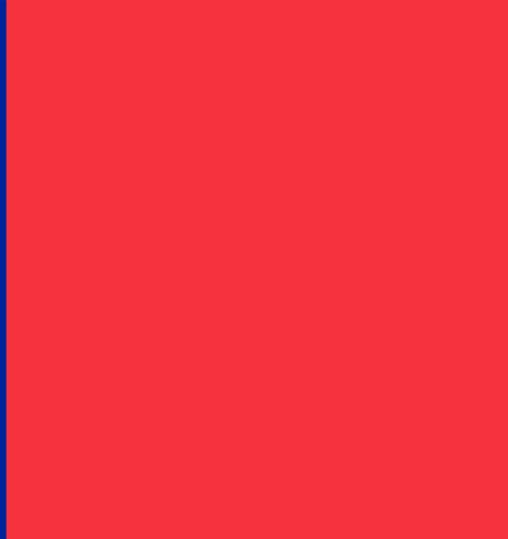
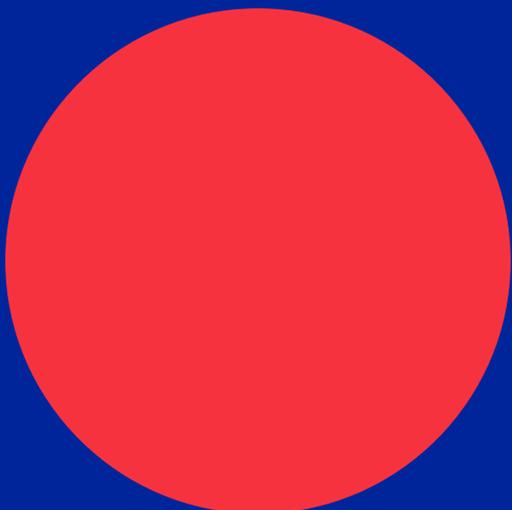
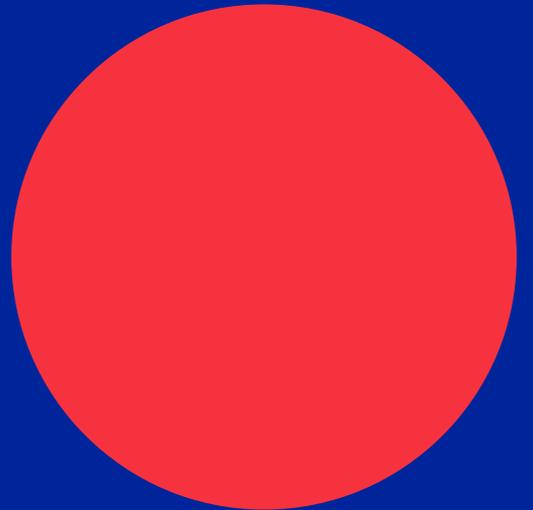
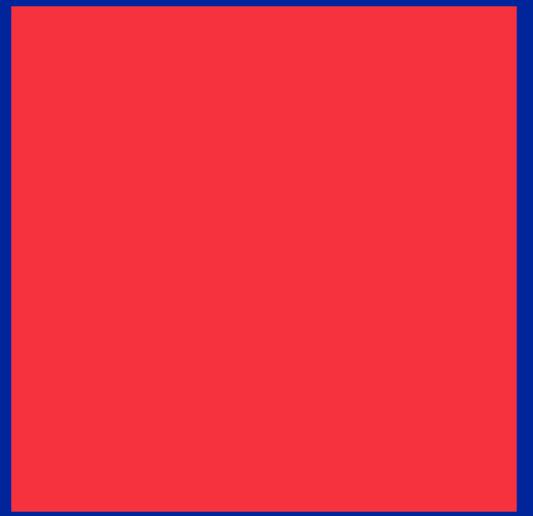
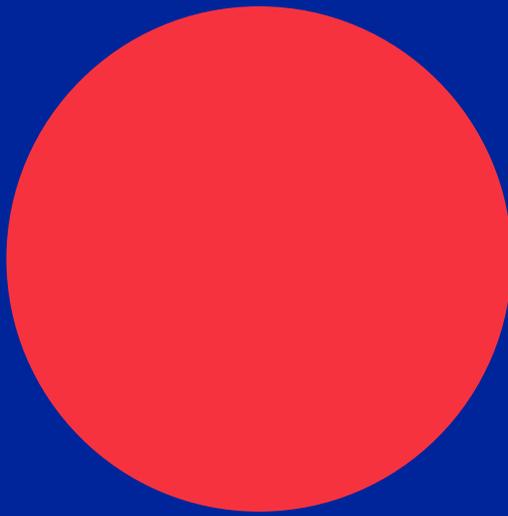


Material Handling Systems Optimisation

CHEP
A Brambles Company



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 material handling systems can be brought to its knees by distribution platforms that don't work in sync with your systems.

Our unique understanding of how distribution platforms work best with both automated and manual handling systems ensures that you get the most out of all your equipment and the most out of your entire supply chain.

CHEP's Material Handling Systems Optimisation is a simple, actionable way to gain capacity from your network without adding actual capacity.

It's how you ensure that all your robotics and handling equipment are running in harmony with your pallets and containers, no matter what they are.

It means more uptime and less downtime.

It means more capacity and fewer risks.

It means more efficiency, more throughput, more productivity. Along with reduced product damage and decreased downtime.

Best yet, Material Handling 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 modify your
equipment before it happens.

What we do:

Unfortunately, for many customers, equipment jams are a fact of life. They happen when equipment was designed without knowledge of platform specifications, when a new platform is introduced into your system or when damaged platforms are run through materials handling equipment.

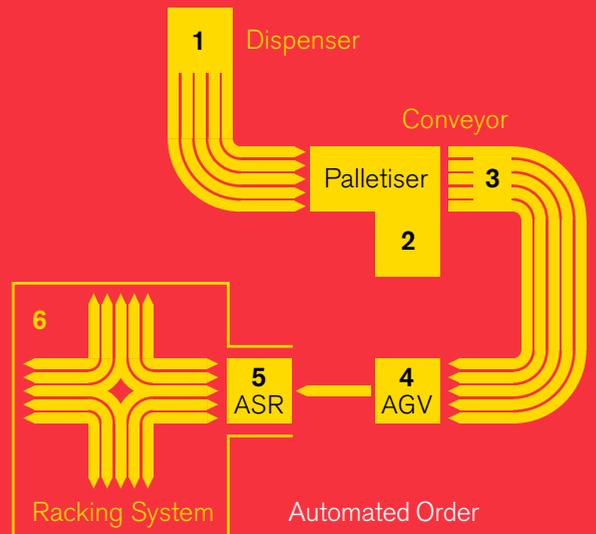
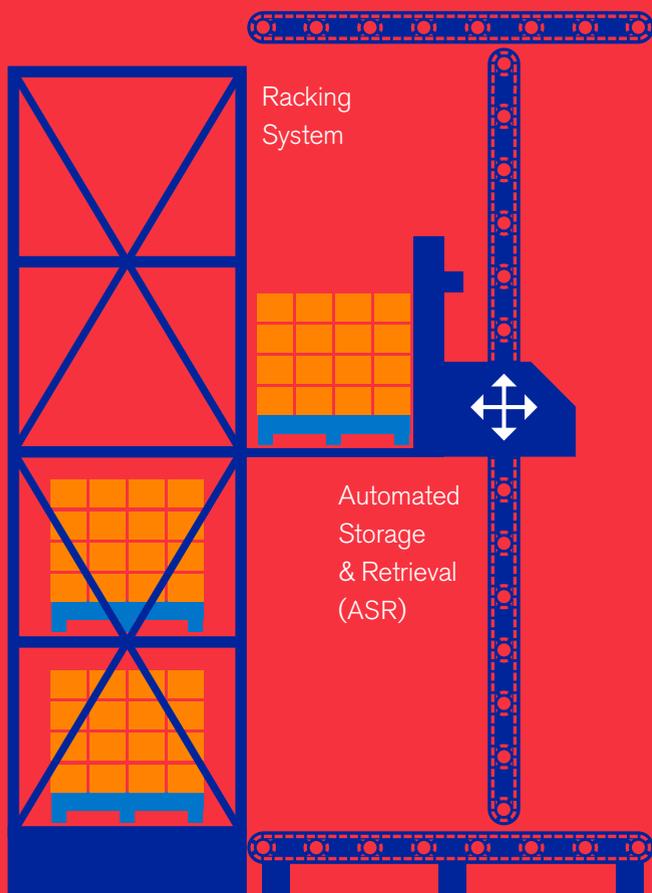
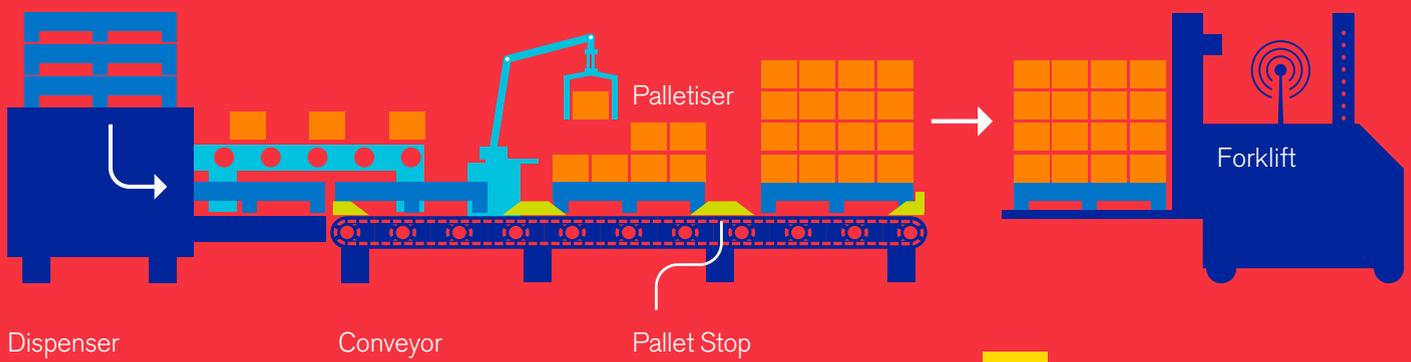
CHEP's Material Handling Systems Optimisation solution helps you optimise your supply chain within your manufacturing and warehousing processes. We'll ensure that all your distribution platforms integrate as well as possible with your automated and non-automated equipment, regardless of the platform design or spec.

If you're currently suffering from downtime, we'll quickly determine what's creating that downtime. 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. Leveraging their extensive industry expertise, they'll provide technical support and work with you to optimise your systems and processes 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 manufacturer.



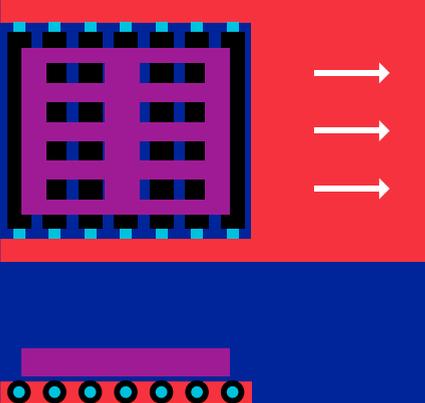
Automated Order Assembly Equipment:

1. Dispenser
2. Palletiser
3. Conveyor
4. AGV
5. ASR
6. Racking System

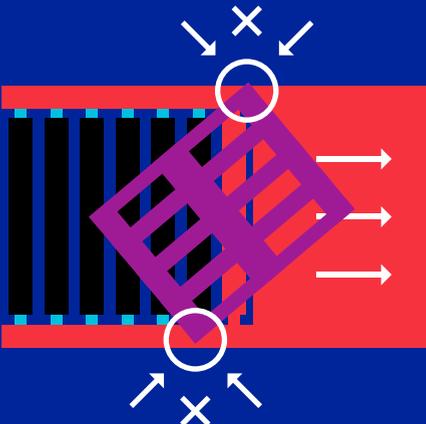


Improving your automated systems.

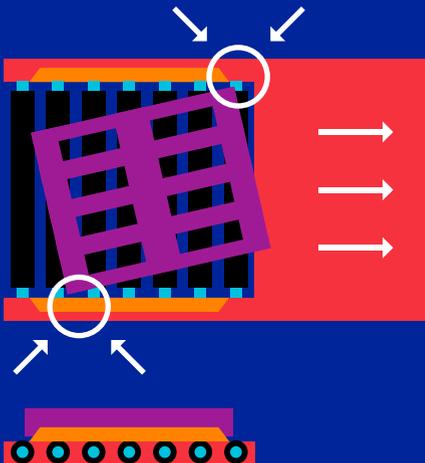
1. Pallets shifting on conveyors



A customer experienced frequent conveyor jams caused by open sides.

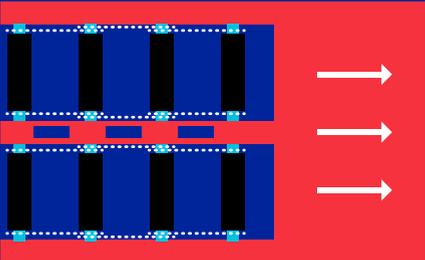


The open sides caused pallets to shift on the conveyor, necessitating shutdown and manual removal of the pallet.

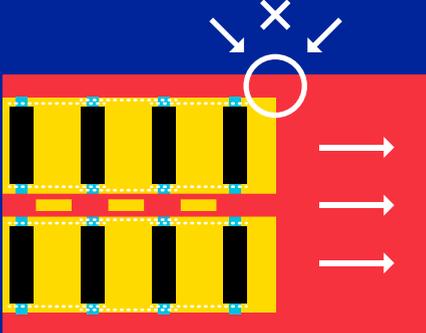


CHEP examined the conveyor and proposed adding minimally intrusive rails to the sides of the conveyor. This significantly reduced downtime by preventing pallets from shifting to an angle that would stop the conveyor.

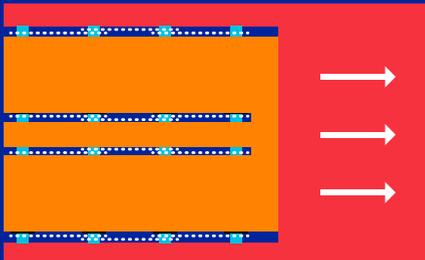
2. Unjamming palletisers



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 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 increased 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 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 Material Handling 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, Material Handling Systems Optimisation will help you:

- + See increased production through racking and distribution efficiency
- + Experience operating equipment efficiencies
- + Reduce downtime of manufacturing and warehouse systems
- + Understand how all platforms work within your system: bins, containers, RPCs, standard and custom-size pallets
- + Design a system for a single facility or your entire network
- + Analyse your supply chain from the moment distribution platforms enter your facility until they leave your equipment
- + Work with equipment suppliers to ensure their equipment works best with your distribution platforms

Only CHEP:

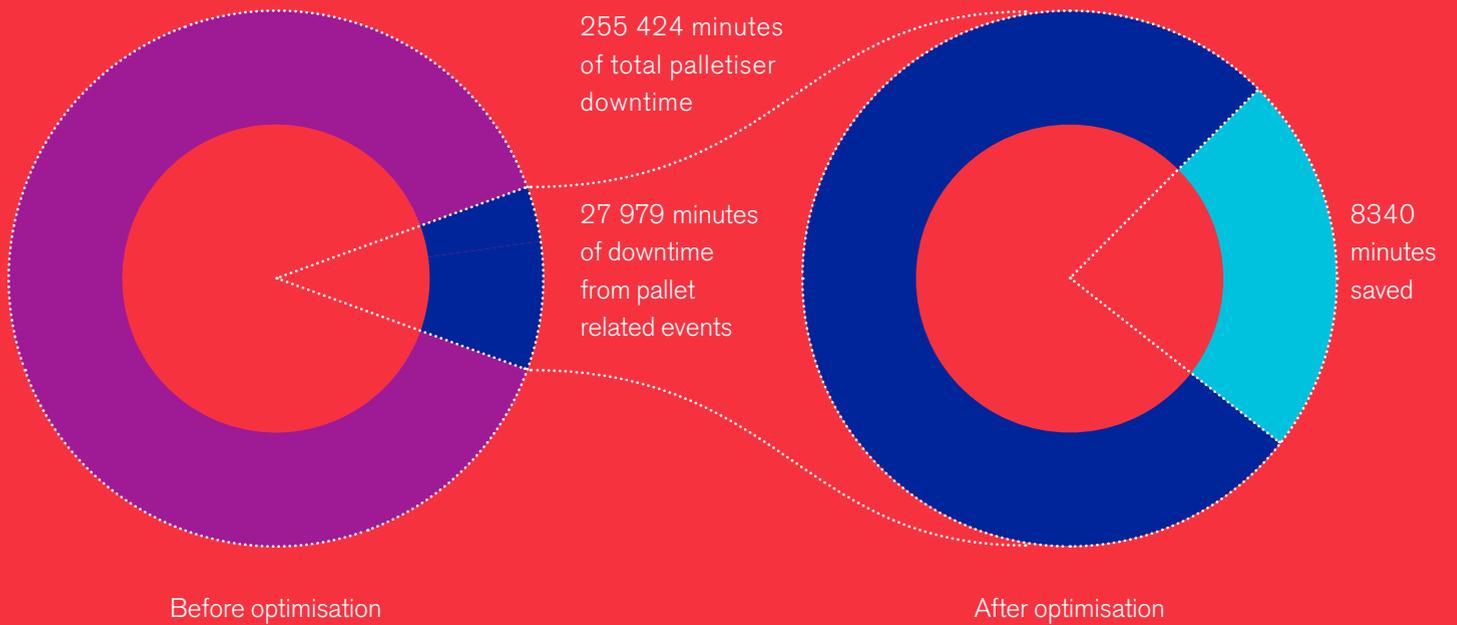
No one else has the broad experience in optimising material handling systems and improving uptime that CHEP has. Our Lean Six Sigma-certified engineers have been inside thousands of facilities. They've learned how every type of material handling equipment works best with every type of distribution platform.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

A small investment
often yields a big
increase in uptime.

Real world ROI from Material Handling Systems Optimisation.

We showed a manufacturer how to save R3.34 million by reducing downtime by 8340 minutes.

| | | |
|--------------------------------|---|-------------|
| Cost of all downtime: | R | 102 169 600 |
| Cost of pallet related events: | R | 98 829 600 |
| Amount saved: | R | 3 340 000 |



We showed an ice cream maker how to save R1.82 million by improving uptime by 75 hours per month.

Downtime minutes

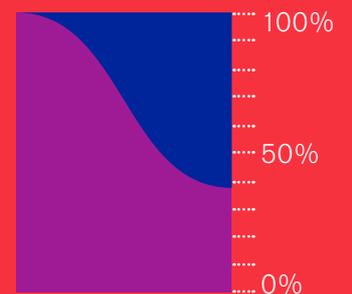
Before 7290 minutes

After 2780 minutes

Downtime cost

Before R2.93 million

After R1.1 million



60% reduction in downtime minutes and cost

**This is the
Supply Change.**

**Together we can
make it happen.™**

CHEP
A Brambles Company

Material Handling Systems Optimisation.
Just 1 of 20 Consumer Goods Solutions
from CHEP.

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



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Africa, India & Middle East

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

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

Latin America

Bld. Manuel Ávila Camacho
N° 24 Piso 23
Lomas de Chapultepec
11000
México D.F.
Tel: +52 (55) 8503 1100

www.CHEP.com