



The Tetra Pak® Plant Care agreement helps Brazilian dairy producer increase Production Time Utilisation by 26% in 9 months



Customer

A dairy producer in Brazil.

Challenge

The customer needed to reduce breakdown frequency and increase equipment uptime. Moreover, it was essential to eliminate cases of unsterility.

Solution

An analysis of operations determined that maintenance procedures were insufficient. A Tetra Pak® Plant Care agreement was put in place, with the emphasis on preventive maintenance. This was combined with an employee recognition programme.

Results

In nine months PTU (Production Time Utilisation) increased from 66% to 92%, and LMME (Line Machine Mechanical Efficiency) went from 75% to 97%. This improvement was sustained, along with reductions in total operational costs, packaging material waste, maintenance costs, and freight for urgent spare parts deliveries.

Customer challenge

Equipment performance was low on the main production line due to frequent breakdowns. The customer needed to find out the root causes, in order to prevent breakdowns and increase PTU (Production Time Utilisation) and LMME (Line Machine Mechanical Efficiency). The customer also wanted to reduce associated maintenance costs, utilities, packaging material waste, labour costs and freight for urgent spare parts deliveries. In addition, it was essential to eliminate an average of three unsterility cases per year.

Our solution

The solution started with an analysis of operations at the customer plant. This study showed that maintenance procedures were insufficient, leading to equipment breakdowns. The solution was a Tetra Pak® Plant Care agreement, a long-term maintenance agreement that included several Tetra Pak® Maintenance Services offerings, with the emphasis on Preventive Maintenance. In addition, a friendly contest between production teams was introduced as part of an employee recognition programme.

Results achieved

The production line started out as one of the lowest-performing Tetra Pak lines in the cluster, but within nine months it had become the most efficient line in the Americas and the third most efficient line in the world. In this time PTU increased from 66% to 92%, and LMME went from 75% to 97%. At the same time, the annual number of unsterility cases fell to zero, and packaging material waste was reduced from 3.0% to 0.6%. These improvements have been sustained, resulting in 18% operational cost reduction per year.

A dairy producer in Brazil.

Challenge: How to reduce breakdown frequency and increase equipment uptime, and at the same time reduce unsterility cases.

Solution: A Tetra Pak® Plant Care agreement was put in place, with the emphasis on preventive maintenance.

66% → 92%

PTU (Production Time Utilisation)

Zero

Number of unsterility cases per year

3.0% → 0.6%

Packaging material waste

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