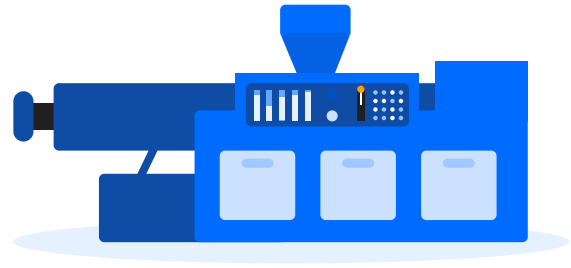


# Applications Case Studies

## Plastic Extruders



### Problem

A major German pipe producer had issues with excessive wear of the extruder twin-screws. Maintenance was carried out once per year at regular intervals. Errors in between the intervals were not caught, leading to excessive unplanned downtime.

**Up to €120k cost per unplanned extruder failure.**

### Solution

- 12 AiSight sensors were installed on 6 extruders (1 on the motor, 1 on the screw).
- The complete launch of the solution took approximately 3 hours (15 min/sensor). Right after, all machines were visible in the online dashboard.
- After calibrating the algorithms to the machine-specific conditions for 1 week, the AiSight software was ready to alert the customer of upcoming errors.

### Outcome

Over €500k of unplanned downtime saved in the first year.

Machine availability increased by 12% leading to an improved OEE.

Measured employee stress factor reduced from 40% to 10%.

Rollout from 1 production hall with 6 machines, to the companies remaining 3 production halls.