



## «NITRO SIBIR» AO

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# MIXING AND CHARGING AND DELIVERY EQUIPMENT

[www.nitros.ru](http://www.nitros.ru)



## Mixing and charging trucks for open-pit mining

For more than 25 years 'NITRO SIBIR' AO has been developing and manufacturing mixing and charging trucks characterized by the high safety level, automatization on and operational life in severe climatic conditions.



**Mixing and charging truck MSZ-16** is intended for:

- transportation of non-explosive components of the water resistant emulsion explosive 'Sibirit-1000' and 'Sibirit-1200', of emulsion, gas generating agent, water spray solution;
- emulsion explosives manufacturing by mixing those components during blastholes charging at open-pit mining operations.



**Mixing and charging truck MSZ-20UT** is intended both for transportation of explosive's components and manufacturing of the following types of commercial explosives:

- 'Sibirit-1000' and 'Sibirit-1200' emulsion explosives;
- ANFO type granulated explosives;
- 'Sibirit PM' mixed emulsion explosives.

## Delivery trucks

Delivery trucks developed and manufactured by 'NITRO SIBIR' AO are intended for timely supply to long-distance mining enterprises with emulsion (with its subsequent reloading into mixing-charging trucks) and with oxidizing solutions for emulsion manufacturing at mobile manufacturing unit (MMU). Delivery trucks by NITRO SIBIR ensure delivery of emulsion and oxidizing solution without loss of components quality over distances up to 2500 km.

**Tank semi-trailer ADR 20-1** designed for transportation of non-explosive components of the water resistant emulsion explosive 'Sibirit-10 and 'Sibirit-1200', of emulsion and gas generating agent, as well as water spray solution with subsequent reloading of these components into mixing-charging trucks. Tank semi-trailer's loading capacity is 27 tons of components.



**Tank semi-trailer ADR 17-1** designed for transportation of ammonium nitrate solution. Total weight of the transported solution – 22,7 tons. Tank has heat proof, liquid heating system and could be equipped with a pump. Pump drive could be hydraulic or electric. The tank has 3 hatches with diameters of 500 mm.h

## Charging trucks for underground mining

'NITRO SIBIR' AO has designed a range of underground charging units for drivage and stoping. Underground charging units are used for the storage and transportation of non-explosive emulsion components and for the manufacturing of the specific emulsion explosive 'Sibirit-700LL' or 'Sibirit-800LL' during the process of blastholes charging.

'NITRO SIBIR' AO manufactures not only standard models of the underground charging units but also offers underground charging units designed and manufactured according to the specific conditions of the Client's underground mining operations, including:

- 1) Mounting underground charging units on self-propelled chassis for mining and mine rails;
- 2) Producing underground charging units not only for boreholes, but also for longholes stoping, both with hydraulic and electrical drive, which allows for the selection of equipment without the extra cost of re-equipping the pit or mine.



**Underground charging unit MP-1600** is mounted on a multipurpose vehicle PAUS, but could also be installed on an analogous chassis.

The main features of the underground charging unit MP-1600 are:

- Fully automated control which helps to reduce human error during use;
- Shielded construction of the major components and units;
- Possibility to regulate initial charging density and the amount of the explosive being delivered.



**Underground mixing-and-charging truck 'MSZP-4'** Mixing-and-charging truck 'MSZP-4' is designed for loading vertical and deviated boreholes with a diameter of 60 mm to 120 mm, a depth of 40 m and an angle of inclination to the horizon of 0 ° to 90 ° during stoping and blasting operations applying emulsion explosive 'Sibirit'. For charging at ambient temperatures from +5 °C to +45 °C.

You can find the full range of mixing-and-charging trucks and delivery equipment manufactured by 'NITRO SIBIR' AO on our website [www.nitros.ru/en/](http://www.nitros.ru/en/)