Industrial steam turbines
The comprehensive Siemens product range from 2 to 250 megawatts

SST-100
up to 8.5 MW
The SST-100 is a single-casing turbine, geared for generator drive; pre-engineered including blading as a cost-effective solution. Mainly used for industrial applications.

Technical data
• Power output up to 8.5 MW
• Inlet pressure up to 65 bar / 945 psi
• Inlet temperature up to 480°C / 895°F
• Rotational speed up to 7,500 rpm
• Exhaust pressure (back pressure) up to 10 bar / 145 psi
• Exhaust pressure (condensing) up to 1 bar / 14.5 psi
• Exhaust area 0.22 m² / 2.4 sq. ft.

Typical dimensions
Length 8 m / 26 ft.
Width 3.7 m / 12.1 ft.
Height 3.4 m / 11.2 ft.

Features
• Back pressure/condensing type
• Package unit design
• Radial exhaust
• Simple design, rigid rotor
• Oil system integrated in base frame
• Separate oil and steam piping

SST-150
up to 20 MW
The SST-150 is a single-casing turbine, providing geared drive to a 1,500 or 1,800 rpm generator and packaged in a skid-mounted design. For power generation, it provides high efficiency together with a very compact arrangement.

Technical data
• Power output up to 20 MW
• Inlet pressure up to 103 bar / 1,495 psi
• Inlet steam temperature up to 505°C / 940°F
• Rotational speed up to 13,300 rpm
• Bleed up to 25 bar / 365 psi
• Controlled extraction up to 16 bar / 230 psi
• Exhaust pressure (back pressure) up to 10 bar / 145 psi
• Exhaust pressure (condensing) up to 0.25 bar / 3.6 psi
• Exhaust area 0.28 – 1.6 m² / 3.0 – 17.2 sq. ft.

Typical dimensions
Length 12 m / 39 ft.
Width 4 m / 13.1 ft.
Height 5 m / 16.4 ft.

Features
• Back pressure/condensing type
• Package unit design
• Pre-engineered turbine modules, modular peripherals
• Single controlled extraction
• Radial exhaust
• Separated oil and steam piping

SST-200
up to 10 MW
The SST-200 is a single-casing turbine, geared or with direct drive suited to both generator and mechanical drives. Used for industry and power generation applications.

Technical data
• Power output up to 10 MW
• Inlet pressure up to 110 bar / 1,595 psi
• Inlet temperature up to 520°C / 970°F
• Controlled extraction up to 16 bar / 230 psi and up to 350°C / 560°F
• Bleed up to 60 bar / 870 psi
• Exhaust pressure (back pressure) up to 16 bar / 230 psi
• Exhaust pressure (condensing) up to 0.25 bar / 3.6 psi
• Exhaust area 0.17 – 0.34 m² / 1.8 – 3.7 sq. ft.

Typical dimensions
Length 4 m / 13.1 ft.*
Width 2 m / 6.5 ft.*
Height 2.5 m / 8.2 ft.*

Features
• Back pressure/condensing type
• Package unit design
• Extensive pre-design
• High-speed, downward/upward exhaust
• Customized steam path
• Short delivery time

* turbine skid only
SST-300
up to 50 MW
The SST-300 is a single-casing turbine, geared for generator drive. It has a compact and flexible design with a high degree of standardization. Used for power generation applications.

Technical data
• Power output up to 50 MW
• Inlet pressure 120 bar/1,740 psi
• Inlet temperature 520°C/970°F
• Rotational speed up to 12,000 rpm
• Controlled extraction up to 45 bar/655 psi and up to 400°C/750°F
• Bleed up to 60 bar/870 psi
• Exhaust pressure (back pressure) up to 16 bar/230 psi
• Exhaust pressure (condensing) up to 0.3 bar/4.4 psi
• Exhaust area 0.28 – 1.6 m²/3.0 – 17.2 sq. ft.

Typical dimensions
Length 12 m/39 ft.
Width 4 m/13.1 ft.
Height 5 m/16.4 ft.

Features
• Back pressure/condensing type
• Pre-engineered turbine modules, modular peripherals
• Two controlled extractions
• Radial/axial exhaust
• Adaptive stage up to 16 bar
• Package unit design
• Customized steam path

SST-400
up to 65 MW
The SST-400 is a single-casing turbine, geared for generator drive. It has a compact and flexible design with a high degree of standardization. Used for industry and power generation applications.

Technical data
• Power output up to 65 MW
• Inlet pressure up to 140 bar/2,030 psi
• Inlet temperature up to 540°C/1,005°F
• Rotational speed 3,000–8,000 rpm
• Controlled extraction up to 45 bar/655 psi and up to 450°C/840°F
• Bleed up to 60 bar/870 psi
• Exhaust pressure (back pressure) up to 25 bar/365 psi
• Exhaust pressure (condensing) up to 0.3 bar/4.4 psi
• Exhaust area 1.3 – 3.0 m²/14.0 – 32.5 sq. ft.

Typical dimensions
Length 18 m/59 ft.
Width 8.5 m/28 ft.
Height 5.5 m/18 ft.

Features
• Back pressure/condensing type
• Standard turbine modules, modular peripherals
• Two controlled extractions, radial/axial exhaust
• Adaptive stage to 16 bar
• Semi-package unit design
• Customized steam path
• Short delivery time

SST-500
up to 100 MW
The SST-500 is a single-casing turbine, geared or with direct drive. It is suited to both generator and mechanical drives to accommodate large volume flows. Typically used as low-pressure casing in two-cylinder applications.

Technical data
• Power output up to 100 MW
• Inlet pressure up to 30 bar/435 psi
• Inlet temperature up to 400°C/750°F
• Rotational speed up to 15,000 rpm
• Bleed up to 2, at various pressure levels
• Exhaust area 2 x 0.175 – 3.5 m²/2 x 1.9 – 24.8 sq. ft.

Typical dimensions
Length 19 m/62 ft.
Width 6 m/20 ft.
Height 5 m/16.4 ft.

Features
• Double-flow condensing turbine
• Standard turbine modules, modular peripherals
• Throttle-controlled
• Highly customized
• Customized steam path
**SST-600**

**up to 100 MW**

The SST-600 is a single-casing turbine, geared or with direct drive; suited to both generator and mechanical drives. Used for tailor-made applications for most complex processes in industry and power generation.

**Technical data**
- Power output up to 100 MW
- Inlet pressure up to 140 bar / 2,030 psi
- Inlet temperature up to 540°C / 1,005°F
- Rotational speed 3,000 – 15,000 rpm
- Double controlled extraction up to 65 bar / 945 psi
- Bleed up to 5, at various pressure levels
- Exhaust pressure (back pressure) up to 55 bar / 800 psi
- Exhaust area 0.175 m² – 3.5 m² / 1.9 – 38 sq. ft.

**Typical dimensions**
- Length 19 m / 62 ft.
- Width 6 m / 20 ft.
- Height 5 m / 16.4 ft.

**Features**
- Back pressure/condensing type
- Standard turbine modules, modular peripherals
- Inner casing for high steam parameters
- Second steam injection possible
- Package unit design
- Radial/axial exhaust
- Highly customized
- Customized steam path

**SST-700**

**up to 175 MW**

The SST-700 is a single-casing direct-drive turbine with reverse flow design for generator applications. Used for tailor-made applications for most complex processes in industry and power generation.

**Technical data**
- Power output up to 175 MW
- Inlet pressure (with reheat) up to 165 bar / 2,395 psi
- Inlet temperature (with reheat) up to 585°C / 1,085°F
- Reheat temperature up to 415°C / 780°F
- Rotational speed 3,000 – 13,200 rpm
- Controlled extraction up to 40 bar / 580 psi and up to 415°C / 780°F
- Bleed up to 7; up to 120 bar / 1,740 psi
- Exhaust pressure (back pressure) up to 40 bar / 580 psi
- Exhaust pressure (condensing) up to 0.6 bar / 8.5 psi
- Exhaust pressure (district heating) up to 3 bar / 45 psi
- Exhaust area 1.7 – 11 m² / 18.3 – 118 sq. ft.

**Typical dimensions**
- Length 22 m / 73 ft.
- Width 15 m / 59 ft.
- Height 6 m / 20 ft.

**Features**
- Back pressure/condensing type
- Pre-engineered turbine modules
- Parallel arrangement possible
- Proven solution for solar thermal power plants
- Simple extraction in crossover pipe
- Axial/axial exhaust
- Reheat applications
- Customized steam path

**SST-800**

**up to 150 MW**

The SST-800 is a single-casing direct-drive turbine with reverse flow design for generator applications. Used for tailor-made applications for most complex processes in industry and power generation.

**Technical data**
- Power output up to 150 MW
- Inlet pressure up to 140 bar / 2,030 psi
- Inlet temperature up to 540°C / 1,005°F
- Rotational speed 3,000 – 3,600 rpm
- Double-controlled extraction up to 45 bar / 655 psi
- Bleed up to 6, at various pressure levels
- Exhaust pressure vacuum up to 14 bar / 205 psi
- Exhaust area 1.1 – 5.6 m² / 11.8 – 60.3 sq. ft.

**Typical dimensions**
- Length 20 m / 66 ft.
- Width 8.5 m / 28 ft.
- Height 6 m / 20 ft.

**Features**
- Back pressure/condensing type
- Standard turbine modules, modular peripherals
- Inner casing for high steam parameters
- Axial/axial exhaust
- Package unit design
- Highly customized
- Customized steam path