

Success Stories



Rapid implementation of MOTIX™ software to meet application requirements.



Another Success Story

About the client

The client is a leading company in the injection molded and permanent magnet industry. They provide innovative solutions to magnetics engineering and design challenges across industries.

Client's Challenge

The initial control parameterisation of a cooling water pump led to unstable behavior at high speeds and operation without flow. In addition, the motor controller reached its performance limits due to the high demands on the dynamics of the controller and a required speed of up to 7200 rpm.



MOTEON Approach

As with many of our customers, the problem was that the mechanical load was not considered in depth.

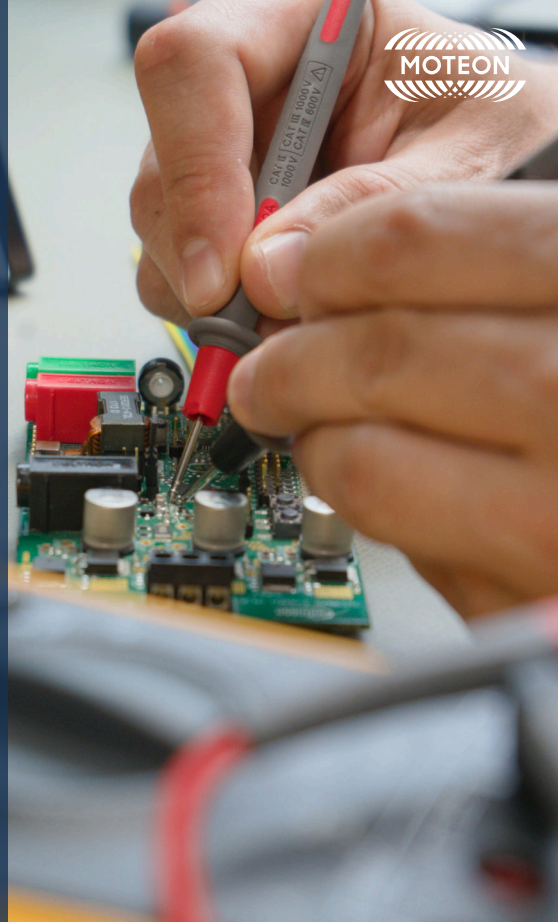
MOTEON determined the hydraulic load based on the available data, modeled the hydraulic load in Simulink, and re-tuned the control parameters via simulation. Based on these findings, the MOTIX™ software was implemented and adapted.

Through model-based structural optimization and controller re-configuration, stable behavior even at high speeds and high drive efficiency (>80%) were achieved. The application requirements of up to 7200 rpm were fulfilled.



Customer value

- // Rapid proof of concept through simulation
- // Customized software to meet application requirements
- // Fast operation of software thanks to the use of pre-existing software components





LETS GET IN TOUCH

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