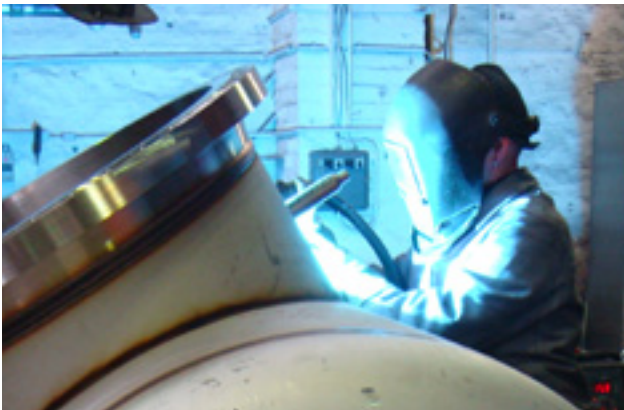


„The plant compresses 7,8t non condensable gases plus 3,8t water vapour per hour!“



Körting Hannover AG supplies a Steam Jet Vacuum Plant to Indonesia.



As always, it was the excellent references which convinced M/s Fuji Electric Systems that Körting Hannover AG is the right partner for the realisation of the Geothermal Power Plant in Indonesia. Because a technical realisation for the exploitation of geothermal energy can only function in conjunction with a made-to-measure steam jet vacuum plant and such plants are just one of Körting Hannover AG's specialities. Following several successfully completed projects in New Zealand, Japan and Iceland a further one is now to be executed for Indonesia.

The order for the construction of a special steam jet vacuum plant destined for a Geothermal Power Plant in Indonesia was placed in August 2010. Project engineer H.-G. Broll, Körting Hannover AG's specialist for the planning of multi-stage vacuum systems finding use in the chemical, petro-chemical, urea and crystallisation industries as well as in power plants, made an immediate start on the designing of this plant. He, a graduated mechanical engineer, developed sophisticated plans for the steam jet ejectors and mixing condensers which make up such a plant. The plans were realised in collaboration with three design engineers and four

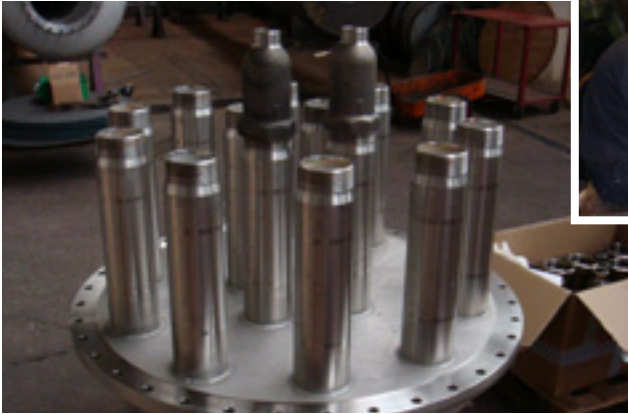
welders. „The first part, i.e. two ejectors and a mixing condenser, was delivered already in June“, said Broll. „The second part of the plant will be shipped in September and everything is to be completed by the beginning of next year.“ Then by means of the steam jet vacuum pumps the plant will serve to generate a vacuum in the turbine main condenser.

„The basic and particular essentials of this steam jet vacuum plant is the large amount of non condensable gases which have to be suctioned out of the turbine main condensers – after all, at least 7,8 t per hour!“, explained Broll. Primarily, these non condensable gases consist of CO₂, nitrogen, hydrogen and a slight amount of air. Indeed, the gases in the geothermal vapours pose a general problem for the utilisation of geothermal energy because they can lead to considerable difficulties when operating the power plant.

One of the provisions for accepting the order for the steam jet vacuum plant was the already existing good business relationship between the companies: „We have worked with Fuji Electric Systems since 2006 and have a good rapport with them“, explained H.-G.

Broll. „They have a well-qualified group there with a high professional competence and good technology“, he added. Mr. Hidekazu Kotaka, the project engineer for





Fuji Electric Systems, commented that he was well-pleased with the collaboration: „We made our decision for Körting Hannover AG because they convinced and won us over with their excellent references, long-standing experience and cooperative capabilities.“

The trend towards the construction of further Geothermal Power Plants will continue in the future. „And regenerative energy is available at no charge“, remarked Broll on the advantages. In most countries interested in such projects the earth’s crust is thin, it seethes and bubbles as for example in Iceland, New Zealand, Japan and precisely in Indonesia too. Because, having approx. 40% of the world-wide potential of geothermal energy



sources the construction and development of geothermal power plants forms the current nucleus of this Island Nation’s energy policy. In fact, only 4% of this available energy is being utilised at the time being. According to information received from the Ministry of Energy and Mineral Resources in Jakarta, capacities totalling 9.500 MW should be available by 2025.

However, the next projects of this type will probably be realised in Africa and Chile.

At a glance

| | |
|------------------|-------------------------------|
| Suction pressure | 7,8 t/h non condensable gases |
| Suction load | 3,8 t/h |
| Water vapour | 89,5 mbar |



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