



RNGI



Bulk cement trailer

ACV-26R3-11

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BULK CEMENT TRAILER ACV-26R3-11



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ACV-26R3-11 bulk cement trailer is designed for bulk transportation of dry cement, cement-sand and similar bulk materials and their feeding into mixing units for the preparation of solutions for plugging (cementing) casing strings of oil, gas and other wells, as well as in construction.

The reinforced chassis is designed for off-road use and on roads with poor surfaces.

The cement truck is equipped with an autonomous diesel compressor unit, which creates a vacuum for self-loading and pressure for unloading cement.

The cement truck equipment and its placement meet the requirements of the "Safety Rules in the Oil and Gas Industry".

The cement truck is equipped with axle assemblies, support devices, and a kingpin for towing with a truck equipped with a fifth wheel. The spare tire is located on a bracket at the rear.

The cement tanker is a sealed two-section cylindrical vessel with two inclined cylindrical bottoms equipped with aeration devices. The tank has two loading hatches with hatches, loading and unloading pipelines with a purge system. Butterfly valve are used as shut-off and control devices. The service is carried out from the platform located on the tank. The platform is equipped with a ladder, folding railings and lighting fixtures.

At the rear of the cement truck there is a compressor unit, an air filter, a cyclone bag filter, and a control panel. The pressure pipeline is used to control the air supply to the aeration devices and to the purging system of the loading and unloading pipelines. Ventilation of the tank through an air filter outlet Dn 100 mm.

Each section of the tank is equipped with a safety valve. Pressure gauges allow monitoring of the pressure in each section of the tank and in the discharge pipeline.

The KAMAZ 65221-43 hauler is recommended as the chassis; a different hauler can be used as an option. The hauler is not included in the delivery package.

ACV-26R3-11 bulk cement trailer.



Figure 2 - ACV-26R3-11 bulk cement trailer.

Technical specifications

Parameter name	ACV-26R3-11
Hopper volume, m ³	26 (2x13)
Number of hopper sections, pcs.	2
Hopper material, steel grade	AISI A 516-55
Hopper wall thickness, mm	4
Operating temperature of hopper wall, °C	-40... +40
Top speed, km/h	65
Working pressure in the hopper, Mpa	0,2
Test pressure, Mpa	0,23
Pneumatic unloading performance, t/min (m ³ /min)	1,1 (0,95)
Unladen weight, kg	11000
Weight capacity, kg	29000
Gross weight permitted by design, kg	40000
Gross weight distribution, kg - on fifth-wheel coupling, no more - on trailer dolly, no more	16000 24000
Number of axles/wheels	3/6
Suspension	Dependent suspension on longitudinal elastic levers and air bellows and hydraulic shock absorbers.
Tyre (size)	385/65 R22.5
Tyre brand	Kormoran On/Off or Cordiant professional TM-1
Wheels	11.75 x 22.5, single wheels disk
Axles	Tonar 9042, first axle lifting

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Figure 2 - ACV-26R3-11 bulk cement trailer.

Technical specifications

Parameter name	ACV-26R3-11
Brake system:	
- primary	- with a pneumatic two-wire drive, automatic brake force regulator and anti-lock braking system acting on drum-type brake mechanisms
- parking	- mechanical drive with spring brakes and pneumatic hand control valve
- emergency	- mechanical drive with spring brakes to wheel brakes
Brake force regulator	Wabco
Loading method	Through the top hatch by means of the bulk material's own weight, and through loading pipelines by vacuum and forced methods.
Unloading method	Through the unloading unit located on the left side of the tanker's travel direction.
Diameter of loading hatches, mm	500
Diameter of the loading pipeline, mm	125
Diameter of the unloading pipeline, mm	125
Diameter of the ventilation pipeline, mm	80
Connection type: - loading pipeline - unloading pipeline - pressure line pipeline	- Camlock "male" 4" - Camlock "male" 4" - Camlock "male" 2"
Kingpin type by GOST 12017-81, mm	50,8
Compressor: - brand - type - discharge, m ³ /min, no less - pressure, Mpa	«RNGI» KM-7-2R1 7 0,21
Height of fifth-wheel coupling, mm	1550

ACV-26R3-11 bulk cement trailer. Structure.

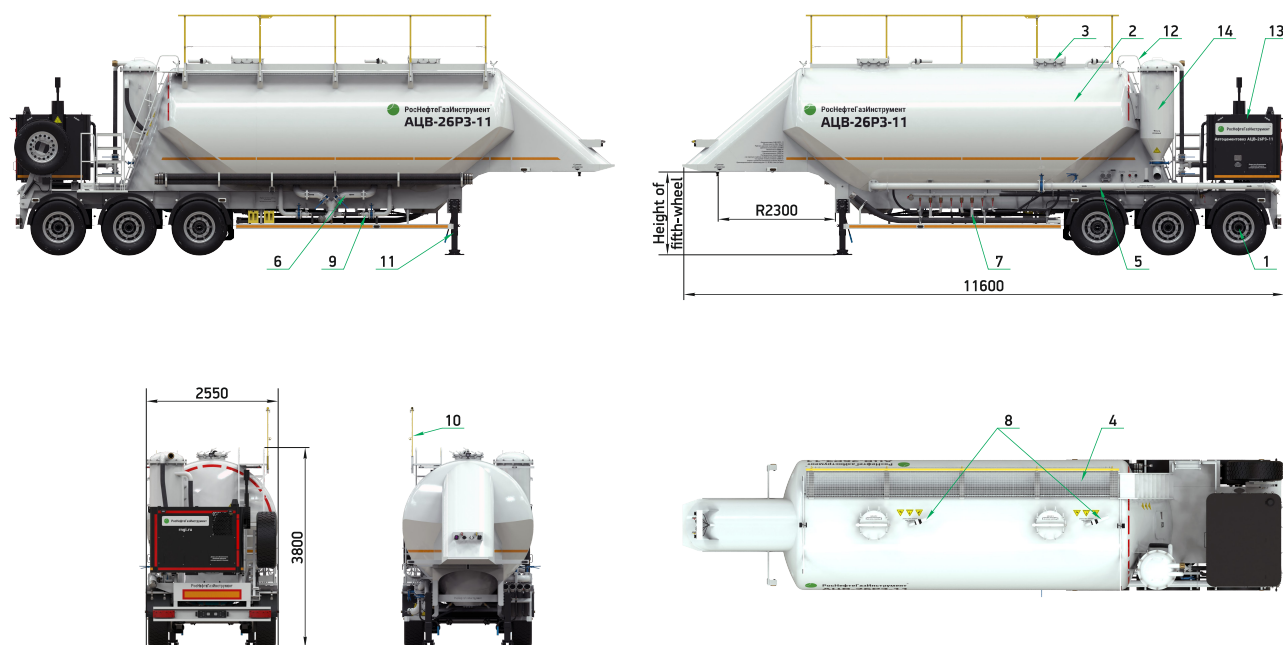


Figure 3 - ACV-26R3-11 bulk cement trailer.

1	Axle
2	Hopper (two-sectional)
3	Hatch
4	Platform
5	Loading pipeline
6	Unloading pipeline
7	Control manifold
8	Safety valves
9	Ventilation pipeline
10	Railings
11	JOST landing gear or equivalent with independent drive
12	Ladder
13	Compressor unit with diesel drive and air filter
14	Cyclone bag filter

ACV-26R3-11 bulk cement trailer. Advanced features.

Name	Include in the kit
The compressor is driven by a four-stroke-cycle diesel D-242, with a starter, with a generator, without a clutch, via a V-belt transmission	☐
Installing the clutch into the compressor drive	☐
Valves on loading and unloading lines "Kvant» Russia	☐
Valves on loading and unloading lines "Promarmatura» Russia	☐
Logo _____ on the body of tank, color _____	☐
Compressor unit heating type - Teplostar 14TS, water	☐
Compressor unit heating type - Webasto, water	☐
Special height of fifth-wheel coupling _____ mm	☐
Spark arrester in the exhaust system	☐
Heat shield for muffler	☐
Spare wheel with hydraulic lift	☐
Fuel filter with water separator and heating	☐
DFM 250AK fuel flow meter (fuel consumption monitoring) or equivalent. LLS digital sensor or equivalent with calibration and pre-wired terminal.	☐
Discharge and loading pipelines DN 125 mm	☐
Battery: 2 pcs. of 190 A*h	☐
Multi-cyclone air purifier with a preliminary stage of cleaning from dust and water, without a dehumidifier	☐
Closed-type compressor control panel (protected from water and moisture)	☐
Increased fuel tank capacity of 125 liters	☐
Locking fuel tank cap	☐
Spare parts:	
Loading Hose DN 125 mm, L=4 m. with hammer union (camlock) 4"-4 pcs., (female-female)	
Loading Hose DN 125 mm, L=6 m. with hammer union (camlock) 4"-4 pcs., (male-male)	
Tire inflation hose, at least 15 m long, with the ability to connect to the brake system receiver	☐
Hydraulic jack 40 tons, not less	
Advance-warning triangle	
Powder fire extinguishers, 5 kg each, 2 pcs.	
Wheel brace, tire lever L-850 mm D-22 mm, sledgehammer 3-5 kg, hammer, pliers, screwdriver "+" and "-", chisel for body work, wheel hub nut wrench, combination spanner wrench from 8 to 32 mm, portable lamp	
Toolbox	☐
Set of wheel blocks	☐



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