

International Pasta & Flour Manufacturer Speeds Training By 2 With Glartek's Platform



Overview

Manufacturers face a series of difficult issues these days. For one, they must compete with overseas producers who manufacture at lower costs. For another, the aging workforce requires that young, bright but inexperienced replacements are quickly "trained up".

It has typically taken 20-30 years to train a new hire to fill **high-level manufacturing jobs**. Faced with the challenges above, manufacturers realize they must provide more effective training to condense this training cycle.

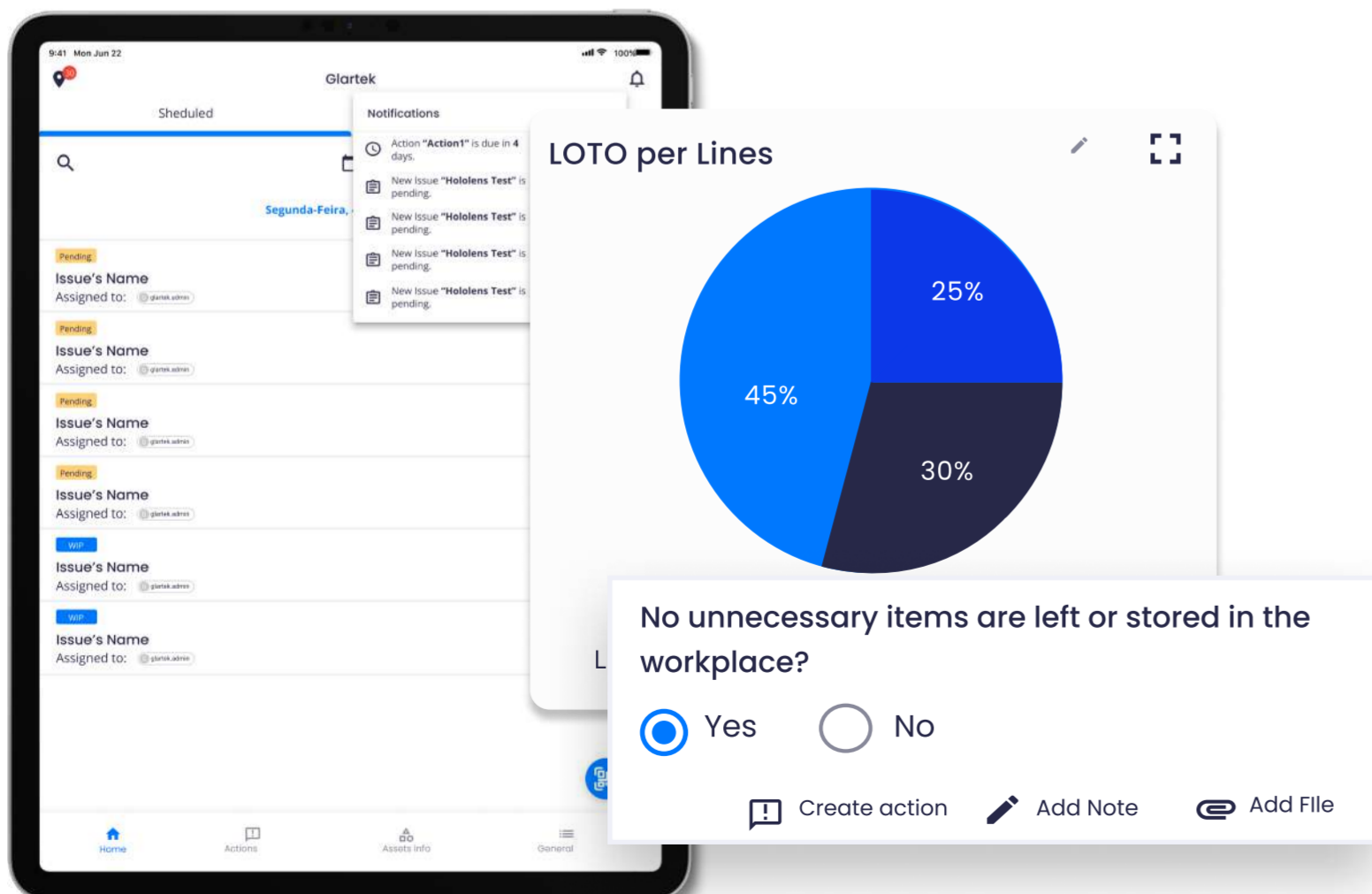
Glartek has been addressing the issues above by combining front-end Automation tool using Augmented Reality with a robust backend cloud-based Automation platform, AI and digital twin capabilities. The platform transforms data into valuable outputs to guide professionals and support their operations with AR.

International Pasta & Flour Manufacturer

The leader company has been growing for more than a 100 years. It is one of the largest Portuguese groups dedicated to industrial and commercial activity in the agri-food sector. The agri-food leader has a strong presence in Portugal and is an international reference present in 5 continents.

The company is a leader in pasta and industrial flours, complementing its range with culinary flours, biscuits, breakfast cereals and cereal bars.

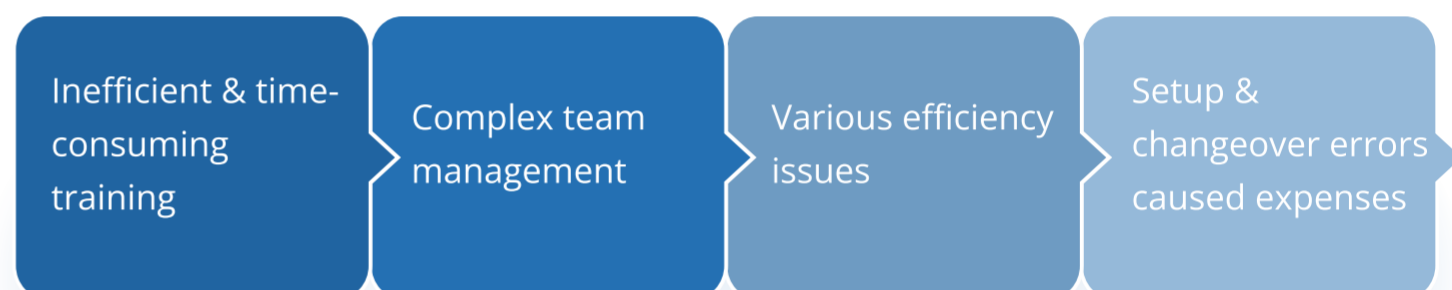
The company employs 670 employees, produces more than 130 different product categories, and annually transforms more than 440 thousand tons of cereals in the 5 certified production centers.



Challenge

By providing more than 130 product categories each day, changeover processes are frequent and must always be ensured at its best in the shop floor. Changeovers from the assembly line are processes used to prepare one assembly line from producing one product, to another one.

Therefore, in a company like this one, this must be fast and workers must be extremely competent in doing this operations. Otherwise, downtime and errors frequently happen.



Solution

In summary, the solution was implemented in two fronts. The first, was to focus on a more productive training procedures with digital tools such as digital process twins, elearning and Augmented Reality.

Secondly, the Augmented & Connected Worker platform was implemented on the shopfloor. This quickly helped any worker, with less or more experience, to execute the changeovers correctly, without any additional training. The worker was just guide throughout the procedure with 2D and Augmented Reality (AR) workflows and instructions.

- 1 Digitization of on-the-job training
- 2 Digitizing shop floor processes with instructions, validation and tests
- 3 New mobility patterns & support tool to increase workers skills
- 4 Management and monitoring of operation skills



Benefits

By applying new digital tools to training, and releasing front-line workers to the field earlier than before, the company was able to highly reduce the changeover process training time and dependencies of specialists.

35%

Training time reduced

Due to new digital tools and the no longer need to have fully prepared workers to go to the field, training time was reduced by 35%.

12%

Reduction in dependencies

Front-line workers are now less dependent on the most experienced workers, or specialists to execute the changeover.

20%

Reduction in error

Real-time guidance, and more accurate training sessions provided by digital process twins, errors were reduced by 20%

50%

Changeover time reduced

The above mentioned changes have allowed a much faster changeover process that affect the overall performance of the company



Next Steps

1.

Any interaction done remotely with the mother company (eg, training, meetings, ...)

2.

Expand the Augmented & Connected worker to the entire facilities and other processes

3.

Implement Visual Remote Assistance to work with the whole value chain more efficiently

“ We talk about automating operations, about people, and about new business models [...] Wrapped inside those topics are data analytics, technologies, and software – all of which are enablers, not drivers. ”

(Jim Swanson CIO at Monsanto)

ABOUT US

Glartek, founded in 2017, is a leader in Augmented Reality (AR) solutions for the Manufacturing and Asset Intensive Industries and our mission is to increase the efficiency and safety of operational processes. Our software solutions combine the AR and Internet of Things domains to bring visibility, optimization, and reassurance to field operations. Glartek has offices in Lisbon and Leiria, Portugal, has very large customers such as EDP and Renault, and has raised over €1.5M in venture capital.

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