



# MANGAN INDUSTRIAL GROUP

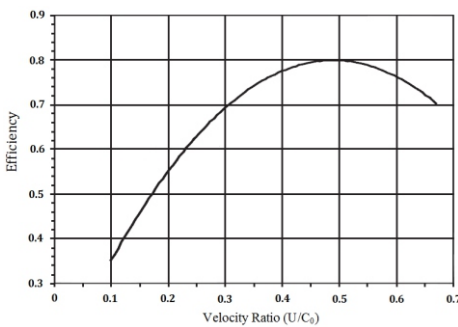
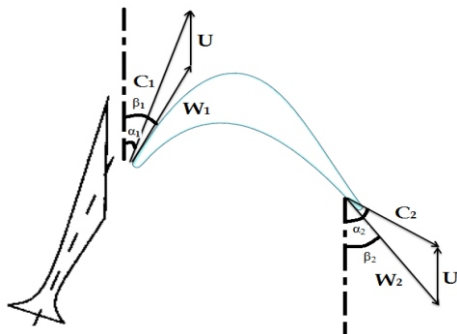
## STEAM TURBINES

### Single Stage Steam Turbine Rateau Type

These types stand out by their rugged design and renowned reliability even under the most severe operating conditions. They are ideal for saturated steam service. Their suitability for use as condensation or back-pressure turbines in combination with various integral gears modules opens up a broad application range.

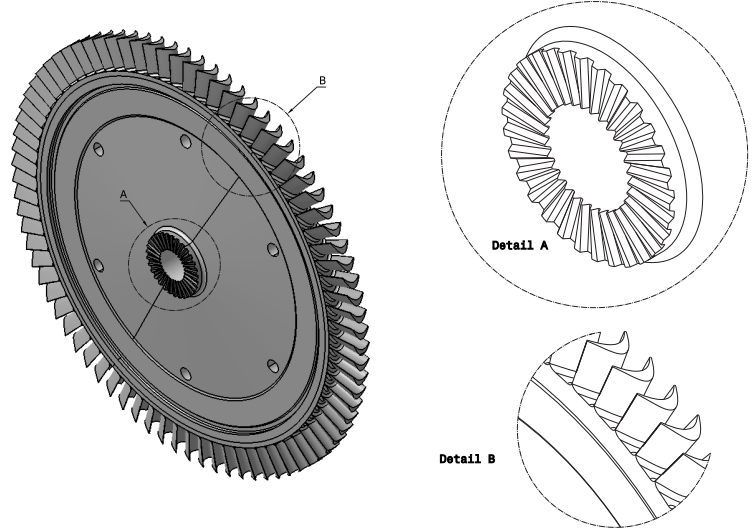
### Thermodynamic specifications

- Maximum Inlet Pressure :131 bar (a) / 1900 psi
- Maximum Inlet Temperature :Dry saturated steam up to 530 °C / 985 °F
- Exhaust Pressure :Back pressure up to 29 bar (a) / 420 psi or Vacuum



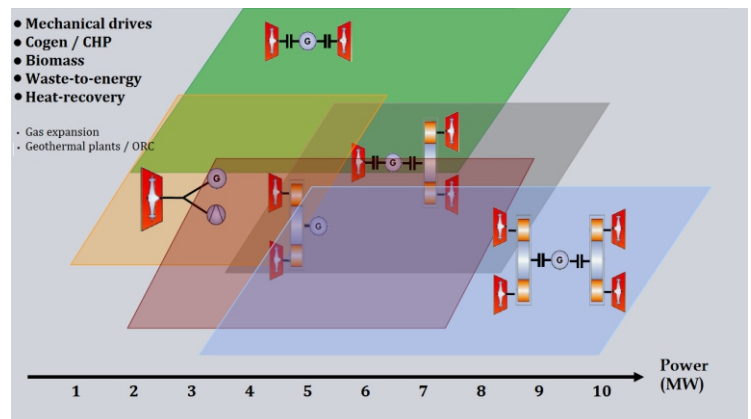
### Technical Specifications

- Maximum Power Out put :6000 kW
- Maximum Rotational Speed :18000 rpm



### Features

- Backpressure or condensing type
- Package unit design
- Oil unit integrated in base frame
- Nozzle group control valves available
- Quick-start without pre-heating
- Meet requirements of **API 611/612**
- Suitable for ORC (Organic Rankine Cycle)
- Suitable for gas expansion



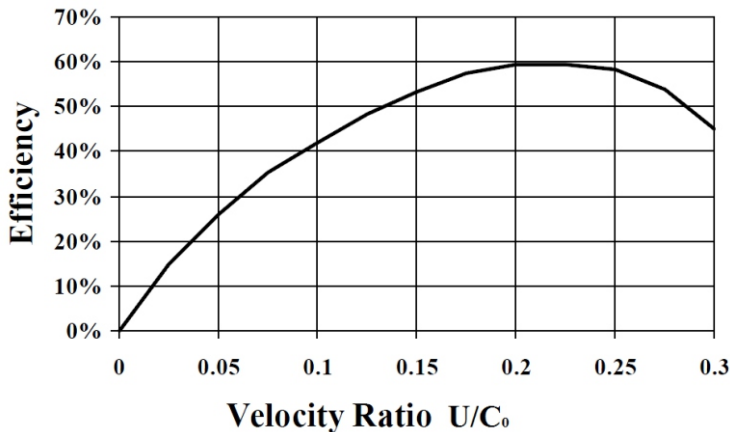
Single-Stage Steam Turbine Product Line





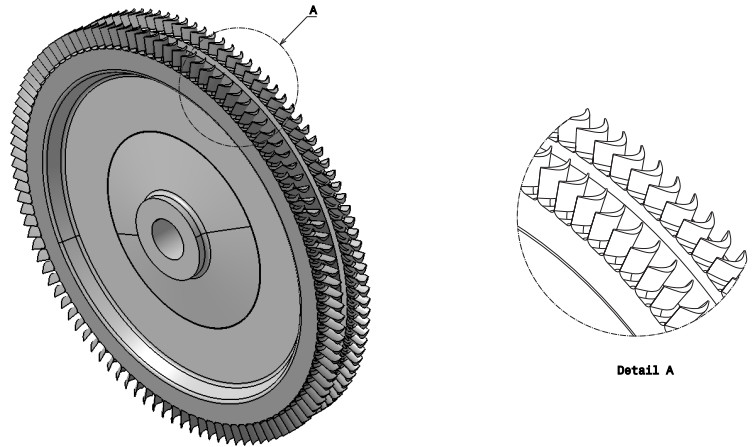
### Single Stage Steam Turbine Curtis Type

These types are single stage, impulse type turbines with a two-row, velocity-compounded rotor and one row of stationary reversing blades between the rotating blades. The rotor is supported between two sleeve bearings and positioned axially by a ball thrust bearing. These turbines are rugged constructed, suitable for a wide range of mechanical drive applications and comply with the **API 611/612** and **NEMA SM23** requirements



### Features

- Direct drive or with integrated, single stage parallel shaft gear
- Compact, space saving construction
- High degree of mechanical efficiency due to low number of bearings
- Overhung bearing design
- Automatic nozzle group control
- Maximum Serviceability
- Meet requirements of **API 611/612**



### Thermodynamic specifications

- Maximum Inlet Pressure : 41 bar (a) / 595 psi
- Maximum Inlet Temperature : 450 °C / 842 °F
- Exhaust Pressure : 1-17 bar (a)

### Technical Specifications

- Maximum Power Out put : 1600 kW
- Maximum Rotational Speed : 10500 rpm

