



## «NITRO SIBIR» AO

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# EMULSION EXPLOSIVES MANUFACTURING TECHNOLOGIES

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## Modular facilities for emulsion explosives production

'NITRO SIBIR' AO designs and builds modular complexes for bulk and composite emulsion explosives production with possibility to increase operating capacity from 8 thousand to 200 thousand tons per year.

- Production implies manufacturing of 'Sibirit'<sup>™</sup> emulsion and other emulsion explosive components at place of the project realization.
- Possibility to use readymade oxidizing solutions has been foreseen;
- Wasteless production;
- High adaptedness to the quality of raw materials;
- High automatization of production process;
- Safety of production process and technology application (no explosion-hazardous solutions and components). The technology implies



manufacturing of explosive emulsion formulation directly in the process of borehole charging.

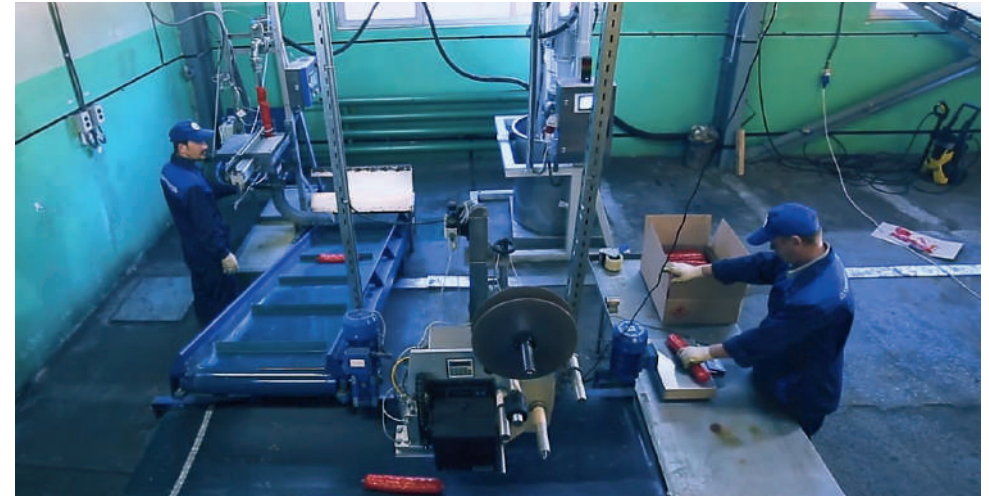
## Mobile technology for emulsion explosives production

Mobile manufacturing unit MSZ-14 MT with annual operating capacity of 25 thousand tons is intended for emulsion explosive 'Sibirit'<sup>™</sup> production, transportation of emulsion explosive components and their reloading into mixing and charging trucks and charging of boreholes.



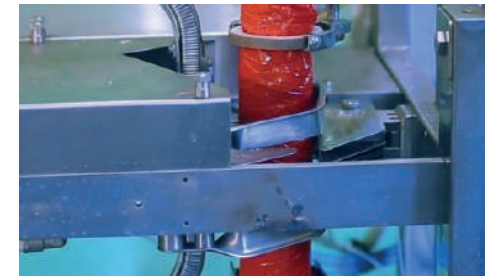
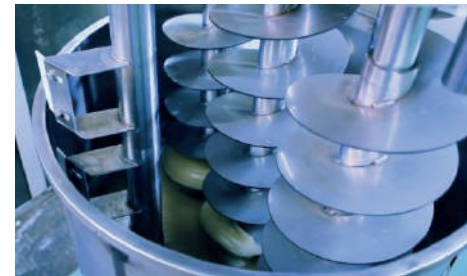
### Main advantages of mobile production complexes are:

- Minimal prime cost of emulsion explosives production due to low capital and operating expenses.
- Possibility to locate any mobile unit directly at production sites of a mining company – consumer of emulsion explosives.
- Maximal mechanization and automatization of production processes which excludes hard manual work.
- Possibility to decrease logistic expenses for transportation of raw material components and explosive's components.
- Possibility to increase operating capacity by adding units of mobile technological equipment.



## Packaged emulsion explosives production technology

'NITRO SIBIR' AO has developed original recipes of emulsion explosives, technology and equipment intended for mixing of the emulsion with the sensitizing agent and further filling of the emulsion explosive into wrapper and forming of cartridges.



- The technology of packaged emulsion explosives 'Sibirit'<sup>™</sup> manufacturing enables production of emulsion cartridges as basic explosives and detonator sensitive emulsion cartridges used as boosters.
- Suggested diameters of emulsion cartridges: 32, 50, 60, 90 and 120 mm.
- The technology of production implies the use of emulsion matrix from the main production complex.
- Operating capacity of one technological line varies from 1 to 5 thousand tons per year with possibility to increase production volumes.

The list of emulsion explosive products manufactured by 'NITRO SIBIR' AO using this technology is presented in the leaflet 'NITRO SIBIR' AO emulsion explosive products.