



AVANTA



PORTFOLIO 3



Avanta UK Ltd is an independent company with over 20 years experience in designing and sourcing equipment. Long term partnership arrangements and rigorous appraisal of our portfolio of extensive manufacturing partners ensures that our clients have access to high quality and competitively priced standard and non-standard products.

Our specialities include mezzanine floors, storage systems (including warehouse shelving, pallet racking, longspan shelving and mobile shelving systems) and interior solutions (including office partitions, office storage, steel partitions, mesh security cages and workbenches).

We cover the whole of the UK and work closely with the major manufacturers offering warranty, peace of mind and on going support.

See more case studies at
www.avantauk.com

Some of our clients...

NEXT

END.

Jet2

B BRENNTAG



Lockwood
your supply chain partner

ph Polyco
Healthline

T.K.maxx

Joe Browns



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DS
Smith

Network
Plus

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CARNAUD METALBOX
ENGINEERING

AFLEX HOSE

GRADUS

Geek+

Stelrad

enfinium

ALLSAINTS

arrowxl
beyond delivery

New Retail Operations Centre (R.O.C.) Middlewich

After an extensive property search, Jet2 successfully acquired unit 11 of Tritax Symmetry Park in Middlewich. The unit is 149,000 sq ft and is perfect in size and location for the client's intended use of the facility – A dedicated centralised Retail Operations Centre (R.O.C.).

The R.O.C. is the centralised location servicing eleven regional UK airport locations with sealed carts of in-flight retail goods. This includes the storage, sortation, picking and despatching of gifts, fragrance, and snacks in sealed carts to be sent to the in-flight regional operations teams. This is with the aim of delivering the right products at the right time for customers and thus improving overall customer experience, eliminating stock out situations. There will be circa three thousand carts in circulation e.g., split between own vehicles, on aircraft and at the R.O.C. Creating an End-to-End Logistics system.

This is the first centre of its kind in the UK aviation industry taking in house control enabling Jet2 to stock, manage and distribute millions of in-flight retail products for passengers to consume.

This major development offers Jet2 more control over the operation and offers significant cost savings.

Avanta UK Ltd worked very closely with Jet2 and in conjunction with Hatmill (Supply Chain & Logistics) equipped the premises internally and externally with a comprehensive turnkey

package to enable Jet2 to have a fully operational facility. These works / Services included:

- Full Principal Contractor Role – Including site set up and the running of the site for a set period. Please see Principal Contractor – Avanta UK for further details.
- Sprinklers – Design, Supply & Installation with tanks, pump house
- Concrete Pads for Services and further civil works.
- Full External Perimeter Security Fencing
- High Specification ANPR barrier for access and egress to main car park
- Mechanical & Electrical Works throughout including the Jet2 IT department's data requirements.
- All CCTV, Fire Alarm, Intruder Alarm, and Wireless Access Points
- Feature Reception desk
- Gunnebo Access Gates
- Access Control Systems – In line with current airport security specification.
- Additional Access and Roller Doors to suit the operation.
- Cut Out and Glaze Viewing Area from Office to Warehouse
- Full Ground Floor Facilities Fit Out, including:
 - o Break Out Areas
 - o Canteen Facility
 - o Toilets
 - o Locker Rooms & Shower Facilities
 - o Reception
 - o Multiple Meeting / Training Rooms – Subdivided by Operable Walls
 - o Glass Partitioned areas – double and single glazed.
 - o Hygiene Wall for Locker Room Facilities
 - o Flooring – hard wearing durable vinyl in ground floor facilities area and carpeting within ops office and first floor.
 - o Furniture – in Bespoke Jet2 colours
 - o Ceilings
- Full Fit Out of First Floor Office Suite – taking a typical class A fitout to class B to personalise the facility for Jet2.
 - o Created Multiple Meeting Rooms, Offices & Open Plan Area
 - o Office Furniture
 - o 2x Supply and installation of acoustic meeting POD's
 - o Created Viewing Area from Office to Warehouse with 54mm thick fire rated glazed screen.
- Created additional large storage area with vertical personnel access ladder and safety handrails.
- Carton Live Storage Area – Bespoke solution designed in conjunction with Hatmill. 50x Pack stations (3x distinct types) Constructed using carton live storage bays (Shelving bays with angled roller beds). Stock is pre-loaded to the rear of the unit on FIFO basis and the operator picks from the front of the unit and uses a fixed workbench to consolidate and pack into totes and carts.
- Circa 100 Linear metres of Single Skin Steel Partition to subdivide the warehouse
- Created a Two-Tier Control Room Suite with a fire rated Mezzanine Floor and Steel Partitioning including toilet pods and full fit out with bespoke furniture.
- Secure Bunded Warehouse Area with two security X Ray scanners and laser alarm ceiling
- High Bay Pallet Racking Area for circa two thousand pallets with bespoke smoke baffles to meet insurance requirements.
- Safety Barriers & Protections including the industry leading polymer barrier system – ASAFE supplied and installed to protect personnel and property.



- Function as Principal Contractor for PHASE 2 – Automation. Utilisation of Vanderlande Adapto Shuttle System - Intelligent shuttle-based automated storage and retrieval system (AS/RS) with built-in sorting and sequencing capabilities.
- Responsibility for delivery of all Health & Safety objectives throughout both phases.

150,000m² Full fit out

Internal and external works

Distribution of retail goods

Principal contractor role













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Avanta Create 40,000 Pallet Locations for Global Retailer of Apparel and Home Fashions

Avanta UK successfully tendered for and completed a large-scale pallet racking project for one of the World's leading "off price" retailers of fashion and homewares.

The client acquired a newly built 450,000 circa square foot warehouse in the North West, specifically to store palletised goods to service a growing network of stores and resellers.

Avanta UK were invited to take part in an extremely competitive tender process and successfully satisfied the strict criteria set out against large European manufacturers of racking systems.

The project size and length of programme meant that Avanta functioned as Principal Contractor. This means, there is a single point of contact coordinating multiple contractors on site. This saves time, effort, and money in managing multiple teams on behalf of the client. Avanta Undertook the site management of all other trades, from sprinkler works to M&E contractors. This approach not only allows for better communication between trades and therefore a smoother, economic, and quicker installation. It also allowed for design adjustments to be made quickly and efficiently as works progressed.

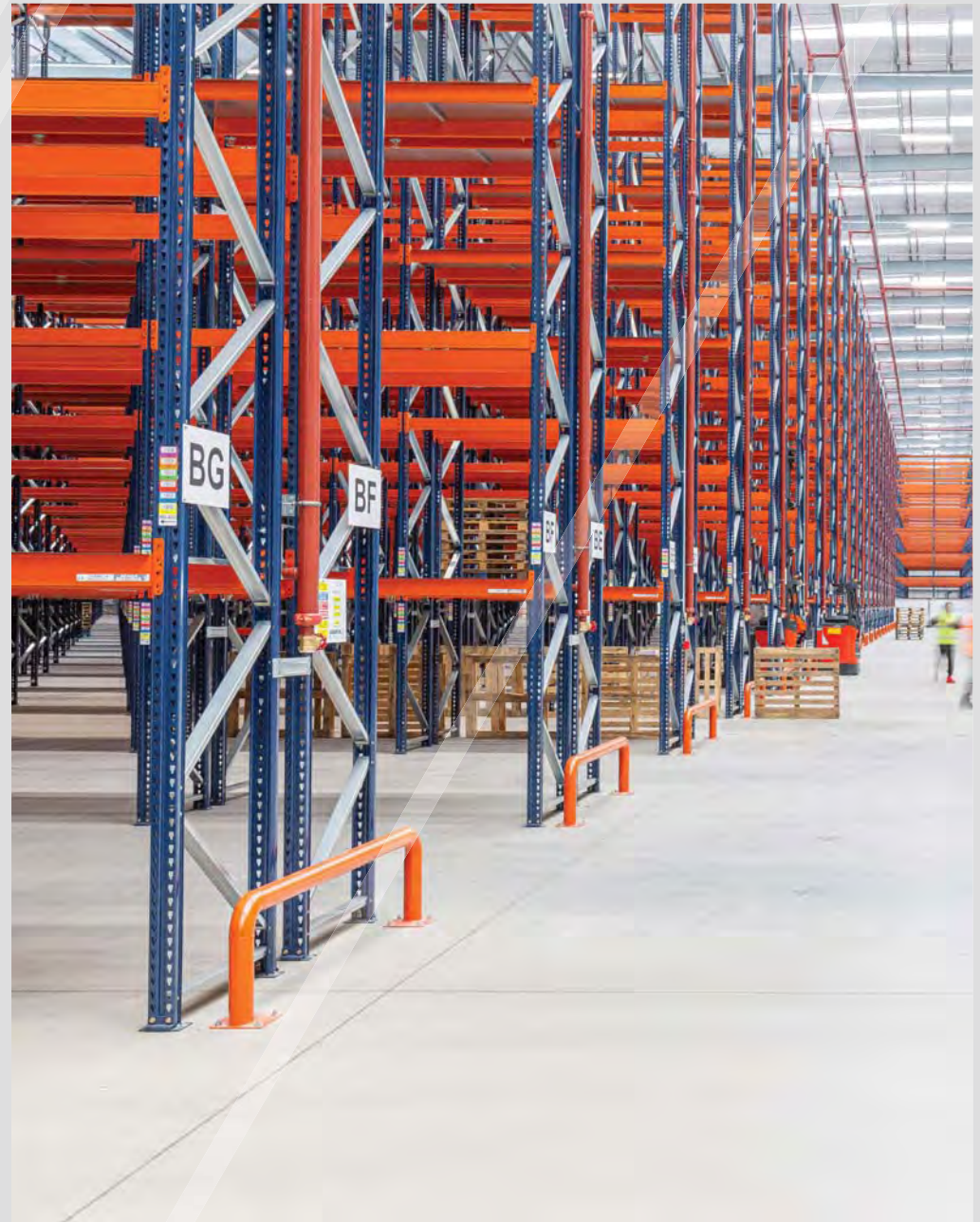
Avanta looked after all the Health & Safety and having all the relevant accreditations and levels of insurance gave the client ultimate peace of mind.

The pallet racking, designed in a narrow aisle configuration giving the client 40,000 UK sized pallets. With heights up to 15m high, there is circa 2400 heavy-duty frames stood and circa 35,000 2700mm pallet racking beams in this project.

Anti-collapse mesh is secured to all single runs of racking within the scheme. With the racking & mesh extending above the highest pallet, to ensure maximum protection.

In addition to the pallet racking, Avanta designed and supplied steel decks with smoke baffles, sprinkler brackets and rack protection products. Prior to the contract award, Sample bays were supplied and set up on site with various deck options. This allowed the client and associated parties to choose which option they felt was best for the application.

Avanta Comment – "A really satisfying project for Avanta. We ran an efficient installation in a clean and clear site. This contributed towards finishing the project on time and on budget. This was a hard-fought contract win against a selection of the world's largest pallet racking manufacturers who were quoting directly."





40,000 Pallet locations

2,400 Heavy duty frames

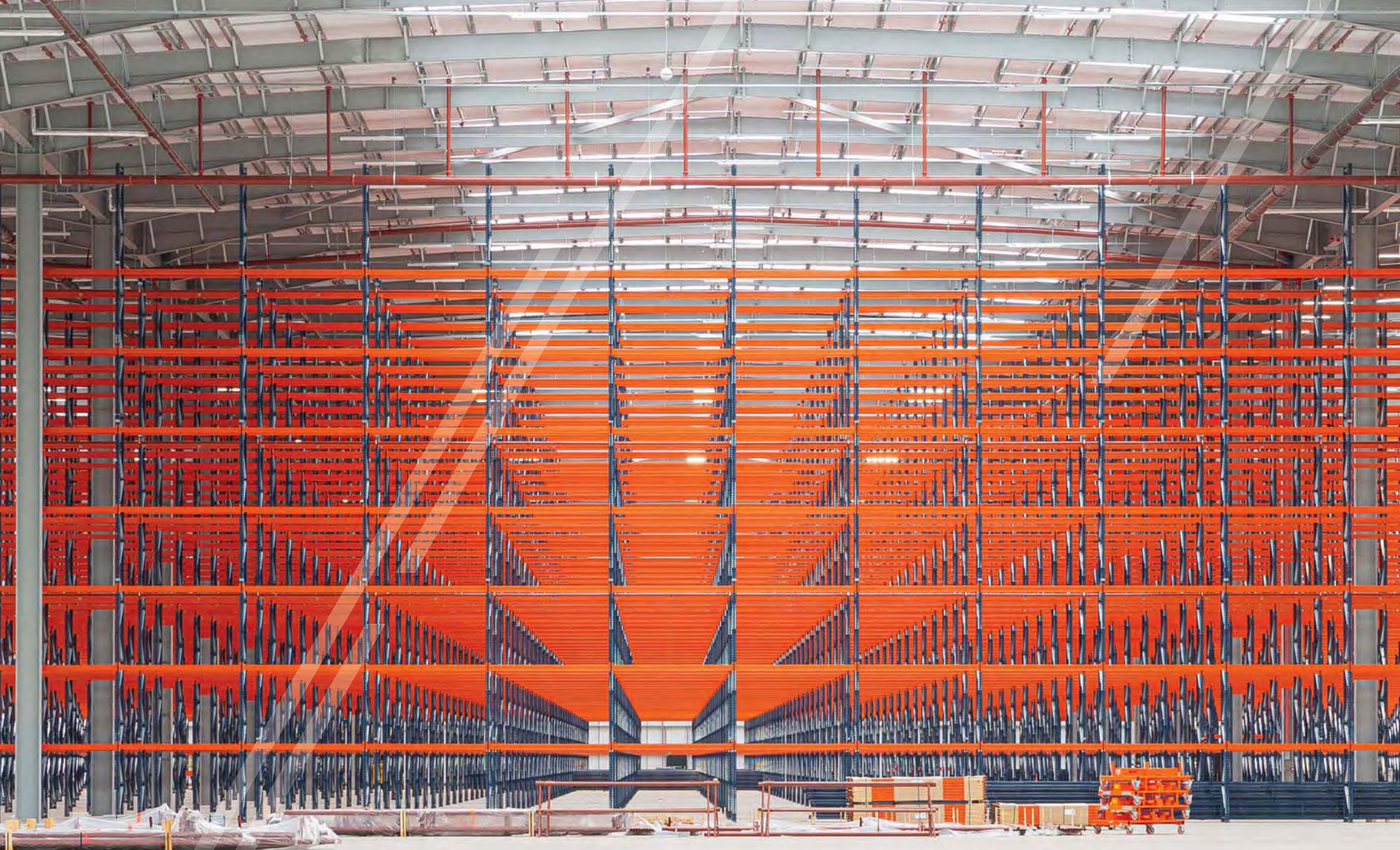
35,000 2700mm beams

Wide aisle racking



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Multi Tier Fire Rated Retail Mezzanine Floor Project

Leeds-based storage equipment specialist, Avanta UK Ltd successfully tendered for and delivered a turnkey warehouse improvement project for a leading multi-channel fashion retailer.

The client is long established in the fashion arena selling garments and footwear through mail order, ecommerce, franchises, concessions and its own stores.

Having completed a significant warehouse extension, the next stage for the client was to engage with a specialist storage equipment provider to optimize the storage capacity of the cubic space within the extension, improve pick rates and lock into the warehouse management system to service the afore mentioned channels.

Warehouse Storage Solutions

All items are picked from the BDCM1 Retail box / carton, and the system was designed around the box and the available space.

The solution included:

Two Tier Mezzanine Floor

The mezzanine floor came in at a healthy 4,271m² (46,083ft²) and is fire rated to 1 hour with suspended ceilings, fire enclosed staircases with fire escape doors.

There are 120 linear metres of handrail and temporary handrail, and safety netting was employed during the build of the mezzanine floor.

Ground and level 1 are to be used for the main storage and picking operation with the smaller level 2 to be used for bulk and overstock.

Lighting and Smoke Detection

PIR lighting was installed throughout the structure with power and data for the sortation and packing area benches also supplied and installed. Electrical supply was installed for the mezzanine floor goods lifts and conveyor system. Smoke / Fire detection system was a pre-requisite of the Building Regulations organised by Avanta UK.

Mezzanine Floor Goods Lifts

Floor slab preparation works took place for 2x mezzanine floor goods lifts to service all levels of the mezzanine floor took place. The lifts enabled the safe movement of products in totes between levels. Avanta oversaw the installation and the commissioning of the goods lifts to all relevant standards.

Warehouse Shelving Systems

Longspan Warehouse Shelving

Avanta UK designed, supplied, delivered and installed 1057 bays of BDC box storage shelving. Each shelf level is complete with a mesh shelf with integral divider for back-to-back storage of the picking boxes. This gave the client the capacity to store circa 58,000 BDCM1 boxes to pick directly from. The shelving system is designed to have no wasted space with the bay sizes designed around the box size.

Returns Shelving

No Internet retail warehouse is complete without a dedicated area or facility to store individual returned items. Avanta UK have designed and developed a returns shelving system that in this instance the 96 bays supplied gave the client circa 3168 return locations to pick from and re-work.

Sort / Pick / Pack Area Workbenches

With power and data to a specific area of the mezzanine floor, Avanta UK supplied 40x bespoke packing 2.1m length workbenches complete with louvre panels, base and upper shelves.

Conveyor System

Complete with bar code reading, warehouse management interface and service package, the conveyor package offers the client a quick, cost-effective method of moving products in plastic totes around the 3 levels. With powered rollers, decline belts and lift up transfers, this conveyor system is an efficient mode of transporting product around the warehouse to the pick pack area workbenches. There is circa 150m of conveyor on this project.

Picking Totes

2000 stack and nest containers 600 (L) x 400 (W) x 325 (H) mm with 15KG capacity in 4 colour ways were supplied for multiple picks in the trolleys and conveyor systems.

Trolleys

20 off bespoke picking trolleys designed and supplied. Each trolley is designed to accommodate and transport 12 totes.

Principal Contractor Role

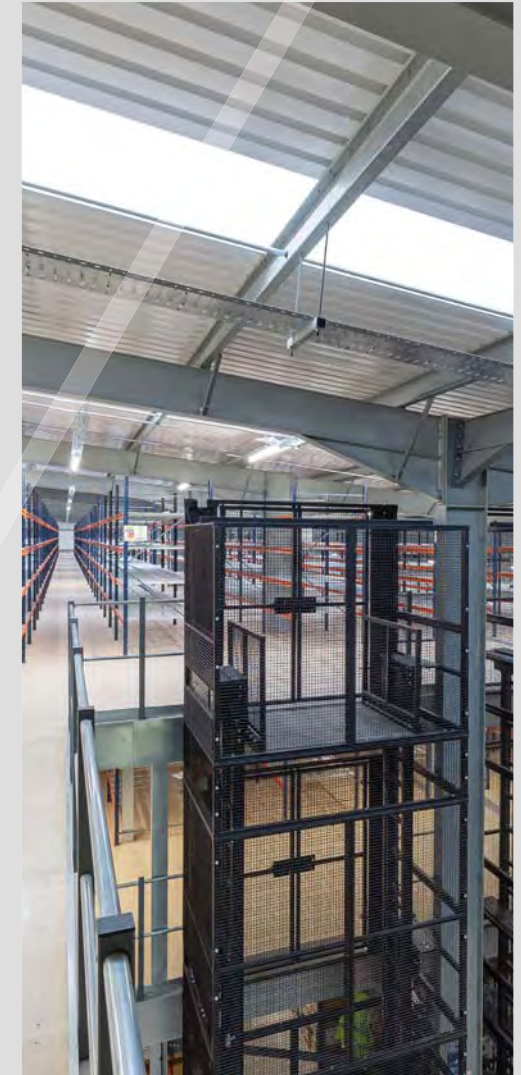
With a project of this size / duration to conform with Construction (Design and Management) Regulations 2015 (CDM) Avanta UK Ltd acted as Principal Contractor (PC). This included full site set up with welfare facilities for all trades, full site supervision with suitably qualified site management throughout.

Avanta was responsible for full health and safety in the CDM area throughout the project.

The Project

This turnkey project was a 2-phase programme with 60% of the fire rated mezzanine complete

with shelving could accommodate stock that was originally bulk stacked in the warehouse extension. This then freed up the space to move to phase 2 and this included the remaining 40% of the mezzanine, conveyors, goods lifts and ancillary items.



4,271m² Two tier mezzanine

58,000 BDCM1 box locations

3,168 Returns locations

150m of conveyor employed



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Tall VNA Racking Solution for Kammac

The 10th warehouse site for leading 3rd party logistics company Kammac means the company can offer 1.9 million square foot of storage across its network of warehouses.

This latest warehouse in Runcorn initially is used to store NHS Track and Trace kits and with the available height in the building, Storage Equipment Companies were invited to tender to design, supply and install a new pallet racking system and reconfigure a section of existing racking.

Avanta UK Ltd successfully tendered for the work and having completed other pallet racking projects for Kammac and more widely in the 3PL sector could present a comprehensive track record of this type of work.

The pallet racking proposed was 17.5m high and 19m high configured into a Very Narrow Aisle (Sometimes referred to as VNA) layout. This offered the client an additional (circa) 12,000 pallet spaces.

The installation took only 3 weeks and the manufacturing lead-time of the UK Manufactured racking took 6 to 8 weeks. Advantages of a locally sourced racking system includes the availability of spares for when and if the system needs adding to and / or reconfiguring.





Very narrow aisle racking

12,000 (Circa) pallet spaces

19m high system

UK manufactured system



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Mezzanine & Shelving Project

Phase 1

The project took place in the North of the UK and it was for a fire rated multi-tier mezzanine floor measuring approximately 14,500 Square Metres.

This project is a two tier platform with each platform measuring 7210.57 metres square and the finished floor levels are set at 3900mm and 7500mm.

The existing warehouse floor slab was piled to accommodate the additional load and this gave Avanta the opportunity to increase the span between the columns and set the footplates into the floor slab and thus reducing obstructions and creating a neat finish.

The floor loading is rated at 5Kn/m² and load access is via a goods lift and 4 up and over pallet gates.

There are 6 staircases with mid landings and over 800 linear metres of handrail and kickplate. In addition to the hand rail extra protection is achieved using 1200mm high mesh panel to prevent boxes falling.

Both floor levels were finished in a two pack epoxy floor seal providing an anti-slip waterproof finish to the mezzanine deck.

Avanta also supplied wrap around column protection for the ground floor and full barrier protection to the perimeter.

On the middle floor Avanta supplied and built longspan shelving with mesh decks to create 40,000 BDC box locations.

On the top floor Avanta designed and supplied various workbenches and trolleys creating a new QC Area and garment hanging section.

Outcomes

With the addition of this mezzanine, apart from the obvious space creation this project has enabled-

- **The creation of 200+ new jobs.**
- **Increased storage capacity.**
- **Improved picking rates.**
- **The floor can be extended upwards and outwards if required to suit the needs of the business.**
- **The use of the floor could be changed or adapted if required.**

Mezzanine & Shelving Project

Phase 2

The original floor measured 14,500m² and the extension would offer a further 7,500m² for the client to utilise.

An additional 300 linear metres of hand-rail were required to levels 1 and 2 and an additional 3 staircases.

Floor was fire rated to 1 hour and deck levels finished in an anti-slip resin.

Selected Statistics

Mezzanine Floor

Phase 1	14,500m ²
Phase 2	7,500m ²
Total	22,000m ²

Handrail

Phase 1	800 linear metres
Phase 2	300 linear metres
Total	1100 linear metres

Staircases

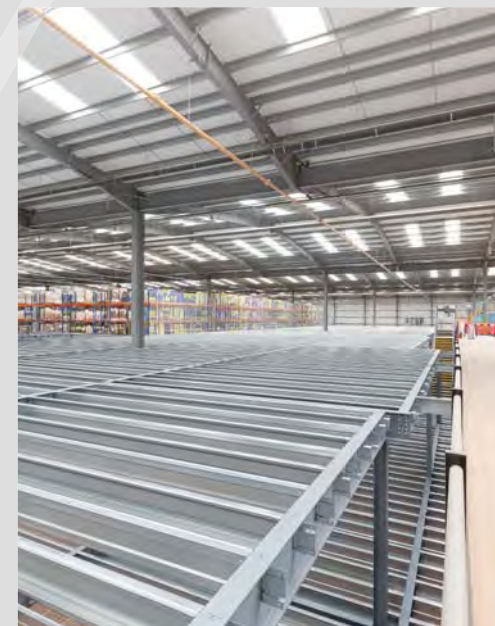
Phase 1	6
Phase 2	3
Total	9

In addition to the existing Longspan Shelving supplied and installed by Avanta that gave 50,000 BDC box locations, Avanta supplied and built new Longspan shelving that offered an additional 60,000 BDC locations.

Mezzanine Floor Uses Include...

Running concurrently with the mezzanine project were multiple projects centred around the uses of the floor. In addition to the BDC storage these include:

- **Secure partitioned area formed from solid steel and mesh panels with garment hanging system for high value stock.**
- **Creation of specific self-contained workspaces for concessions including partitions, suspended ceilings, benches and more.**
- **Covid secure packing areas with 2mx1m workbenches and 2m high covid screens.**





Multi tier mezzanine floor

Floor approx: 14,500m²

6 Staircases

4 Up and over pallet gates



Multi level mezzanine floor

A further 7,500m² floor space

Extra 60,000 BDC box locations

300 Linear metres of handrail





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REFURB AREA

REFURB STATION
4

6

1

Another Turnkey Project for Leading Home Delivery Company

The UK's leading two-person home delivery expert ArrowXL has expanded its UK network with a new 85,000 square foot warehouse in Enfield.

The grade A warehouse is the perfect addition to the growing number of UK facilities in the ArrowXL portfolio with its location and features including:

- 75,000 sq ft of Warehouse.
- 8,000 sq ft of CAT A Office.
- 12m Height.
- 6 Dock Levellers.
- 42m Yard.
- 75 Parking Spaces.

Avanta UK Ltd successfully tendered for a turnkey package to fit out the warehouse and the offices. This is the 4th major contract Avanta UK Ltd have undertaken for ArrowXL in recent years but this time, in addition to the pallet racking there were additional requirements, including:

- Full Electrics including energy efficient PIR LED lighting for the warehouse & offices.
- Office Fit Out to create offices, meeting rooms, breakout areas, toilets plus a new canteen facility. This included an air conditioning system designed to be more Covid secure with extra filtration.

- Automatic Sprinkler System for the warehouse including new tank and pumphouse.
- Security Caged Area with shelving and benches for hand-held scanners.

Having partnered with ArrowXL on numerous occasions, Avanta UK Ltd quickly designed the most appropriate wide aisle pallet racking solution following on from the recent larger Blackpole project blueprint. This includes:

- Pallet racking to accommodate circa 5000 pallets.
- Certain runs in the racking system had bottom mounted beams to accommodate larger white goods and furniture.
- Each upright that supported a bottom mounted beam had a bespoke 600mm high rack guard upright protector. All other uprights were also fitted with polypropylene post protectors.
- Each racking bay had appropriate end of rack protection utilising welded steel tubular barriers.
- Each pallet position is clearly labelled using magnetic labels, aisle markers and bay labels.
- Each pallet racking bay has end of aisle load notices in accordance with SEMA regulations.

The Programme of Works was originally a ten-week build, however post the order being placed the client required the project to be completed earlier. Avanta UK were able to accommodate this and delivered 9 days under the original finish date.



The new site at Enfield will enable ArrowXL to further increase its warehousing and delivery capacity in London and the South East. It is part of the company's commitment to having the right infrastructure in place to continue to provide high levels of service across the UK.

"This was another opportunity for Avanta to work with the excellent team at ArrowXL. Understanding their needs enables us to work quickly and efficiently with each other to achieve the business's aims and ambitions. The added bonus of designing and building new offices, canteen and toilets was an excellent opportunity for me to demonstrate our company's turnkey abilities and I know they will be delighted with the end results."

Avanta UK Ltd.





Wide aisle pallet racking

5,000 (Circa) pallet spaces

Complete office fit out

Automatic sprinkler system



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Please respect
social distance
guidelines



END to End Storage Solution

Leeds based Storage Equipment Specialists Avanta UK Ltd have completed one of the largest multi-tier shelving systems projects in the UK for an influential multi-channel menswear retailer.

The online demand for cutting edge sportswear, trainers and the best in contemporary menswear has driven the requirement for this large-scale expansion programme. Alongside UK based flagship stores the client has a growing online presence servicing the UK and to over 80 Countries Worldwide fuelling the requirement undertake this project.

Having worked with the client before, Avanta UK already had an insight into what the best solution for the client would be in order to increase storage capacity of a warehouse extension for box storage utilising the full height, width and length available. This resulted in refining a design for a multi-tier shelving system incorporating a mezzanine floor.

Avanta UK Ltd successfully tendered for the project against a very competitive field and were awarded the contract. It could not be anticipated that this project would be undertaken during the Covid-19 National Lockdown. The multiple trades teams had to complete the installs whilst following Government advice in all aspects.

This also could have impacted the supply of raw materials with various factories closing or operating on a reduced staff number. However, despite this situation the project was successfully completed in the 20 week

programme required working along side the Sprinkler company, Electrical Contractor and other Trades.

The contract worth circa £1.8 million is for one of the largest multi-tier shelving systems in the UK giving the client: -

- 3 Levels plus ground – (Ground, Level 1 & Level 2 for shelving and Level 3 for storage and potential growth.
- Each level measures 145m in length x 35m width giving 5075m square per level x 3 in the structure = 15,225m square.
- If you include the ground level, there is over 20,000 square metres of storage.
- 15,000 Shelves within the structure.
- A capacity of 550,000 shoe boxes can be stored.

Access to each level for product included 3x goods lifts. One of which had capacity for 4 pallets and the other 2 lifts could accommodate 2 pallets each. Pedestrian access is via 4 staircases of which 2 were enclosed.

Avanta UK also built a galvanised staircase for outside with access to all areas as well as various fire exits as required.

Avanta Commented – *“This was a great contract win for myself and Avanta after many weeks of refining the design to create an impressive storage solution for the client that will help them satisfy their growing demand now but also in the future. This project displays the capability of the Avanta team, and it is a solution that other large Internet Retailers could adopt going forward.”*



Multi tier shelving system

3 Levels plus ground

Each level 145m in length

20,000m² of storage





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Storage Equipment Fit Out Project For New Lockwood Group Distribution Centre

Lockwood Group have had a new 110,000sq ft warehouse purpose built in Denby to add to their existing 7 UK Sites. The Group is a family run business and currently has over 280 employees and activities include UK haulage and storage, frozen food production and commercial vehicle maintenance.

Leeds based Storage Equipment Specialist Avanta UK Ltd worked closely with the Lockwood team and Handling Equipment Specialists to optimise the pallet storage of the new Grade A Warehousing Facility.

The project included: -

- **Pallet Racking - Arranged in a very narrow aisle configuration to 13 metres high giving a storage capacity of circa 24,000 pallets to store a combination of Euro and UK pallets.**
- **Mezzanine Floor - Two tier fire rated mezzanine floor giving circa 1000 square metres of additional storage space. Access is via a utility and general access staircases. Pallet access is via 4 pallet gates.**
- **Protective Barriers and Upright Protectors.**
- **Pallet Location Labels.**

Lockwood Haulage are one of the UK's leading logistics providers. They have a large diverse fleet, with cost effective, quality, sustainable logistics solutions. Lockwood sites are in excellent locations to serve the whole of the UK and beyond on a same-day or next day basis.

With the addition of this excellent new facility Lockwood are in the perfect position to deliver on their client promise.

Avanta UK Ltd offers a full office and warehouse interior design and installation service. We offer a free Site Survey and CAD Design and Consultancy Service, responding promptly to your enquiries.





Very narrow aisle racking

24,000 (Circa) pallet spaces

Two tier mezzanine floor

4 Up and over pallet gates



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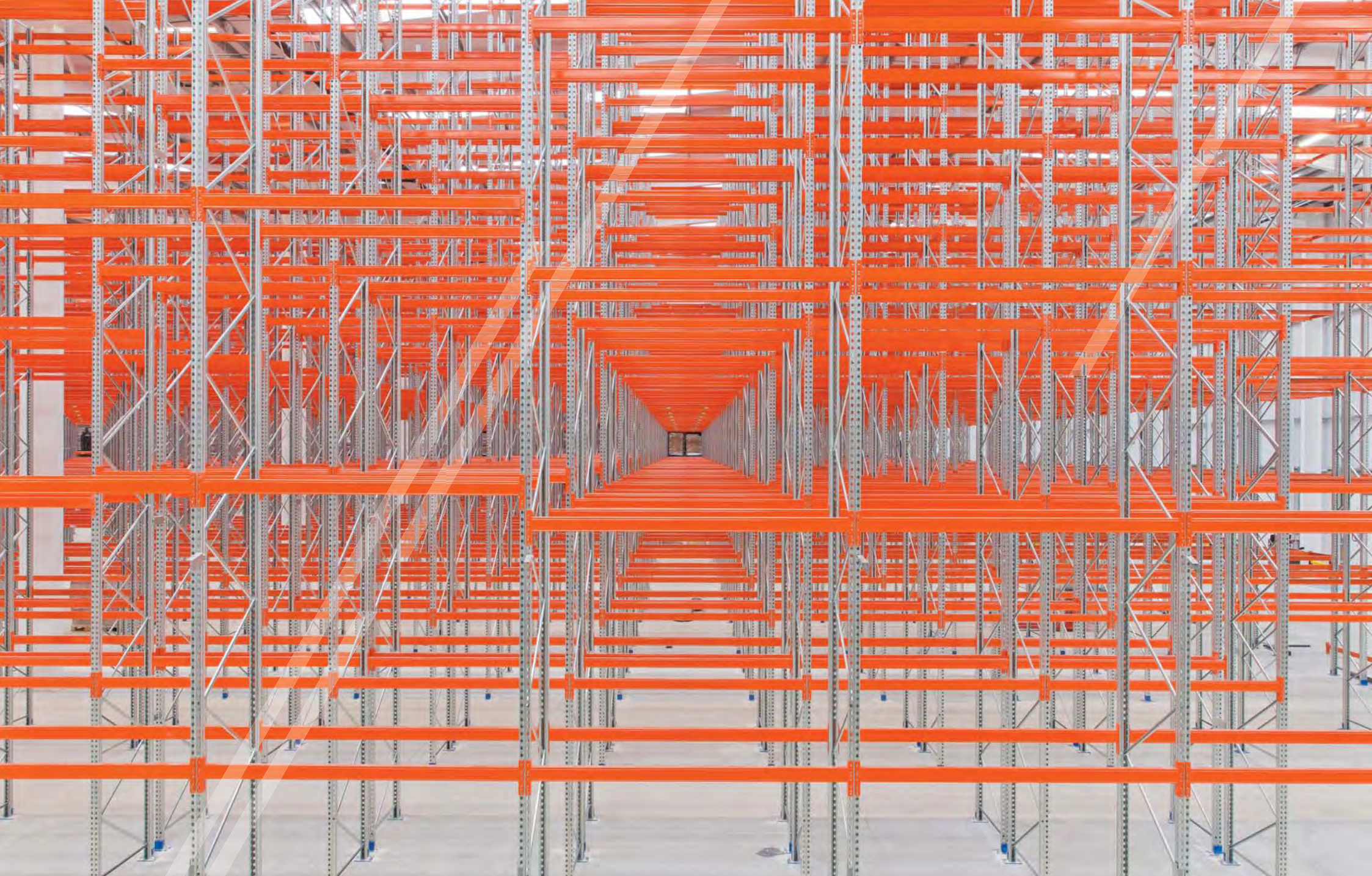
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Avanta Create Safe, Secure Enclosed Environments for Meggitt Plc

The new 440,000 square foot Headquarters for Meggitt Plc located in Ansty Park in Coventry is a state of the art UK engineering and advanced manufacturing centre of excellence and global. The site is one of the biggest investments in UK manufacturing capability in a decade as well as being Meggitt's largest infrastructure investment in history, one of a number of recent global infrastructure investments.

As one of the largest industrial projects in the Midlands, this hub for next-generation UK aerospace innovation is the European Operational Centre for braking systems, thermal solutions, aftermarket. Built in 2020 and now internally equipped and fitted out, this specialist manufacturing and testing unit is now operational. Meggitt Plc is a global leader in aerospace, defence, and energy with 1000 staff to be based at the site creating a centralised UK operation.

Working in partnership with Clegg Construction & Meggitt Plc – Avanta UK Ltd designed and supplied a multiple enclosure solution that could be used for various applications across the factory.

The project evolved over a 12-month period and resulted in some 65 enclosures supplied and installed over 12 zones within the factory. Various applications for the enclosures included multiples of:

- Machine Housing.
- Offices.
- Canteens and Break Out areas.
- Workshops.
- Control Rooms.
- Test Units.
- Paint Room with 2x Speed Doors.
- Stores.

Working closely with manufacturing partner Troax it was felt that a combination of double and single skin steel partitions would be the perfect solution and provides many advantages over a traditional plasterboard or timber product.

Steel Partitions are formed from a panel system to divide and subdivide the workplace and are commonly used in a warehouse and factory environment. Panels are fully demountable and can be re-configured to be used in other areas of the factory if required. Utilising the standard Sigma single skin steel and Elan double skin steel partitioning panels offered the client flexibility to have a variety of solid and solid with glazing and / or mesh enclosures to suit the application. A small number of enclosures utilised a bespoke panel arrangement.

Sound proofing to achieve the required dB rating and fire rated panels for specific enclosures and housings ensured compliance. Specialist enclosures for strict temperature control and air purification applications were also supplied and installed as part of the project. Mezzanine floors with high-level bracing to utilise floor space, walk-on ceilings were also part of the Avanta contract.

All doors were supplied to specified locking arrangements – from access control to simple



euro cell lock or thumb turn locks etc / door closers. A bespoke large steel double sliding door was installed in zone 1 and 2x speed doors to the paint shop.

Quote from Meggitt: "Ansty Park is a major advance in the development of our global manufacturing footprint and we have been pleased to work with Avanta to build these important enclosures which can be used for various applications as and when we require."

Quote from Troax: "We are very proud to have supported Avanta with this project. It is not often we get the opportunity to showcase our wide range of solutions and products, all under one roof. This project included single skin, double skin, fire and acoustic systems, pressed panels, mesh panels, glazed panels and ceiling systems. Working in close partnership with Avanta, we were able to

navigate all of the challenges of the pandemic and ensure work was completed safely and on time. Our whole ethos is 'Protecting People, Property and Processes' and we are delighted that we have been able to install that fully into this unique project."

Quote from Avanta UK: "We were delighted to be awarded this project for such a large blue chip aerospace company. The results of everyone's hard work have contributed to a modern state of the art facility one which Meggitt can be proud of. These enclosures will help Meggitt employees work safely and securely in a modern factory environment. Working with our supply partner Troax enabled a quick build time of a top-quality steel partitioned product. Under the CDM of Clegg Construction we worked safely and diligently to complete this project on time and to budget"

65 Enclosures over 12 zones

Single & double skin partitions

Workshops, canteens, offices
and many more

12 Month project













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20,000+ Pallets Stored – VNA Racking Project

Avanta UK successfully tendered for and completed a large scale VNA Pallet Racking project. This project was for a leading contract packer and drinks producer based in the East Midlands.

The project included:

- Dismantling and removal of the existing racking system
- Design, supply, and installation of VNA Pallet Racking System to allow for storage of heavier pallets.
- Pick & Deposit (P & D) Locations at both ends of the racking structure
- Beam location labels and aisle end signs

The Racking system is designed to store over 20,000 1.6m high pallets with a weight of 1,250KG per pallet. The racking structure has 8m high frames at the eaves and rising to 16m high to the centre of the warehouse.



The idea of the P & D locations is to provide temporary accommodation for counterbalance trucks to pick from whilst the VNA trucks are operating efficiently in the aisle.

To achieve the load capacity and number of pallet spaces the racking was re-engineered by the factory to include various spine bracing patterns. This subsequently added a substantial amount to the build time.

In spite of the issues faced on this large-scale project, Avanta UK saw the project through to completion and the client now has the warehouse fully operational with the efficient SEMA compliant VNA racking system in place.

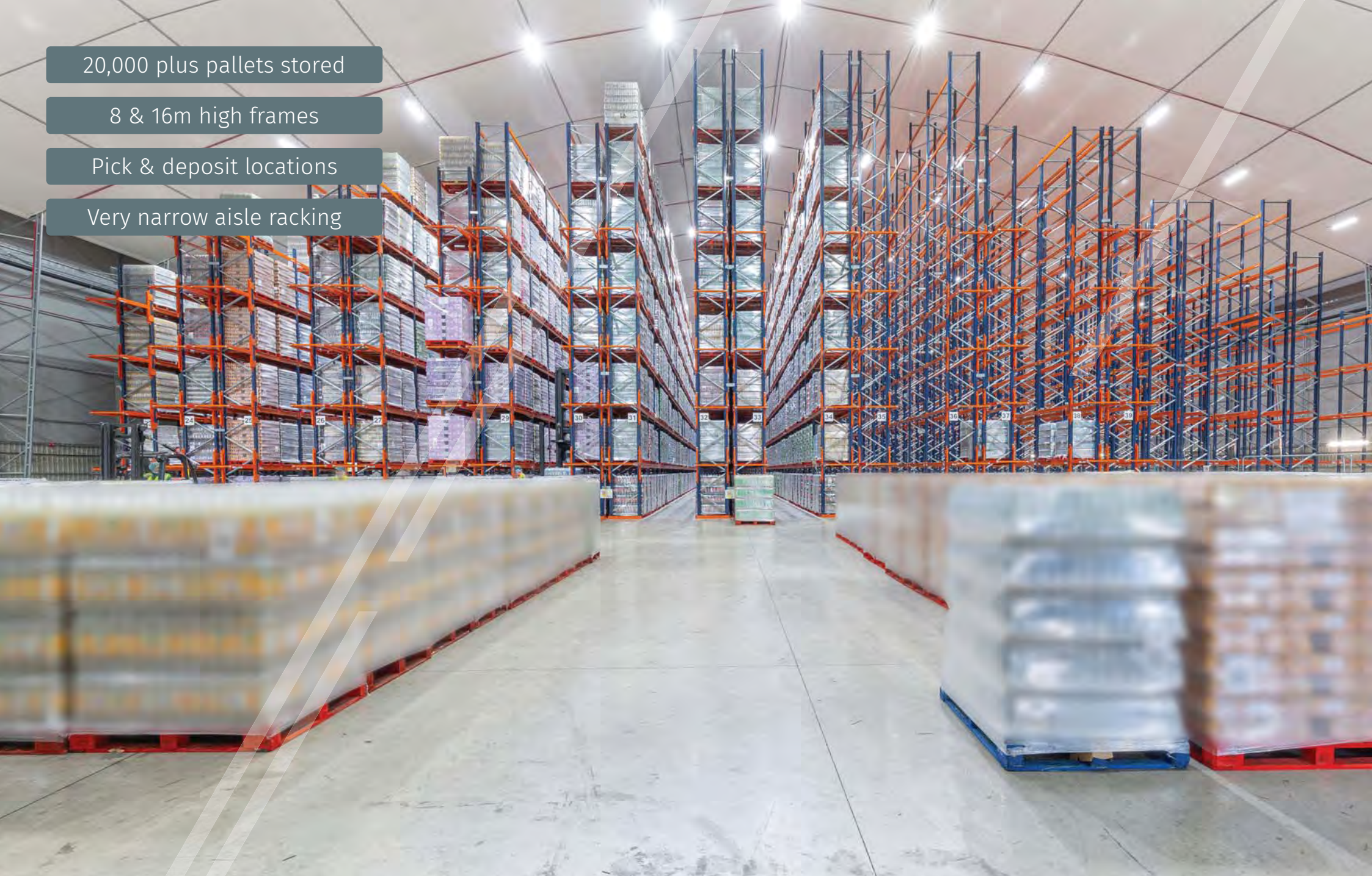


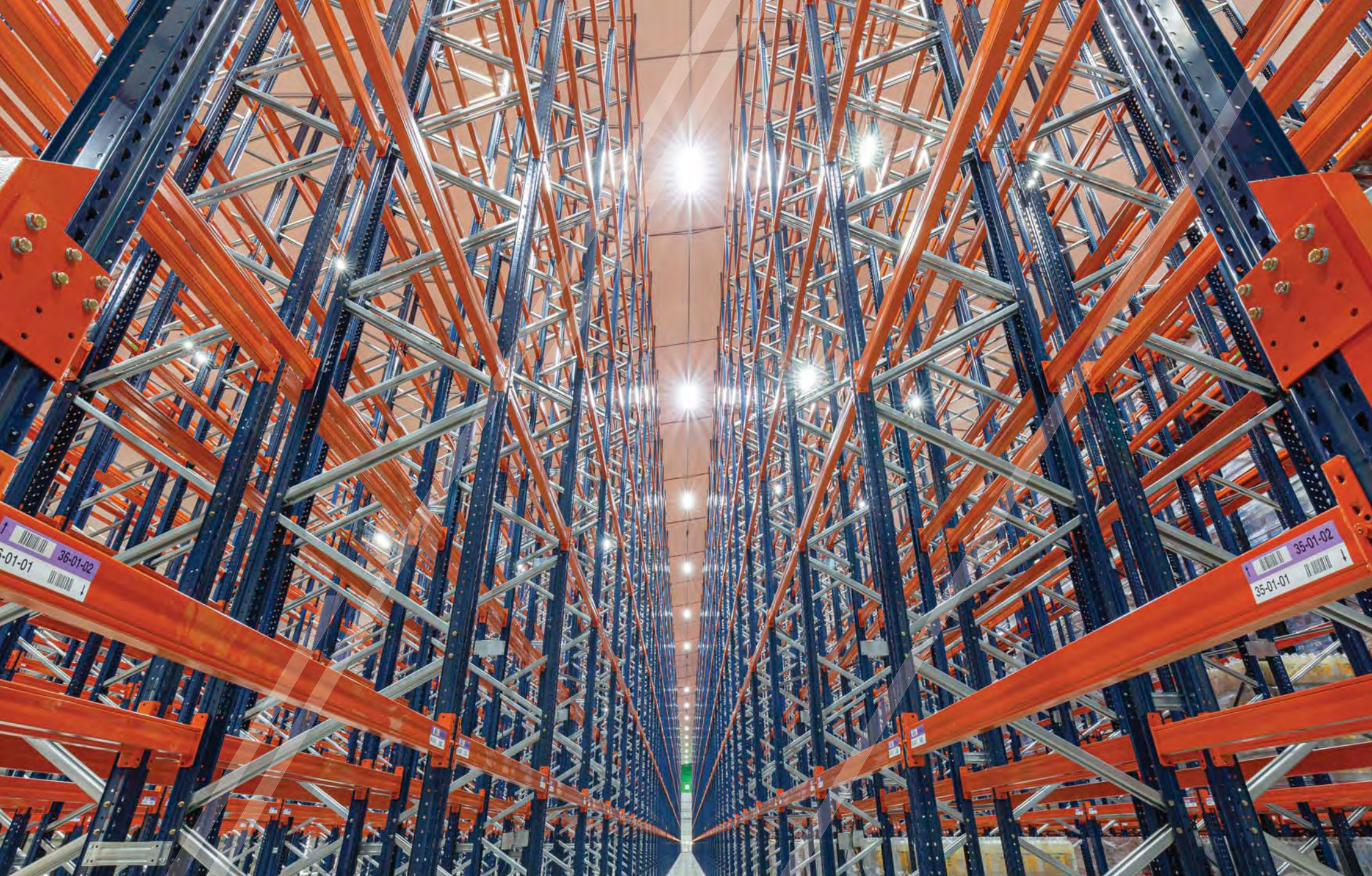
20,000 plus pallets stored

8 & 16m high frames

Pick & deposit locations

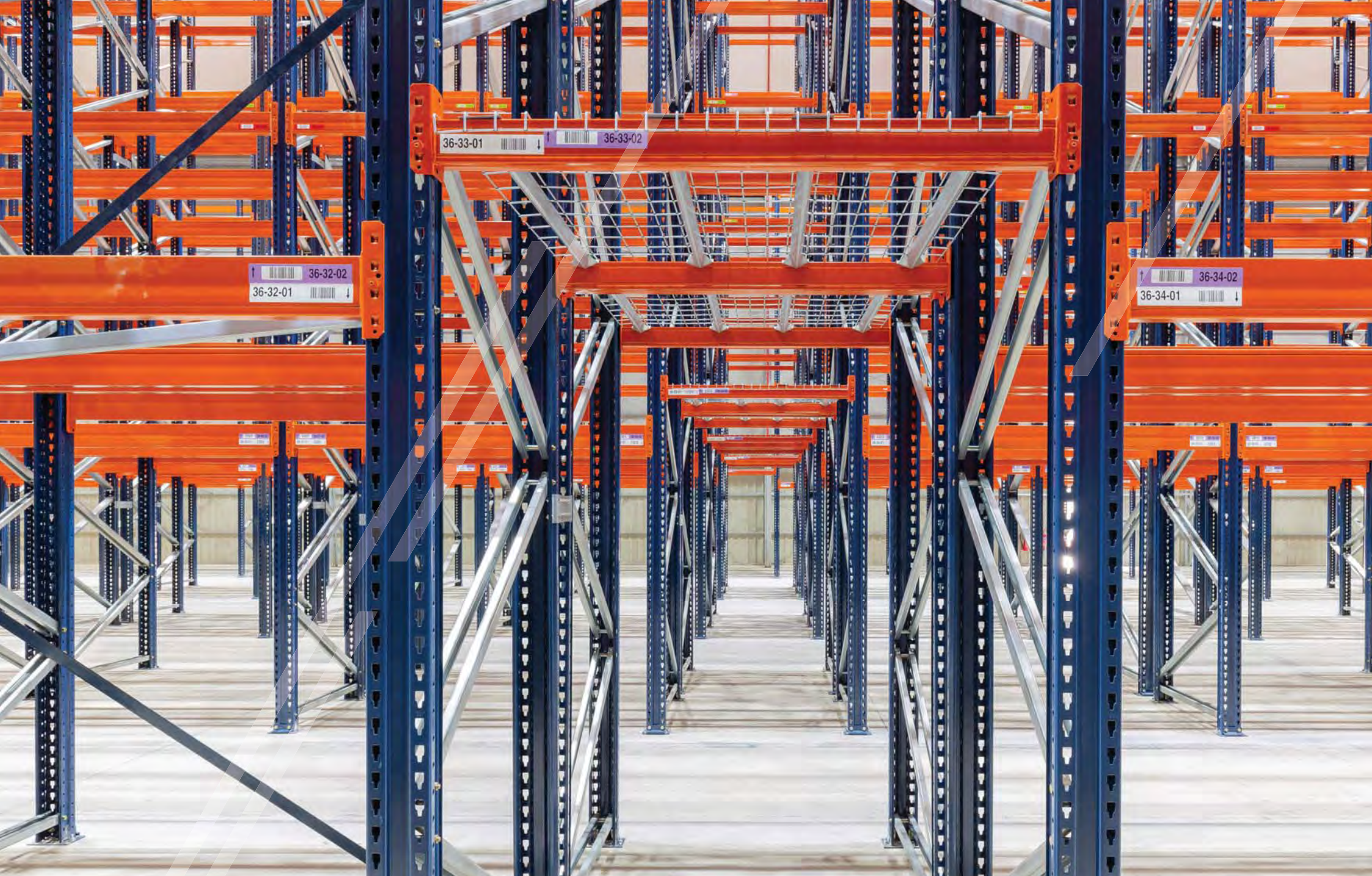
Very narrow aisle racking





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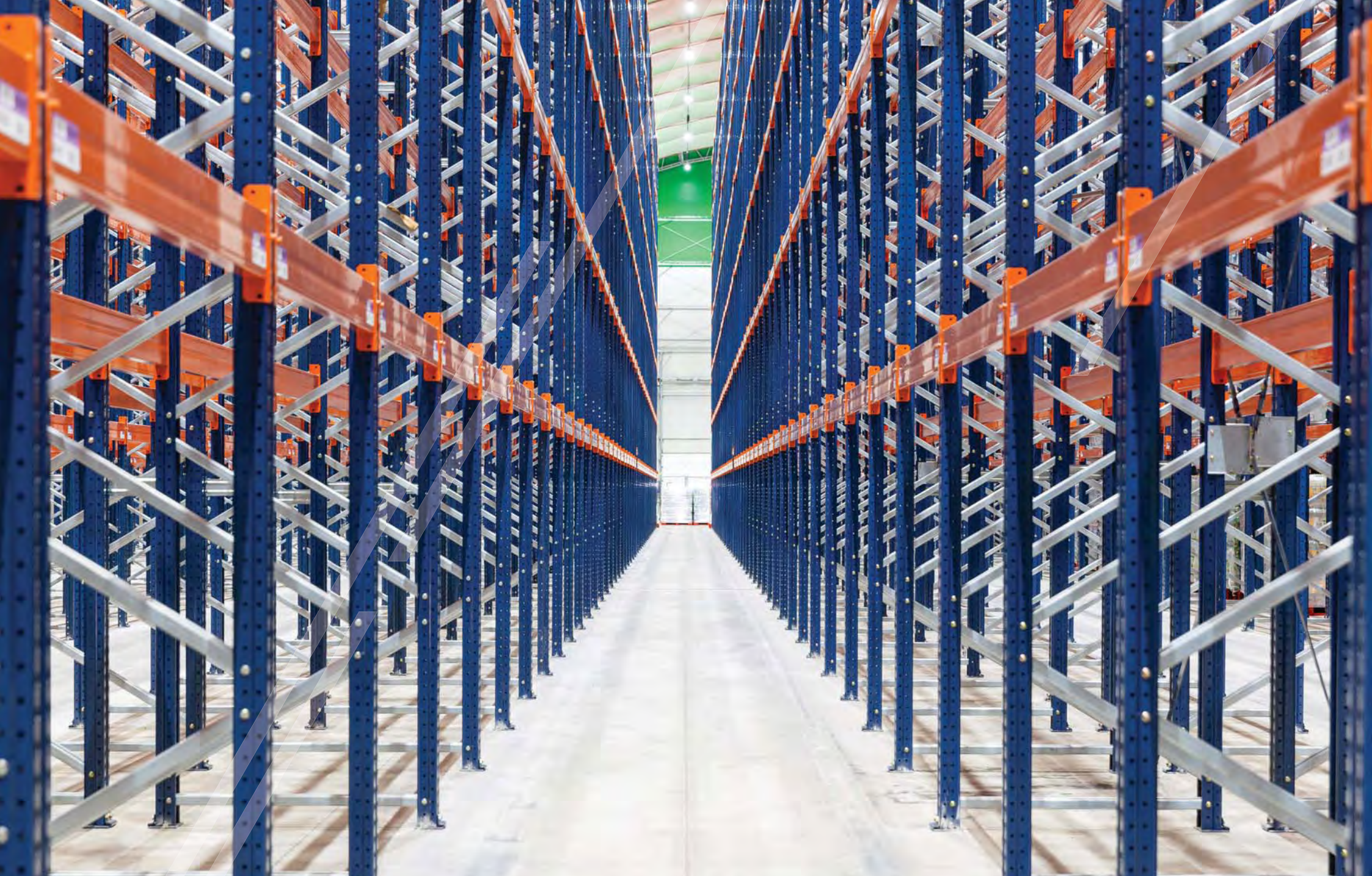
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Multi-level Storage Solution for Fastest Growing Workwear Retailer

Workwear Express, established in 1990 is a leading retailer in Personalised Workwear, Uniform & Promotional Clothing. Now, part of the Bunzl plc family the company is the fastest growing workwear retailer in Europe with a customer base of over 600,000 (Trade & Private) clients, serving businesses across one hundred different countries. From concept and production of a 20,000+ product range and offering secure, next day delivery, Workwear Express is an extremely busy company, looking to expand storage capacity and maintain product throughput.

Workwear Express has two purpose-built factories and fulfilment centres, with over three hundred dedicated colleagues all headquartered in Durham, UK.

To make full use of the cubic height in 1x fulfilment centre, Avanta UK was invited to design, supply and install a turnkey solution to increase storage of finished goods.

Using short span shelving with adjustable shelf levels, dividers and bin fronts on a two-tier fire rated mezzanine measuring 425m² offered the client an additional circa 7500 pick locations. **There were 4 different bay profiles to suit different sized packets, garments, and boxes throughout the scheme.**

A storage mezzanine floor is not tied into the building and therefore is a free-standing

structure. This means that the rateable value of the warehouse building has not changed. Effectively, the client has increased the square footage of a building whilst keeping business costs down.

The adjustable elements of the shelving coupled with a mezzanine structure gives Workwear Express a future proof storage solution to add locations, change layouts and re-purpose areas as the business grows. For example, if a personalisation area is required or moving the pick and pack area upstairs then the shelving can be re-configured to suit.

The mezzanine levels can be loaded via pallet gate per level and individual product, boxes, parcels etc can travel between each mezzanine level via a bespoke spiral chute.

Part of the scheme included fifteen bespoke packing stations on the ground floor to accept items from the chute and two stations positioned on the mezzanine.

As an extra safety measure the perimeter edge protection of both mezzanine floor levels had a mesh guard to arrest the fall of any small items from the floor.

Prior to the storage solution installation Avanta UK installed a full floor area type 3 epoxy resin floor coating to seal and smarten the overall appearance of the ground floor.

Workwear Express corporate brand colours feature throughout the scheme with the distinctive orange handrail, workbenches, and moulded chute.

Practical competition in time for a traditional peak period was achieved.



7500 Pick locations

425m² Fire rated mezzanine

17 Bespoke packing stations

Grey epoxy smooth resin floor







A turnkey project for Advanced Dynamics

Avanta completed a 170 square metre fire rated mezzanine floor with offices and showroom project. In the interim Advanced Dynamics has grown and invited Avanta back to tender for a further “Workspace Creation” project.

Avanta successfully tendered for and completed the following works: -

Below Mezzanine:-

- Refurbished the existing reception – This included new energy efficient lighting, new ceiling, decorations and Karndean flooring.
- Created a new access corridor from stud partitioning.
- New modern kitchen and break out area.
- Toilets were fully refurbished and modernised.
- Formed a new showroom under the mezzanine for display of machinery. 2.7m high doors were supplied and fitted for the machine access.
- Created a new archive storage area.
- LED lighting with PIR & Smoke detection.

Above Mezzanine:-

- Refurbished the 2013 offices with new suspended ceilings, the latest LED lighting and new decorations.
- Created a new ‘mini’ showroom area from partitioning.
- Formed a new glass boardroom and additional meeting office with new branding idea, Karndean, electrics etc.
- All new air handling and electrics.
- Anti-slip Karndean throughout.
- New office furniture and storage equipment for upstairs.

Avanta commented-

“You know that feeling you get when a project exceeds all expectations? Well that is what Avanta achieved for me with this project. They have transformed our working environment to budget, on time, with a friendly, helpful and courteous team on site at all times. Thanks to all at Avanta”



Workplace creation project

170m² mezzanine floor

Kitchen and break out area

Refurbished offices







Healthy Lines of Pallet Racking

Avanta UK Ltd have completed their 4th large pallet racking project for a leading provider of hygienic protective equipment – Polyco Healthline. This is the 4th project of this type completed by Avanta for Polyco / HPC in the last 5 years, highlighting their growth over this period and the need for capacity for future expansion.

Avanta UK has worked closely with the client over the last 20 years, providing all the pallet racking and mezzanine floors to 8 warehouses all built by the client based on the same site in Bourne, Lincolnshire.

Polyco Healthline handle over 5000 shipping containers and 3 billion disposable gloves per annum with 200 staff servicing 3500 distributors in 38 Countries. This gives an indication of the scale of the operation prior to this project. Existing pallet position count within the warehouses stood at 32,000.

For the new warehouse, the Avanta Narrow Aisle Pallet Racking design realized and additional pallet positions taking the Polyco total to circa 37,000.

The pre-galvanised warehouse racking frames are a combination of 9m and 10m in height without the need for splicing to aid rigidity and enhance the speed of build. Contrasting 2 and 3 tonne capacity beams compliment the look and feel of the project.

The project was completed with 53 rack end steel barriers in a high visibility colour along with rack load notices as standard. The client labelled their own racks.

The works were completed to the estimated lead-time and budget.

Client Comment: “We have worked with Avanta for a number of years as our trusted partner of choice for storage equipment. The installation team were terrific working at a good pace and cleaning as they went. We would always recommend Wayne and Avanta UK to anyone.”

Avanta: “It has been a pleasure working with this client closely over the years and increasing their storage capacity as they have grown. We have supplied all the pallet racking for each warehouse along with a fire rated mezzanine floor and both shortspan and longspan shelving. We hope to work with the client again soon.”





Narrow aisle racking

37,000 Pallet positions

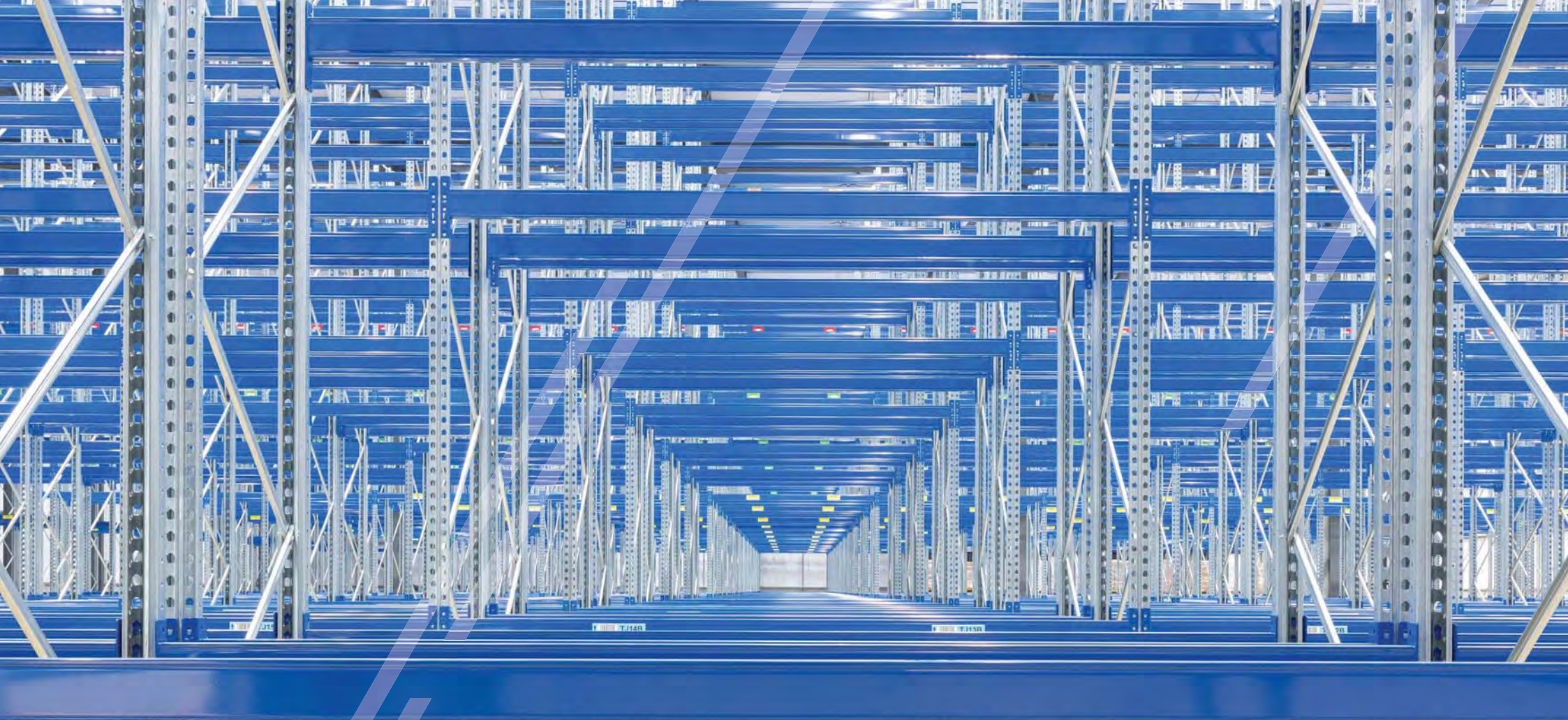
53 Rack end steel barriers

2 And 3 tonne capacity beams









Two by Two Tier Fire Rated Mezzanine Floor Project

Avanta UK successfully tendered for two fire protected two tier mezzanine floors in adjoining fire chambers of a largescale retail warehouse operation.

This wide-ranging project also included various shelving systems, automation, goods lift, and packing benches.

Following a number of meetings with the client and MHE provider to gain a better understanding of their processes, the proposed storage solution would need to seamlessly integrate with the existing automation as well as create a vast storage area.

The castellated end of the mezzanine floor(s) linked in with the Very Narrow Aisle (VNA) Racking system and aligned with the racking aisles allowing the VNA trucks to side load palletised stock straight on to the mezzanine levels.

The wire guidance was extended past the aisle into the infeed conveyor. An automated drop on conveyor system designed to receive single and double pallets was proposed for the infeed of the floor allowing palletised stock to be transferred from the racking to the mezzanine seamlessly.

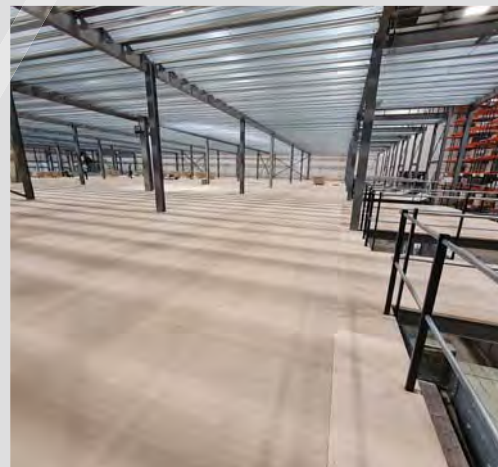
The pallet transfer system takes the pallet to the operatives who will then manually receive the pallets using pump trucks. The stock can then be distributed into the BDC (Bulk Distribution Carton) shelving located on the mezzanine floor.

The project also included:

- A dedicated Avanta projects team co-ordinating all trades
- Principal Contractor cover with HSE notification of start dates etc.
- A 4-pallet capacity goods lift was installed, and this included building works and pit formation
- Relocation of existing five tonne box making machine to the top level of the mezzanine. This included the decommissioning, transport, contract lifting and commissioning. This meant the mezzanine required retrofitting steel strengthening support.
- The decommissioning of an existing conveyor system at an adjacent site and relocate to level one of the mezzanine floor to feed the packing benches

The 2x two tier mezzanine floors were tied together through a 4-hour fire rated wall. One of the mezzanines also tied into an existing mezzanine floor.

All penetrations through the fire wall had to be design engineered with support steel and design specified fire protection.



10,000m² Mezzanine floor

40 Week project

Principal contractor role

Integration with automation







Multi-Level Picking Structure for Iconic Heritage Brand

The Storage Solution

To store multiple size boxes with personnel access to each box – A multi-tiered Rack supported structure with walkways and mezzanine floors was the proposed solution. This gave Barbour:

- 78M x 58M – Ground plus 3x Walkway Levels
- Finished Floor Levels – 2770, 5,490 & 8,210mm
- Circa 15,000 square metres of storage
- 4700 levels of picking, the equivalent of:
- 84,000 (circa) BDCM1 Retail Boxes if boxes employed were uniform

Selected Details

3 Tier Storage and Picking Structure constructed from Heavy Duty Pallet Racking with Mesh Decks, incorporating.

Mezzanine Floors

2x 3 Tier Mezzanine Floors – Fire Rated
1x Single Level Mezzanine Floor – Fire Rated

Mezzanine floors within the structure created marshalling areas and space for pick and pack operations.

Pallet Racking

10 to 11M high heavy-duty pallet racking with timber decked walkways supported by secondary support steels. Each shelf level incorporated a chrome wire mesh deck shelf support.

Access Throughout the Structure

Person access to each level was achieved by constructing 4x fire enclosed staircases with access to each floor level of the structure at multiple points.

2x Pedestrian / Goods lifts

Goods can be transported around the structure via 2x conveyor systems and 4x spiral chutes.

Pallets can be deposited on to floor levels via the 4x pallet gates supplied.

Safety Considerations Included

Smoke Baffle – Avanta designed, supplied, and installed a non-load bearing plywood cover roof supported via 47x47mm Unistrut construction. This was to the top of level 2 to reduce the sprinkler requirement at roof level and satisfy Part B escape regulations.

Fire Enclosed Staircases – For safe pedestrian access to all levels of the structure.

Handrail – Fitted to exposed edges of the structure.

Anti-collapse Mesh – to arrest the fall of boxes to exposed edges.

Netting – Also installed in certain edge areas.

Timescales

Working closely with the Principal Contractor – Meldrum Group, a critical path for the main phase of works was agreed. This was to ensure zones, aisles of the main structure were to be handed over for the mechanical & electrical teams to follow.

The final phase was to fit the mesh decks to each location once all services were in place. Avanta provided site supervision throughout



the duration of the project of multiple trade teams.

Comments

Avanta – “It has been a pleasure to work with the team at Meldrum Group on behalf of Barbour. The Meldrum team are very professional, organised, and efficient at delivering projects of this scale. To create this multi-level structure for a brand with such rich heritage has been extremely pleasing”.


Further Product Information

What is a Pick Tower / Multi-tier Shelving?

These systems are a cost-effective alternative to mezzanine floors or extending the warehouse facility or relocation.

Multi-tier shelving floor (Also known as a picking tower) is a free-standing structure, that it is designed to provide storage to all levels of the structure, within the same footprint. This storage system is also known as a rack supported structure and they are used to improve picking efficiency and maximising storage capacity. This is achieved by utilising the available height in the warehouse.

The structure utilises double or multiple height shelving (Can be shortspan or Longspan) or pallet racking with steel angels to support the flooring materials (Could be chipboard, steel etc) to create walkways and steel staircases to provide access to all products. A self-supporting structure with 100% accessibility.



Circa 15,000m² of storage

4700 Levels of picking

Three tier storage and picking

2x Three tier mezzanine floors



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Warehouse Storage Solution for Leading Paper Merchant

The UK's leading paper merchant is a long-standing client of Avanta UK with multiple stock holding facilities across the UK already kitted out with Avanta Pallet Racking.

For the new site in Wellingborough, Northamptonshire Avanta UK were approached to offer a competitive storage solution to store multiple paper products from office paper, boards, and packaging materials. All stored-on pallets with various different pallet types.

The solution offered was a standard wide aisle 9.6m high adjustable pallet racking system configured with five different bay profiles to suit the different pallet sizes, the quantities to store and the handling equipment employed.



Combining different rack frame depths and beam capacities using a racking system that is adjustable on a 50mm pitch.

Avanta supplied and fitted open boarded timber decks as the perfect decking material to spread the weight loading of the pallets.

Steel tubular rack end guards were floor fixed to offer protection to the racking structure. As standard, load warning notices were issued and fixed to rack ends.

The project was completed in the set required time for the warehouse to be operational as specified.

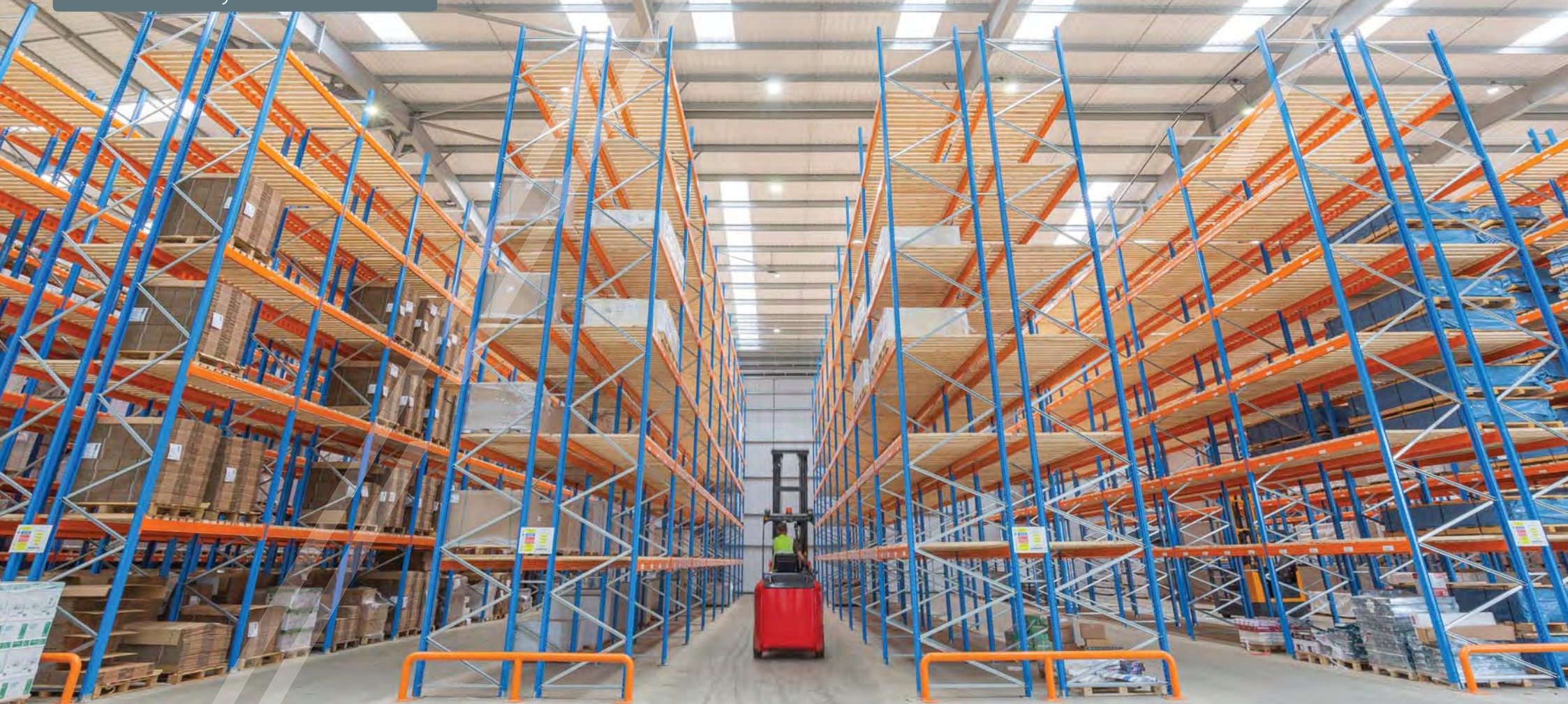


FEM & EN compliant racking

9.6m high racking system

5 different bay profiles

Rack end safety barriers included





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AVANTA





CONSULTATION / SURVEY

We carry out a free, no obligation site survey to decipher your exact requirements.

DESIGN SERVICE

At Avanta we have the expertise to design your workspace to suit your needs.

PROPOSAL

We prepare a document that will highlight the key areas of the potential project.

PROJECT PLANNING

We will appoint you a Project Manager who will be a single point of contact during your installation.

PRODUCT DEVELOPMENT

We work with you and with our manufacturing partners to source the best products for the job.

PROJECT MANAGEMENT

We will provide information as required and oversee the smooth running of your project.

HEALTH & SAFETY

Projects are delivered safely and in accordance with the latest regulations.

INSTALLATION

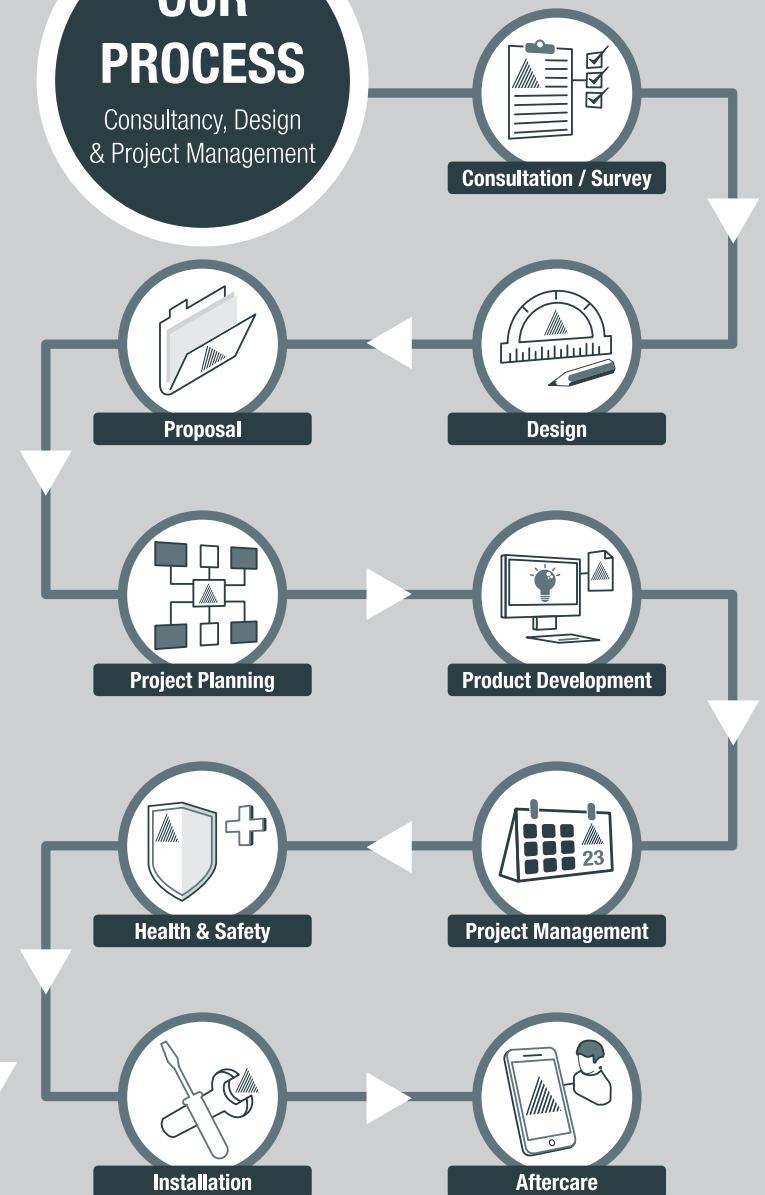
Equipment is installed in accordance with SEMA guidelines by SEIRS qualified installers.

AFTER CARE

We offer further ongoing technical support and maintenance if required.

OUR PROCESS

Consultancy, Design
& Project Management



MEZZANINE FLOORS

OFFICE INTERIORS

PALLET RACKING

SHELVING SYSTEMS

STEEL PARTITIONS

WORKPLACE EQUIPMENT

WAREHOUSE FLOORING

PRINCIPAL CONTRACTOR

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