

## Project Note

# Test stand for speed sensors

This project involved enlarging a test stand for testing speed sensors and incorporating it in a laser labelling system. The reuse of software components greatly reduced development time.

## Task

The project involved a customer specialised in developing and producing speed sensors who wanted to enlarge its existing test stand for testing sensors by adding a second station. The existing hardware and LabVIEW software were to be incorporated in the station largely as they were, with the addition of a new measuring device. Then the entire test station was to be integrated in a laser labeling system. Zühlke made the necessary adjustments to the software and transferred the system to the new test station.

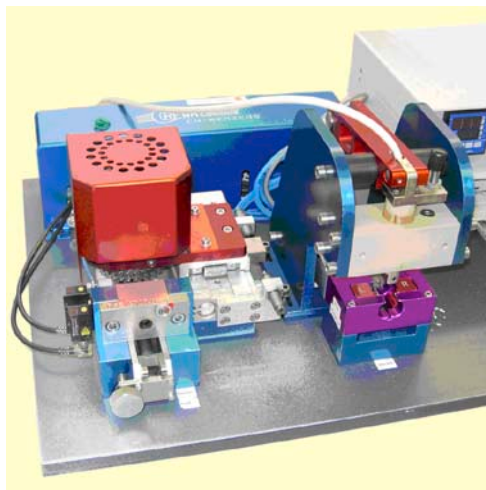
## Implementation

In interviews with the customer's employees, Zühlke determined the tried-and-tested functions of the test stand and systematically recorded additional requirements. To expand the system, the experts programmed new test steps and new LabVIEW drivers for the laser labeling device and for the measuring device. These components communicate over RS232 interfaces and were incorporated as modules in the existing software. During system commissioning at the customer's, the team ran through the individual test steps and the correct operation of the test hardware. In this way, additional requirements and requests from users were able to be integrated directly into the LabVIEW application.

As a final step, the project team installed the entire test stand in the laser labeling system and integrated the functions for sensor labeling.



**JAUQUET**  
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## Technical Data

IO-Hardware:  
National Instruments

Software:  
LabVIEW

Laser system:  
TRUMPF

## Customer benefits

- With Zühlke engineers on site during commissioning, last-minute requests from the customer were able to be incorporated in the final product.
- Thanks to the extensive expertise of the LabVIEW specialist, the new functions were created very quickly.
- The reuse of appropriate software components cut down the development time substantially.

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