

Bühler Insights: Get the best out of every process – 24/7

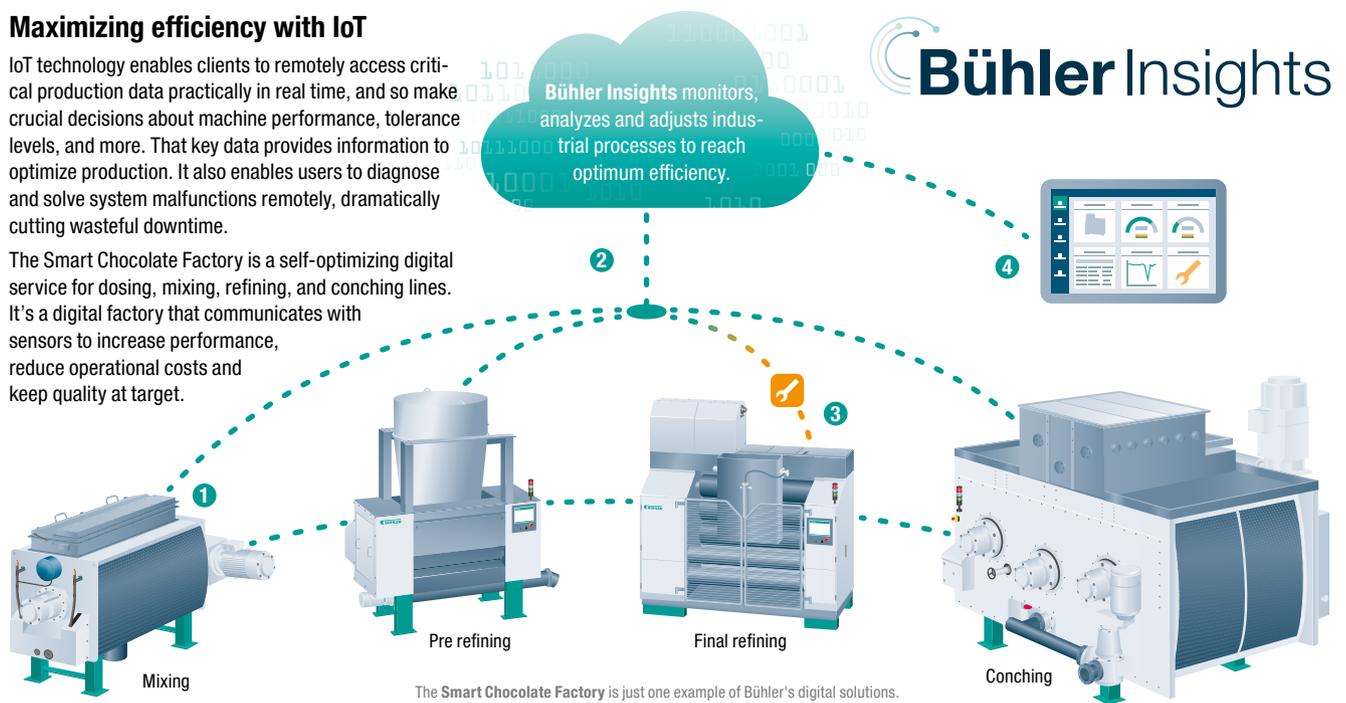
The Internet of Things (IoT) helps manufacturers reach new levels of productivity. With the Bühler Insights IoT platform, every machine in your plant can run as if your best operator is on the job around the clock.

TEXT: STUART BASHFORD, BÜHLER DIGITAL OFFICER / INFOGRAPHIC: MICHAEL STÜNZI

Maximizing efficiency with IoT

IoT technology enables clients to remotely access critical production data practically in real time, and so make crucial decisions about machine performance, tolerance levels, and more. That key data provides information to optimize production. It also enables users to diagnose and solve system malfunctions remotely, dramatically cutting wasteful downtime.

The Smart Chocolate Factory is a self-optimizing digital service for dosing, mixing, refining, and conching lines. It's a digital factory that communicates with sensors to increase performance, reduce operational costs and keep quality at target.



Bühler Insights explained in four steps:

Step 1 Monitor and gather

Sensors monitor the production process and gather valuable data. Smart sensors enable the quality of the process to be measured. Measuring the quality of a process is essential to maximizing potential.

Step 2 Send data for analysis

The sensors send data to Bühler Insights for analysis and visualization. Bühler draws on its 150 years of process know-how to derive real value from the collected data, ensuring optimal efficiency.

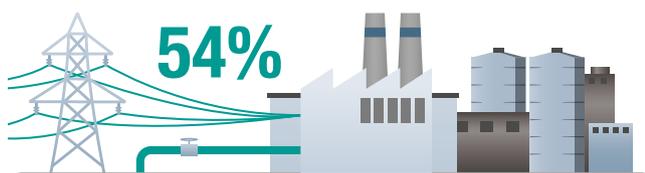
Step 3 Optimize processes

Depending on the digital service required, Bühler can optimize production processes in real time – it is like having your best, most experienced operator at your production line at all times.

Step 4 Customized information

The complete analysis is displayed on a dashboard. It can be viewed in the control room of a factory, a computer or a tablet. Users can customize the information they need based on their specific needs.

Optimized production reduces energy



The industrial sector consumes 54% of the world's delivered energy*, according to the U.S. Energy Information Administration. Digital solutions will help Bühler and its customers optimize efficiency, improve quality, and reduce waste, energy, and downtime. We are currently developing over 50 digital services – and this is just the beginning.



Bühler's 2020 goal is to help its customers reduce energy and water consumption, carbon emissions, and waste by 30%. Bühler Insights is a key enabler for achieving these targets. With real-time monitoring and control, even the most modest benefits can accumulate into substantial gains over the course of a year.

Source: * Delivered energy is measured as the heat content of energy at the site of use. U.S. Energy Information Administration. Bühler Group.

Innovations for a **better world.**



Want to learn more? Contact us:

Stuart Bashford

stuart.bashford@buhlergroup.com

+41 79 918 93 07

www.buhlergroup.com

