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Mobile cement bulk storage

MS-40R3-05

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MOBILE CEMENT BULK STORAGE MS-40R3-05



MS-40R3-05 Mobile cement bulk storage

The MS-40R3-05 Mobile cement bulk storage is designed for receiving, storing, unloading, and loading cement or other dry bulk materials with a density of up to 1.5 g/cm³.

The cement bulk storage is designed for operation at ambient temperatures of -45°C to +40°C.

Road categories on which the warehouse can be operated, according to SNiP 11-D5-72, are 1 to 5.

The cement bulk storage is designed for use with semitruck with mounting dimensions in accordance with GOST 12105-7 4, pneumatic connections in accordance with GOST R 41.13-2004, electrical connections in accordance with GOST R 41.48-2004, and a fifth-wheel coupling (FCU) load capacity according to the technical specification tables in this technical proposal.

Connection to the product pipeline is via a 5" thread quick release coupling (QRS) for loading and a 5" thread quick release coupling (QRS). This connection is optionally interchangeable.

Additional air inlet is via a 2" camlock.

The cement bulk storage is unloaded pneumatically through the discharge pipeline. Silo fill levels are monitored through portholes.

Each silo is equipped with a relief valve. Pressure gauges monitor the pressure in each silo and on the discharge pipeline.

Transportation of a semitrailer with loaded silos is prohibited.

TS 28.22.17.190-057-79560377-2019

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Figure 1 - MS-40R3-05 Mobile cement bulk storage.

Technical specifications

Parameter name	MS-40R3-05
Bulk volume of silos, m ³	38
Working pressure of the pneumatic air supply system, MPa	0,27
Unloading performance, t/min (m ³ /min)	1,1 (0,95)
Nominal diameter of product pipelines, Dn, mm	125
Compressor performance, m ³ /min	10
Unladen weight, kg, no more	19 600
Gross vehicle weight, kg, no more	28 000
Load of gross vehicle weight on:	
- Semitruck's fifth-wheel coupling, kg, no more than	9 000
- the road via the semi-trailer bogie, kg, no more than	19 000
Gross weight of the cement bulk storage in a stationary state with additional supports extended, kg, no more than	80 000
Max speed, kmph	65
Suspension	Air ride suspension
Number of axles/wheels	2/4+1 (spare wheel)
Tyres (size)	385/65 R22.5
Fifth wheel height, mm	1550
Type of kingpin according to GOST 12017-81, mm	50
Length of vehicles, mm, no more than	14 100
Width of vehicles, mm, no more than	2 550
Height of vehicles, mm, no more than	4 000

MS-40R3-05 Mobile cement bulk storage. Dimensions.

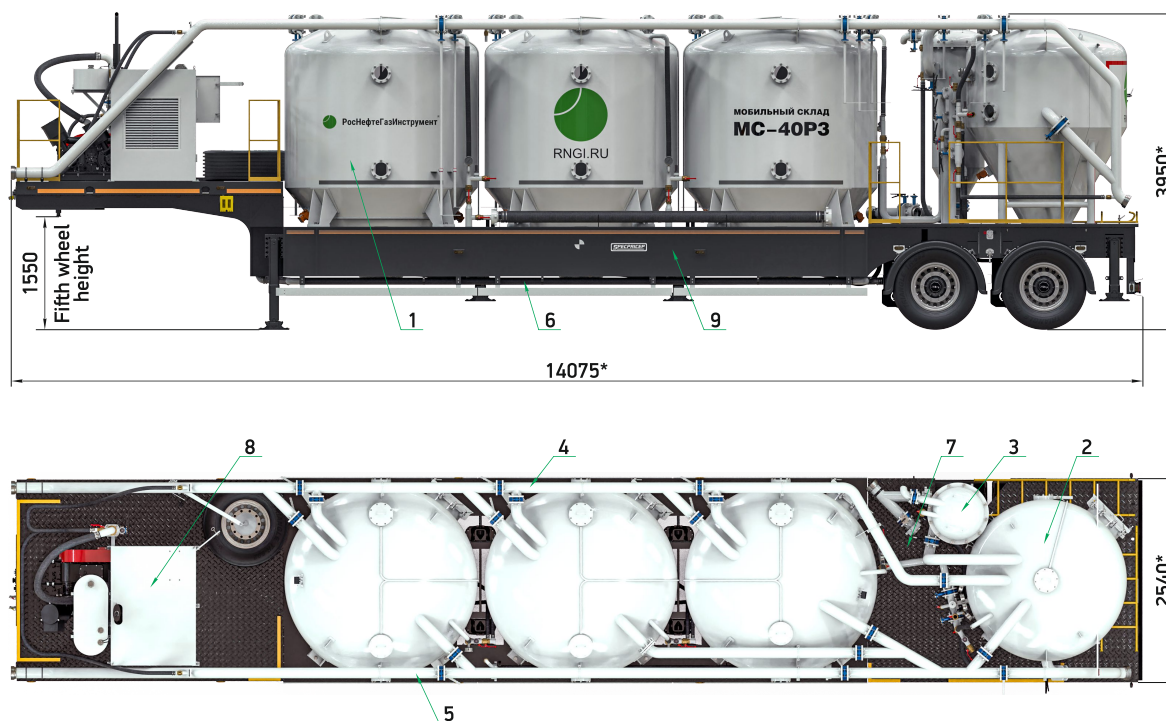


Figure 2 - MS-40R3-05 Mobile cement bulk storage.

- | | |
|---|---|
| 1 | Cement silo with a capacity of 11m ³ |
| 2 | Cement silo with a capacity of 5m ³ |
| 3 | Air purification filter |
| 4 | Loading (ventilation) pipeline |
| 5 | Unloading pipeline |
| 6 | Air supply pipeline |
| 7 | Platform |
| 8 | Compressor unit |
| 9 | Semi-trailer |

* optionally changes

MS-40R3-05 Mobile cement bulk storage. Product structure.

- | | |
|---|--|
| 1 | Cement silo with a capacity of 11m ³ - 3 pcs; |
| 2 | Cement silo with a capacity of 5 m ³ - 1 pc; |
| 3 | Cyclone-sleeve type air purification filter with sleeve regeneration - 1pc; |
| 4 | Compressor unit (equipped with a Bekomsan piston-type compressor driven by a diesel engine* with a weatherproof hood) - 1pc; |
| 5 | The chassis is two-axle with single tires and air suspension. - 1pc. |

* optionally changes

MS-40R3-05 Mobile cement bulk storage. 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	☐
MVE 50 DC 24V (80W) electric vibrators, two per silo. Powered by 24V from the independent compressor station drive. The vibrator controls are located in the operator's work area (rear of the compressor unit).	☐
Spark arrester in the exhaust system with a passport.	☐
Unloading pipeline Dn125 tamping through Hammer union-4" (thread), fig206.	☐
Loading pipeline Dn125 tamping through Hammer union-4" (thread), fig206.	☐
Autonomous pre-start diesel engine heater type 14TS-10-24.	☐
Lateral protection devices on both sides.	☐
Valves manufactured by Kvant (Russia); working environment - dry cement; ambient temperature, 0C: -40 ... +40; nominal pressure, MPa – 1.0; tightness - class A; drive type - locking adjustment handle.	☐
A rigid cement supply line shall be constructed from component parts with quick-release pipe connections (to ensure quick replacement of butterfly valves)	☐
Product pipeline pipe 140x6	☐
Spare parts kit:	
Loading hose DN 125 mm with a 4" nut-to-nut coupling (WECO thread type fig. 206): 4 m long – 1 pc.	☐
Lightweight tee, DN 125 mm, "thread-to-nut-to-nut" with two gate valves on the lines with "nuts" (thread type 4" Hammer union – WECO fig. 206) – 1 pc.	
Set of wheel blocks	☐



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