



Smart steam boiler technology from Bosch

Digitisation and networking in a traditional brewery

25 October 2018
PI 10792

Heiko Doppler, a Bosch customer service engineer, and Thomas Steffes, Project Leader at Kramer & Best, have recently handed over a new steam boiler system to André Ködel, master brewer of Park & Bellheimer's brewery in Pirmasens, south-west Germany. Park & Bellheimer expects to save around €80,000 a year in energy costs by installing this upgrade. Furthermore, the brewery in Rhineland-Palatinate is employing an Industry 4.0 solution in the form of MEC Optimize, meaning that in future it will benefit from digitised data collection, intelligent analysis and maximum energy transparency.

MEC Optimize from Bosch is a digital efficiency assistant that helps boiler attendants and operators to locate potential energy losses quickly and suggests concrete measures to address them. The efficiency assistant even detects critical situations immediately and analyses the state of components based on the operating mode. The reliable prognoses enable Ködel, who is also Head of Operations at the Pirmasens plant, to schedule maintenance timely according to the brewery's capacity. Leading-edge predictive maintenance is consequently being brought into a traditional brewery while making its workers, machines and processes more efficient.

The data for MEC Optimize is collected and saved locally by an industrial computer built into the control cabinet. Bosch offers two different systems for transferring and visualising data, which make use either of standardised interfaces to a process control system or of a PC/tablet via WLAN. At the brewery in Pirmasens, authorised persons can view the statistics and analyses via the central control station, gleaning all the important information about the system's energy consumption, load profile and performance, and digitally entering the results of the boiler tests at the same time. Being networked with the secure Bosch MEC Remote monitoring system enables data to be called up from any location, including outside of the brewery. A further advantage of remote access is that, if requested by the operator, Bosch experts can assist with

troubleshooting, parametrisation and programming – cost effectively and without having to travel to the site. "Uninterruptible yet economical process heating is absolutely essential to running our brewery," says Ködel. The networked solutions from Bosch will help to make response times faster and make work more productive overall.

The new Bosch boiler system supplies the brewing house with steam for processes such as mashing and boiling – up to five tonnes of steam per hour are available. Components for heat recovery, a modulating natural gas burner, speed-controlled fans and various items of automation equipment help to provide the steam in a flexible and energy-saving way. The new system was planned and installed by Kramer & Best Anlagenbau GmbH in collaboration with Bosch Industriekessel GmbH.

Press photo: #1598524, #1598523

Contact person for press inquiries:

Annemarie Wittmann

+49 9831 56-218

annemarie.wittmann@de.bosch.com

Bosch Industriekessel GmbH, part of the Bosch Thermotechnik GmbH, is setting the benchmark for industrial boiler technology over 150 years. Boiler systems for steam, hot water and heating, manufactured to customers' specification, provide efficient heating and process heat for all applications. Boiler house components, which are modular in design and perfectly coordinated, together with intelligent regulation and control technology, significantly simplify the planning, installation and commissioning of the complete system. Comprehensive service support from one source rounds off the innovative product portfolio.

Additional information is available online at www.bosch-industrial.com

The Bosch Group is a leading global supplier of technology and services. It employs roughly 402,000 associates worldwide (as of December 31, 2017). The company generated sales of 78.1 billion euros in 2017. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 125 locations across the globe, Bosch employs some 64,500 associates in research and development.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, www.twitter.com/BoschPresse