

troveo TOP OFFER

3x Unused Steam Turbine Generation Sets For Sale

Summary

We offer three unused Steam Turbine Generation Sets with approx. 12 MW electric capacity per set, each presenting a modular high quality industrial power generation equipment manufactured by Dresser-Rand (now a SIEMENS company), as a valuable opportunity for reliable, efficient operation in industrial and utility applications. These sets would be ideal as a basis for the implementation of small to medium- size power plants that are operated by traditional or independent power producers. Originally designed for a medium-scale project in Brazil, which was not realised, these turbine sets are in a very good condition, stored since 2009 with professional storage and preservation methods.

The sets were initially intended for a follow-up projects, which the investor has decided not to pursue due to fundamental corporate restructuring. The investor is now initiating serious efforts to sell the equipment.

Out of the originally four sets, one has already been sold successfully. The remaining three unutilised sets are now available for immediate purchase at a negotiable price of USD 945,000 each in seaworthy packing, ex-warehouse in a harbour's free trade area in Western Europe. A package price for all three sets is negotiable.

Despite of being 16 years old, each turbine set has been maintained in very good state. For serious buyers interested in one or more turbine sets, we offer the opportunity for direct inspection. The units can be unpacked and demonstrated on-site in Hamburg, enabling a thorough evaluation prior to purchase.

Generator testing conducted in April 2018 confirmed optimal electrical performance and system integrity.

While these sets are optimized for 60 Hz networks, they can be converted for use in 50 Hz environments with appropriate modifications inter alia by replacing the gearbox and the clutch of the generator. This can be done by experienced companies. This flexibility makes them applicable across different regional grid specifications, broadening their usability in global markets.

Acquiring these turbine sets offers substantial cost savings compared to new equipment (current new price: approx. USD 5 to 7 million per set). Their competitive pricing, combined with immediate availability, can accelerate project timelines and improve return on investment.

Technical Data

Further detailed technical descriptions and datasheets are available on request

STEAM TURBINE:

Manufacturer:	Siemens (Dresser-Rand) top exhaust
Rating:	approx. 12.3 kw
Inlet steam:	45 bar abs./ 430 °C
Inlet steam flow:	52.6 kg/hr (max.)
Exhaust steam:	0.08 bar abs. / 41.5 °C
Steam rate:	approx. 4.5 kg/kWh
Number of stages:	12
Inlet steam size:	DN 200 PN 64
Speed:	4,500 rpm

GEAR REDUCER:

Manufacturer:	Renk
Model number:	TL-500
Type	Single Reduction, double helical
Speed:	4,500 / 1,800 rpm

GENERATOR:

Manufacturer:	Indar
Model:	LSA-900-X/4
Rated Output:	15.5 MVA
Voltage:	13.8 kV / 3 phase, 60 Hz
Power Factor:	0.8
Speed:	1,800 rpm
Type :	Brushless air cooled

CONDENSER:

Manufacturer:	GEA top entry
Type:	GEA surface C5755856 capacitor, type 2/III/H
Cooling water inlet/outlet:	30 / 37 °C
Cooling water flow:	3,600 m ³ /hr
2 condensate pumps type:	Etanorm G080-400 G11, YoC 2007

SCOPE OF SUPPLY:

(we also refer to the detailed parts & packing list “3 Condensation Steam Turbine Set”)

- Steam turbine, gear reducer skid complete
- Synchronous AC generator
- Lubricating oil system
- Switchgear and control panel
- Steam condenser system
- Condensate extraction pump with motor
- Set of diverse parts, e.g. battery, pipes, valves, compensators, cables

Photos



Turbine with Gear Box



Generator



Oil Supply Unit

Dresser Rand Condensation Steam Turbine Plant



Control Cabinet

Dresser Rand Condensation Steam Turbine Plant



Condenser