

CASE STUDY FOOD & BEVERAGE

ACQUA SANT'ANNA

Acqua Sant'Anna was founded in 1996 as the main brand of the company Acqua Sant'Anna S.p.A. The newly established plant marked an incomparable excitement out of which emerged the first Acqua Sant'Anna bottle. At first a water reserved to the few who challenged the mountains, yet it would reach the tables of all the Italians.

The dedicated bottling lines are fully automated, each one capable of producing all bottle sizes from 0.25 to two liters (speeds from 54,000 up to 81,000 bottles per hour). The plant's entire production capability has a potential of about 3.5 billion bottles/year.

"Still today, whenever I can, I walk to the Sant'Anna spring. I sit by the waterfall, quench my thirst, in silence marvel at it. I reminisce about the wonderful history, steeped in dreams and labors, that has made Acqua Sant'Anna the company it is today, and staring at the horizon, I imagine what it will be tomorrow."

A. Bertone - Chairman & CEO of Acqua Sant'Anna S.p.A.

OBJECTIVES

The objective of the project is to install an MES system for sixteen bottling production lines in order to support: the progress of Work Orders, the analysis of the causes of breakdowns/downtimes, the processing and analysis of Line KPIs and OEEs, preliminary set up and quality control procedures using the system's Check List, and the integrated management of asset maintenance.

All the above, aiming at a paperless management of the production, from order plan exposure to a user friendly control and conduction of their progress, also supported by the automatic acquisition of both Production Data and the most significant process variables, through a direct interface with the machines and the production lines.

SOLUTION

The implemented solution, which is based on the verticalization of the sedApta Suite modules

- » Shop Floor Monitor
- » Analytics
- » Check List

and integrated with the local ERP system, plans to:

- » Ensure reliable and timely Production Data
- » Have an automatic process for detecting downtime and its related causes
- » Optimize line operations management through digitalization of production and quality processes by removing paper documents
- » Have dashboards and reports for real-time and historical analysis of Production Data
- » Monitor line efficiency and performance through the processing and production of KPI and OEE reports.



COMPANY
ACQUA SANT'ANNA



SECTOR
FOOD & BEVERAGE



SIZE
1 PLANT
16 PRODUCTION LINES
51-200 EMPLOYEES



TURNOVER
350 MLN € (2020)



SEDAPTA MODULES
SHOP FLOOR MONITOR
ANALYTICS
CHECK LIST



A second project phase related to the implementation of the maintenance management product, **Smart Asset Management**, is planned to manage and set up scheduled and corrective maintenance activities of plant assets.

BENEFITS

Through the use of the sedApta solution, Sant'Anna achieved the following benefits:

- » In general, an opportunity for the beginning of a Change Management process in the operational area on production lines
- » Operational management of production lines and control of Work Orders progress from onboard operator terminals, in a "user friendly" mode (Order List, Status, Breakdowns, Qty produced, Check List Notifications, Stoppages Randomization, ...)
- » Paperless management of production to support both the efficiency of information flows and the availability of timely, objective and correlated data for their effective analysis
- » Capture machine/line downtime and its causes, allowing detailed and objective downtime analysis to support a corrective strategy on causes

- » Management of Production Quality Controls and set up actions on Lines, supported by Check Lists, to execute predefined procedures, retrieved by operator or automatically by the system and archived for later analysis

- » Processing and analysis environment for Production and Process Data, through tabular, graphical and dashboard representations (Pareto, KPI, OEE,).

