



Scientific and Manufacturing
Enterprise

TOMSK ELECTRONIC COMPANY

- Design
- Production
- Complete Delivery
- Automation
- Commissioning
- Service Maintenance

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Dear colleagues!

Scientific and Manufacturing Enterprise «Tomsk Electronic Company» is a modern engineering company offering innovative solutions and products for enterprises in the oil and gas, petrochemical and metallurgical industries.

The modern production base and high qualification of the company's employees provide solutions to complex technological problems at the level of international standards. The company's quality management system is certified according to the international standard ISO 9001: 2015. SME «TEC» is a member of the Union of manufacturers of oil and gas equipment. A wide range of our products allows constantly expand sales markets and find new customers.

Our company:

- performs the production and complete supply of electrical equipment, electric drive control units in «panel» version and electric drives of the RemTEC series in the «field» explosion-proof version for the whole range of pipe fittings;
- offers design, construction, equipment supply, implementation of technological systems and robotic complexes for newly created and reconstructed objects;
- implements complex solutions for the automation of production and technological processes with the implementation of design work, equipment supply and commissioning of the facility on a turn-key basis;
- performs the development, production and implementation of technological systems for measuring, monitoring, regulation and control based on MicroTEC measuring and computing systems, gas detectors of the GSM series, gas analyzers of the IDK series and other devices manufactured by SME «TEC»;
- manufactures and implements weight metering and weight measuring systems;
- performs out R&D works with subsequent serial production of units.

A handwritten signature in blue ink, appearing to read "А.Н.Шестаков".

Shestakov Andrey Nikolaevich
General Director of SME «TEC», Ltd

Content

About company.....	3
Mass production.....	4
Set of technological equipment.....	6
Engineering.....	8
Metallurgy.....	9
Complete integrated automation.....	10
Object Design.....	11

SME «Tomsk Electronic Company» offers

for oil and gas, oil refining, petrochemical industries,
metallurgy and energy

Mass production

Set of technological equipment

Engineering

Series Products and Solutions
for metallurgical industries

Complete integrated automation

Object Design



Scientific and Manufacturing Enterprise «Tomsk Electronic Company» was established in 1999 at the scientific and production base of the Tomsk branch of the Moscow Scientific Research Institute «Engineering Technologies».

SME «Tomsk Electronic Company» has a full range of technologies for electronic, electrical, engineering production, an efficient organization of work that provides mobility and flexibility in solving innovative customer projects on time.

SME «TEC» has a Quality Management System that meets the requirements of the international standard ISO 9001: 2015. The company has a SPO certificates on admission to all types of design and construction works for the development of oil and gas fields, external transport of oil and gas, oil and gas processing facilities, petrochemicals, metallurgy.

The company employs more than 800 people (65% of them are specialists with higher education, 57% are engineers and technicians). SME «TEC» has representative offices in Nizhny Tagil, Ust-Kamenogorsk (Republic of Kazakhstan). Technical centers were opened in Irkutsk and Surgut. The production area of the company is 15,000 square meters.

MASS PRODUCTION

Scientific and Manufacturing Enterprise «Tomsk Electronic Company», Ltd is one of the largest engineering enterprises of the Siberian region.

The status of a serial manufacturer and supplier of equipment allows us to comply with a flexible pricing policy and minimize delivery of high-quality products.

The presence of full-profile electronic and industrial production provides a complete work cycle of a machine-building enterprise.

Products correspond to all modern consumer requirements and is a wide range equipment:

- **explosion-protection electric drives of RemTEC series**
- **measuring and computing MicroTEC complexes**
- **gas control devices – gas detectors GSM series**
- **gas analyzers of IDK series**

Maintenance of the supplied products, commissioning, service, guarantee and post guarantee maintenance increase efficiency of interaction with consumers.





Explosion-protection electric drives of RemTEC series

Designed to control stop valve, shut-off and control valves, control pipe fitting DU from 25 to 1200 mm in hazardous areas of classes 1 and 2 according to GOST R 51330.9-99, abnormal operating conditions with extended temperature range of environment (from -63 to +50 °C).

Electric drives are used to control taper-seat valve, sliding shutter, ball-gage cock, gate turn valve, valves, cutoff devices and others.



Measuring and computing MicroTEC complexes

Measuring and computing complexes MicroTEC are used in oil, gas and chemical industries may apply at enterprises where liquids, gases or energy metering tasks exist.

Function

- accounting for crude and commercial oil;
- commercial and technological accounting of the natural gas;
- free petroleum gas metering;
- accounting of produced water;
- economic accounting of material and grocery flows (heat, gas, water, electricity, etc.)



Gas control devices GSM series

Gas control devices of GSM series are designed for continuous control of pre-explosive centers of combustible gases, vapors of the highly inflammable liquid and its mixtures of category IIA, IIB, IIC groups T1, T2, T3, T4 in hazardous areas premises of all classes, outdoor installations and open spaces by thermochemical methods controlled temperature range environments from -60 to +50 °C.

Gas control devices are used at oil and gas facilities industry, including trunk oil pipelines, as well as in chemical, petrochemical and chemical, oil refining and other industries.



Gas analyzers of IDK series

Gas analyzers of IDK series are intended for continuous control of the concentration of wide spectrum of gases. Gas analyzers can be used on oil and gas sites, chemical industry, on enterprises of the fuel and energy complex, oil refinery, thermal power station, boiler rooms.

SET OF TECHNOLOGICAL EQUIPMENT

SME «Tomsk Electronic Company» realizes a full range of design work, manufacture, delivery, construction, installation and commissioning works, measurement assurance, guarantee and post-guarantee maintenance of complex systems measuring the amount of crude and tank oil, natural and associated petroleum gas, water, as well as material flows and energy resources.

SME «TEC» can make complete technological equipment in accordance with customer requirements, including:

- **Measuring system Quantity Measurement Systems and tank oil quality indicators (SIKN)**
- **Quantity Measurement Systems and crude oil parameters (SIKNS)**
- **Petroleum product metering units**
- **Gas metering units (UUG)**
- **System for measuring of quantity and parameters of free (associated) petroleum gas (SIKG)**
- **Liquefied gas metering units and gas condensates**
- **Units for accounting of produced water (UUW)**
- **Material flow metering units**
- **Movable Testing Units (PPU)**
- **Pumping stations**
- **Treating equipment and gas distribution**
- **Maintenance Equipment reservoir pressure**
- **Administration buildings for electrical purposes**





Measurement Systems are designed for automated quantity accounting crude, marketable oil or petroleum products indirect bulk or direct mass dynamic method according recommendations No. 69 of March 31, 2005, GOST R 8.595, MI 2825, GOST R 8.615, MI 2693.



Pumping stations are designed for pumping oil, oil products, natural associated petroleum gas liquefied gas, gas condensate, water, chemical reagents and automated support set pressure at the outlet.



Oil quality measurement units designed for automatic definitions of physico-chemical indicators of oil quality according to GOST R 51858-2002, automatic and manual selection of oil samples for subsequent oil quality analysis.



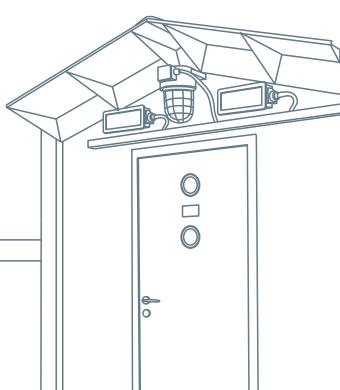
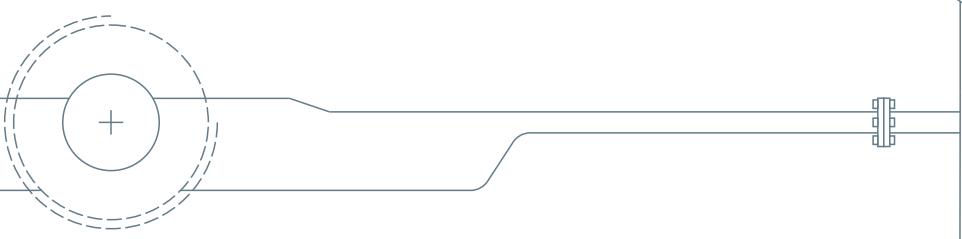
Blocks of preparation, reduction and gas distributions units are designed for the preparation of fuel gas for gas piston and gas turbine drives of compressor stations, power plants and other consumers.



Gas metering units are designed to determine the quantity, quality parameters, automated metering of natural and associated petroleum gas.



Water metering units are designed for automated metering commodity of production (formation) water.



ENGINEERING

For more than 15 years, «Tomsk Electronic Company» has been successfully developing the direction of integrated engineering for the metallurgical industry around the world. Nowadays, the development of technology is taking rapid steps forward. A feature of the correct selection and application of certain technologies for various industries is a distinctive feature of complex engineering.

Turning to the «Tomsk Electronic Company», Customers are confident that their plans for development and quality improvement will be achieved.

SME «TEC» has its own design and technological departments that have many years of experience working with projects of various levels of complexity. This allows us to successfully develop and implement our own technologies: our company has patented a number of technologies for the metallurgical industry and technical solutions.

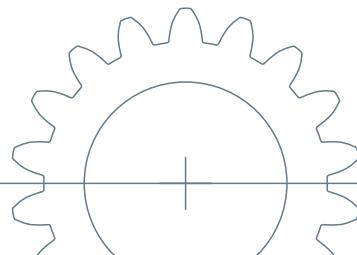
SME «TEC» has extensive experience in modernizing existing production without stopping the main production.

«Tomsk Electronic Company» has valuable partnership experience with many Russian and international companies, and also has its own engineering staff of more than 300 employees. We offer a wide range of services from design to commissioning, including the manufacture and equipment supply, construction and installation works of varying complexity objects.

Our company is constantly developing the direction of integrated engineering.

Specialists of SME «TEC» are always ready to answer your questions, visit the production site for research, collect initial data and provide a combination of optimal solutions to the task.

We are looking forward to working with you!



METALLURGY



«Tomsk Electronic Company»
works in various redistributions:

- sinter production;
- domain production;
- steelmaking;
- rolling production;
- commodity production.



Mass production of equipment
for metallurgical industries:

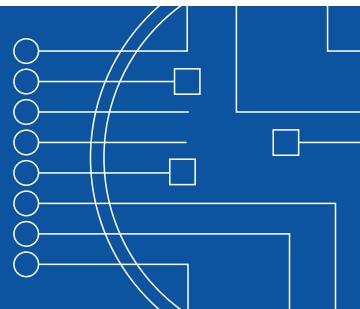
- batchers;
- feeders;
- dispenser control systems;
- design-component conveyor equipment;
- heat treatment of rolling grade;
- robotic technological complexes.



SME «TEC» also performs projects of varying complexity in automation technological processes.



COMPLETE INTEGRATED AUTOMATION



The target of this area is the implementation of the whole complex of interconnected automation work from concept development to implementation, including:

- design;
- manufacture and supply;
- installation and commissioning;
- guarantee and service maintenance.

Design and development topics of automation system provide the full range of design work or its individual stages:

- inspection of the automation object, formation of the source data;
- development of an automation concept, formation of technical requirements;
- development of working materials for the choice of a supplier of basic automation tools;
- development of technical specifications for the creation of automation systems;
- development of a technical design and working documentation in parts of OR, OO, TO, IO, MO, PO;
- development of budget documentation;
- support of examinations of design and estimate documentation;
- supervision of compliance with design decisions.

SME «TEC» offers various construction structures control systems depending on the task complexity. It can be either single level systems for direct digital control of technological equipment and also automated process control system and emergency protection systems with a complex distributed structure, using for local networks and remote access tools for interaction between subscribers , as well as operational and archive databases servers, such as OPC and SQL servers.

SME «TEC» cooperates with world leading Manufacturing Companies: Emerson Process Management, Yokogawa, Schneider Electric, Siemens, Rockwell Automation and others.

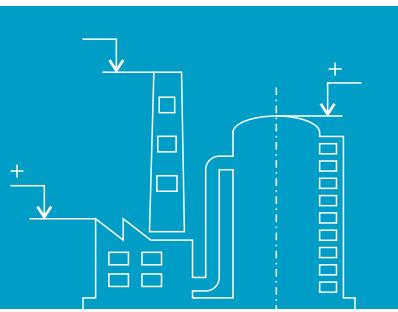
Many years of experience and high qualifications of SME «TEC» staff allows creating a high-performance integrated automation MES and ERP level system.

Our customers are NK «Rosneft», «Gazprom», «TNK-VR», «SIBUR Holding» and others.



ERP
MES

OBJECT DESIGN



SME «Tomsk Electronic Company» designs facilities related to oil, gas and gas production, transportation, gas facilities, energy, oil refining, machine building and metallurgy, and also has SRO certificates for access to all types of design and construction and installation works on arrangement of oil and gas fields and oil and gas refining facilities, petrochemicals.

SME «Tomsk Electronic Company» is:

- an individual approach to the needs of the customer;
- support of the developed design and estimate documentation during the passage of approvals and examinations of the Russian Federation;
- constant communication with the customer and assistance in making (choosing) a decision;
- adaptation of design solutions developed by foreign companies to the requirements of the standards of the Russian Federation.

The design institute, which is a part of the SME «TEC» works in the following areas:

- arrangement of oil and gas fields in the pipeline system of oil and gas transportation;
- associated petroleum gas (APG) utilization;
- energy facilities;
- automation of technological processes of oil and gas production and petrochemical industries;
- automated systems of dispatch control and telemetry;
- oil, gas and water metering systems for oil and gas production and refining industries;
- robotic complexes and technological lines;
- oil and gas processing facilities.





SME «TEC», Ltd.
33, Vysotskogo St.,
Tomsk, 634040, Russia

Reception
phone: +7 3822 633 963
fax: +7 3822 633 837
npp@mail.npptec.ru

Sales Department
phone: +7 3822 999 011
+7 3822 999 036
+7 3822 633 958
fax: +7 3822 634 175
marketing@mail.npptec.ru
www.npptec.ru

Service Department
33, Vysotskogo St., Tomsk
hotline: 8-800-550-4176
galiveev@mail.npptec.ru
hotline@mail.npptec.ru

Technical Centers
2a/4, Rabochaya St., Irkutsk
(BC «Premiere»), office 430
phone: 8-923-440-6360

42, Mira Avenue, Surgut, Khanty-Mansi
Autonomous Okrug-Ugra
(BC «Office Palase»), office 205
phone: 8-923-440-64-70

**Subsidiary Company
in the Republic of Kazakhstan
«SMETEC», LP**
62, Voroshilova St., Ust-Kamenogorsk,
070002, The Republic of Kazakhstan

phone/fax: (7232) 75-38-31
smetec@mail.npptec.ru
www.smetec.kz