Automated Systems
Optimisation
The opportunity:

It’s both a simple truth and a harsh reality. Your huge investment in automated equipment won’t do you any good if it won’t accommodate the variability of reusable pallets.

The Automated Systems Optimisation solution from CHEP—the company that knows more about how pallets work with automated equipment than anyone else—can help you get the most out of your equipment and your entire supply chain.

It’s a simple, actionable way to gain capacity from your current assets and network.

It’s how you ensure that all your robotics and automated equipment are running in harmony with your shipping platforms.

It means more uptime, more capacity and fewer risks.

It means more efficiency, more throughput, more productivity and reduced product damage.

Best yet, Automated Systems Optimisation can help you both proactively and reactively. It allows you to fix any issues you may have and can prevent problems from happening in the first place.

The best way to eliminate downtime is to design out the possibility of error.

What we do:

Unfortunately, for many customers, equipment jams are a fact of life. They happen when equipment was designed without considering pallet dimensional and overall quality variability, which can create technical problems at critical interaction points.

CHEP’s Automated Systems Optimisation solution helps you optimise your supply chain within your manufacturing and warehousing processes. We’ll help to integrate our wide range of pallets with your automated equipment and absorb the natural variations of reusable pallets.

If you’re currently suffering from downtime, we’ll work with you to identify its root cause. If you’re installing new equipment, we’ll actually work with the equipment supplier, systems integrator and contractor to build in tolerances ahead of time.

Our application-engineering experts quickly identify areas of opportunity for cost savings. They’ll provide technical support, share best practices from our industry expertise and work with you to optimise your automated equipment and processes used throughout your supply chain.

In short, we’ll work with you to identify the simplest and most cost-effective engineering solutions that will improve your operational effectiveness. We’ll provide you with the technical support and know-how you need to improve both your throughput and your productivity.

Increasing capacity while decreasing downtime.

This is the Supply Change™.
Improving your automated systems.

1. Pallets shifting on conveyors

A customer experienced frequent conveyor jams caused by open sides. The open sides caused pallets to shift on the conveyor, necessitating shutdown and manual removal of the pallet. CHEP examined the conveyor and proposed adding minimally intrusive rails to the sides of the conveyor. This significantly reduced downtime by preventing pallets from shifting to an angle that would stop the conveyor.

2. Unjamming palletisers

A customer's palletiser had exposed rollers, chains and other obstacles that were causing jams. Jams had to be removed manually at great risk to employees. CHEP identified areas responsible for causing jams and proposed solutions to reduce jams. Custom plates were installed over problem areas, reducing jams and improving safety.

How we'll work together:

CHEP engineers have been inside and studied thousands of facilities, giving us unmatched experience and insights. Our time-tested ‘roll up our sleeves’ process includes four simple steps:

- We'll examine and document your current material-handling operations.
- We'll compile and review all pertinent data.
- We'll recommend modifications and upgrades for improved throughput, reduced downtime, reduced product damage and enhanced worker safety.
- We'll fully document our findings, form conclusions and present recommendations.

Kaizen Events:

Our Lean Six Sigma-trained professionals can help your company ensure that your systems are working in the most productive way. CHEP’s application-engineering managers are a unique team of experienced professionals. They have proven expertise in manufacturing, warehousing and distribution systems. Each service they perform follows a systematic Lean Six Sigma project methodology. These services provide cost-effective, practical solutions to suit your specific needs.

Global Good: Through Automated Systems Optimisation, we work with our customers to create safer work environments and more efficient systems. It’s all part of our Better Planet initiative, as we work to minimise the impact of the supply chain on the environment.
Real world ROI from Automated Systems Optimisation.

How you’ll benefit:

Regardless of the pallet type or spec, Automated Systems Optimisation with CHEP will help you:

+ See improved throughput and reduced downtime during production, palletisation, warehousing and distribution
+ Understand how all platforms work within your systems
+ Work closely with automated system providers to design new solutions for a single facility or your entire network
+ Analyse your supply chain from the moment platforms enter your facility until they leave your equipment

Only CHEP:

No one else has the broad experience in optimising automated systems and improving uptime that CHEP has. Our Lean Six Sigma-certified engineers have been inside thousands of facilities. They’ve learned and captured how every type of automated equipment works best with our wide range of platform solutions. We look forward to working with you.

A small investment often yields a big increase in uptime.

We showed a global beverage supplier how to save €187,700 by reducing downtime by 8,340 minutes.

<table>
<thead>
<tr>
<th>Before optimisation</th>
<th>After optimisation</th>
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<tr>
<td>5,970,000 minutes</td>
<td>630,000 minutes</td>
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<tr>
<td>Cost of all downtime: €5,750,000</td>
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Cost of pallet related events: €630,000
Amount saved: €187,700

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Downtime minutes

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60% reduction in downtime minutes and cost

We showed an ice cream maker how to save €103,000 by improving uptime by 75 hours per month.

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Automated Systems Optimisation.
Just one of many Consumer Goods Solutions from CHEP.

If you’re looking to improve your supply chain, let’s talk.