

Expert customised solutions for special ships



With more than 140 years' experience in jet ejector technology, Körting Hannover AG can offer highly efficient and proven solutions for the shipbuilding industry. The current project for the Chinese COSCO Dalian shipyard shows just how customised these solutions can be.



Jet ejector with suction power of more than 500 cubic metres per hour

COSCO Dalian Shipyard Co. Ltd. appointed Körting Hannover AG to produce jet ejectors to nominal widths of DN 300 which are used for bilge and ballast systems. A new generation of the existing product range was required and jet ejectors with suction power of more than 500 m³/h had to be developed and manufactured. "What made the project so special was that we managed to comply with and implement the customers' special demands in a short space of time. Something other competitors couldn't manage to do", explains Markus Kampers, project engineer at Körting Hannover AG. The first consignment has already been delivered to the customer. The second is to follow in January 2015.

Painstaking development

Testing capacities were quickly expanded to check the performance of the jet ejectors. Because it was

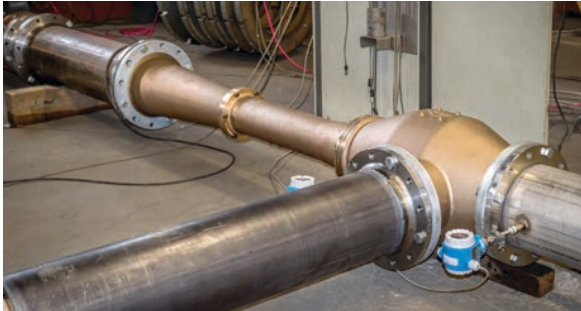
vital to supply the quantity that streams through the jet ejector and measure it very precisely. On site, Körting Hannover AG had a total volume of 250 m³ of water which is circulated about three times per hour. As a result, a performance record for the Germanischer Lloyd (GL) classification society was provided directly in the main plant in Hanover, Germany. Internationally Körting is now the only company whose jet ejectors are fully GL-certified up to nominal widths of DN 300. "According to current GL regulations, any company manufacturing a jet ejector like this must be able to produce an equivalent performance record in their own plant", explains Kampers when outlining one of the many benefits Körting offers.

Customised design

As the leading and at the same time oldest supplier of jet ejector technology, Körting delivers tailor-made solutions to its customers. All jet ejectors are custom-made to performance specifications. "Cavitation-free operation, minimal energy consumption and maximum suction power are the results of our tailor-made design", reports Kampers. The jet ejectors in nominal widths of DN 300 for COSCO Dalian are made of high-quality, fully seawater-resistant cast bronze. "This allows us to achieve low weight, but extreme strength. What's more the jet ejectors are very hard-wearing". They have no electrical or mechanical drives, dynamic seals or moving parts. Therefore, jet ejectors stand apart because they have perfect dry-running capabilities, don't get dirty easily and

are consequently virtually maintenance-free. “The project for COSCO Dalian shows that Körting is fully capable of reacting to any conceivable enquiry from a customer thanks to its experience, flexibility

and highly professional approach”, says Kampers. Körting has already received enquiries about products in nominal widths of DN 300 for future projects.



Test rig for GL certification of DN 300 nominal widths



At a glance

Motive flow	240 m ³ /h seawater
Suction flow	> 500 m ³ /h seawater
Suction and motive connection	DN 250
Mixed flow outlet	DN 300



Custom-designed jet ejectors are produced and tested in the main plant in Hanover, Germany



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