

Electromechanical Turbine Control System



The electromechanical turbine control system enables innovative, reliable and precise control of classic steam turbines.

Howden has developed an electromechanically operated Turbine Control System as an advanced solution to increasing customer requirements – in a modern configuration with oil-free, non-hydraulic control valves.

Howden engineers have transferred technical expertise from different industries with all proven benefits for the turbine control.

The oil-free, electromechanical control offers many advantages

Improved turbine efficiency by eliminating the high-pressure pump.

Improved controllability by eliminating hydraulic damping.

Improved operational safety by eliminating the high-pressure oil system.

Optimised integration in customer process control systems.

Optimised part load efficiency with targeted control of valve groups.

Get in touch!

Please contact us with any questions about oil-free control system applications: We will be happy to advise you regarding implementation and backfitting of Howden Turbine series BASE, CORE, MONO, TWIN and TRI.





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Howden Steam Turbine MONO equipped with modern electromechanical turbine control system.

The advantages of the electromechanical turbine control system

Improved control accuracy

The electromechanical turbine control system enables innovative, reliable and precise control of classic steam turbines. The control quality achieved exceeds the accuracy of hydraulic systems. In particular, the control groups can be specifically and individually controlled. This in turn enables optimisation of steam consumption and increased power generation.

The electromechanically operated control supports you in improving the controllability and in increasing the overall performance.

Increased shaft power

Eliminating hydraulic valve actuation with high-pressure oil used up to now enables the oil supply system to be dimensioned smaller. The power previously used to provide high-pressure oil is now available as usable power for the generator.

Improved operating safety

The use of electrical servo actuators reduces the quantities of oil required for operation in the vicinity of hot machine parts. The previously required oil-filled piping systems can be eliminated. This significantly improves long-term operating safety of the steam turbine, as is reflected in internal risk assessments.

The operational safety is increased with the electromechanical turbine control system.

