry system (standard)
Centralized automatic lubrication system (standard)
Starting preheater (optional)
Air purification system (optional)
Auxiliary heater of cab (optional)

Overall dimensions, mm*



Weight

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|--|---------------------------|
| Maximum tank capacity, l | 119000 |
| Unladen weight, kg | 110100 |
| Gross weight, kg | 229100 |
| Vehicle weight distribution on axles, %: | |
| - front | unloaded 50,9 loaded 33,0 |
| - rear | unloaded 49,1 loaded 67,0 |

Capacities, l

| | |
|------------------------------------|---------------|
| Fuel tank | 1900 |
| Engine cooling system | 380 |
| Engine lubrication system | 156 |
| Oil tank | 490 |
| Reduction gears of motor-in-wheels | 92(46x2) |
| Suspension cylinders: | |
| - front | 33,8(16,9x2) |
| - rear | 57,4 (28,7x2) |

Water sprinkling system

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|--|-------------|
| Single-stage centrifugal pump | K100-65-250 |
| Drive power, kW | 32 |
| Rotational speed, min ⁻¹ | 2900 |
| Maximum pump delivery, m ³ /min | 1,7 |
| Pump thrust, mm of water column | 80 |
| Pump drive is hydrostatic. | |

Side spraying system

Two fan-shaped sprayers with actuation valves controlled from the cab.

Rear spraying system

Four fan-shaped sprayers with actuation valves controlled from the cab.
Width of water sprinkling zone, m 24,5

Hydraulic gun

Gun mounted at the tank front top with actuation valve controlled from the cab and mechanism of slewing in vertical and horizontal planes.
Angle of gun slewing, dg:

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|-----------------------------|----|
| upward | 50 |
| downward | 10 |
| in horizontal plane, radius | 35 |
| Water jet range, m | 60 |

Drum with fire-hose barrel

Drums mounted at the tank rear end with rubberized hoses and fire-hose barrels.

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| Number of drums | 1 |
| Hose length, m | 10 |

*Overall dimensions are specified for dump truck with standard options