

Special Issue

High Speed Air Compressor for a Fuel Cell System for Use in a Vehicle

Message from the Guest Editors

This special issue is concerned with the design and further development of an electrically driven air compressor. In addition to increasing the efficiency by optimizing spiral groove bearings, air flow and temperature management, the goal is also to reduce costs. Therefore, material selection and simplification of production and assembly are of particular concern. This Special Issue covers the following main topics in particular:

- Shaft bearing and materials;
- Aerodynamics and map extending and stabilizing measures;
- Power electronics for controlling the air compressor control;
- Overall engine design and construction of test vehicles;
- Component testing;
- Manufacturing concept.

Guest Editors

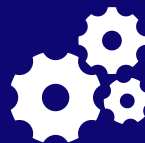
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Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided. There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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