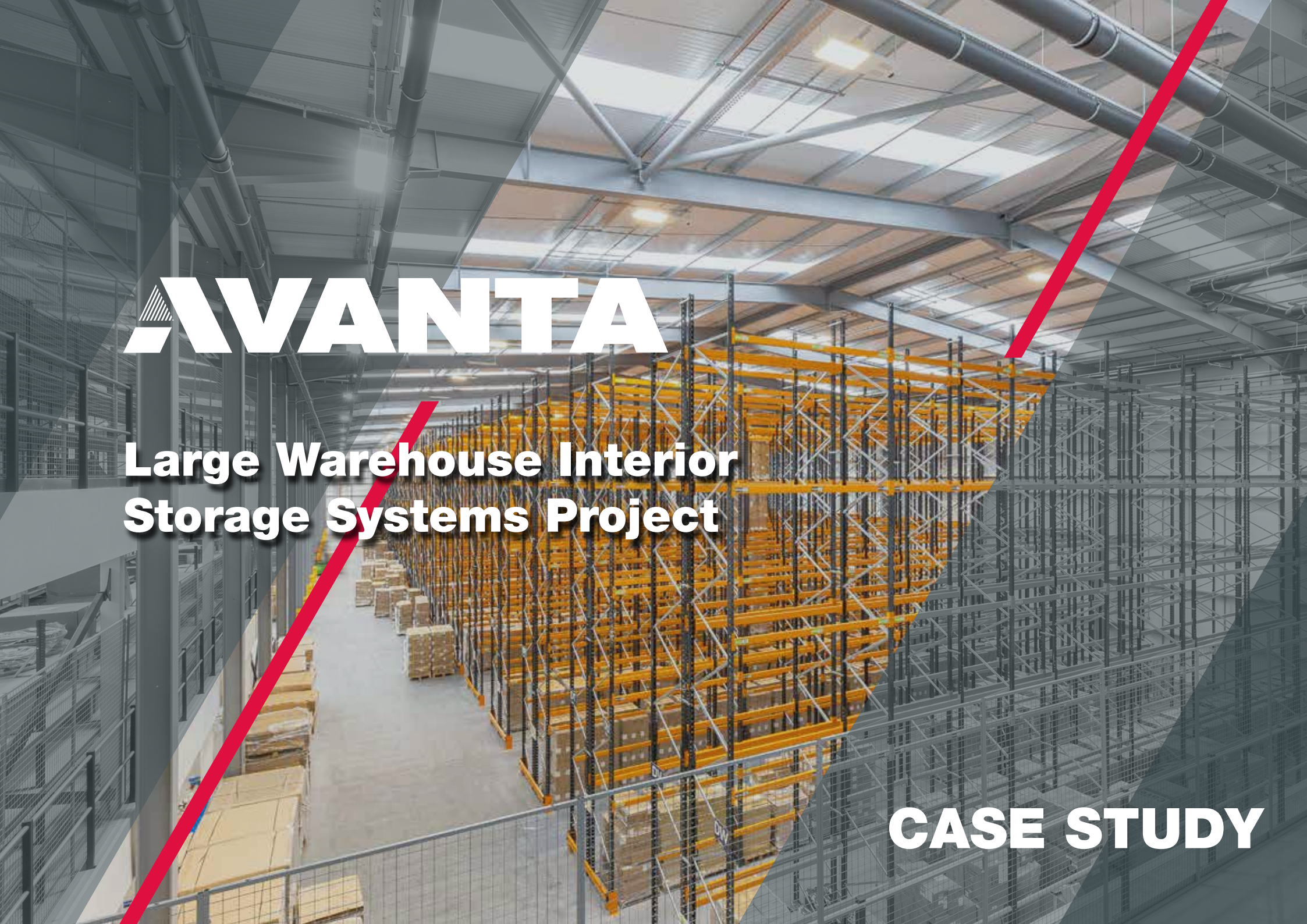




AVANTA

Large Warehouse Interior Storage Systems Project

CASE STUDY



Large Warehouse Interior Storage Systems Project

Avanta UK Ltd, a Leeds-based specialist in warehouse storage equipment, successfully completed a second large-scale project for a major British mobility retailer. Working alongside the principal contractor, Avanta was responsible for the design, supply, and installation of a comprehensive interior storage solution.

Project Components

Site Set-Out and Demarcation

Working in collaboration with the Principal Contractor and the Mechanical & Electrical Contractor, Avanta was tasked with marking out the VNA (Very Narrow Aisle) portion of the warehouse. This early demarcation enabled floor grinding and high-level lighting containment to be completed several weeks ahead of the pallet racking installation. To ensure precision, we utilised a state-of-the-art site demarcation tool.



Multi-Tier Mezzanine Floor

A fire-rated, two-level mezzanine floor (plus ground level) was installed, creating 1,400m² of additional usable space. The structure included compliant handrails and mesh panels to prevent items from falling from height.

- Personnel access via two staircases
- Goods access via four pallet gates
- Boxed products were decanted via two designated chutes

Very Narrow Aisle (VNA) Pallet Racking System

Designed to accommodate over 7,000 pallets, the VNA racking system stands 10.5m high with clear entry beams at multiple levels (1800mm to 9000mm).

- Future-proofed with readily available spare parts for reconfiguration
- Rack-end barriers installed as standard
- Full location labelling included

Longspan Shelving System

266 bays of longspan shelving (2145mm high x 1800mm wide x 600mm deep) were installed across mezzanine levels 1 and 2.

- Designed to store approximately 6,000 boxes
- Each location labelled for easy identification and rack end aisle signage

Partitioned Work Areas

Two workshop areas were created beneath the mezzanine using single-skin steel partitions and mesh panels.

Custom Workbenches

40 bespoke workbenches were supplied, split into two types tailored to specific tasks.

Floor Markings & Coatings

Approximately 250m of walkways, pallet zones, and hatched areas were marked throughout the warehouse.

- Resin coating applied to the concrete mezzanine surface

Signage & Labelling

- All pallet and box locations barcoded
- Compliant signage installed at aisle ends

Flex Guard Barriers & Column Protection

35m of protective barrier installed along ground floor walkways and forklift charging areas.

Conclusion

Mezzanine floors offer a practical way to expand warehouse capacity without the need to relocate. As business needs change, the space can be reconfigured to support increased storage or new operational areas.

To learn more, visit: Mezzanine Floors - Avanta UK (<https://www.avantauk.com/mezzanine-floors/>)

Project Highlights

- 1,400m² fire-rated two-tier mezzanine floor
- 7,000 pallet locations in VNA racking
- 6,000 box locations in longspan shelving
- 40 bespoke workbenches supplied

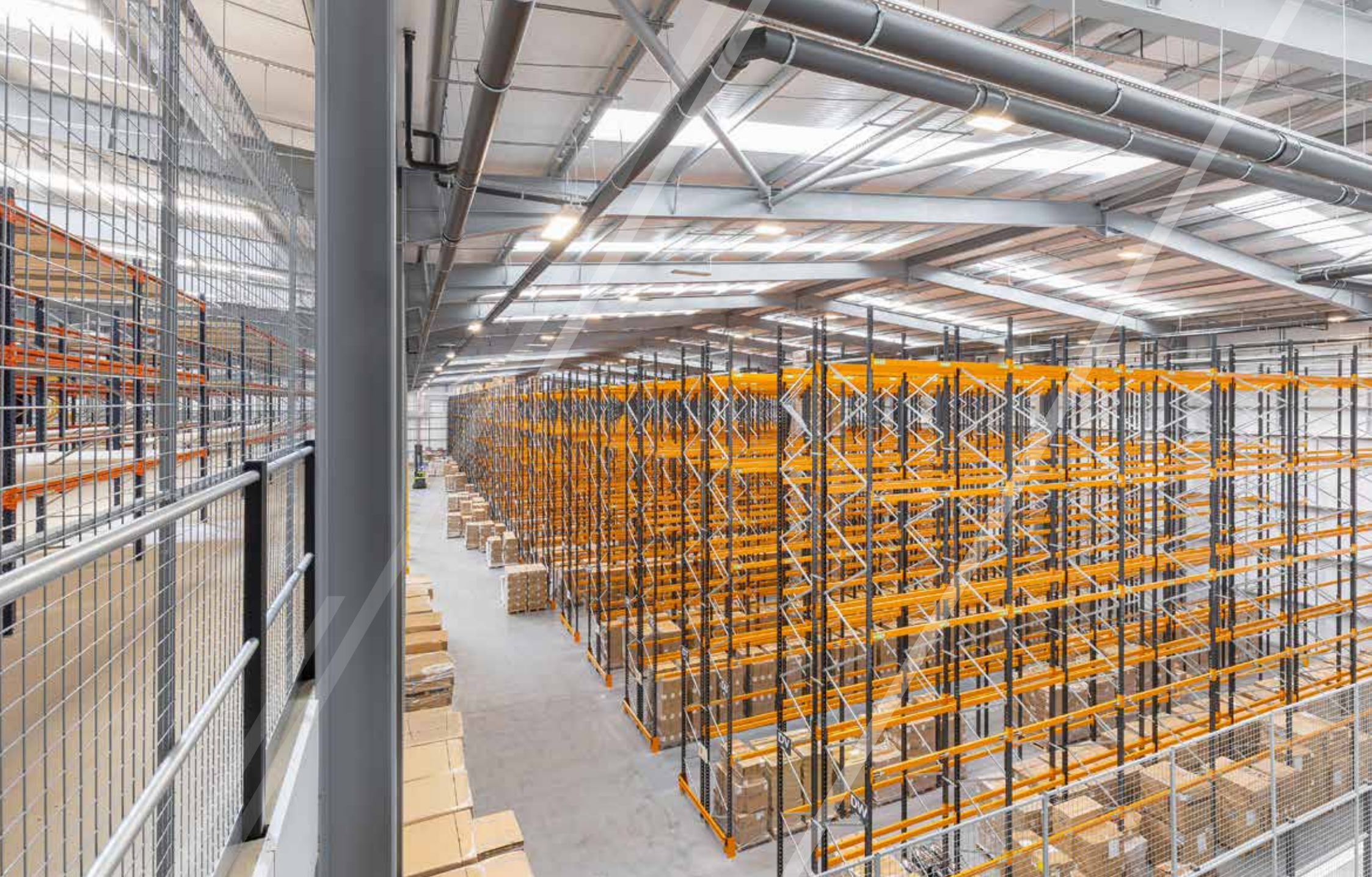
**Personnel Access
Via Two Staircases**

**Rack End Barriers
Installed as Standard**

**Single Steel Partitions
and Mesh Panels**

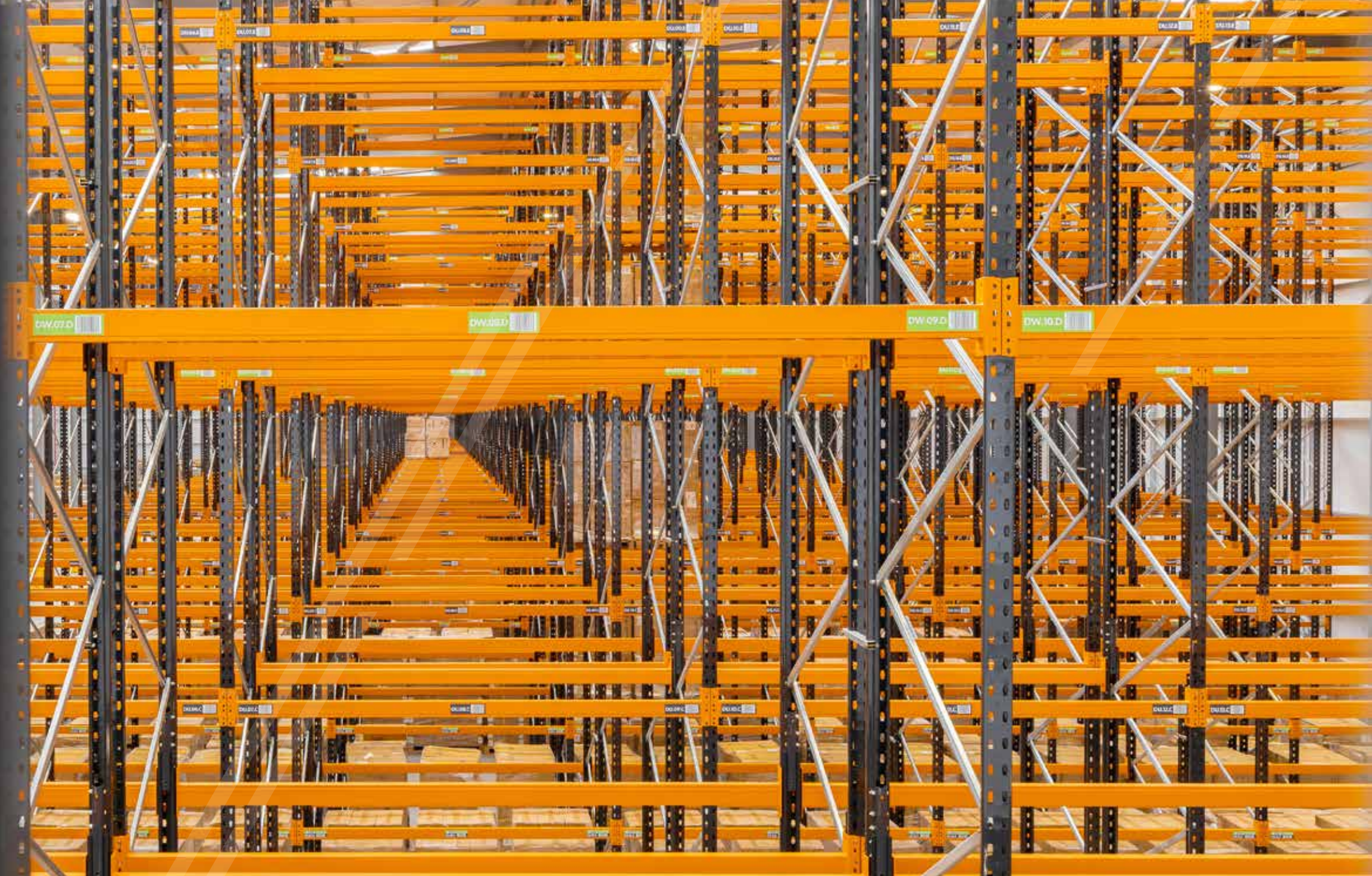
**40 Bespoke
Benches Supplied**





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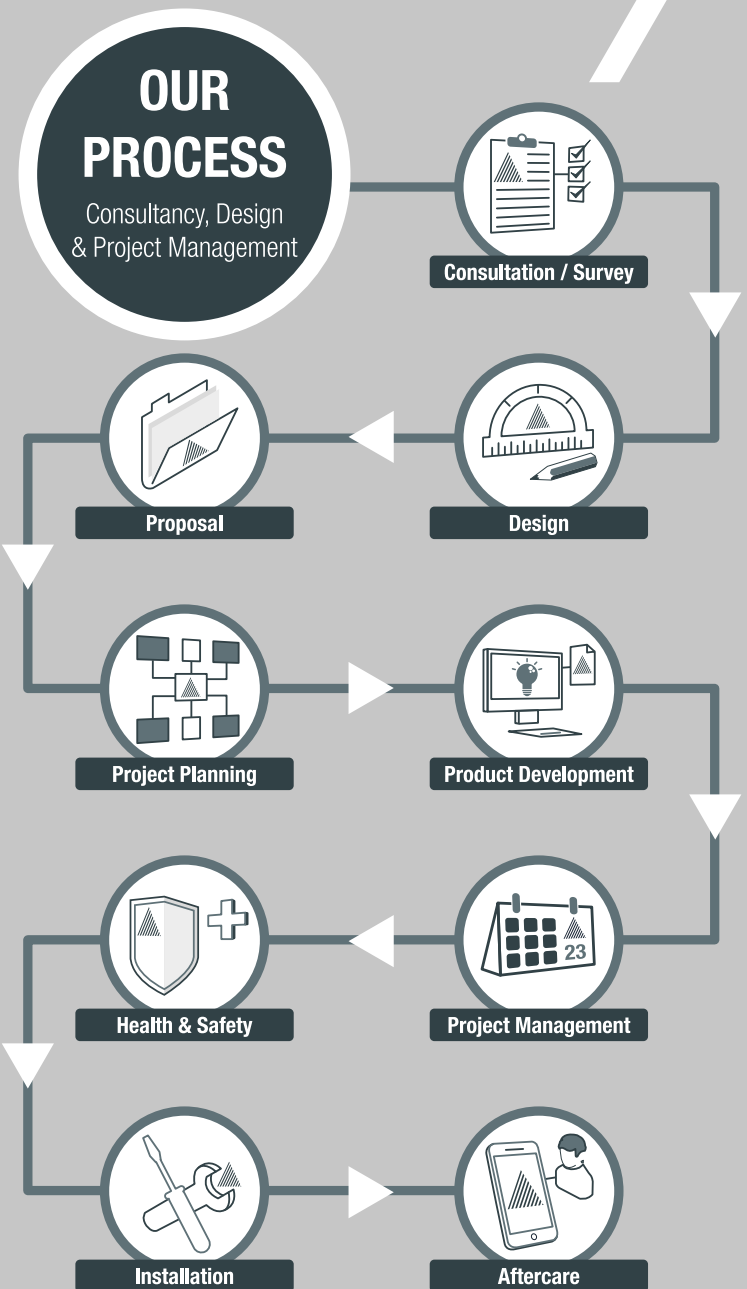
Avanta UK Ltd is an independent company with 20 years experience in designing and sourcing equipment. Long term partnership arrangements and rigorous appraisal of our portfolio of extensive manufacturing partners ensures that our clients have access to high quality and competitively priced standard and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

For a free, no obligation quote
Call - 0800 975 4933
Email: sales@avantauk.com



MEZZANINE FLOORS

PALLET RACKING

SHELVING SYSTEMS

STEEL PARTITIONS

OFFICE INTERIORS

WAREHOUSE AUTOMATION

WORKPLACE EQUIPMENT

WAREHOUSE FLOORING

PRINCIPAL CONTRACTOR

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