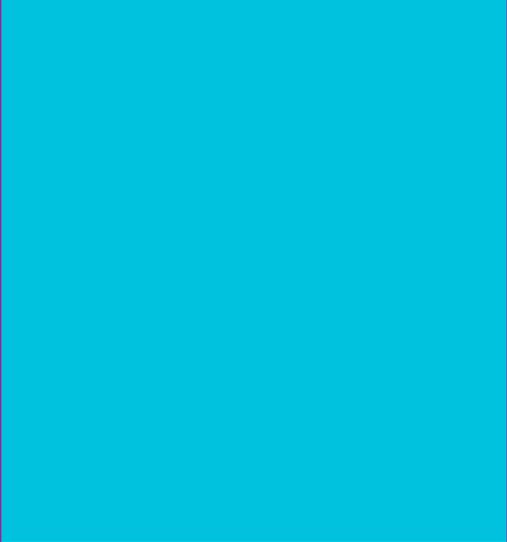
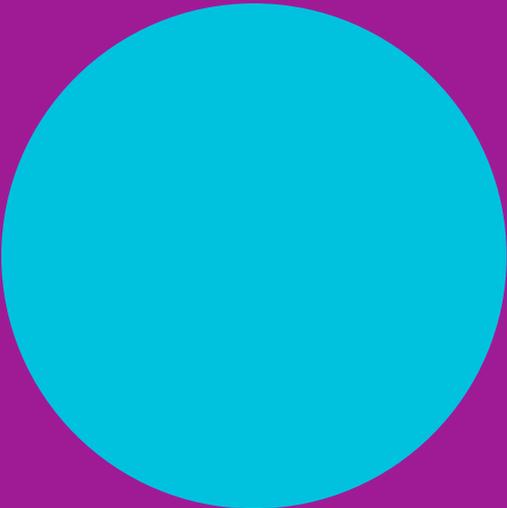
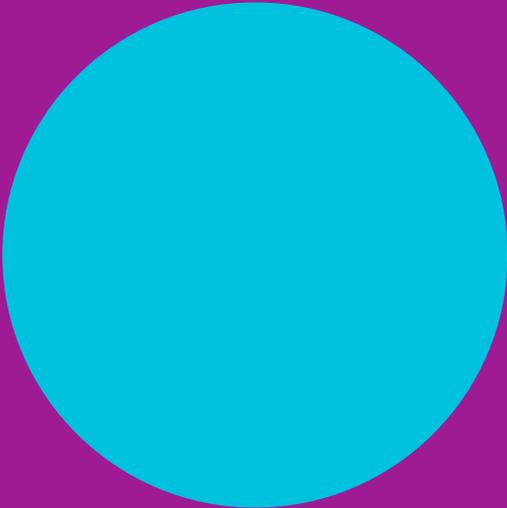
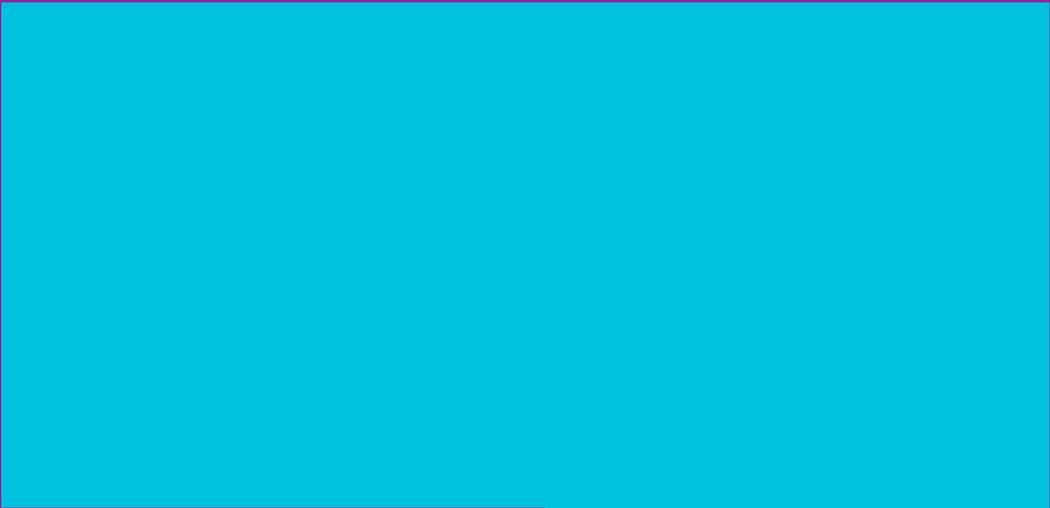
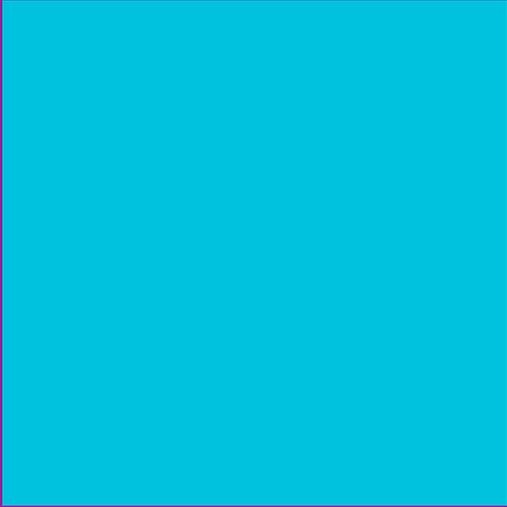
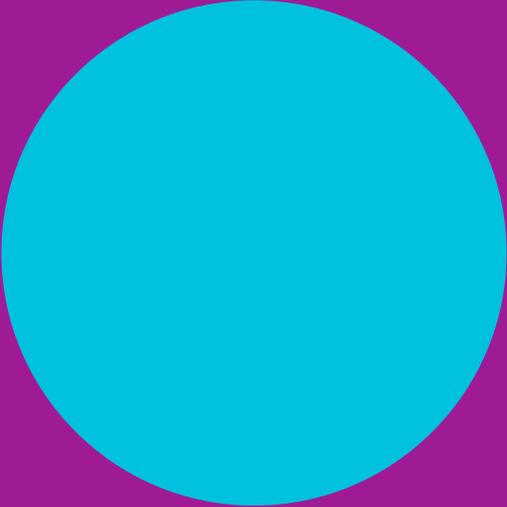


# Automated Systems Optimisation



## Increasing capacity while decreasing downtime.

### This is the Supply Change.™

#### 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 automated equipment is running in harmony with all of your various types of 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 helps you both proactively and reactively. It allows you to fix any issues you may have as well as 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.

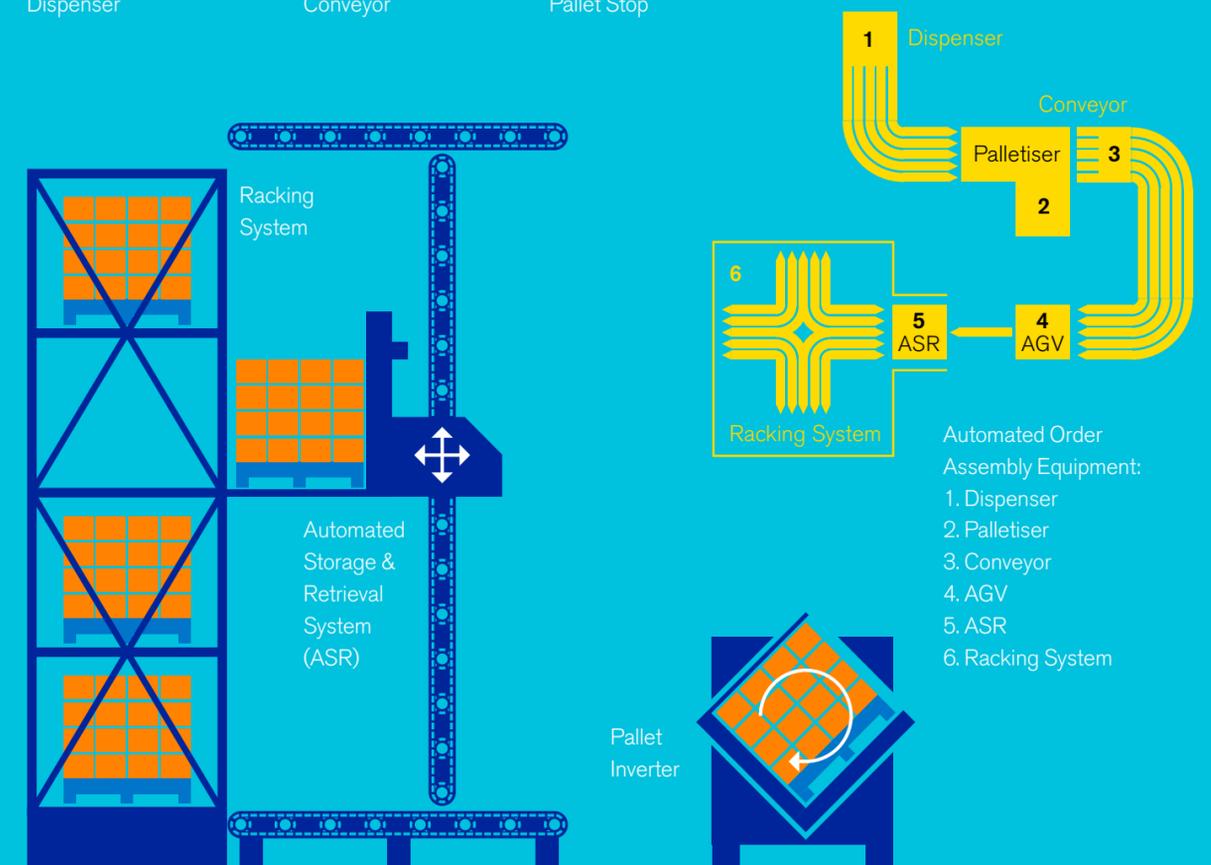
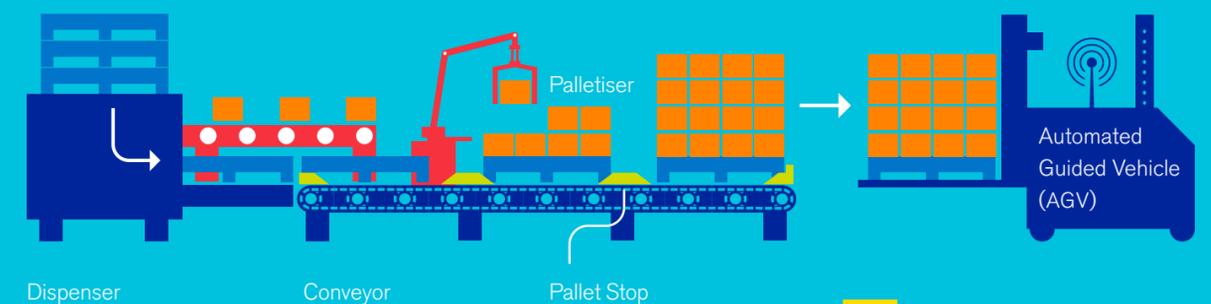
CHEP's Automated Systems Optimisation solution helps you optimise your supply chain within your processing and warehousing operations. We'll help to integrate our wide range of pallets with your automated equipment and absorb the natural variations of reusable pallets.

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.

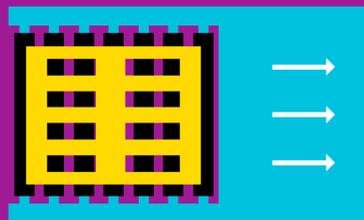
In short, we'll work with you to identify the simplest and most cost-effective engineering solutions that will improve your operational effectiveness. We'll provide you with the technical support and know-how you need to improve both your throughput and your productivity.

We can optimise any kind of automated equipment from virtually any vendor.

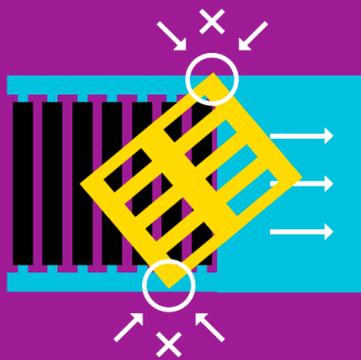


# Improving your automated systems.

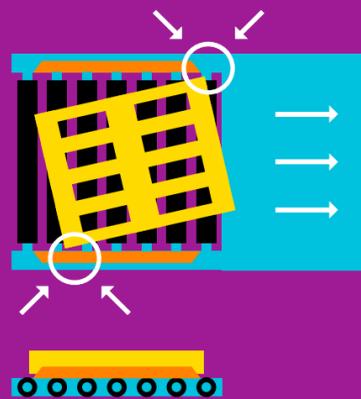
## 1. Pallets shifting on conveyors



A customer experienced frequent conveyor jams caused by open sides.

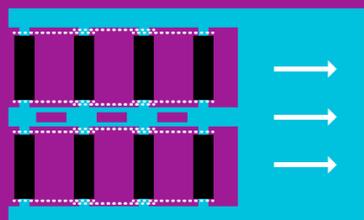


The open sides caused pallets to shift on the conveyor, necessitating shutdown and manual removal of the pallet.

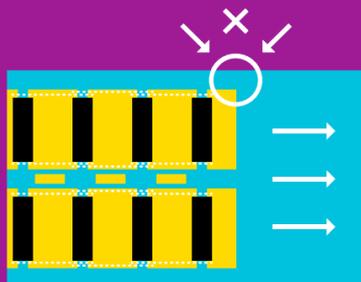


CHEP examined the conveyor and proposed adding minimally intrusive rails to the sides of the conveyor. This significantly reduced downtime by preventing pallets from shifting to an angle that would stop the conveyor.

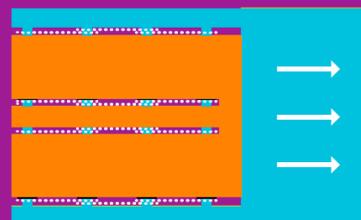
## 2. Unjamming palletisers and order assembly equipment



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:

Operational Review

We'll examine and document your current material-handling operations.

Statistical Analysis

We'll compile and review all pertinent data.

Optimisation

We'll recommend modifications and upgrades for improved throughput, reduced downtime, reduced product damage and enhanced worker safety.

Reporting

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 processing, 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.

**How you'll benefit:**

Regardless of the distribution platform type or spec, Automated Systems Optimisation 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:**

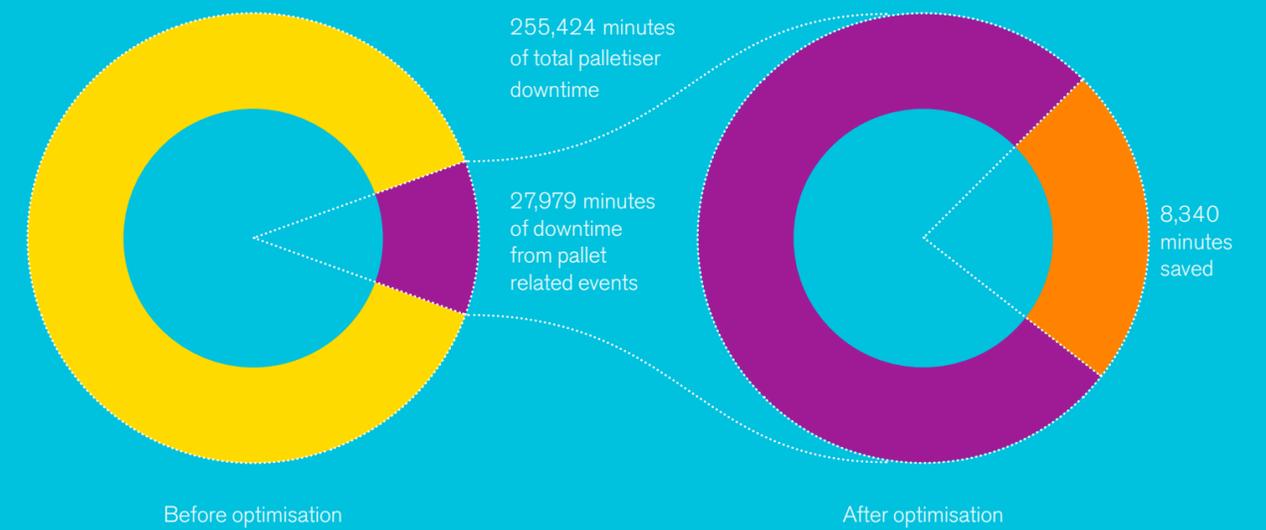
No one else has the broad experience in optimising automated systems and improving uptime that CHEP has. Our Lean Six Sigma-certified engineers have been inside thousands of facilities. They've learned and captured how every type of automated equipment works best with our wide range of platform solutions.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

A small investment often yields a big increase in uptime.

## Real world ROI from Automated Systems Optimisation.

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

Cost of all downtime:	€	5,750,000
Cost of pallet related events:	€	630,000
Amount saved:	€	187,700

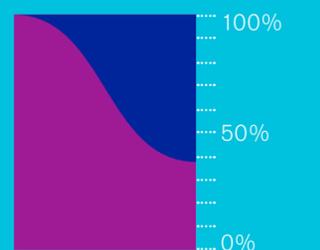


We showed an ice cream maker how to save €103,000 by improving uptime by 75 hours per month.

**Downtime minutes**



**Downtime cost**



60% reduction in downtime minutes and cost

**This is the  
Supply Change.**

**Together we can  
make it happen.™**

**CHEP**  
A Brambles Company

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

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

This brochure is printed on paper triple-certified  
in accordance with the leading sustainable  
forestry chain of custody certification bodies.

© CHEP 2016 · All Rights Reserved.

#### **Europe**

Weybridge Business Park  
Addlestone Road, Addlestone  
Surrey KT15 2UP  
United Kingdom  
Tel: +44 1932 833115

#### **North America**

5897 Windward Parkway  
Alpharetta, GA 30005, USA  
Tel: +1 770 668 8100

#### **Asia Pacific**

Level 6, Building C  
11 Talavera Road  
North Ryde NSW 2113  
Australia  
Tel: +61 2 9856 2400

#### **Africa, India & Middle East**

CHEP House  
7 Westville Road  
Westville 3629  
Durban, South Africa  
Tel: +27 (0) 31 267 9300

#### **Latin America**

Bld. Manuel Ávila Camacho  
Nº 24 Piso 23  
Lomas de Chapultepec  
11000  
México D.F.  
Tel: +52 (55) 8503 1100