



**NERAK**

The Vertical Elevation Experts

Bulk and Unit Load Solutions

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Experts in vertical conveying technology, we offer the optimum solution for each application to ensure safe and efficient movement of goods between levels – whether you are handling bulk materials or unit loads such as pallets, stillages, cages, dollies, cartons or totes.

At the heart of our solutions is the Nerak heavy-duty and link-free rubber block chain, which ensures low noise, minimal maintenance and no need for lubrication.

Nerak Wiese provides a comprehensive service for clients – from initial layout and design to manufacture, assembly, installation, commissioning and training for your teams.



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# Pick floor solutions

Fast, efficient and safe movement of totes and cartons between multiple levels to service and replenish pick floors.

## Highly efficient solution for multi-tier mezzanines

This solution is built around the Nerak multi-carriage reciprocating hoist, which is the ideal solution for servicing multiple mezzanine floors in picking applications. During each cycle, a full tote can be collected whilst an empty tote is deposited for replenishment. Available in twin and quadruple carriage options, this solution is designed to improve the efficiency of each lift cycle, leading to higher throughput levels. In addition Nerak offers the option of independent left and right carriages, enabling more than one floor to be serviced simultaneously and – with independent infeed and discharge conveyors on each floor – the system is truly bi-directional.

Experts in vertical conveying technology, we offer the optimum solution for each application to ensure safe and efficient movement of goods between floors.



▲ Pick Floor Solution consisting of powered floor-level and high-level conveyors linking to two NERAK Reciprocating Hoists and a NERAK Box Lifter.

Comprising robust components, Nerak's vertical lifts ensure reliable operation in even the toughest of applications. They can either be supplied as a stand-alone system or integrated into a larger warehouse solution.

Nerak Wiese provides a comprehensive service – from initial layout through design, manufacture, assembly, installation, commissioning and training for your teams – maintaining close contact with you throughout.

## ► Ask the experts

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# Multi-carriage reciprocating hoist

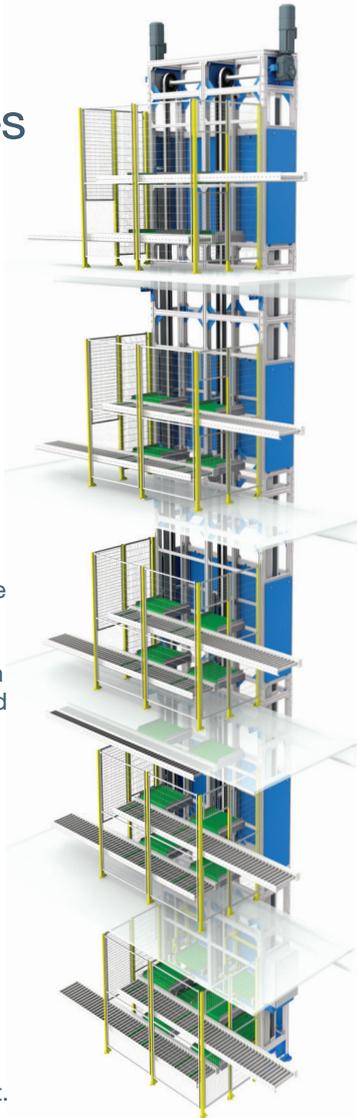
Fast, efficient and safe movement of totes and cartons between multiple levels.

## Versatile solution for mezzanines

The Nerak multi-carriage reciprocating hoist is the ideal solution for servicing multiple mezzanine floors in picking applications. During each cycle, a full tote can be collected whilst an empty tote is deposited for replenishment. Available in twin and quadruple carriage options, this solution is designed to improve the efficiency of each lift cycle, leading to higher throughput levels. In addition Nerak offers the option of independent left and right carriages, enabling more than one floor to be serviced simultaneously.

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**The Nerak  
Multi-Carriage  
Mezzanine Lift**

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# Mezzanine lifts for every load

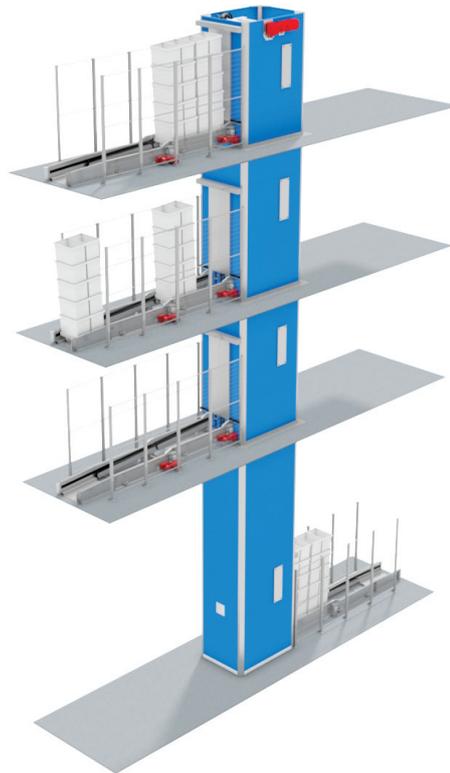
Whether you're handling pallets, stillages, dollies or roll cages, Nerak Wiese has a mezzanine lift to suit your needs.

## Energy-efficient solutions

With models to suit the vertical transport of many types of load – including totes, boxes, pallets, stillages, dollies and roll cages – the counterbalanced design of our mezzanine lifts results in extremely high levels of energy efficiency.

Using robust Nerak components, our vertical lifts ensure reliable operation in even the toughest of applications. They can either be supplied as a stand-alone system or integrated into a larger warehouse solution. For solutions to elevate totes, packets or boxes, ask about our continuous vertical conveyors.

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**The Nerak Dolly Hoist**

Our range of vertical lifts provides the ideal solution if you need to move goods safely and efficiently between two or more floors, whatever throughput rate you require.



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# The NERAK pallet lifter

The proven solution for vertical elevation of pallet loads in high-throughput applications.

## Robust and efficient pallet conveyors

Nerak's heavyweight pallet lifts are the ideal solution for the elevation of a wide range of unit loads including pallets, stillages and bulk bags. Capable of handling loads up to 1500kg and heights up to 40m, they are available as single or twin pallet design and with a variety of infeed and discharge options. They can be easily integrated into an existing system or supplied as a stand-alone automated system.

Careful design and component selection ensure reliable operation, low maintenance and long life. In common with all Nerak elevators, the pallet lifts benefit from rubber chain technology so do not require frequent lubrication or calibration, resulting in a significant reduction in the costs associated with downtime.

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**The Nerak  
Pallet Lifter**

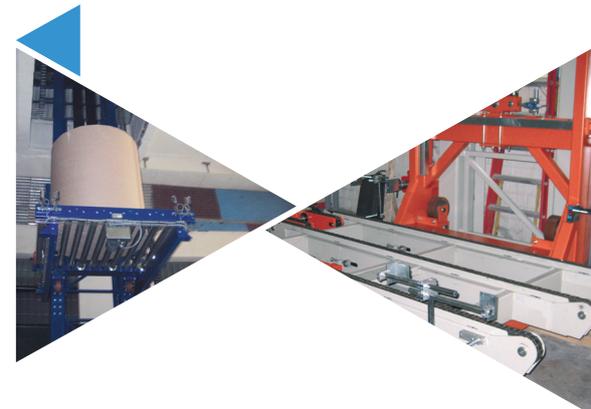
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# Cage lift



Fast, efficient and safe movement of cages between multiple levels.

## Ideal for mezzanine floors

Designed specifically for roll cages, this manually operated goods lift is ideal for vertical movement of cages in a variety of distribution environments. With a counterbalanced design, the Nerak cage lift achieves extremely high levels of energy efficiency. It can be designed to carry payloads of up to 600kg at speeds of up to 1 m/s. With an unlimited number of infeed and discharge options, the lift is ideal for moving product between multi-tiered mezzanine floors. It is available in 'C' or 'S' configurations, as well as a fully reversible option. Suitable for use in e-com fulfilment warehouses, sortation centres and dispatch zones for store replenishment, the Nerak cage lift can be supplied complete or just as a hoist if clients prefer to fit their own controls. A cold storage version is also offered.

Comprising robust components, Nerak's vertical lifts ensure reliable operation in even the toughest of applications. They can either be supplied as a stand-alone system or integrated into a larger warehouse solution.

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**The Nerak Cage Lift**

Experts in vertical conveying technology, we offer the optimum solution for each application to ensure safe and efficient movement of goods between floors.



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# Modular spiral conveyor for a variety of unit loads

The proven solution for high-capacity, vertical elevation of cartons and totes from Nerak Wiese.

## Reliable and efficient operation

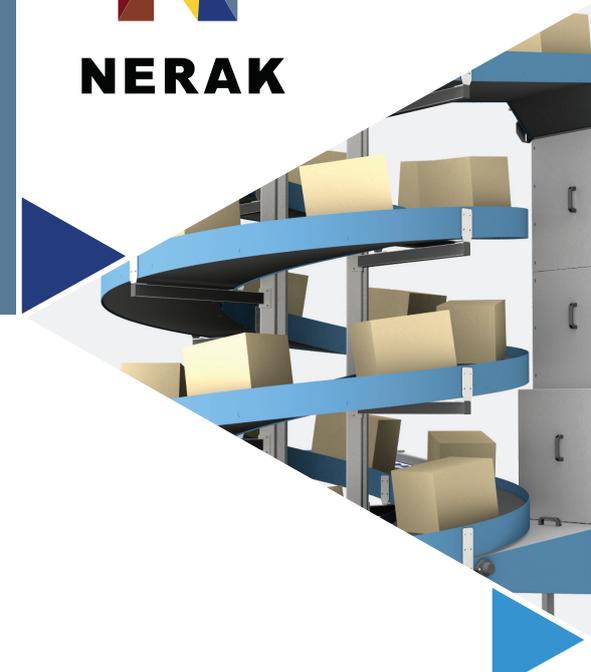
The Nerak spiral elevator is the ideal solution where a continuous process is required for the vertical elevation of totes, boxes and cartons. The flexible set-up enables clients to configure the Nerak spiral solution to suit their specific conveying needs. This is particularly useful where the product needs to be turned through 90 degrees during elevation, avoiding the need for expensive cross transfer conveyors.

Careful design and component selection ensure quiet operation, low maintenance and long life. The Nerak spiral elevator is available in both 400mm and 600mm belt widths, with a capability of moving up to 3,000 units per hour.

Nerak Wiese provides a comprehensive service – from initial layout through design, manufacture, assembly, installation, commissioning and training for your teams – maintaining close contact with you throughout.



**The Nerak  
Spiral Conveyor**



Experts in vertical conveying technology, we offer the optimum solution for each application to ensure safe and efficient movement of goods between floors.



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# The NERAK continuous platform elevator

The tried and tested solution for high-throughput elevation of cartons, totes, boxes and packets, as well as more unusual loads.

## The cost-efficient solution

Configurable in 'S' or 'C' shapes, the Nerak box lifter is capable of throughputs of up to 2,400 units per hour. Careful design and component selection ensure reliable operation, low maintenance and long life.

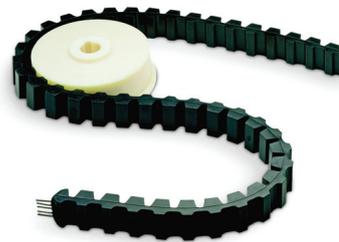
At the heart of every Nerak conveyor drive system is our renowned rubber block chain. Achieving its high tensile strength from embedded vulcanized steel cables, the link-free chain ensures quiet operation, requires no lubrication and remains corrosion-free.

Nerak Wiese provides a comprehensive service – from initial layout through design, manufacture, assembly, installation, commissioning and training for your teams – maintaining close contact with you throughout.



**The Nerak Box Lifter**

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# Single-carriage reciprocating hoist



Fast, efficient and safe movement of totes, boxes and cartons between multiple levels

## Versatile solution for lower throughputs

Consisting of one platform that goes up and down – with as many infeed and discharge points as required – the Nerak single-carriage reciprocating hoist is the ideal solution for servicing multiple mezzanine floors in picking applications. Available in a variety of formats – including high-speed, standard, cantilevered and counterbalanced versions – this is a cost-effective solution for applications with throughputs up to 250 units per hour and can be designed to load two units per cycle where additional throughput is required. Available in both 'C' and 'S' configurations, Nerak's single-platform reciprocating hoist is suitable for loads up to 50kg and offered with belt speeds from 0.5 m/s to 3 m/s.

Comprising robust components, Nerak's vertical lifts ensure reliable operation in even the toughest of applications. They can either be supplied as a stand-alone system or integrated into a larger warehouse solution.

Nerak Wiese provides a comprehensive service – from initial layout through design, manufacture, assembly, installation, commissioning and training for your teams – maintaining close contact with you throughout.



**The Nerak Single-Carriage Mezzanine Lift**

Experts in vertical conveying technology, we offer the optimum solution for each application to ensure safe and efficient movement of goods between floors.



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# Continuous bucket elevator

Spill-free handling of bulk materials in high-throughput, single-discharge applications.

## Rapid and robust bucket conveyors

The Nerak continuous bucket elevator is the proven solution for gentle and spill-free handling of bulk materials – such as food, chemicals, aggregates and waste – in high-throughput applications. Designed to move product from one or more feed points to a central discharge, the conveying paths can be horizontal, vertical or inclined without the need for additional transfers.

The solution features Nerak's rubber block chain, which – with its link-free and wear-resistant design – ensures quiet operation, no need for lubrication and a corrosion-free life. In addition, the absence of friction means the solution is highly energy efficient.

Available in both 'S' and 'C' configurations, Nerak's bucket elevators have a small footprint, making them ideal for sites where space is at a premium. They feature strong buckets in either plastic or steel that are connected by flexible strips to create a gap-free system. With removable panels for ease of maintenance, the elevators can be manufactured in powder-coated mild steel, stainless steel or galvanised steel. Easy-clean and magnetic metal-detectable bucket options are available for food environments.



**The Nerak Continuous Bucket Elevator**

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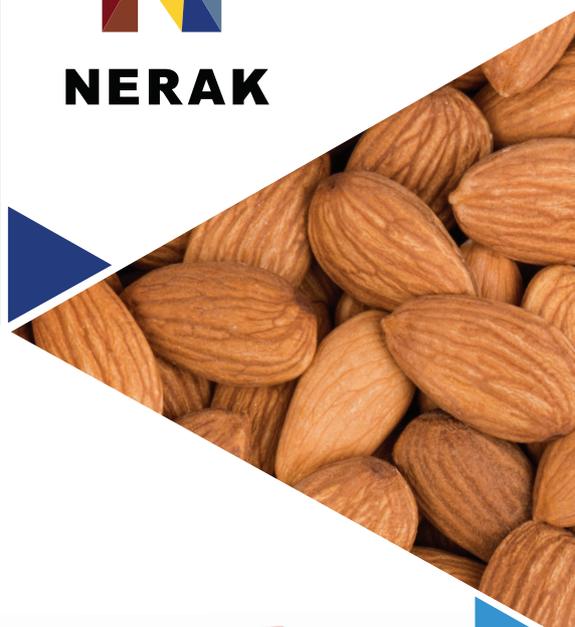
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# Pendulum bucket elevator



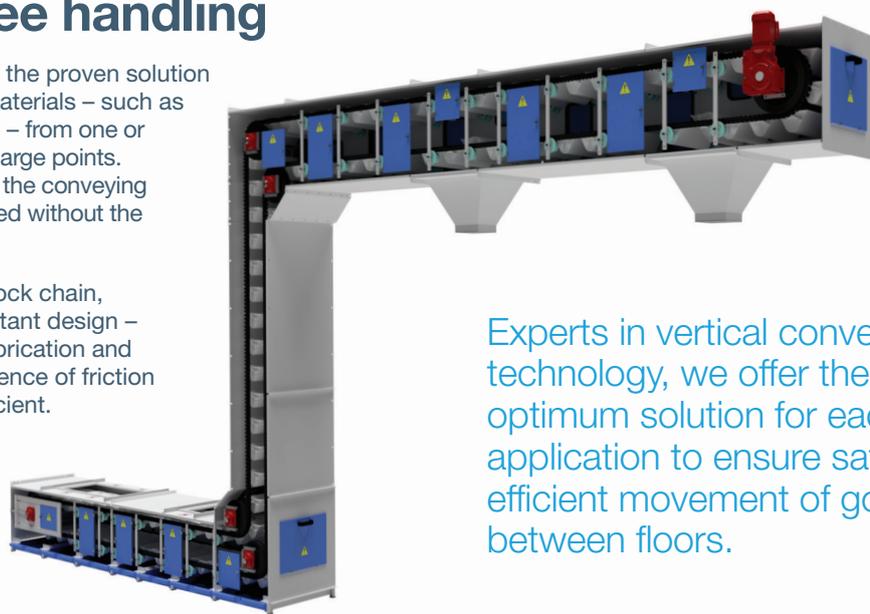
Rapid handling of bulk materials in high-throughput, multi-discharge applications.

## Efficient & spill-free handling

The Nerak pendulum bucket elevator is the proven solution for rapid and careful handling of bulk materials – such as food, chemicals, aggregates and waste – from one or more feed points to any number of discharge points. Designed for high-throughput operation, the conveying paths can be horizontal, vertical or inclined without the need for additional transfers.

The solution features Nerak's rubber block chain, which – with its link-free and wear-resistant design – ensures quiet operation, no need for lubrication and a corrosion-free life. In addition, the absence of friction means the solution is highly energy efficient.

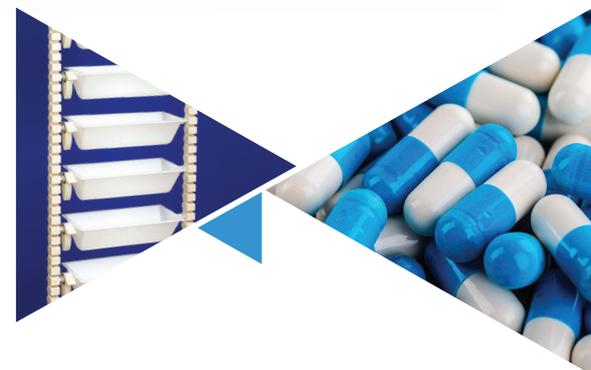
Available in both 'S' and 'C' configurations, Nerak's bucket elevators have a small footprint, making them ideal for sites where space is at a premium. The buckets feature quick-release mechanisms, allowing them to be removed easily for cleaning outside of the machine, thereby preventing any product cross-contamination issues.



**The Nerak Pendulum Bucket Elevator**

With removable panels for ease of maintenance, the elevators can be manufactured in powder-coated mild steel, stainless steel or galvanised steel. Easy-clean and magnetic metal-detectable bucket options are available for food environments.

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# MISSGUIDED

## XPO Logistics

### Missguided's new fashion DC

#### The Customer

XPO Logistics is a top ten provider of supply chain solutions globally. In the UK, XPO Logistics – formerly Norbert Dentressangle – has 197 locations and over 15,000 employees. The company offers comprehensive third-party logistics solutions for clients in diverse industries. In 2015 the fast fashion retailer, Missguided, signed a seven-year deal with XPO Logistics to manage its international e-fulfilment operations. Founded in 2009 by Nitin Passi as a pure play fashion retailer, Missguided aims its celebrity-inspired ranges at women aged 16 to 34. Following rapid growth in the UK, the company has expanded into the USA, Australia, France and Germany. Since 2015 Missguided has launched concessions in three locations as well as its own 22,000 sq ft store in Stratford Westfield, giving the retailer a bricks-and-mortar presence and transforming the brand into a multi-channel business.

#### The Challenge

To meet growing demand, Missguided opened a brand-new distribution centre (DC) in Trafford Park, Manchester, in July 2016. A joint investment with XPO Logistics, the DC replaced Missguided's existing facility in Salford, which was at full capacity. Operating 24 hours a day, seven days a week, the new 250,000 sq ft DC has been designed to handle Missguided's logistics needs for the next ten years. As the DC features four mezzanine floors that provide a total floor area in excess of one million sq ft, the facility required a vertical elevation solution and XPO Logistics selected Nerak Wiese to provide it. ▶



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“The system works well and, in tests, the equipment exceeded the specification, so we are delighted and plan to buy a further two lifts from Nerak.”

**Phil Shepherd,**  
Director of Technical Services  
XPO Logistics

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## The Solution

Nerak Wiese designed and manufactured two lifts featuring a unique design. Each lift comprises two independent hoists, each of which has two conveyors – mounted one above the other – and so can handle two loads. The lifts transport cardboard cartons of goods received from manufacturers up to the order picking areas on the mezzanines. Here, staff pick orders into totes, which are then transported down to the ground floor by the lifts. In addition, the lifts are used to transport empty totes up to the pick areas, with three totes nested together during elevation. The throughput from the top floor is 250 inbound and 250 outbound loads per hour, per lift.

## The Benefits

The XPO Logistics and Missguided teams have been pleased with the installation, operation and reliability of the lifts. With two independent hoists, the lifts have high capacity and their versatile design has made them suitable for various elevation tasks at the new warehouse. In addition to this, as the lifts are based around rubber chain technology, they do not require frequent lubrication or recalibration. From a service and maintenance perspective, the result is very little downtime, minimizing the associated costs. “This has proven to be a cost-effective and high-quality solution,” commented Phil Shepherd, Director of Technical Services for XPO Logistics. “The system works well and, in tests, the equipment exceeded the specification, so we are delighted and plan to buy a further two lifts from Nerak.” ■



**NERAK**

John Lew

# John Lewis

## John Lewis Click & Collect

### The Customer

John Lewis is a leading retailer, operating 31 department stores and 11 John Lewis At Home stores nationwide. Along with the online and catalogue sales operation, johnlewis.com, and the Waitrose supermarket business, John Lewis is part of The John Lewis Partnership, which enjoys turnover in excess of £10 billion and employs over 93,000 staff. The johnlewis.com business has experienced phenomenal growth in recent years, with online sales passing the £1 billion mark in 2013. By avoiding the costs of home delivery and helping to drive additional sales in-store, John Lewis' Click & Collect service is proving to be a key element in the company's success.

### The Challenge

Click & Collect is offered for most items in the product range, allowing customers to place their order online by 7pm for free delivery to their chosen shop – either a John Lewis store or one of an increasing number of Waitrose branches – for collection after 2pm the next day. Once ordered online, these goods are delivered from John Lewis' distribution centre to the appropriate store, where they are placed in a storage area until the customer arrives to collect them. As these storage areas are often above or below the sales floors, each store requires a means of transporting the goods quickly and safely to the Click & Collect desk on demand. Goods may also be allocated from stock already in-store, meaning that they need to be transported from the relevant sales floor. John Lewis turned to Nerak Wiese for a solution and Nerak Wiese has successfully installed four tote conveying systems to date: at John Lewis in London's Oxford Street (the flagship store and the first opened by John Spedan Lewis back in 1864), at Peter Jones (a brand of John Lewis) in London's Sloane Square, at John Lewis in Milton Keynes and at the John Lewis store at Buchanan Galleries in Glasgow. ▶



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**NERAK**



# John Lewis

“What Nerak Wiese provided was an excellent response to the trust we placed in them to deliver the perfect solution – elegant and highly practical.”

**Ted Weager,**

*Operations Manager (Technical)  
John Lewis*

## The Solution

As the first to be installed, the system at the Oxford Street store became the concept solution upon which the other projects were modelled. In common with all Nerak Wiese projects, the work for Oxford Street began with gaining a clear understanding of the current and future needs of the client, from which Nerak Wiese produced a design specification and then designed and engineered an integrated vertical and horizontal conveying system. At the core of the solution is the Nerak KH253AL Elevator, a rapid reciprocating hoist fed by powered belt conveyors on each of the three floors and discharging onto gravity roller conveyors in the collection area on the ground floor. Additional powered belt conveyors on the ground floor feed the reciprocating hoist for the rapid return transfer of the tote boxes back to the upper floors. With conveyor speeds of 0.8m/s and a lift speed of 1.5m/s, the system is designed to move 429 totes per hour from the third floor, 568 from the second floor and nearly 850 from the first floor. Constructed from high-grade aluminium component parts, the KH253AL Elevator is clad with a bolt-on aluminium mesh that, along with an interlocking removable door, provides easy access for any required maintenance.

## The Benefits

As well as providing swift transport of customer orders on demand, the systems installed by Nerak Wiese provide smooth and safe conveying so that goods are not damaged in the process. The speed of the equipment ensures that customers do not have to wait long for the arrival of their orders at the Click & Collect desks, even at peak periods when the systems are required to handle large throughputs of totes. ■

*Nerak Wiese is a UK-based engineering company that specialises in the design, development and installation of conveyor systems. Offering both modular systems and bespoke solutions, Nerak Wiese has the design expertise and engineering skills to solve diverse material handling problems. Strengthened by over 45 years' experience, our solutions and service benefit customers throughout Europe, the Middle East, Africa, Southeast Asia, India and Australasia.*

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# BISLEY

## Bisley Office Furniture

### The Customer

Bisley Office Furniture is the largest manufacturer of office storage solutions in the UK and one of the largest in Europe. With a history dating back to the 1930s, the company is based in Bisley, Surrey, and Newport, South Wales, having a combined footprint of 64,000 square metres and employing over 700 staff. The factory in Newport produces over 20,000 pieces of furniture each week. With a focus on modern design and precision engineering, Bisley is renowned for its advanced manufacturing processes including CAD techniques and robotic production cells. Exports have been key to the company's growth over the years; Bisley has sales offices in France, Holland, Germany, Ireland, Spain and Dubai and its products are sold to clients in over 60 countries worldwide.

### The Challenge

Bisley decided to build a new storage and distribution centre adjacent to its site in Newport. However, with the new facility separated from the existing factory by a public highway, Bisley needed a solution to transport finished goods from the production plant to the new warehouse. The solution was to construct a bridge through which pallet loads could be transported by conveyor. As the 80m-long bridge was to be built some 8m above ground to allow for passing traffic, Bisley needed to be able to raise pallet loads from ground level to the bridge and then lower them again on the other side. ▶



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**NERAK**



# BISLEY

“The Nerak Wiese hoists were delivered on time and to budget. They were up-and-running with a minimum of commissioning and uptime on the hoists is excellent.”

**Martyn Walters,**  
Senior Production Engineer,  
Bisley Office Furniture

## The Solution

Nerak Wiese supplied two hoists, one for each side of the bridge, in order to lift and lower the pallet loads of finished products traversing the bridge. Nerak Wiese specified counterbalanced reciprocating hoists to elevate and lower the goods, which were to be transported on wooden pallets 1.6m wide by 1.2m deep, with a maximum load height of 2.5m and with a maximum weight of 500kg. The speed of delivery required was one pallet every 60 seconds, although the solution delivered achieves a rate of one load every 45 seconds in practice.

## The Benefits

The hoists supplied to Bisley Office Furniture have been extremely reliable despite intensive use. They are also remarkably energy efficient. With the counterbalance being equal to the average weight – between full and empty – of the pallet lift section of the hoist, a counterbalanced hoist has the advantage of needing smaller electrical motors, which are more energy efficient. Considering the throughput of the system at Bisley’s Newport site – with one pallet load every 45 seconds crossing the bridge throughout a full shift – this adds up to a considerable saving in energy. In addition, the counterbalanced hoists feature rubber chain technology, with rubber being moulded around pre-stretched, high-tensile steel cables in a high-pressure vulcanizing process. Use of these lubrication-free, low-friction rubber chains lowers the energy consumption of the hoists even further, making additional cost savings in terms of electrical power. ■

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## Pistachio processing

### The Customer

When the world's largest producer of pistachio nuts wanted to install a new, high-performance packing line, the company approached Nerak Wiese for a solution. Following success overseas, the nut supplier had decided to turn its attention to growth in Europe by launching a pan-European sales drive, supported by the opening of a brand-new packing line.

### The Challenge

The client sought a flexible, highly efficient and high-performing material handling solution for its investment in the new facility. The company not only required equipment that would handle the pistachio nuts gently but also a smart solution design that would facilitate access in order to maintain high standards of hygiene. The demands for cleanliness and system availability meant that the internal parts of the equipment would need to be smooth in order to minimize the build-up of product. Nerak Wiese's proposal, featuring its proven bucket elevators, proved successful in winning the project in the face of strong competition from a number of international suppliers. ▶



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Nerak Wiese completed the entire process – from design to handover – within just 12 weeks from the initial order.

## The Solution

The Nerak Wiese solution was for a fully integrated processing line – incorporating bucket elevators, vibratory feed conveyors, weighers, wrappers, dust extractors and a stainless steel mezzanine floor – and addressed all of the customer's needs in a cost-effective way. The requirement for gentle and efficient handling was met by the installation of metal-detectable, food-quality buckets for the elevators. Hygiene needs were met by the buckets being easily removable, as well as by specifying removable access panels with key-type interlocks to allow safe entry for cleaning. Smooth equipment interiors were incorporated as standard to minimize the need for cleaning. As the project progressed, Nerak Wiese was asked to install additional elements – including HMI (human-machine interface) screens, sound booths and line silencers – which were integrated into the overall plan seamlessly and with no issues. Despite the extra equipment, the entire project – including on-site installation, controls and commissioning – was delivered on time and within budget.

## The Benefits

From the initial design stage to the two-week installation period, this project was completed to an exceptionally high standard by the Nerak Wiese team. Through excellent communication and professional integration with the local workforce, Nerak Wiese completed the entire process – from design to handover – within just 12 weeks from the initial order. This rapid and successful project design, management and installation period allowed the client to begin operations and recoup its investment more quickly. ■

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