ZAVKOM ENGINEERING



BIOTECHNOLOGY DEPARTMENT

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ZAVKOM-ENGINEERING LLC — one of the leading Russian EPCM contractors providing turnkey supply of high-tech and energy-efficient industrial plants and equipment for the petrochemical, biotechnology, food and pharmaceutical industries.

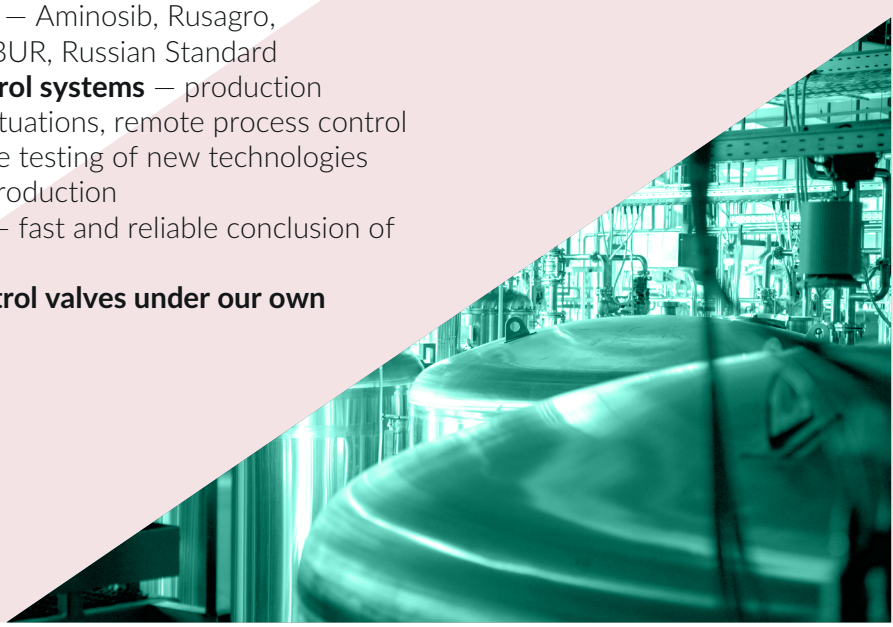


SERVICES FOR INTEGRATED PROJECT DELIVERY

- pre-design studies
- basic and detailed engineering design
- process design
- general design
- development and supply of process control systems
- equipment manufacturing, supply and installation
- installation supervision and commissioning
- personnel training
- warranty and post-warranty support

WHAT MAKES US UNIQUE

- **in-house manufacturing** — high-quality and on-time delivery of contracts without intermediaries
- **experience of supplying industry leaders** — Aminosib, Rusagro, URALCHEM, Agroferment, Carlsberg, SIBUR, Russian Standard
- **development and supply of process control systems** — production optimization, prevention of emergency situations, remote process control
- **technology trials on pilot plants** — reliable testing of new technologies before their introduction into full-scale production
- **operation with all financial instruments** — fast and reliable conclusion of contracts
- **in-house production of shut-off and control valves under our own brand**



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DEEP GRAIN PROCESSING

Main products:

- gluten
- starch (native, modified)
- starch syrup, syrups, HFCS
- fodder yeast
- ethanol
- amino acids
- organic acids
- xanthan gum
- vitamins
- enzymes



DEEP PEA PROCESSING

Main products:

- pea protein isolate
- pea starch
- pea fibre

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ETHANOL PRODUCTION AND STILLAGE PROCESSING

Feedstock:

- wheat
- corn
- rye
- molasses
- by-products of deep grain processing

Products:

- rectified food-grade ethyl alcohol
- pharmaceutical ethyl alcohol
- bioethanol

BEER PRODUCTION

Equipment supplied:

- brewhouse
- cylindroconical tank section
- pure yeast culture section
- yeast storage section
- bright beer tank section
- CIP stations

ALCOHOLIC BEVERAGE PRODUCTION

Main products:

- spirits and liqueurs
- vodka
- sparkling wine
- distillates
- whisky
- brandy



SPRAY DRYING PLANTS

Applications:

- products of plant raw material processing
- petrochemical processing products
- pharmaceutical and bacterial preparations
- organic and inorganic products
- fertilizers

INDUSTRIAL WASTEWATER TREATMENT

Applications:

- biotechnology industry
- food industry
- mining industry (mine water treatment)
- pharmaceutical and cosmetics industries
- petrochemical industry
- metallurgical industry

VACUUM EVAPORATION PLANTS

Applications:

- industrial wastewater treatment
- biotechnology industry
- food industry
- pharmaceutical and cosmetics industries
- petrochemical industry

Main types of vacuum evaporation plants:

- falling-film evaporators
- forced-circulation evaporators
- combined units (falling-film evaporators including a forced-circulation loop)

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OUR REFERENCE LIST

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