



Our solutions are
your efficiency



COMPANY INFORMATION

LLC 'TECHNOTECS' company is a multidisciplinary engineering company specializing in complex technological projects for the construction and reconstruction of oil and gas facilities.

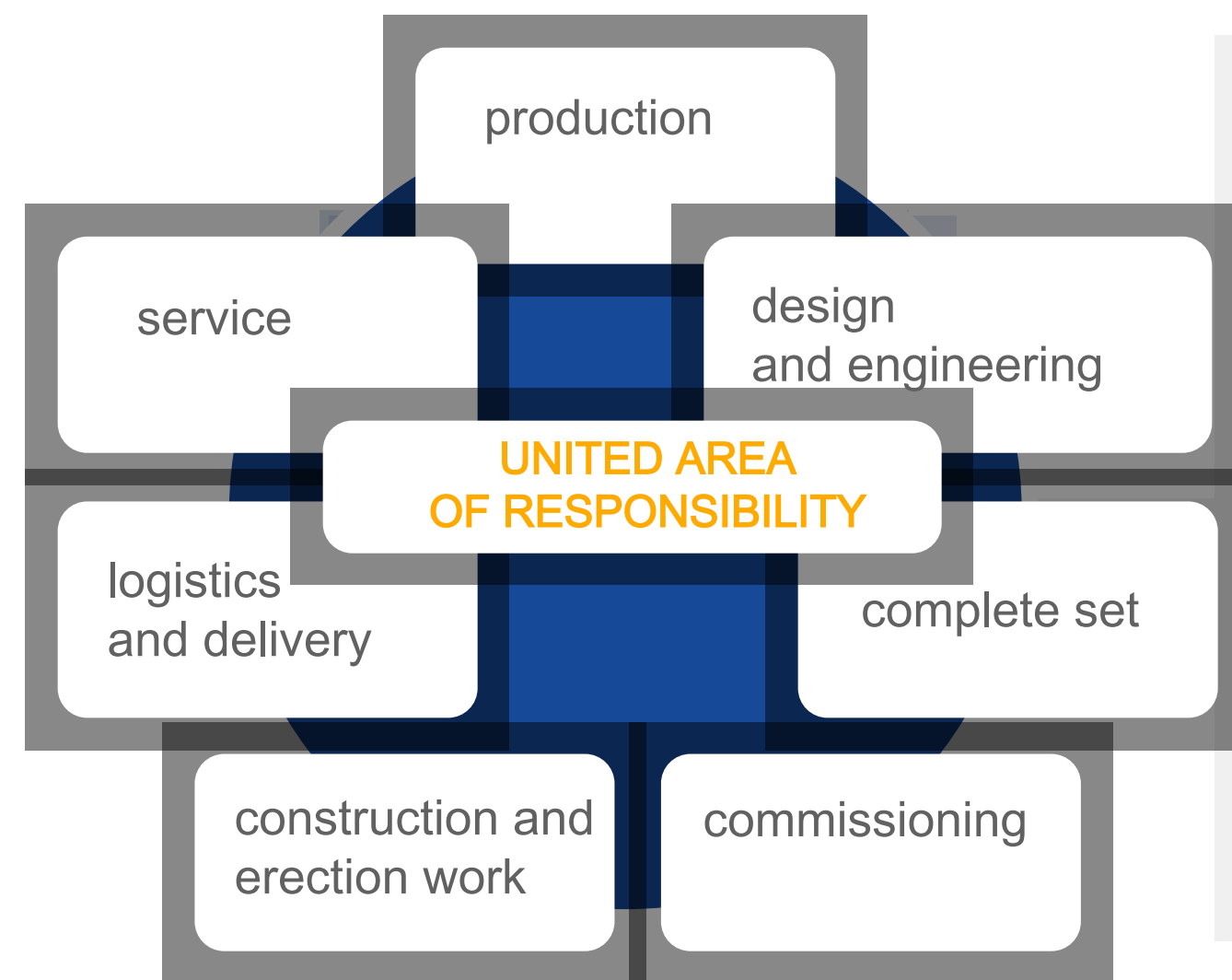
Having experience and competence in the implementation of EPC projects in the fuel and energy industry, the company carries out a full range of work in the field of production and technological engineering from the stage of feasibility study to the stage of commissioning of the facility.

As part of the implementation of major projects LLC 'TECHNOTECS Company' performs all the main types of specialized works and services for the construction, reconstruction and modernization of water treatment and water treatment systems, developing in the vector of increasing the reliability of facilities, reducing energy intensity and reducing the harmful impact on the environment.



COMPANY INFORMATION

- The total number of employees is more than 400 people
- 3 doctors of Sciences
- 9 candidates of sciences



Certified laboratories:

- Metrological
- Electrical engineering
- Chemical

STAFF

- Project management
- Engineering
- Design Department
- Technical department of automated control
- System Equipment
- R&D Service and Operation
- Production
- Contract supervision / commissioning

PRODUCTION

- Own production facilities – 20,000 m²
- Own storage facilities - 4000 m²
- Certified laboratories – 150 m²

Integrated quality Management system

- Quality management system GOST P ИСО 9001-2015 (ISO 9001:2015)
- Quality management system Proprietary Standard Gazprom 9001-2018 INTERGAZSERT
- SRO for the design of the 4th level (up to 300 million rubles)
- SRO for the construction of the 4th level (the cost of work is up to 10 billion rubles)
- SRO for engineering surveys of the 2nd level (does not exceed 50 million rubles)



EQUIPMENT AND SOLUTIONS

- PUMPING STATIONS
- FLARE EQUIPMENT
- COMMERCIAL AND OPERATIONAL ACCOUNTING SYSTEMS
- FURNACE AND HEATING EQUIPMENT
- AIR COOLING DEVICES
- BLOCK-MODULAR, METAL-FRAMED BUILDINGS

- **INDUSTRIAL AND DOMESTIC WASTEWATER TREATMENT PLANTS:**

- Sewage pumping stations
- Blower stations
- Mechanical cleaning
- Physico-chemical cleaning

- Biological purification
- Mixing systems
- Wastewater disinfection
- Wastewater disinfection

- **WATER TREATMENT FACILITIES, WATER TREATMENT, water-supply facility:**

- Water intake nodes
- Reagent treatment and settling •
- Filtering
- Ultrafiltration

- Reverse osmosis
- Water softening
- Pumping stations of the 1st and 2nd lifting



- ◆ Complex interaction with foreign licensees in the design of complex technological facilities (from the operational development of preliminary drawings of technological equipment with basic weight and size parameters, technical projects to the development of working and design documentation and operational documentation according to Customer requirements)

- ◆ Experience of participation in HAZID/HAZOP procedures as a manufacturer of technological equipment

Audits of main customers

- GAZPROMNEFT-SNABJENIE LLC
Manufacture and supply of block-modular complexes, such as treatment facilities & water treatment plants
- PJSC Oil Company ROSNEFT
Facilities, complexes of industrial and municipal water treatment
- PJSC GAZPROM NEFT
- JSC SDC RPC "RUSSKAYA LABORATORIA" FOR PJSC GAZPROM
- LLC "CC "PERSPEKTIVA"/PJSC GAZPROM
- Certification Association "RUSSIAN REGISTER" for PJSC GAZPROM



OIL TREATMENT PLANTS

The integrated oil treatment units (IOTU) are designed for the collection and preparation of oil well products and the delivery of commercial oil.

IOTU are equipped with automated control systems for equipment and technological processes that allow the installation to be operated without the constant presence of maintenance personnel.

IOTU is supplied in the form of block modules of full factory readiness, including process equipment, shut-off and control valves, process pipelines, automated control systems and other auxiliary equipment. The stations are delivered to the place of operation ready to be connected to technological lines and engineering networks, which significantly reduces the time of putting the equipment into operation.

If it is necessary to have a compact location of the IOTU, a multi-tiered layout of technological units is possible.

The IOTU complex may contain:

- . oil and gas separators;
- . oil dewatering and desalination units;
- . oil pumping units;
- . preparation of well products and auxiliary media;
- . reservoir water treatment devices;
- . flare installations;
- . buffer and drainage capacity;
- . technological and storage tanks;
- . automated process control system;
- . power supply systems;
- . other auxiliary equipment.



GAS TREATMENT PLANTS

Gas treatment units (GTU) are designed to work with natural and associated petroleum gas. The equipment allows you to prepare a product that meets the requirements of Proprietary Standard 089-2010 (for further transportation) and GOST 5542-2014 (for use as fuel).

GTU can be equipped with automated control systems for equipment and technological processes that allow you to operate the installation without the constant presence of maintenance personnel.

If a compact arrangement of the GTU is necessary, a multi-tiered layout of technological units is possible.

The delivery time depends on the complexity of the GTU and ranges from three to ten months.

The composition of the GTU includes:

- pre-separation unit;
- technological installations for gas purification, drying and cooling;
- booster compressor stations;
- auxiliary systems: control room, platforms with installations of communication facilities, electrical, heat and water supply, electrochemical protection, fire extinguishing, etc.;
- other possible technological equipment.

The completeness of the GTU and the method of preparation are selected depending on the properties of the raw materials and the required quality of the final product.

Pumping stations are one or more complete factory-ready block modules and include mounted and connected pumping equipment, shut-off valves, process pipelines, automated control system and other auxiliary equipment. The stations are delivered to the place of operation ready to be connected to technological lines and engineering networks, which significantly reduces the time of putting the equipment into operation.

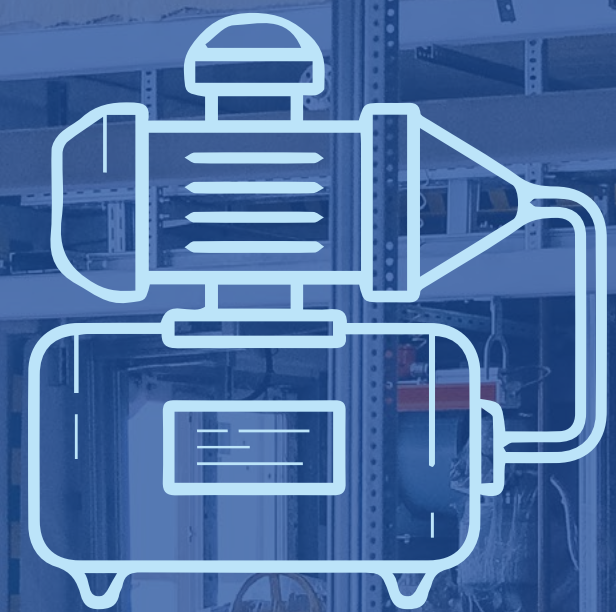
The number of block modules depends on the performance of Water injection station, the number of pumps and the composition of the technological equipment.

Pumping stations manufactured by TECHNOTECS:

- Pumping stations for pumping oil
- Pumping stations for pumping water
- Block-cluster pumping stationswater
- Fire extinguishing pumping stations
- Multiphase pumping stations
- Pumping stations of household and drinking water supply
- Sewage pumping stations
- Back-up pumping stations

Stations can be completed:

- Pumping units
- Filtration systems
- Pipeline and cable strapping
- Shut-off and control valves
- Necessary automation tools
- Auxiliary equipment
- Life support systems equipment



PUMPING STATIONS



FLARE EQUIPMENT

Flare equipment

- They are used at the facilities for the collection and preparation of products from oil and gas fields, petrochemical, oil refining, chemical and other industries, and allow avoiding the use of morally and technically outdated, metal-intensive, expensive and often unsafe flare systems;
- Used for emergency, permanent and periodic discharges, equipment failure, power outage, scheduled repairs, as well as for the combustion of vapors and organic substances;
- Allow highly efficient combustion of any ratios of hydrocarbons, acidic and inert gases due to the appropriate modification of the flare head;

Flare installations are:

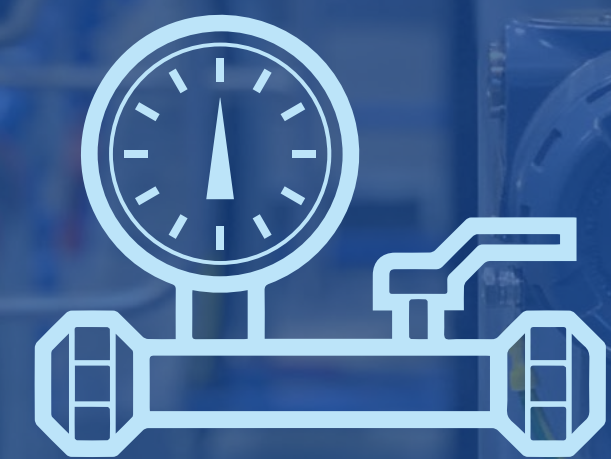
factory-wide, in which similar gas emissions (for example, hydrocarbons) are burned from various productions of the enterprise, and special (as part of separate technological installations or productions).

TECHNOTECS company designs and manufactures flare systems of various types both of its own design and in partnership with the Italian company Fives ITAS.

Types of flare equipment

- Flare installations of the open type
- Closed-type flare installations
- Horizontal flare installations
- Installations for heating the working reagent
- Smokeless flare systems
- Thermal oxidizers

Gas capacity	Up to 8 billion nm ³ /day
Gas consumption for duty burners	up to 16 nm ³ /day
Diameter of the flare installation barrel	up to 1400 mm
Height of flare installation	up to 120 m



ACCOUNTING SYSTEMS

Measurement systems for the quantity and quality indicators of oil, gas and water are designed to provide automatic measurement of the quantity and quality of the working medium in units of mass and volume with accuracy in accordance with the standards of the Russian Federation. Measurement systems provide manual and automatic sampling, as well as measurements of the required current parameters.

Depending on the features of the technological regime and the individual requirements of the Customer, the equipment can be supplied:

- in block-modular design
- in open execution

Types of equipment issued:

- Gas quantity measurement system
- Measurement system of quantity and quality indicators of oil and petroleum products
- Water quantity measurement system
- Automated group measuring installation

LLC 'TECHNOTECS' Company manufactures and supplies furnaces for licensed installations in cooperation with an Italian partner - VergaEngineering SpA Center.

Technotecs furnace equipment is used at Gazprom and Lukoil enterprises and is accredited by leading licensors such as Foster Wheeler, HaldorTopsoe, Technimont, SiirtecNigi.

The furnace equipment is designed for heating working media of various phase states. The software used by our specialists to perform thermal and hydraulic calculations allows you to simulate all the characteristics of the technological process (temperature in the chamber, temperature of the coil wall, temperature of the external surface, speed, intensity of heat flow, driving mode, etc.).

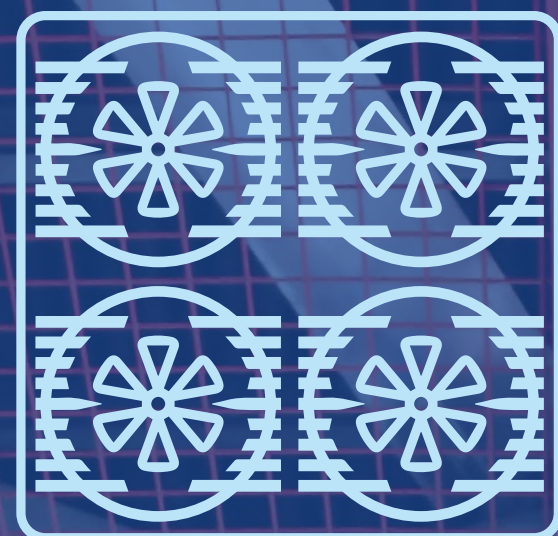
Types of equipment:

- Cylindrical furnaces
- Box furnaces
- Reaction furnaces
- Heaters and block furnaces
- Afterburning furnaces
- Incinerators

The company offers the construction of block furnaces complete with refractory lining, coils, burners, platforms, pipelines, insulation, monitoring instrumentation and lighting.



FURNACE and HEATING EQUIPMENT



AIR COOLING DEVICES

Main types of ACD in our company:

- Horizontal type ACD
- ACD of the block-modular type
- low - flow ACD
- ACD with recirculation systems
- ACD capacitors

ACD can be of various designs depending on their purpose, the specifics of the technological process for which they are used, the properties of the working medium, its speed and time spent in the apparatus, the operating pressure, as well as the requirements for the operating temperature and the possibility of its regulation.

At the request of the customer, the ACD can be additionally equipped:

- Blinds with different type of drive;
- Humidifier/air heater;
- A device that provides cleaning of both the outer and inner surfaces of heat exchange pipes;
- Automatic control system (ACS ACD);
- Foundation bolts;
- Service platforms, etc.

For the most effective development of the design of the heat exchanger in compliance with the requirements for its hydraulic resistance, as well as its material and construction, the specialists of our company carry out thermal calculations to obtain maximum efficiency.



WATER TREATMENT SYSTEMS

Creating industrial water treatment systems, "TECHNOTECS" Company works with the whole range of technologies and capacities: from small laboratory and household installations to large industrial systems. The company's unique developments are protected by numerous patents of the Russian Federation and CIS countries. The company offers Customers a full range of services - from survey and design to commissioning of equipment. A wide range of partners allows us to provide the Customer with effective technical support during the operation and maintenance of equipment.

STP (SEWAGE TREATMENT PLANTS)

- Sewage pumping stations
- Blower stations
- Mechanical cleaning
- Physical and chemical cleaning
- Biological purification
- Anaerobic purification
- Aeration systems
- Mixing systems
- Disinfection of wastewater
- Mechanical dewatering of sediment

WATER TREATMENT FACILITIES, WATER TREATMENT, WATER SUPPLY FACILITY

- Water supply facility
- Reagent treatment and settling
- Filtering
- Ultrafiltration
- Reverse osmosis
- Water softening
- Desalination
- Disinfection
- Ozonation
- Pumping stations of the 1st and 2nd lifting

OTHER WATER INFRASTRUCTURE FACILITIES

- Networks
 - Water supply
 - Household sewerage
 - Storm sewers
- Pumping stations
- Stormwater and industrial
- Sewage treatment plants
- Industrial waste disposal

IMPLEMENTED PROJECTS

Technotecs Company has experience in supplying EPC contracts and experience in supplying equipment for the arrangement of such large facilities as:

- The complex of production of gasoline and aromatic hydrocarbons Ilsky refinery
- Rosneft Oil pumping station for Verkhnechonskneftegaz JSC
- Water pumping station for JSC "NK "Kondaneft"
- LNG compressor plant Portovaya Complex
- Gas treatment plant for deethanization of the Urengoy CTPP
- Condensate stabilization unit of the Achimov deposits of the Nadym Purtaz region
- Booster compressor station of the Urengoy CTPP
- Novourengoy Gas Chemical Complex
- Vankorskoye field
- Samatlorskoye field
- Priobskoye field
- Arlanskoye field
- Kondinskoye field
- Chaprovskoye field
- Tazovskoye field
- Novoportovskoye field
- Priobskoye field
- Chatilkinskoye field
- Surgut Regional power station-1 PC "OTK-2"
- JSC "TPP in Sovetskaya Gavan"
- Sakhalin Regional power station-2, Yuzhno-Sakhalinsk
- Talakhovskaya hydro power plant, LLC "Kaliningradskaya generatsia"
- JSC SFORTUM Nyaganskaya branch of Regional power station
- LLC "LUKOIL-ENERGOSETI", Yarega
- Mayakovskaya hydro power plant LLC "Kaliningradskaya generatsia"
- Novocherkasskaya Regional power station PC "OTK-2"





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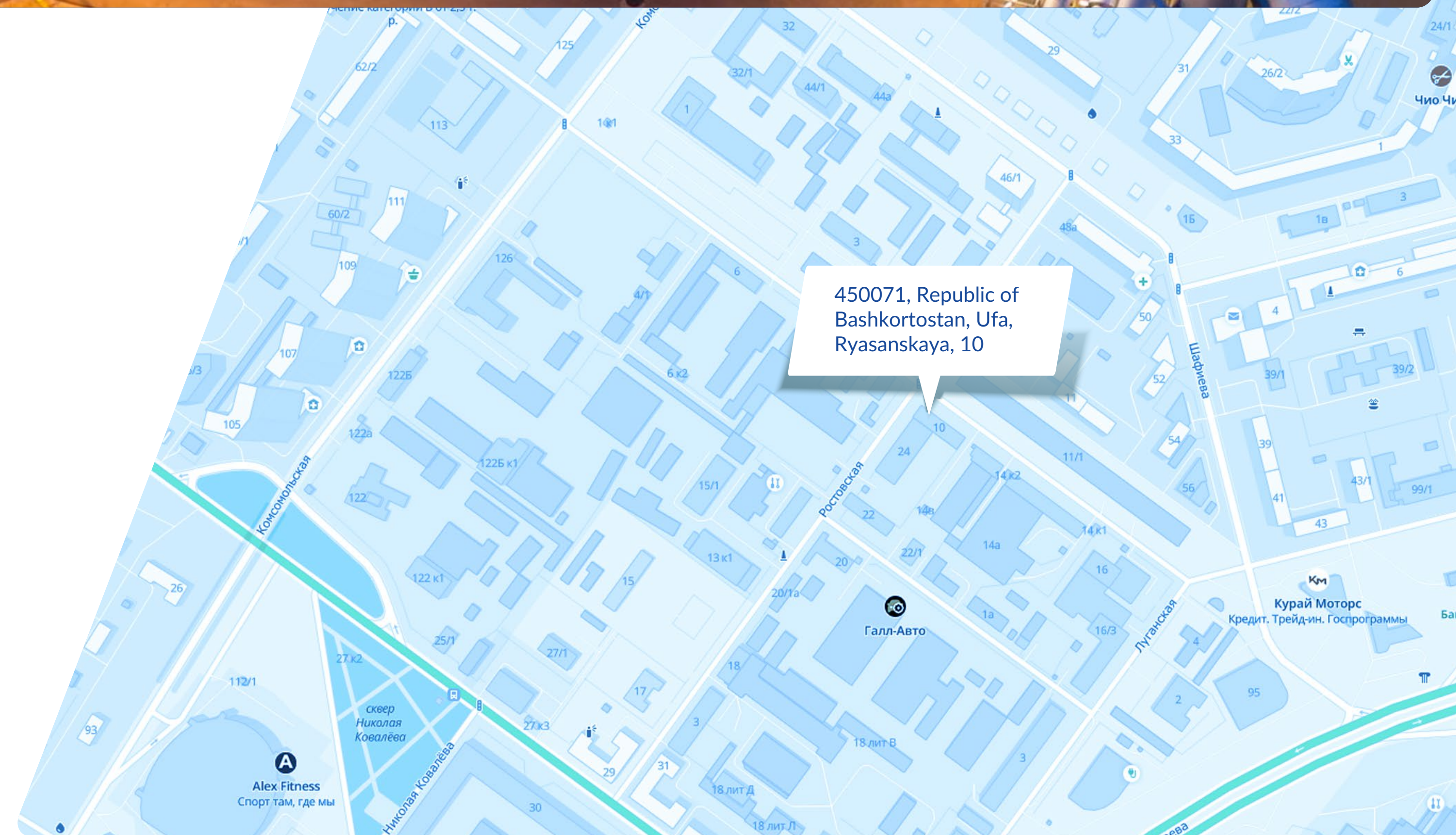
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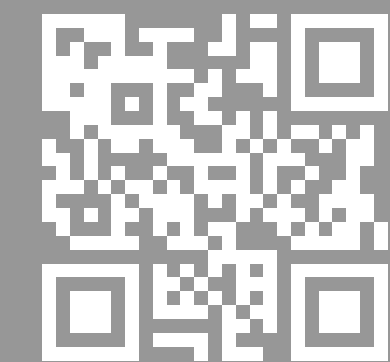


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