

Jerel Developed Truck Mounted Electric-driven Screw Compressor Package

Yantai/ January 30, the first truck mounted electric-driven screw compressor package was officially sent to Russia.



Figure 1: Jerel Truck Mounted Electric-driven Screw Compressor Package on Their way to Russia

Provided by Jerel, the equipment can boost wellhead associated gas and transfer the gas to reciprocating compressors in the back end, after which the associated gas will be re-injected to the underground.

In this way, the newly-developed equipment is able to benefit the environment by realizing sustainable utilization of energy as well as the preservation of natural gas resources.

Russia is a country abundant with oil & gas resources, whose crude oil and natural gas production rank number 1 in the world. Usually, plentiful wellhead associated gas is produced during oil exploration, which is actually a precious energy resource. In the past, they were burnt away directly, resulting in energy waste and also air pollution.

In 2013, Russia enacted law and regulation regarding the burning and emission of associated gas and decided to impose fines when recovery rate is below 95%. After the policy came out, market demand for medium to small compressor packages increased greatly.

This time, Jerel's compressor packages are on their way to East Siberia where is extremely cold with an average temperature at -45°C to -60°C .



Leveraging years of experience, Jerel managed to make customized design based on low-temperature working environment, composition of heavy hydrocarbon gases and variation range of air flow.

The equipment is also armed with a protecting shield which integrates ventilating, heating, fire control, hoisting and lighting function.

All of the supporting parts are made from high-strength and low-temperature resistant materials. Vibration of main motor and compressors is highly controlled by optimized piping layout and structure, lower than 1.2mm/s and 3.5mm/s respectively.

Pre-embedded extinguishing media storage, frequency converter and cooling equipment will reduce on-site installation to a minimal extent. Meanwhile, fire control system was specially designed to meet Russian CU-TR standard.

The fact that the equipment was truck mounted is highly convenient. The design allows client to drive it to other well sites for follow-up operation, achieving the max ROI in a short term.