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# Case Study: Felss

Building a foundation for smart,  
digital connectivity with Nerve



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Felss is a solutions provider, specializing in cold forming of metal tubes and materials for automotive manufacturing, as well as serving a broad range of customers across other industries.

## Challenge

The Felss Group is constantly engaged in optimizing its processes to deliver resource-efficient, highly-reliable customer solutions in the form of machines and components. As Felss rolls out new innovative Smart Services, the company faces the challenge of accessing real-time data from its machines installed around the world. In order to support its Industry 4.0 vision, Felss has decided to work with the Nerve Blue software platform from TTTech Industrial.

## Solution

Nerve Blue is installed in edge devices that are integrated into Felss machines and connected to a central management system. Felss is shipping Nerve Blue with all of its new machines. The software can also be retrofitted into previously installed machines with minimal effort, as it runs on the edge device located in the control cabinet. A multitude of sensors within the machine combine with Nerve Blue to enable the communication, precise recording, and analysis of data.

The combination of Nerve Blue with the edge device and applications from Felss ensures that all critical machine, production, process, and component data is recorded and saved securely. This enables Smart Services to perform real-time analysis, data filtering, and knowledge generation directly at the



Nerve Blue provides a foundation for smart, digital connectivity of machines and also forms the basis for Felss' Smart Services, which act as an entry point for customers into Industry 4.0.



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source, thereby considerably reducing the volume of data transferred to IoT platforms. In parallel, the Nerve Management System offers centralized administration for a variety of supporting functions in production, process monitoring and maintenance. In addition to the innovative features of Nerve Blue, Felss has benefitted from a close cooperation with TTTech Industrial, which has enabled them to implement their requirements in an optimal way.

## Key Benefits

Nerve Blue provides a platform for Felss to offer its customers secure data connectivity on the machine, in the factory, and to the cloud. It opens up new avenues for the development and deployment of Smart Services such as the innovative Felss "Wear Detection Software". The Nerve Management System also enables easy installation of new applications and software updates to ensure that Felss customers are always receiving the highest levels of service.

