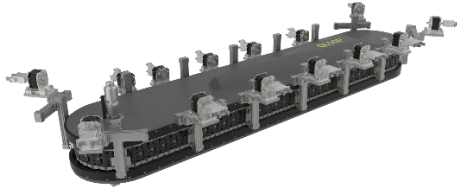




Polman® QLOOP® Technology



Status-Quo

We are product developers in the field of process automation with over 50 worldwide patents.

We are currently working on two business areas and product lines. We are the global leader in one and we want to commercialise the second.

What do we have?

A revolutionising QLOOP® technology with additional QLOOP® machines.

What can we do:

We can offer the process technology solutions for this in the front of line, line and end of line areas with this technology.

What we want:

We want this solution, which is in very high demand, to be manufactured and marketed for end customers worldwide.

What we offer:

We offer the patents, the relevant expertise, the experience, the tested and proven QLOOP® technology used, customer contacts, current customer enquiries and projects.

We offer market-introducing expertise for the next 3 - 5 years following the conclusion of the contract.

We offer licences and/or the purchase of QLOOP® technology.

Which industries:

The focus is currently on the pharmaceutical, beverage, food and sheet metal industries.



Market environment

- Robotics

The German robotics market has grown steadily in recent years, with the exception of temporary declines due to external factors such as the coronavirus pandemic. Globally, the market will expand significantly, with an annual growth rate **forecast of 10-15%** from 2022 to 2028. In figures worldwide to around **EUR 60 billion**. The most important market regions are Asia, Europe and North America.

- Automation technology

The market for automation systems of all kinds will continue to grow steadily over the next few years. It includes the sale of hardware solutions such as sensors, human-machine interfaces and robots. Automation systems at the software level are also included. QLOOP® robots will become part of this market. In figures, the market will grow to around **EUR 400 billion by 2029**.

- Packaging machines

The market for automated packaging machines offers good opportunities for future development. This is due to the continued strong growth in sectors such as the food industry, e-commerce, cosmetics and pharmaceuticals. The demand for fast and efficient packaging machines is also increasing accordingly. The QLOOP® can fulfil this demand perfectly. In figures, the market is expected to grow to around **EUR 53 billion by 2027**.

Current demand

1. In the area of end-of-line automation, we currently have **4 specific enquiries** from the sheet metal industry with a potential of approx. **3 million EUR**. In the next 3 years we expect a potential of approx. **40 million EUR**.
2. In the area of end-of-line automation, we currently have **1 concrete enquiry** from the food industry with a potential of approx. **12 million EUR**. Over the next 3 years, we anticipate a potential of around **EUR 60 million**.
3. In the area of quality control with our QLOOP® Inspector, we have a demand with our measurement technology company partner of approx. **60 - 100 machines** in the next 3 years and a volume of approx. **20 million EUR** and a potential of approx. **50 million EUR** in the next 5 years.



What are the goals, short-term, medium-term, long-term:

- **Short term:**

Licence and/or purchase agreement with one or more trustworthy strong business partners.
Our idea here is **8% licence** fee without time limit with dynamic adjustment to the sales figures and a minimum licence fee of **EUR 250k per year**
or a purchase price of **EUR 50 million**.

- **In the medium term:**

Transfer of technical knowledge and possible solutions with QLOOP® technology.
Realisation of the requested projects.

- **Long-term:**

Market penetration and establishment of QLOOP® technology in the various markets.
Secure and expand market share.