

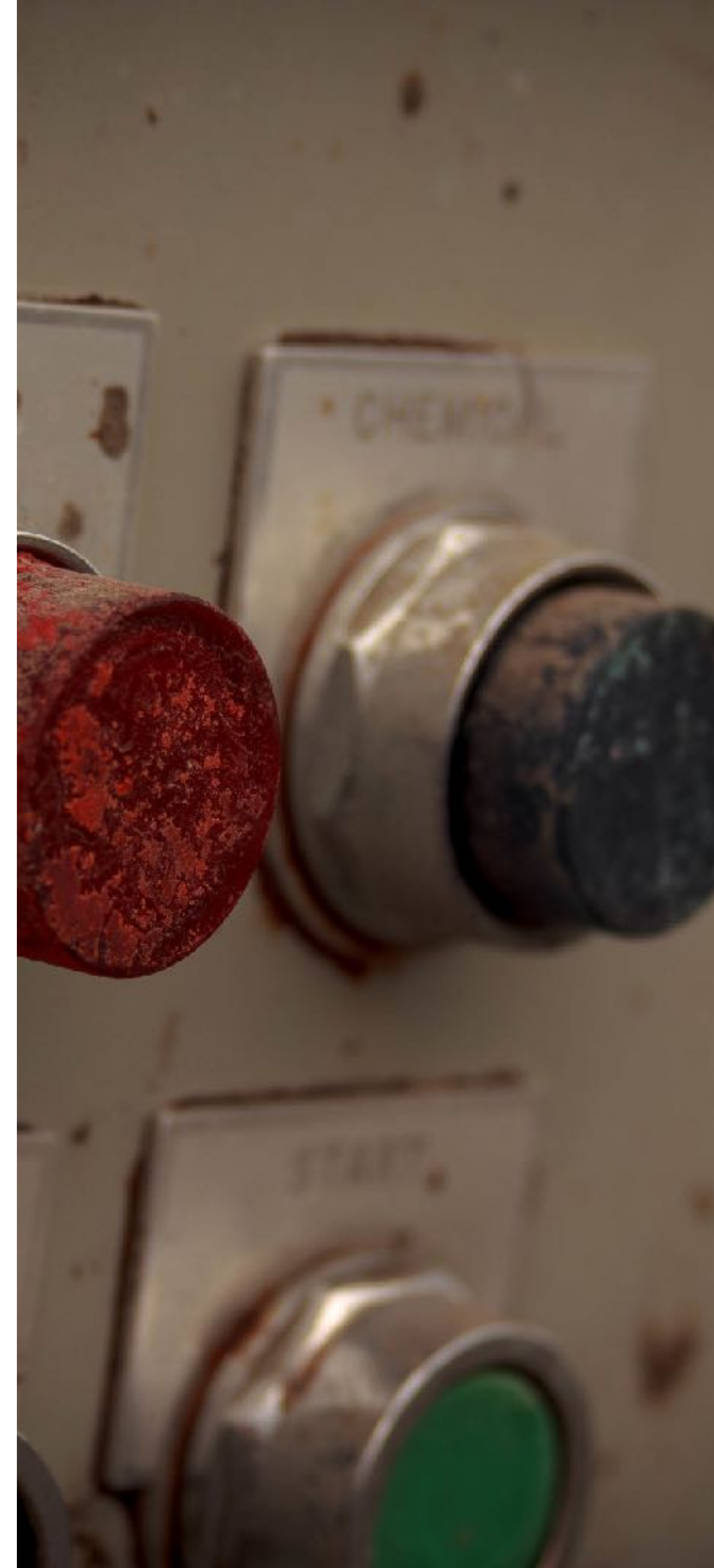


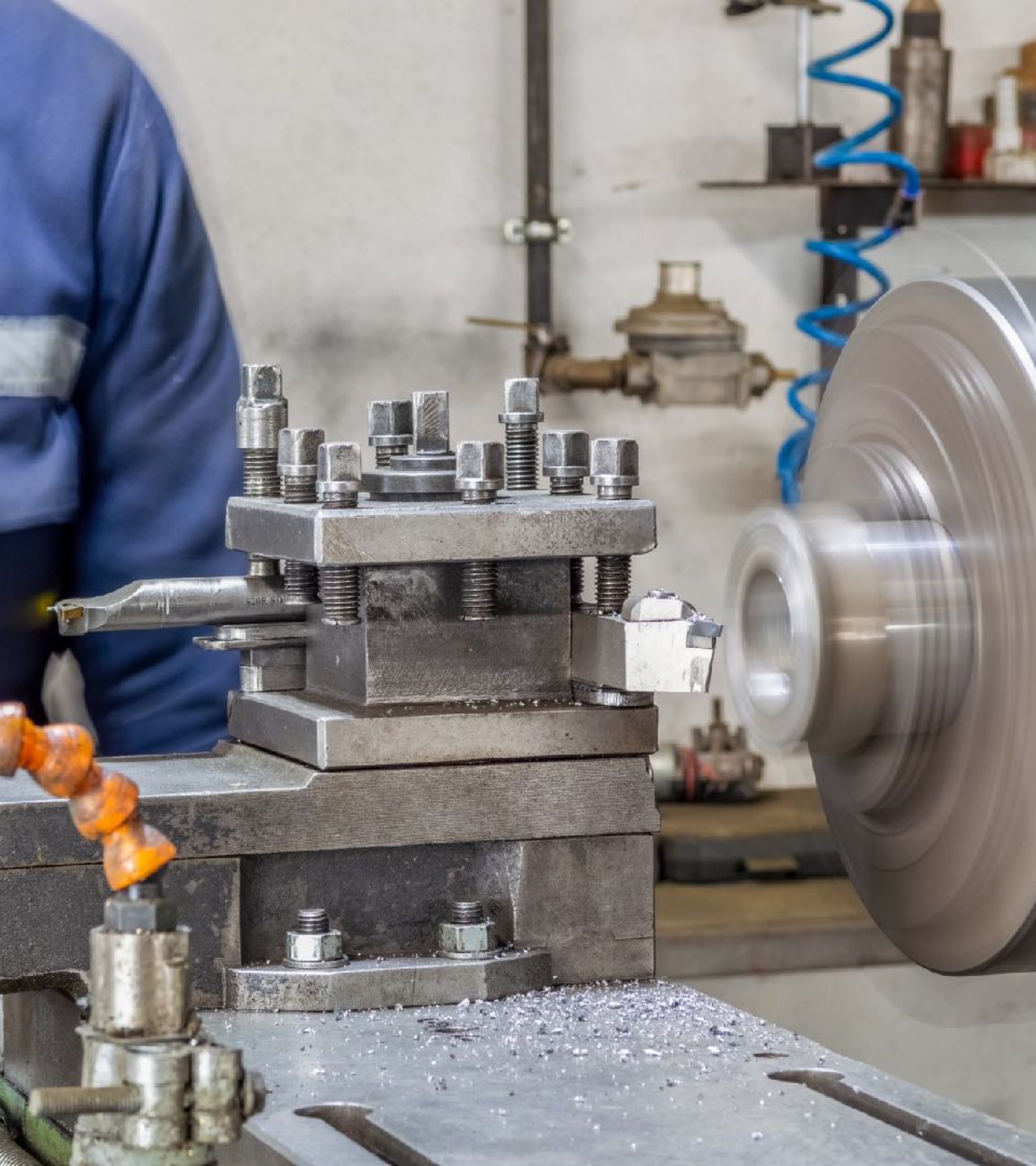
Internet of really big things

OVERVIEW

Amada is a cutting-edge company, always looking for the most innovative technologies to add value to its offer. With over 6,000 customers and more than 3,500 running machines in Italy, Amada is one of the world's leading companies in producing and selling metal sheet processing machines.

Amada Engineering Europe chose beSharp to implement a centralized SaaS system for remote control, monitoring, and management of the fleet of machines.



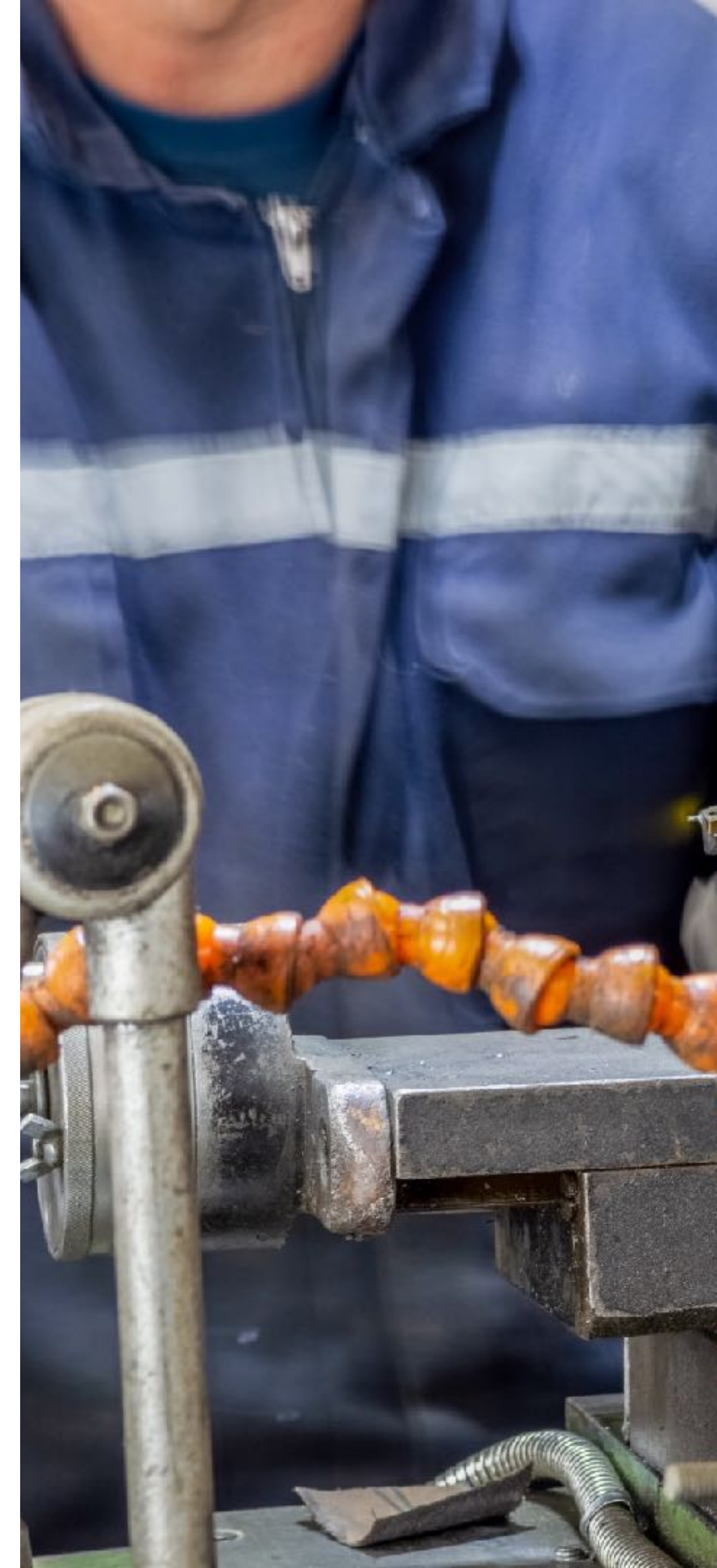


THE CHALLENGE

- Implementing a **centralized SaaS system** to monitor and manage machines remotely and keep control over customers' equipment.
- Introducing effective services and tools for **data collection, monitoring, and big data analytics**.
- Providing customers with **timely maintenance** and consulting to improve machines' performances and **quickly resolve disruptions**.

THE SOLUTION

- Creation of an **Industry 4.0 platform** based on Serverless services like **AWS Lambda** and IoT services such as **AWS IoT Core**.
- Implementation of a **real-time Big Data analysis** solution thanks to the use of **Amazon DynamoDB** for time series collection, **CloudWatch Logs**, and **Amazon OpenSearch** for logs aggregation and analysis.
- High-performing infrastructure built with **Amazon EC2**, **Amazon RDS**, and **Elastic Load Balancing**, together with **Amazon S3** and **Amazon Glacier** for long-term and low-cost data storage.





THE BENEFITS

- **Performance**

Thanks to the power of the Cloud, Amada Engineering Europe obtained a platform able to **store and process the great amount of data** from the running machines with no limits.

- **Centralization**

AEE's IT team achieved **full interoperability** between different roles and different environments (development, test, and production) through an interface for centralized monitoring and real-time data visualization.

- **Control**

Secure **Cloud-based backup** for all the machines' configurations and **remote firmware update** in push mode enabled.



“beSharp is a team of highly skilled AWS experts. They provided us with a rock-solid SaaS infrastructure able to support our business as a whole. By engaging this young, experienced team, we found a guide and a partner before than an expert services provider. A team we can always count on.”

Marco Cantoni

Product Division Manager @Amada

ABOUT BESHARP and AWS

Managing, archiving, and processing large amounts of information requires a robust and reliable system able to adapt to workloads constantly.

beSharp flanked Amada Engineering Europe to develop a tailor-made SaaS solution in line with the best practices of the Cloud and compliant with [AWS Well-Architected Framework](#).

By guiding AEE IT teams through an on-the-job approach, beSharp succeeded in helping the company to understand the new paradigm fully and to become independent in the management of the new environment.

