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The 10th International Meeting on Advances in Thermofluids

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70	Agus Sunjarianto Pamitran, M. Arif Budiyanto and R. Dandy Yusuf Maynardi	Analysis of Isotank Wall Physical Exergy Characteristic and LNG Boil-off Rate in Feasibility Study of Retrofitted Dual Fuel Engine Conversion of 3200 DWT Passenger Ship	information	

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Paper:	(Mar 22, 11:17 GMT)
Author keywords:	Waterjet propilsion Combination nozzle CFD
EasyChair keyphrases:	abstract text abstract text (1020)
Abstract:	Waterjet propulsion is a type of propulsion system which is used widely by ship with high-speed operation and sailing in shallow waters. This system is constructed by pump and impeller that impels water passing through the inlet tube. Transport energy is occurred from pump to water, due to rotation of the impeller. Reduction of cross-sectional area at the end of nozzle increases water stream velocity, outcome increasing kinetic energy by a change of momentum because of an acceleration. The work of nozzle can be measured by efficiency and force output which is used to propel ship effectively. These parameters are related to nozzle geometry, as the main factor in this paper, supported by other factors such as pump pressure and stream velocity. The analysis of these parameters is presented by simulation in Ansys Fluent. From the results obtained the efficiency of a convergent nozzle is bigger than combination nozzle, with different values within 8% up to 12%. It suggests this type of nozzle is suitable for saving energy in waterjet propulsion system.
Submitted:	Mar 22, 11:17 GMT
Last update:	Aug 07, 01:40 GMT

Authors

first name	last name	email	country	organization	Web page	corresponding?
Arif	Budiyanto	arif@eng.ui.ac.id	Indonesia	Universitas Indonesia		✓
Jansen	Novri	jansen.novri@ui.ac.id	Indonesia	Naval Architecture and Marine Engineering, Department of Mechanical Engineering, Universitas Indonesia		

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Full Paper:	(Aug 07, 02:16 GMT)
Paper:	(Mar 22, 11:17 GMT)
Full Paper (.docx):	(Aug 07, 02:16 GMT)
Author keywords:	Waterjet propilsion Combination nozzle CFD
EasyChair keyphrases:	abstract text abstract text (1020)
Abstract:	Waterjet propulsion is a type of propulsion system which is used widely by ship with high-speed operation and sailing in shallow waters. This system is constructed by pump and impeller that impels water passing through the inlet tube. Transport energy is occurred from pump to water, due to rotation of the impeller. Reduction of cross-sectional area at the end of nozzle increases water stream velocity, outcome increasing kinetic energy by a change of momentum because of an acceleration. The work of nozzle can be measured by efficiency and force output which is used to propel ship effectively. These parameters are related to nozzle geometry, as the main factor in this paper, supported by other factors such as pump pressure and stream velocity. The analysis of these parameters is presented by simulation in Ansys Fluent. From the results obtained the efficiency of a convergent nozzle is bigger than combination nozzle, with different values within 8% up to 12%. It suggests this type of nozzle is suitable for saving energy in waterjet propulsion system.
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