

# Lean Assembly Line



Intronic can help you to design and build the ideal Lean manufacturing line for your factory. Please send us your request or reach out to us with your questions. We are looking forward to hearing from you!

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### Basic Lean Frame



The Basic Lean Frame is made of aluminum extrusions and stainless steel formed sheets.

### Lean Material Frame



With the Lean Material Frame, it is easy to integrate a Kanban system to manage your supply, as well as optimize material flow and stock.

### Lean Assembly Frame



The Lean Assembly Frame is designed to optimize your process. Options: LED lighting, tool holders, material shelves, and more...

### Lean PC Frame



The Lean PC Frame can be used as a single PC station with a monitor holder and PC shelf or can be combined with any other lean frames. See examples below.

## Lean Line Configuration



Increase productivity, reduce waste, and improve efficiency with Lean manufacturing.

- Optimized workplaces increase product quality
- Stay current on your supply with integrated Kanban methodologies
- Slim processes increase flexibility for faster market responses
- Better processes lead to happier employees

## ***Semi-Automated pH Sensor Calibration and Quality Test Modules***



The semi-automated pH sensor calibration and quality test application stations are seamlessly integrated in the Lean sensor manufacturing line.

Three identical systems guarantee a consistent production task time and high availability due to repetition.

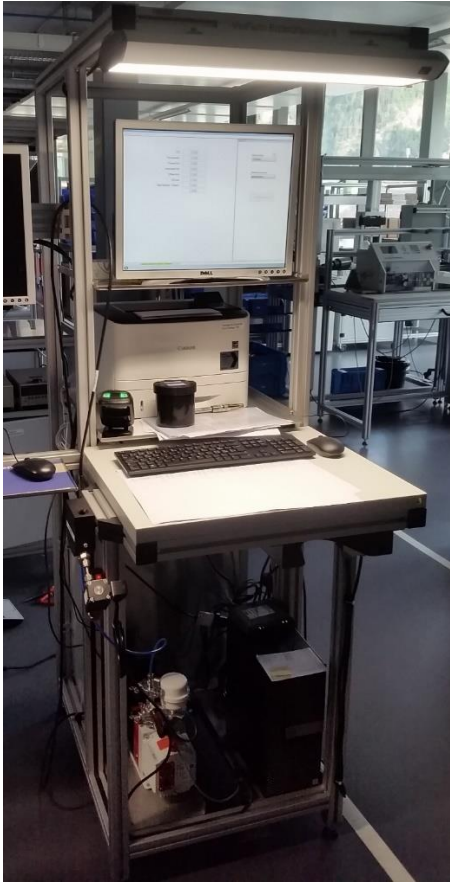
### Automation:

- Centralised work order management system
- Motion for two-point calibration (two different pH buffers)
- Configurable calibration and test processes. The process includes firmware update, data acquisition, and will create and print a certificate for quality verification and authentication

### Client:

- ❖ Hamilton-Bonaduz AG, Switzerland
- ❖ <https://www.hamiltoncompany.com/process-analytics/sensors/ph-and-orp-probes>

## Oxygen Sensor Calibration and Quality Test Station



The oxygen sensor calibration and quality test application station is seamlessly integrated into the Lean sensor manufacturing line.

The system aids automation by having a configurable calibration and test process, centralizing the work order management system, and controlling the vacuum pump.

Client:

- ❖ Hamilton-Bonaduz AG, Switzerland
- ❖ <https://www.hamiltoncompany.com/process-analytics/sensors/dissolved-oxygen>

## ***Automated Oxygen Sensor Calibration and Quality Test Station***



The automated oxygen sensor calibration and quality test application station is seamlessly integrated into the Lean sensor manufacturing line.

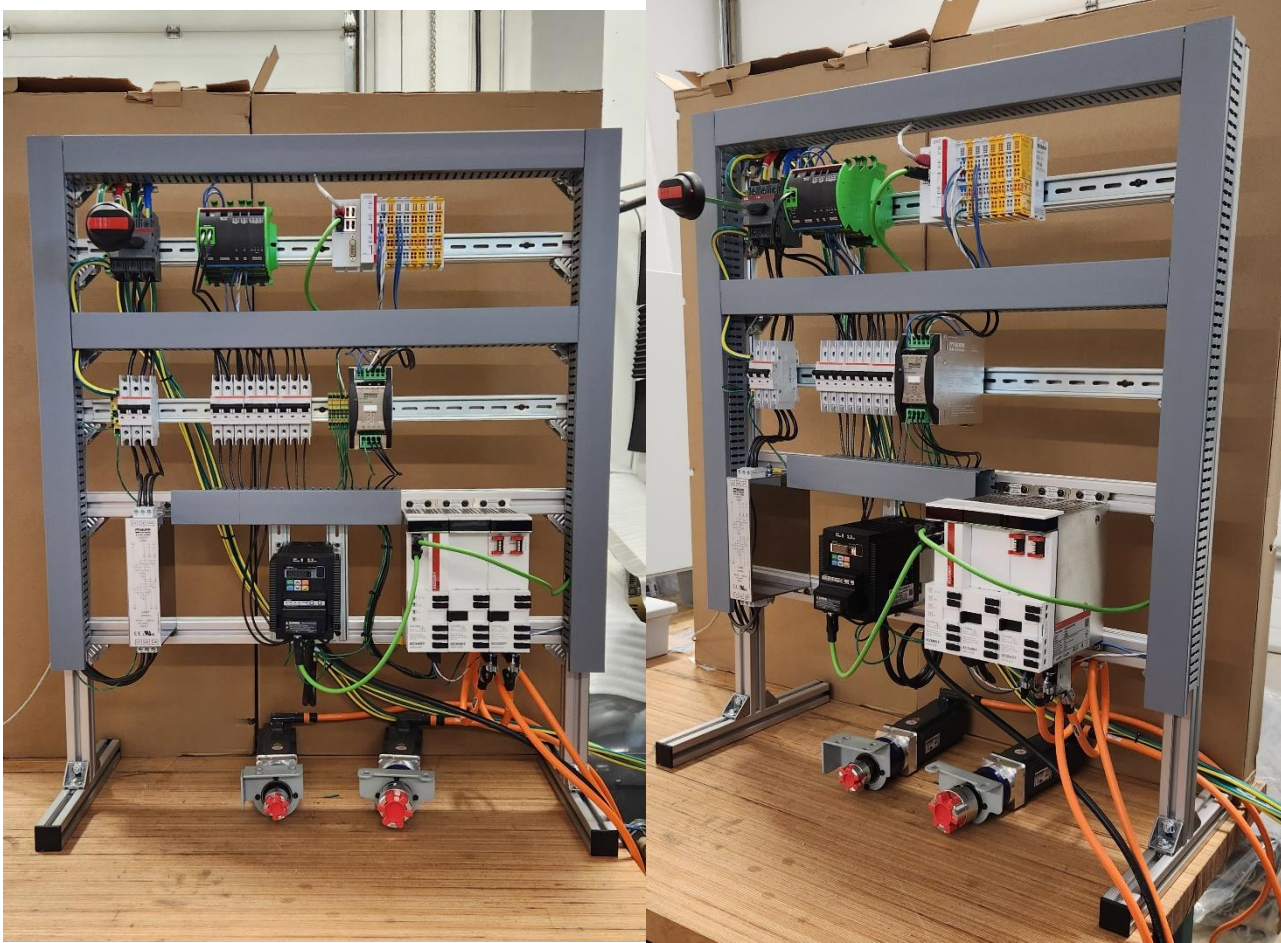
Automation:

- Work order management system
- Machine controlling
- Calibration and test process
- Digital multi meter controlling

Client:

- ❖ Hamilton-Bonaduz AG, Switzerland
- ❖ <https://www.hamiltoncompany.com/process-analytics/sensors/dissolved-oxygen>

## ***Integrating Bosch Products into Our Shop***



### **PLC Rack for Design and Training**

This is a simple PLC Rack design made of aluminum profiles and connection elements. It is used for PLC system design as well as training.



### **Cable Rack**

This is a movable rack that holds and organizes our cables in the shop. It is also made of aluminum profiles and basic connection elements.