

# Russian Manufacturing Engineering Company



25 years

excellent work  
for your success

# Company today

TECHNOTECS offers comprehensive solutions in oil and gas production, treatment and refining industry, as well as for water conditioning and wastewater treatment systems at large industrial enterprises.



Modern level of business processes organization allows our company to timely and qualitatively implement projects of any scale and complexity

**>1000**  
completed projects

**25**  
years on the market

**3**  
engineering centers

**4**  
production sites

**>500**  
employees



# Integrated approach to project execution

TECHNOTECS offers to Clients comprehensive engineering services on the basis of effective approach providing single area of responsibility at all stages of project execution.



Extensive resource base, advanced project execution technologies, experience and qualification of specialists provide the Client with high efficiency, quality and loss reduction.

## Integrated approach to project execution

### Project Management

1. Project management: comprehensive management of project content, schedules, resources and costs
2. Risk analysis and risk management
3. Digital communications, digitalization of document control
4. Comprehensive project management information system

### Design and Engineering

1. Development of comprehensive process solutions
2. Design of process units
3. Availability of in-house library of process concepts in part of automation and power supply, a library of standards, regulations and technical instructions for development of DDD, application software
4. Adaptation of solutions in order to comply with safety, legislation and design standards
5. 3D design and building of integrated digital information models
6. Development of Project Documentation, Detail Design Documentation (Technical Requirements, Technical Specifications, PD, DDD, Vendor documentation)

### Production

1. Development of Vendor documentation
2. Process equipment manufacturing
3. Factory testing of systems at own production site
4. Control and audit at all production stages
5. Own accredited and certified quality control laboratory

### Equipment and delivery

1. Technical audits and prequalification of Vendors
2. Technical audits and prequalification of Vendors
3. Organization of equipment acceptance
4. Digital passportization of equipment
5. Digital specifications for equipment and materials
6. Database of market prices (analytical libraries)
7. Organization and management of warehouse facilities
8. Organization and provision of incoming inspection of equipment at the facility

### Installation Supervision / Commissioning

1. Installation supervision activities
  2. Author supervision
  3. Full scope of commissioning of process and auxiliary equipment
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1. Training of operational personnel
  2. Briefing and training of practical skills of operational personnel in safe conduct, start-up and scheduled shutdown of the technology process, prevention of accidents and elimination of their consequences
  3. Technical support and maintenance of the supplied equipment

# Our production

Full cycle of equipment production

**23 500** m<sup>2</sup>

of production areas complying with all requirements

**>150** equipment units

ensuring the production process

Systems, equipment and complexes manufactured by TECHNOTECS meet industry standards and are characterized by high reliability and efficiency.

Available production capacities allow to manufacture vessel equipment with diameter up to **3600** mm, weight up to **50** tons, operating pressure up to **10** MPa.

**20** tons

maximum lifting capacity of overhead cranes

**8,5** m

Height of span to the hook of lifting mechanisms in the main workshops



Personnel, technologies and equipment certified according to National Attestation Committee on Welding Practice



# Our production

## Production areas

ensure full cycle of products manufacturing



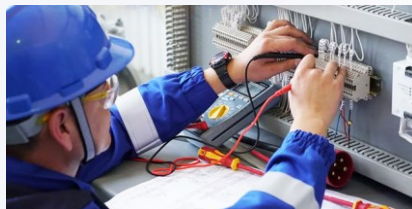
### Preparatory area

cutting of workpieces on plasma cutting machines, guillotine scissors and band saws, bending of workpieces on sheet bending and rolling machines; machining on lathes, milling and drilling machines



### Assembly and welding area

Assembly and welding of units and bodies; manual electric arc welding with special electrodes, manual argon-arc and mechanized welding in shielding gases (argon-oxygen mixture and pure argon), automatic welding with specialized shielding fluxes are used in welding production



### Electrical installation and cabinet assembly areas

Assembly of electrical control cabinets, production of electric wiring harnesses, testing and supervision of electrical installation works



### Comprehensive testing area

hydraulic and pneumatic strength and tightness testing of equipment, vessels, piping, control and shut-off valves



### Corrosion protection application area

Cleaning of products in the pass-through manned tunnel blasting machines and painting in the paint drying chamber



### Packing and labeling area

Products are shipped both in maximum level of prefabrication and in block modules with subsequent assembly at Client's site with installation supervision and commissioning

# Products



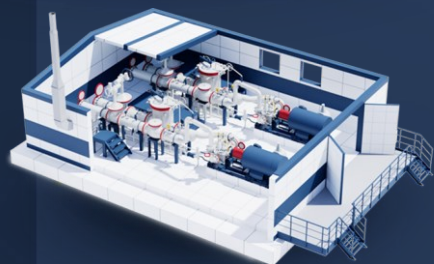
## Oil Treatment Units

- Установки подготовки нефти стационарные
- Мобильные установки подготовки нефти
- Установка предварительного сброса воды
- Концевой делитель фаз трубный



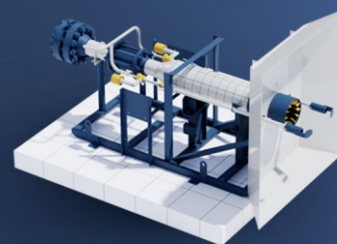
## Gas Treatment Units

- Associated Petroleum Gas / Natural Gas Treatment Units
- Mobile Gas Treatment Units
- Fuel and Impulse Gas Treatment Units
- Gas Condensate Stabilization Unit



## Pump stations

- Water Pump Stations
- Oil Pump Stations
- Modular Cluster Pump Stations
- Fire-Fighting Pump Stations



## Flare Units

- Open Flare Systems
- Closed Flare Systems
- Working Fluid Heating Unit
- Horizontal Flare Systems



## Furnaces and heating equipment

- Process Furnaces
- Heaters



## Metering systems

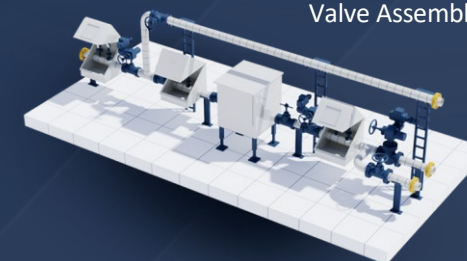
- System of measurement of quantity and quality indicators of oil and petroleum products
- NGL metering station
- Gas quantity measurement system
- Water quantity measurement system



## PSA Units

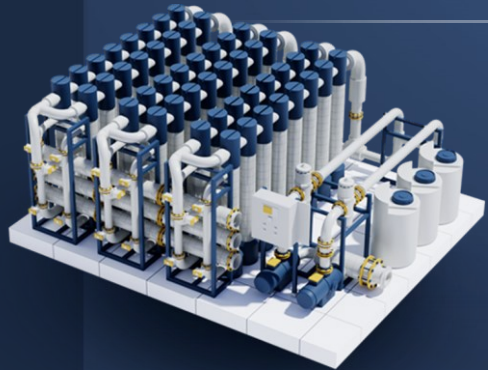


## Air Cooling Units



## Valve Assemblies

## Решения



### Comprehensive water conditioning solutions:

- Ultrafiltration
- Reverse osmosis
- Electrodeionization
- Vertical clarifying filters
- Mixed-bed filters
- Pump stations
- Dosing units
- Washing stations

and other equipment upon request



### Comprehensive waste water treatment solutions:

- Block-modular packages: storm water treatment, industrial water treatment, domestic water treatment
- Flotation
- MBR
- Aeration
- Clarifiers
- Evaporators
- Membrane filter elements for reverse osmosis and ultrafiltration units

### Comprehensive sewage sludge treatment solutions:

- Mechanical dewatering (centrifuges, filter-press)
- Sewage sludge drying units (biological sludge, oil sludge)
- Dry residue incineration units



TECHNOTECS has certificate of conformity to ISO 9001 requirements and guarantees manufacturing of quality products



# Environmental Engineering

TECHNOTECS offers comprehensive execution of projects in construction, revamping and modernization of wastewater treatment and water conditioning systems



We help to meet the challenges of reducing harmful impacts on the environment and human health

We are committed to the principles of energy efficiency and we strive to execute projects with reuse of water assets of production facilities by using innovative treatment technologies

Our engineers offer tailored solutions and technologies taking into account parameters of pollutants, scale and economics of the project

## Our goal

To make water conditioning and wastewater treatment as efficient as possible in all economic and operational parameters by means of applying comprehensive measures on project execution strictly within the approved time frame.

By virtue of company's technical equipment and well-established business process, we can offer you the best possible solution, help you choose specific process technologies, select equipment, coordinate connection and layout of the entire water treatment complex.



# Our experience

Over the years, TECHNOTECS has implemented over **1000** projects of different complexity for Russian and foreign Clients.



**Potable water treatment unit**

Temporary buildings and structures of Priobskoye and Yuzhnoe fields

**Client**  
Gazpromneft-Zapolyarye



**Shut-off valve assemblies**

Development of 3rd Achimovskiy section of Urengoyevskoye field. Gas condensate well cluster

**Client**  
Gazpromneft-Zapolyarye



**Combined flare unit with forced air supply**

Development of the Pestovoye field. Central collection point

**Client**  
Gazpromneft-Zapolyarye



**Gas Treatment Unit**

Development of the Zapadno-Tarkasalinskoye field. Gas treatment facilities

**Client**  
Gazpromneft-Zapolyarye



**Heater with intermediate heat transfer agent**

Tazovskiy crude oil delivery and acceptance point

**Client**  
Gazpromneft-Zapolyarye

# Our experience



Heat transfer agent heating furnace

Gas and condensate compression & treatment complex

**Client**  
Gazpromneft-Yamal



Flare and ignition system

Reconstruction of Oil Treatment Unit at Chayadinskoye oil and gas condensate field

**Client**  
Gazpromneft-Zapolyarye



Modular tube furnace

Expansion of separation section at Zapadno-Zimnye license area

**Client**  
Gazpromneft-Khantos



Furnace

Booster pump station-2 at Southern part of Priobskoye field

**Client**  
Gazpromneft-Khantos



Block-modular water treatment complex

Administrative and residential complex 4 at Southern part of Priobskoye field. Water treatment station

**Client**  
Gazpromneft-Khantos



Separator

Evaporator vessel

**Client**  
Khimtehnologiya

# Our experience



**Mechanical oil sludge dewatering unit**

Motor gasoline and aromatic carbohydrates production complex. Off-site facilities

**Client**  
Il'sky Refinery



**Узел учета воды**

Expansion of separation section at Zapadno-Zimnye license area

**Client**  
Gazpromneft-Khantost



**Modular water pump station**

Development of Zapadno-Messoyakhskoye and Vostochno Messoyakhskoye fields. Construction of Free Water Knockout (FWKO) Unit at Vostochno-Messoyakhskoye field.

**Client**  
Messoyakhaneftegaz



**Furnace**

Booster pump station-2 at Southern part of Priobskoye field

**Client**  
Messoyakhaneftegaz



**Oil quantity measurement system**

Reconstruction of Oil Treatment Unit at Chayadinskoye oil and gas condensate field. Oil Treatment Unit

**Client**  
Messoyakhaneftegaz

# Prioritized quality

TECHNOTECS has all the licenses and certificates necessary for the execution of complex turnkey projects from engineering and manufacturing to warranty and post-warranty service



- Integrated Management System GOST R ISO 9001-2015 (ISO 9001:2015), GOST R ISO 14001-2016 (ISO 14001:2015), GOST R ISO 45001-2020 (ISO 45001:2018)
- INTERGASSET certificates for the following equipment types: pump stations, flare units, furnaces and heating equipment
- License for the right to design and manufacture equipment for nuclear facilities
- Assessment of compliance of production sites and manufactured equipment with INTI standards
- Quality Management System STO Gazprom 9001-2018
- 4th level SRO for engineering (300 million RUB and more)
- 4th level SRO for construction (price of works up to 10 billion RUB)
- 2nd level SRO for engineering surveys (price of works up to 50 million RUB)

## Our awards

“Russian National Olympus”

“Excellent results in the works on development of petrochemical industry”

“Top 10 IT projects for oil and gas industry”

Laureate of All-Russian competition





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