Zerynth

Robot System Automation

CASE STUDY
Remote Monitoring and 4.0 ready
machinery interconnection

- Industry 4.0

- Machine parameter monitoring

- Machinery 4.0 readt interconnection

- Tax Benefits 4.0

ROBOTSYSTEM
automation

Zerynth

DISCOVER HOW RSA BUNDLED THEIR MACHINES WITH ZERYNTH IOT TECHNOLOGY AND SAW BUSINESS SOAR.

<2 Months Deployment	+1 New Business Line	+15% Annual revenue increase

We absolutely couldn't believe that in less than 2 months we were able to open a new strategic business unit based on IoT technology that made us more competitive in the market. Thanks to Zerynth, it happened and the results we got are really impressive. All this at an extremely difficult time due to the Covid pandemic. We could not only stay in the market, but also extend our product line while opening up a new revenue stream.

Milena Angella, Project Manager e Software Engineer presso RSA Srl

Industry

Machinery Builders

Asset

Machinery for the production of face masks

The Challenges

In the postindustrial period, it is necessary for all businesses to be prepared for any and all challenges. And 2020, a time like no other, has demonstrated the level of companies' readiness to respond to the challenges, not only from the market, but from the world. Unforeseen global crises abrupt changes in economic, legal, work and technological parts of all businesses.

Covid-19 affected everyone and did not bypass RSA. Originally, the company focused only on innovative, automated production systems for the footwear industry, but at a certain point, they had to rapidly move in a **new business direction to stay competitive** in the market and to follow its rules of business during a time of total uncertainty.

RSA's challenge was to help a new customer needed surgical masks and Respirator Type KN95 masks to fight Covid-19. This meant RSA had to start producing "Industry 4.0-Ready" mask manufacturing machines, in order to **get fiscal benefits from the Italian tax program**, dedicated to companies that transform their industrial process to an "Industry 4.0" process. Therefore, RSA was keen to find a reliable Industrial IoT partner with high-quality products and technologies. Furthermore, from a technological position, it was necessary to implement a remote monitoring system for mask production machines. Additional requirements needed were measuring and controlling energy consumption, as well as estimating machine operation speeds in a cost-effective manner.
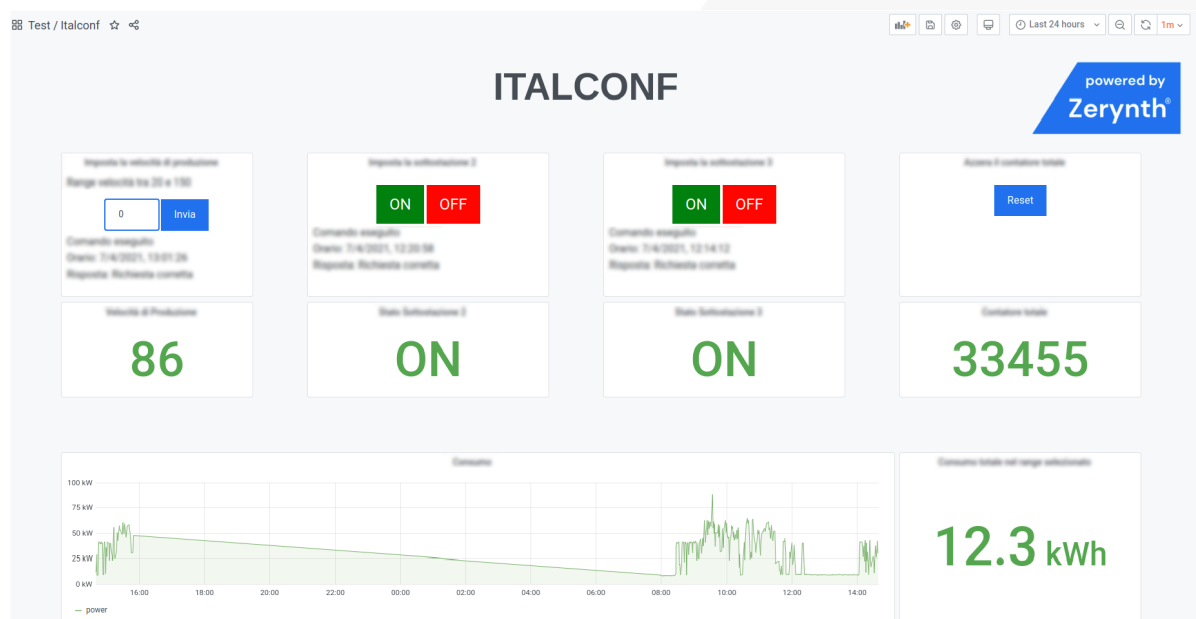
Zerynth

The Solution

The Zerynth team provided Robot System Automation with an IoT system developed to monitor the machinery parameters remotely for mask production.

The steady-state system architecture provides each machine with its own installed Edge Device. It allows monitoring heterogeneous data sources to collect machinery status data (on/off/waiting/production in progress), **estimate the energy consumption** of the machinery, and **control operating speeds**.

The acquired data from Edge Devices is processed locally by the acquisition units and sent to the Zerynth Platform, capable of:

·   managing all connected devices,
·   carrying out the temporal storage of collected data,
·   display of raw data and messages sent by individual devices,
·   organizing devices by workspace and fleets,
·   allowing downloads of historical data in CSV format,
·   exchanging data with the end-customer's management software.

Finally, the customer can control and monitor the system through dashboards, optimizing the process and significantly decreases operational costs by allowing remote control of the processes.

The Results

Increased Revenue
15% annual increase thanks to the new business offering
Increased Efficiency
reduction of maintenance costs and energy
Meet Compliance
100% compliance with Fiscal Benefits

Why RSA choose Zerynth?

RSA successfully completed its industrial optimization for a new business line thanks to its collaboration with Zerynth. The project is definitely a phenomenal uccess since, in only 2 months, Zerynth could transform RSA's technology to Industrial IoT and implement a remote monitoring system for its new business strategy.

During the implementation phase, Zerynth proved its leadership, demonstrated deep Industrial IoT experience and showed complete understanding of the requirements needed to optimize industrial automation sectors.

The development team successfully supported RSA at every step in the project, energizing their digital transformationjourney.
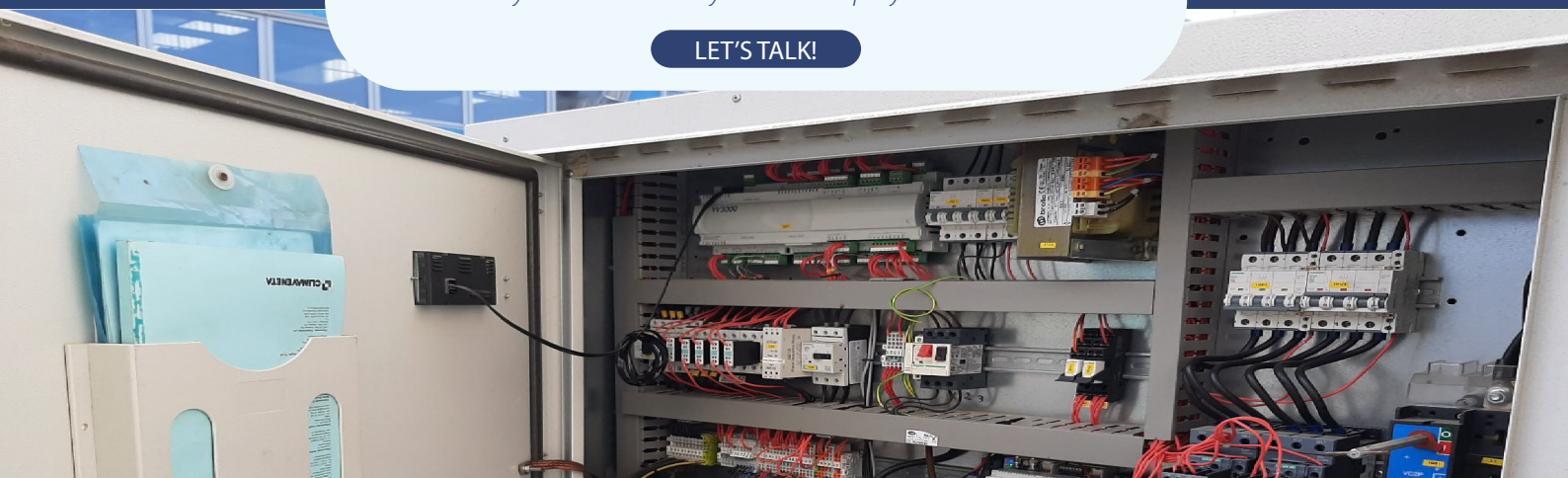
About Zerynth

Zerynth enables companies to streamline production processes and increase the value of connected industrial products. Through a plug-and-play IoT & AI platform, we connect any industrial machine, allowing for a complete 4.0 transformation quickly, flexibly, and securely.

Founded in 2015, Zerynth has grown steadily. Today it has 40+ team members with deep IoT expertise and industry knowledge with over 150 customers across many industries: from manufacturing to agriculture to energy to logistics. Zerynth is based in Pisa, Italy, but also is active in international projects, and foresees an expansion both in EU and non-EU countries during the next three years.

GET STARTED WITH ZERYNTH
Ready to see what Zerynth can do for your business?

LET'S TALK!