

CASES: NO UNPLANNED BREAKDOWNS

GRUNDFOS iSOLUTIONS



In partnership with



Case studies showing how companies are increasing uptime and decreasing cost by using predictive maintenance solutions to monitor assets and predict failures.

be
think
innovate

GRUNDFOS 

SAY GOODBYE TO UNPLANNED BREAKDOWNS

With predictive maintenance solutions such as Grundfos Machine Health, unplanned breakdowns are a thing of the past. This collection of real-world cases shows how asset owners and operators are using predictive maintenance solutions to monitor the performance and health of their critical assets, predicting failures before they occur.

Proven results and fast ROI

Industry intelligence indicates that using predictive maintenance solutions could help you achieve the following:

- increase uptime by 45%
- reduce breakdowns by 75%
- lower maintenance costs by 30%
- reduce energy consumption by 20%

As a result, you can achieve ROI very quickly; several companies have done so within months of deployment.

We hope this collection of case studies will inspire you to find new ways of eliminating unplanned breakdowns with predictive maintenance.

TABLE OF CONTENTS

Top beverage companies.....	4
Global CPG companies.....	6
Food & Snack companies	8
Pulp & Paper companies	10
Leading Water Bottler	12



**Top beverage company
avoids 54 hours of downtime
in just four months**

5 OF THE TOP 6 global beverage companies are realizing their digitization objectives and quick Time-To-Value with the technology behind Grundfos Machine Health.

Through actionable, transparent insights, partners see program payback within months of deployment. Every customer is guided through their unique business case and asset analysis to highlight the potential bottom-line impact that they can expect to see with Grundfos Machine Health.

€240K

COST AVOIDED

Cost avoided from catastrophic failure during first year of deployment

Leading Bottled-Water Producer

€170K

PRODUCT LOSS AVOIDED

Product loss avoided in first month of deployment

Multinational Beer Bottler

54HRS

DOWNTIME PREVENTED

Downtime prevented within four months of deployment

Soft Drink Beverage Company

Grundfos Machine Health diagnoses the beverage industry's most critical assets

- Blow Molders
- Cappers
- Chilled Water Pumps
- CIP Pumps
- Compressors
- Condenser Pumps
- Cooling Towers
- Distribution Pumps
- Fillers
- Labelers
- Mix Pumps
- Nano-Skids
- RO Pumps
- Seamers
- Supply Pumps
- Well Transfer Pumps



This is unlike any other digital solution. After just a few months the program had already paid for itself.

*Plant Manager,
Leading Beverage Company*



**Global CPG company
reduces costs by €609,000
in a single year**

Some of the world's leading Consumer Packaged Goods (CPG) companies are realising their digitisation objectives and elevating their reliability programs with the technology behind Grundfos Machine Health. Through actionable, transparent insights, these companies see program payback within months of deployment. To ensure success, every customer is guided through its unique business case and asset analysis to highlight the potential bottom-line impact that they can expect to see with Grundfos Machine Health.

€609K

COST AVOIDED

Total cost avoided
in year one

Multinational infant formula maker

€180K

DOWNTIME COSTS AVOIDED

Downtime costs avoidance within
4 months of deployment

Leading CPG Company

1600

MACHINES

Global digital machine
health installations

Global Hygiene and Health Company

Grundfos Machine Health diagnoses the CPG industry's most critical assets

- Air Compressors
- Ammonia Compressors
- Chilled Water Pumps
- CIP Pumps
- Circulation Pumps
- Compressors
- Condenser Pumps
- Conveyor Lines
- Cooling Towers
- Distribution Pumps
- Extruders
- Gas Compressors
- Labelers
- Mixers
- Packers
- RO Pumps
- Screw Compressors
- Servos
- Supply Pumps
- Vacuum Pumps



The operation insights & mechanic data analysis has without question improved our operations. This solution finds the issues before the issues find us.

Line Manager

Leading Diaper Manufacturer



**Food & snack companies
achieve Time to Value in 3
months on average**

Some of the world's largest food and snack companies are realizing their digitisation objectives and quick Time-To-Value with the technology behind Grundfos Machine Health. Through actionable, transparent insights, these companies see program payback within months of deployment. To ensure success, every customer is guided through its unique business case and asset analysis to highlight the potential bottom-line impact that they can expect to see with Grundfos Machine Health.

162 HRS

DOWNTIME AVOIDED

hours of downtime avoided within
6 months of deployment

Leading Snack Producer

€60K

DOWNTIME COSTS AVOIDED

Downtime costs avoidance
within 2 months

Leading potato chip maker

3 MOS.

TIME-TO-VALUE

Average
Time-To-Value

Food, Snack, Beverage Partners

Grundfos Machine Health diagnoses the food industry's most critical assets

- Ammonia Compressors
- Chilled Water Pumps
- CIP Pumps
- Circulation Pumps
- Compressors
- Condenser Pumps
- Conveyor Lines
- Cooling Towers
- Distribution Pumps
- Extruders
- Labelers
- Mixers
- Packers
- RO Pumps
- Screw Compressors
- Shakers
- Supply Pumps
- Spiral Freezers

“

We are saving thousands of dollars by preventing downtime with this program.

*Corporate Reliability Manager
Leading Snack Company*



**Pulp & paper company
achieves ROI within 6 months
of deployment**

Some of the world's largest pulp and papers companies are realizing their digitization objectives and mitigating costs with the technology behind Grundfos Machine Health. Through actionable, transparent insights, these companies see program payback within months of deployment. To ensure success, every customer is guided through their unique business case and asset analysis to highlight the potential bottom-line impact that they can expect to see with Grundfos Machine Health.

2X

ROI

ROI within six months of deployment

*Leading Consumer
Packaged Goods Company*

€83K

DOWNTIME COSTS AVOIDED

Downtime costs avoided
in 2.5 months

Global Consumer Products Company

1600

MACHINES

Global digital machine
health installations

Global Hygiene and Health Company

Grundfos Machine Health diagnoses the pulp & paper industry's most critical assets

- Ammonia Compressors
- Agitators
- Blenders
- Chilled Water Pumps
- CIP Pumps
- Circulation Pumps
- Compressors
- Condenser Pumps
- Conveyor Lines
- Distribution Pumps
- Forming Rolls
- Presser Rolls
- Pulpers
- Reel Drums
- Refiners
- RO Pumps
- Stretch Rolls
- Supply Pumps
- TAD Exhaust Fans
- Yankee Hood Dryers
- Yankee Fans



I find myself asking how much could we have saved if we started earlier?

*Manufacturing systems specialist
Global Hygiene and Health Company*



Major bottling plant saves 7.35 million water bottles from failure

The Grundfos Machine Health solution uses AI and industrial-grade sensors to monitor critical assets at one of America's leading bottlers, ensuring machines are running their best.

Time-To-Value during crisis time

In the midst of holiday season at one of America's leading bottling plants, a mechanical fault had begun to form within a filler motor on the line producing its most popular product. The external service team was using a continuous and portable diagnostics solution – the technology behind Grundfos Machine Health – to monitor the plant. Within days of the diagnosis, the problem had escalated to near failure-levels. The service team immediately contacted the plant, which confirmed bearing failure was imminent. Given the advance notice, the team was able to proactively fix the motor during planned downtime, preventing catastrophic failure of the filler. The repair took only 8 hours to complete.

€240K

TOTAL AVOIDED
COST

5 DAYS

TOTAL DOWNTIME
PREVENTED

7,350,000

BOTTLES OF WATER
PROTECTED FROM FAILURE

Faults Identified

Bearing wear, rapid deterioration, gear friction

Downtime Costs Calculations

- €1700/hr – cost of downtime per hour
- 3 days – lead time to get motor
- 2 days – time to replace motor if it had unexpectedly failed
- 60k – bottles of water filled per hour

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The fault would have not been identified without this solution. We got to the problem immediately, planned the repair during planned downtime, and saved our most popular bottling line from certain failure.

Corporate Maintenance Manager

WANT TO ELIMINATE UNPLANNED BREAKDOWNS?

Contact us if you would like to talk to one of our experts about how Grundfos Machine Health can help you predict failures and keep everything running.

www.grundfos.com/pleasecallus