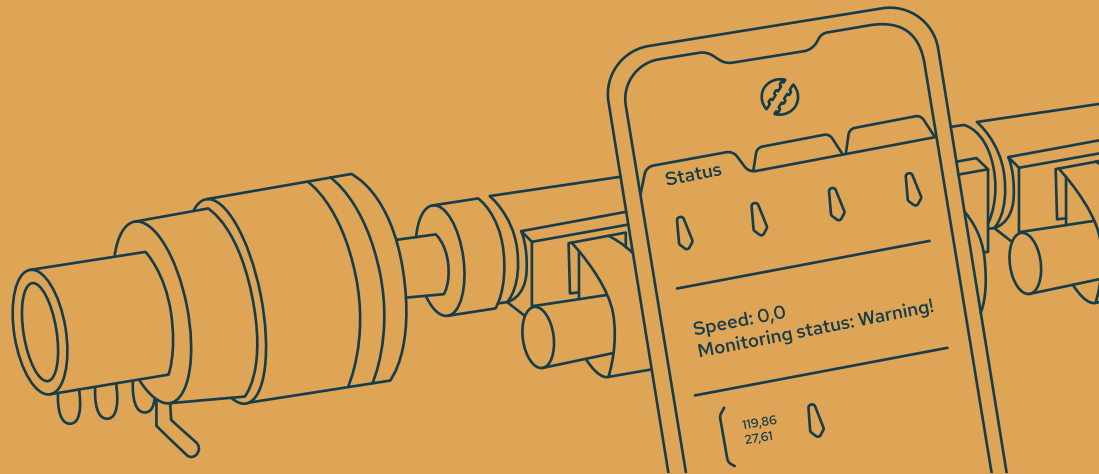


# EXTRUDER MODERNIZATION

Ensure reliability



**// They know the equipment and requirements of our industry. They always find the right approach.**

Jani Ojennus, Foreman of extrusion department at Amerplast Ltd

Keep your extrusion process under control and up to date. Modernization helps you keep up with the high demands of the plastics industry by effectively analyzing and using the gathered data. Automation and customization also increase occupational safety. We are experts in smart, automated and reliable solutions for pipe and blown film lines in various industries.

## LONGER LIFESPAN, BETTER USABILITY

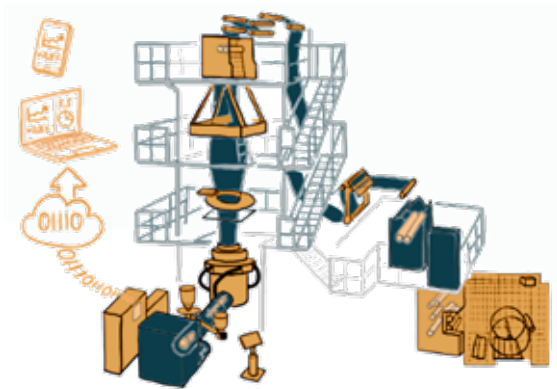
Modernization is a cost-efficient way to increase lifespan of your production line. Effective operating panels, control systems and frequency converters provide better usability.

## INCREASE PREDICTABILITY

Reliable equipment provides efficiency, ensures real-time monitoring and reduces surprises. Our reliable scheduling and extensive experience significantly reduce downtime.

## OPTIMIZED PERFORMANCE

We also help optimize the extrusion screw so you can get the most out of your extruder. Measuring and fitting a screw with exact geometry increases the screw dependability.



Instead of focusing only on updating automation systems, our modernization process also enables easier access to the data analysis of the devices. Data management allows accurate monitoring of the activity of the extruder. With the information gathered, we can monitor the functions of the equipment and prepare for issues. With our expertise and various operations, we provide the best dependability and productivity for your extruders. Our experts will help you decide which parts of the unit to modernize. Improvements in safety and dependability are important to us, as well as in customer satisfaction.

Careful planning and extensive experience significantly reduce downtime. Our strength is the preparation of reliable downtime forecasts and the scheduling of projects according to your wishes. We provide a customized plan for disassembling, installation, testing and commissioning. Thanks to the data gathered and our process experience, our predictions are reliable, and the work is completed on time.

## HOW IT'S DONE

- 1 Data and structure analysis**
- 2 Redesign & development plan**
- 3 Implementation with minimized downtime**
- 4 Production testing**

## EXAMPLE CASES

### Blown film customer

#### 1. Increase production

Modernization of automation system for cast film line.

#### 2. Increase performance and energy efficiency

Modernization of automation system, new haul-off unit and new gravimeters for 7 layer blown film line.

Modernization of automation system and main motor change from DC to AC for 8 layer blown film line.

### Pipe line customer

#### 1. Increase production

Modernization of automation system for solid wall pipe line.

#### 2. Increase performance and energy efficiency

New gravimetric control for corrugated pipe line main extruders.

**extron**  
architects of extrusion

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