

**Technical proposal****MS-40R3 Bulk cement storage silos.**

MS-40R3 Bulk cement storage silos designed for receiving, storing and unloading – loading to the consumer of cement or other dry bulk materials with a density of no more than 1,5 g/sm³.

Storage silos is designed to operate at an ambient temperature of – 40°...+ 40° C.

The category of roads where the storage can be operated, according to construction code and regulations 11-D5-72 – 1...5.

Storage silos designed for use with tractors that have connecting dimensions in accordance with GOST 12105-74, have pneumatic outlets in accordance with GOST R 41.13-2004, electric outlets in accordance with GOST R 41.48-2004 and allow the load on the coupling device according to the tables with technical characteristics.

Connection to the product loading pipeline via camlock type A (male plug) 4", unloading - camlock type A (male plug) 5".*

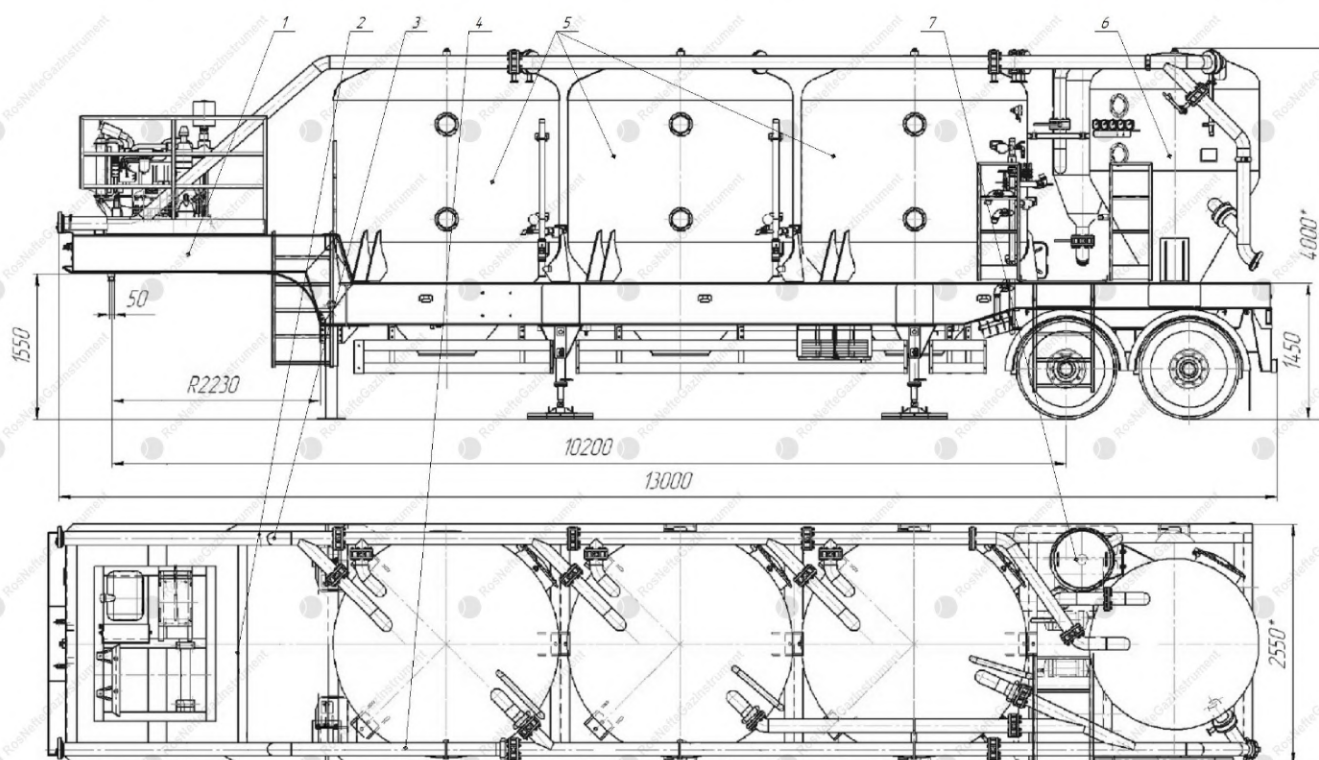
Additional air entrance - via camlock 2".

Storage silos is unloaded pneumatically through the unloading pipeline. Control the level of loading of silos through the Windows. It is not allowed to transport a semi-trailer with loaded silos.

Bulk cement storage silos MS-40R3 consist of: 1 - Semi-trailer chassis; 2 - Compression unit; 3 - Loading (ventilation) pipeline; 4- Unloading pipeline; 5 - Cement silos with a volume of 11m³; 6 - Cement silos with a volume of 5m³; 7 - Air filter.

Table 1.

| Parameter name | MS-40R3 |
|---|-----------------|
| Total volume of tanks, m ³ | 38 |
| Working pressure of the pneumatic air supply system, MPa, max | 0,2 |
| Unloading capacity, t / min (m ³ / min) | 1,9 (1,6) |
| Nominal diameter of product pipelines, DN, mm | 125 |
| Compressor output KM 12/2, m ³ / min | 12 |
| Loaded vehicle weight, kg, max | 18600 |
| Total vehicle weight, kg, max | 18600 |
| Full-weight vehicle loads on: | |
| - Fifth-wheel coupling of the road tractor, kg, max | 8500 |
| - the road through the semi-trailer truck, kg, max | 10100 |
| Total weight of the storage in a stationary state with additional supports, kg, no more | 75600 |
| Maximum speed, km/h | 65 |
| Suspension | Air |
| Number of axles / wheels, pcs. | 2/4+1 (stepney) |
| Tire type | 385/65R22,5 |
| Height of fifth-wheel coupling, mm | 1550 |
| Type of coupling pin according to GOST 12017-81, mm | 50 |
| Overall dimensions, mm, max: | |
| - length | 13000 |
| - width | 2550 |
| - height | 4000 |



Pic. 1 MS-40R3 Bulk cement storage silos.

Product structure:

- 1.1. Cement silos with a volume of 11m^3 – 3pcs;
- 1.2. Cement silos with a volume of 5m^3 - 1 pc;
- 1.3. Cyclone-bag type air purification filter with hose regeneration - 1 pc;
- 1.4. Compressor unit (equipped with a KM-12-2R1 pendulum type compressor driven by a diesel engine* with weather protection cover);
- 1.5. The chassis is two-axle with a single-pitched busbar and air suspension - 1 pcs.

* optional changes (see table 2)

Table 2 – Additional options MS-40R3.

| Designation | Include in the package |
|---|--------------------------|
| Direct drive of the compressor from a four-stroke d-245 diesel Engine with turbocharging and charge air cooling, with a starter, with a 12V generator | <input type="checkbox"/> |
| Compressor drive via V-belt transmission from D-144 air-cooled diesel engine | <input type="checkbox"/> |
| Hydraulic drive from the hydraulic pump installed on the road tractor | <input type="checkbox"/> |
| Insulated battery compartment | <input type="checkbox"/> |
| Heating of the fuel system and fuel filter | <input type="checkbox"/> |
| Spark killer in the exhaust gas system | <input type="checkbox"/> |



| | |
|---|--------------------------|
| Discharge and loading pipelines DN 125 mm | <input type="checkbox"/> |
| Connection to the discharge pipeline via QRC 5" (nut), to the loading pipeline via QRC 5" (thread) | <input type="checkbox"/> |
| Autonomous prestarting heater of the engine | <input type="checkbox"/> |
| SPTA: Loading sleeve L=4 m. with QRC -1 pc., triple adaptor - 1 pc. Adapter -1 pc. | <input type="checkbox"/> |
| Wheel block kit | <input type="checkbox"/> |
| Side protection devices | <input type="checkbox"/> |
| Declaration/certificate of conformity to the technical regulations of the customs Union TR CU 010/2011 "On the safety of machinery and equipment» | <input type="checkbox"/> |
| Certificate of vehicle design safety in accordance with TR CU 018/2011 "On the safety of wheeled vehicles» | <input type="checkbox"/> |