

Siemens steam turbines catalogue

As a market leader for industrial steam turbines, we offer a comprehensive range of reliable and versatile steam turbines for the power output range from 2 to 250 MW. Our industrial steam turbines are designed for easy constructability, fast start-up and economical operation. The inlet steam pressure is 103 to 160 bar(a) and the inlet steam temperature is 400 to 565 °C.

The highly customized turbine provides for an outstanding efficiency, fast start-up times and high reliability and availability. It supports all requirements for economical installation and operation in combination with highest flexibility for complex industrial processes. A double or even multicasing solution can also be provided.

The SST-800 steam turbine can be used for both condensing and back-pressure applications. Turbine auxiliary systems are also designed as pre-engineered modules covering the complete range of turbine sizes.

The turbine can be arranged on a foundation or as a package (including oil system and on a base frame). The SST-800 steam turbine design is in accordance with DIN or API standards.

The SST-700 / 900 is a standard turbine solution with short delivery time due to its fixed pre-engineered design. Predefined modules enable a short manufacturing period, cost-efficient material supply and a fast ex-works delivery.

The straight flow turbine solution with power output of up to 250 MW consists of a geared high-pressure steam turbine (backpressure), an intermediate / low-pressure steam turbine (condensing), both driving a generator installed in between.

The dual casing reheat turbine configuration with inner casing is a competitive and optimized product for combined cycle power plants and concentrated solar power plants.

We deliver a standard steam turbine generator set including the SST-600 (with or without gearbox), a generator, oil system, piping and instrumentation and the control system. The standard package can be extended to include a condenser, condensing plant or pre-heating system. The SST-600 with its reliable and flexible design is available with axial or radial exhaust.

The SST-600 is also an efficient and economic mechanical drive. Since the 1970s, hundreds of projects have been successfully implemented all over the world using the SST-600 to directly drive everything from the smallest boiler feedwater pump just as reliably as the largest compressor even in the most complex processes. The SST-600 complies with regulations including the API standard.

The SST-500 is a single casing, double exhaust flow steam turbine, which can be used as an entire drive or as the lowpressure module of a multiple-casing turboset, directly driven or geared. This turbine, with its capacity to operate over a wide range of speed and power, is ideal for large steam volume flows. Steam flows into the turbine via two tangential inlets to equalize thermal loading and blade stress.

Emergency stop valves and control valves are installed in the steam inlet pipes. The steam flows tangentially into the inner casing and then axially to both exhausts. The customized design of the steam path allows exact adjustment to surpass general physical limitations of the last stage blades. Double-end drive is available, if required, e.g. for booster pump drive

The SST-400 is a single casing steam turbine, providing geared or direct drive to 50 and 60 Hz generators, or to compressors and pumps. The symmetrical casing with horizontal joint flange enables the SST-400 to accept short start-up times and rapid load changes.

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