



## Bosch in Feuerbach: tradition meets modernity

November 2018

Feuerbach is home to the world's oldest Bosch location, founded by Robert Bosch himself in 1909. The location has a rich history and a promising future. That is because Feuerbach is moving with the times and focusing on Industry 4.0 as a way forward. The more than 550 digitally connected machines at the plant enable a modern approach to manufacturing, maintenance, transportation, and monitoring. Condition monitoring, for example, makes it possible to chart and visualize the condition of machines, much like a check-up for a person, helping associates keep a constant eye on what is going on, so that they can do the right thing at the right time. The result: reduced machine downtime and higher production output. The same is true when it comes to maintenance. Thanks to the Nexeed maintenance support system, long walks through the plant and drawn-out diagnostic and coordination processes are a thing of the past. Real-time data analysis and transmission make it possible to respond quickly and process maintenance requests efficiently. In addition to the extensive use of software solutions, the plant in Feuerbach is helping advance human-machine collaboration. APAS, the automatic production assistant, works hand in hand with people – without a safety barrier.

Industry 4.0 is changing manufacturing and job profiles at the same time, and this is also in evidence at the Feuerbach plant. In early 2018, skilled workers from Feuerbach started taking part in the new, nationwide program spearheaded by the German chambers of commerce and industry to train Industry 4.0 specialists.

## General information about the plant

- ▶ **Plant name** Bosch Feuerbach
- ▶ **Established** 1909
- ▶ **Surface area** 101,556 m<sup>2</sup>
- ▶ **Associates** 3,700
- ▶ **Products** High-pressure diesel pumps and exhaust-gas treatment components
- ▶ **Division** Powertrain Solutions



## **Facts and figures about Industry 4.0 in Feuerbach**

- ▶ More than 500 digitally connected machines.
- ▶ Production cycle time cut by 10 percent.
- ▶ Administrative effort for shopfloor management reduced by over 50 percent thanks to the Active Cockpit interactive communication platform.
- ▶ Energy needs cut by 55 percent through intelligent connectivity between various data sources.
- ▶ Reduction of CO<sub>2</sub> emissions by 46,000 metric tons since 2007.