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Specification No. EQ-707

Turbine M + M GT 500-4

ProServ International GmbH & Co. KG
Manager Shahram Aslani

Key Data

Manufacturer	M + M Turbinen Technik
Year of made	2013
Type	GT 500-4
Power	7130 KW
Vaporisation pressure	21 bar
Steam pressure	4,3 bar
Speed	7661 1/min
Temperature	Inlet 365° Outlet 165°
Generator	8300 kWel
Working hours	8760 h/a

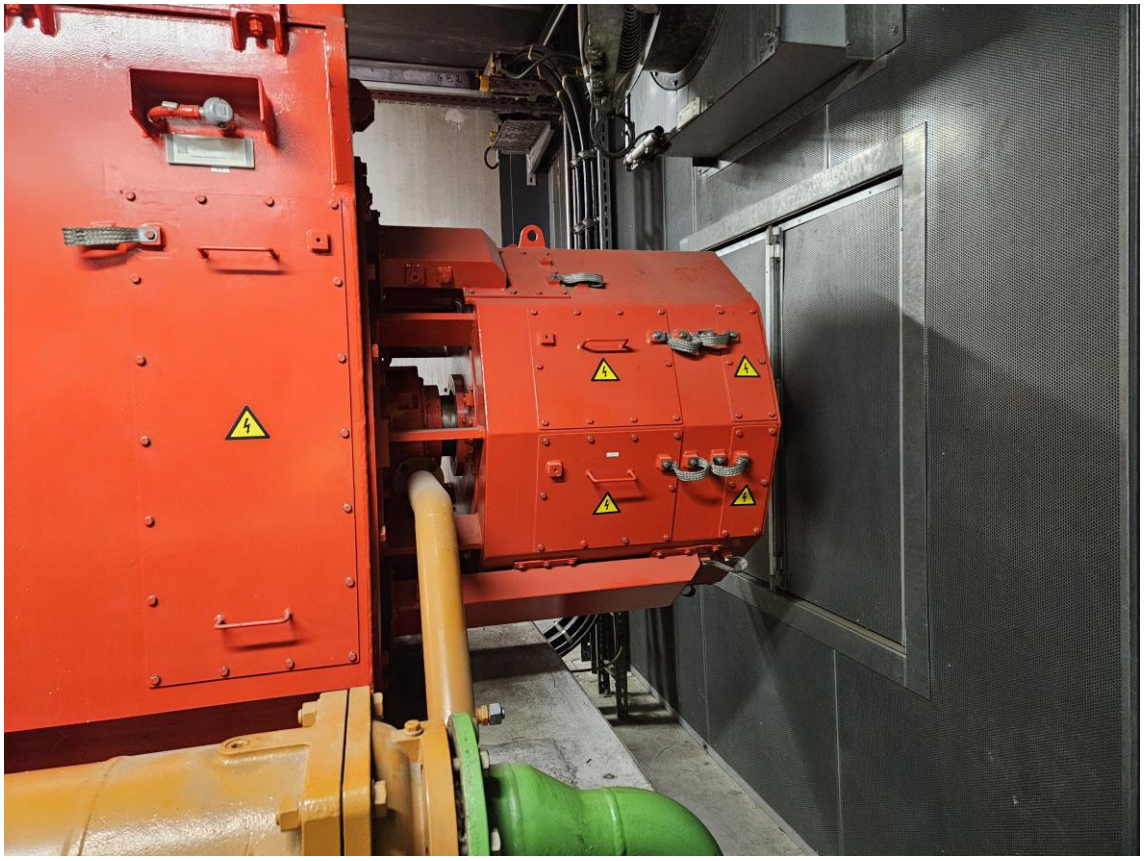
M+M turbines are typically custom-built industrial steam turbines used for **combined heat and power (CHP)** or process steam energy recovery.

Based on the moderate inlet pressure and the relatively high exhaust pressure we have here a backpressure steam turbine. It was designed for process steam systems in order to have a good energy recover and heat supply.

This turbine was used in a paper mill to improve their efficiency.
With it's 7,2 MW this turbine is a medium turbine in the industrial use.
Due to the pressure and exhaust steam from this turbine there is almost no energy wasted.

Estimation of the steam flow would be 30 to 40 t/hours.
Which created and efficiency of 60% to 75% for the mill.
The CHP efficiency would around 75% to 85%.

The Turbine would be for 8760 complete production hours with max 114 Mg/h steam.
The turbine with generator supplies the paper machine with electricity at the 6 kV level. The process steam for production is provided at two pressure levels.
When the steams come to the turbine it will de-pressure the steam from 20 bar to 4,2 bar.
If the turbine is switch of for any reason the process steam process would be handled via 4 parallel working pressure reduction stations.



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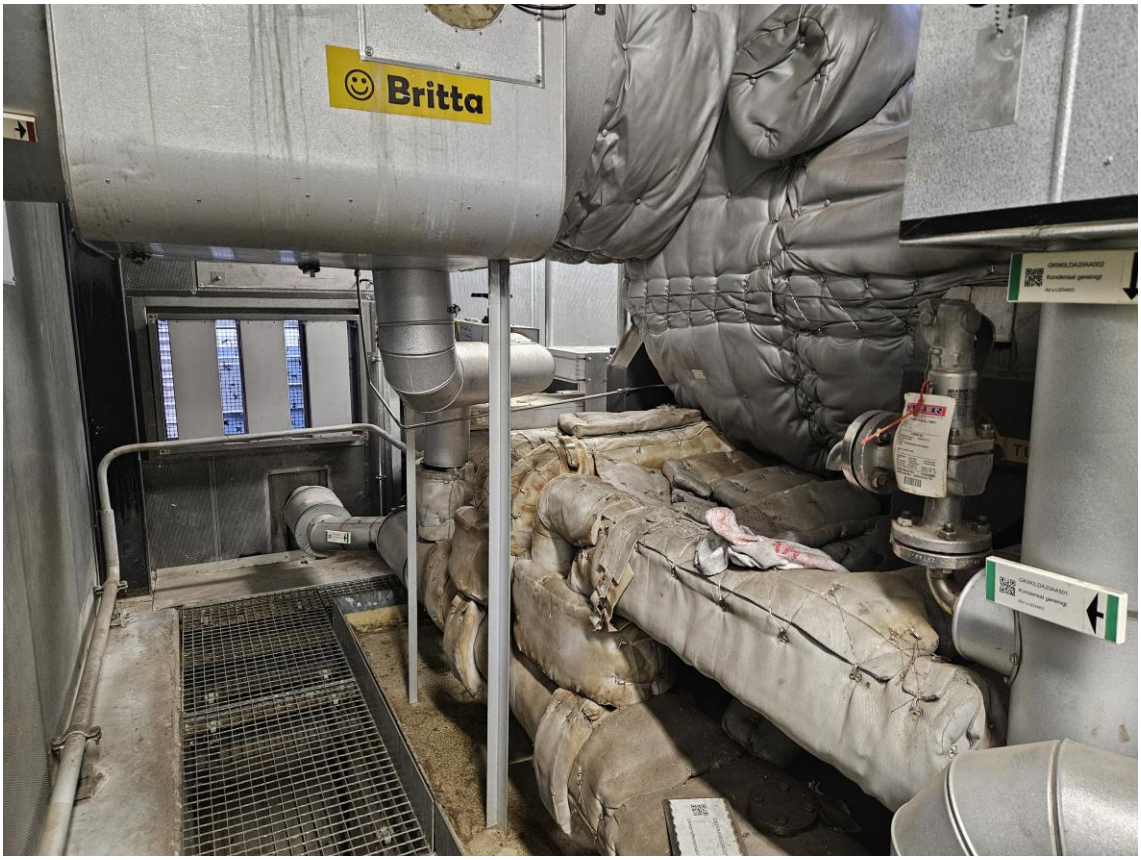

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