

# Field Multifunction System for Welding Pipe Assemblies and Custom Equipment



PROMSTROI GROUP



The System was developed by Spetsializirovannoye Upravleniye №6 Neftegazmontazh CJSC, which is a subsidiary of PROMSTROI GROUP CJSC.

## In 2009 SU-6 Neftegazmontazh celebrates its 45th anniversary since its establishment in Stavropol

SU-6 is the oldest mounting company in the South Federal District of the Russian Federation. The Company's main activities include installation of oil and gas refineries, construction of major pipelines and tanks, installation of equipment and pipelines, pumping and compressor stations, manifolds, underground storage facilities, oil and gas field facilities, gas supply to urban areas, manufacture of non-standard equipment, pipe spools and metal structures.



The general appearance of the installation

Over the last seven years the company has carried out building and construction works for such projects of oil and gas complex as pump stations of the Caspian Pipeline Consortium (CPC), including Astrakhan, Komsomolsk and Kropotkin pump stations; oil pumping station "Nevskaya"; reconstruction of Vertical Stock Tank (VST-20000m<sup>3</sup>), compressor stations (CS), including Salsk, Volgograd, Olkhov, Kotelnikovo, Zhirnovsk and Novo-Petrovskaya CS for Pochinki-Izobilny pipeline, Stavropol CS for Blue Stream pipeline, Smolensk, Kholm- Zhirnovsk, Volokolamsk CS for Tula-Torzhok pipeline, Zamyany CS for Makat-North Caucasus pipeline in the Astrakhan region; Babayevskaya CS for Gryazovets-Leningrad pipeline,

Novogryazovetskaya major pipeline for Northland of the Tyumen Region-Torzhok CS, Algay Gas Processing Facility; reconstruction of the linear part of North Caucasus-Center Ø1220 pipeline of the total length of 21 km, reconstruction of the linear part of the Petrovsk-Novopskov major pipeline with scraper stations Ø1220; capital repairs of major gas pipeline "Stavropol – Grozny"; extension of Yuzhno-Balykiski Gas Processing Complex ; Ice-resistant stationary platform, Astrakhan.



Welding head with control panels  
(automatic welding operator's work station)

The company has experience in the construction of unique projects in oil industry

In order to illustrate this, there are several examples: steel tank with the floating roof with the capacity of 50000 m<sup>3</sup> in Novorossiysk or the first stage of oil loading terminal of the Baltic Pipeline System in Primorsk in the Leningrad Region. Construction of the second stage of oil loading terminal (tank with the capacity of 50000 m<sup>3</sup> and industrial pipelines) and construction of the third stage of oil loading terminal with tank with the capacity of 50000 m<sup>3</sup> and pump station, industrial pipeline system and oil metering station. Two oil loading terminals were built on the territory of Primorsk Specialized Oil-Loading Seaport. Tanks with the capacity of 50000 m<sup>3</sup> for Kaleikino oil pump station and 10000 m<sup>3</sup> for oil pump station in Almetyevsk were built in the Republic of Tatarstan.

The linear parts of Transneft pipelines on the territory of the Chuvash Republic (Ø820 mm, total length is 20 km) and on the territory of the Volgograd Region (Ø530 mm, total length is 59 km) were replaced.

Today the Company performs works for the following projects:

First phase of Western Siberia – Pacific Ocean oil pipeline system. SpetsMorNeftePort Kozmino: Onshore facilities area. Offshore facilities. Communications corridor;

Skovorodino – China’s border pipeline: Crude oil delivery and acceptance point. Oil pumping station.

The company’s assets include more than 135 large facilities of the oil and gas complex many of which were constructed together with the firms from Germany, Italy, Czech Republic, the USA, England, Japan, Canada and France.

The Company’s staff numbers 500 highly qualified experts (including 70 welders) certified by the National Agency for Control and Welding and ISO-9000. Cutting-edge methods of flux core welding and gas shielded welding are applied at the facilities and production units.

All technologies used by the company are certified by the National Agency for Control and



Welding. The company purchased and developed isolation equipment using modern polymer materials in the field and also Biurs and Frusis mastic compounds.



The Company has its own production and maintenance facilities with a workshop to manufacture spools and steelworks. A creative team elaborated, manufactured and implemented in production a non-commercial package of tools and devices to manufacture spools of large diameter for compressor and pumping stations ( $\text{Ø}200\text{-}1400$  mm). This helped to realize 60% of assembly and welding works at industrial pipelines using machine welding and to boost production, quality and industrial standards. There were elaborated and implemented packages of tools and devices to manufacture spools directly at the site. It was done for far areas where it is irrational to carry materials from the site in order to manufacture spools.

SU-6 has modern laboratories, including nondestructive inspection (NDI), construction and testing laboratories. These laboratories monitor quality assurance for accomplished work and manufactured materials. Quality management system certified according to GOST ISO 9001-2001 operates within the company.



# OUTPUTS OF THE INSTALLATION REPRESENTATIVE JOINTS

Branch – reducing bend – pipe (exit branch)



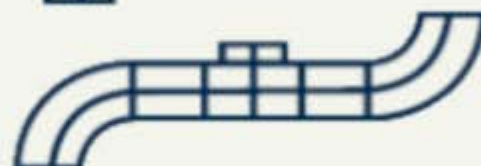
Branch – pipe-branch



Branch-spool-переход



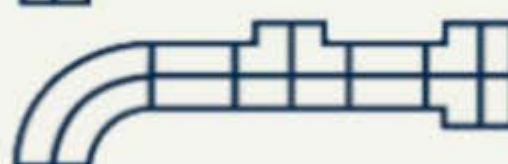
Branch-spool-T-joint – spool-branch



Branch-spool-T-joint – spool-reducing bend-spool



Branch-spool-T-joint – spool- T-joint



**Reducing bend-spool- T-joint- spool-reducing bend**



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