Gas-Powered Railroad Switch Heating System

Maintaining railroad switches clear of ice and snow is one of the most important tasks for operating trains without delays in the winter season. Automatic rail heating system is an efficient and safe way to solve this problem as it provides fast response to changing weather conditions and reduces the need for personnel to work in dangerous conditions on train tracks. Mashinostroitel Group is one of the technological leaders in the field of rail heating offering a range of rail heating solutions running on electricity or natural gas.

Main advantages of using a gas-powered system are low operational costs and shorter heating times. Since it is much cheaper to use gas for heating than electricity, gas-powered heating systems have considerably lower operational costs than electrical ones. Gas-powered systems can also better respond to changing weather conditions, heating rail faster and reducing the risk of train delays.

Gas-powered railroad switch heating system installed near Saratov, Russia.

Gas-powered railroad switch heating system.

Available remote control & monitoring system allows to adjust the heating settings and receive technical reports in a centralized control center.

Mashinostroitel Group's railroad switch heating systems are also equipped with a smart heating control system that provides a proactive response to the changing weather conditions based on the data from on-board weather station and live weather forecast updates over the Internet.

Technical Specifications

Target temperature range	10°C – 50°C
Gas consumption	0.2 m3/h
Time required to heat the rail from 0°C to 20 °C	10 minutes
Time required to heat the rail from -7°C to 50 °C	40 minutes