WSL
Warehouse Systems Limited

TWO-TIER MEZZANINE

New UK Distribution Centre | South of England



Fast-track delivery of a high-capacity logistics hub for international expansion

- 310,000+ sq ft distribution facility
- Two-tier mezzanine system
- Fully integrated conveyor infrastructure
- Delivered ahead of programme

WSL – Design | Manufacture | Install

UK CA

APPROVED sema MANUFACTURER FULL MEMBER

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PROJECT OVERVIEW



The Challenge:

A leading China-based logistics specialist expanding into the UK required a fully operational distribution centre within a brand-new facility in the South of England.

Key requirement:

Transform a shell building into a high-efficiency, multi-level logistics hub – fast.

The Site:

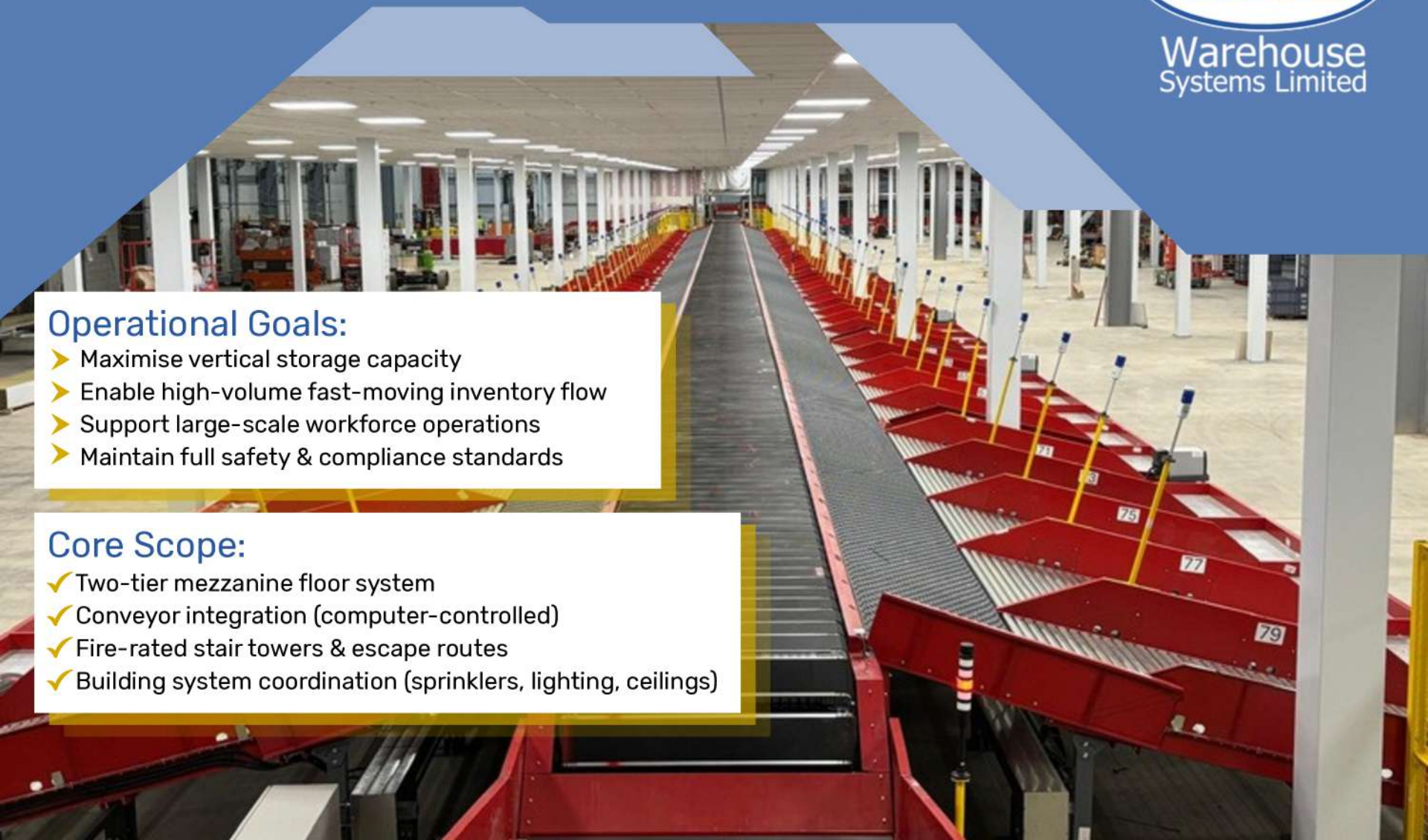
- 310,000+ sq ft new build facility
- No existing internal infrastructure
- Critical launch deadline tied to UK market entry

Why WSL:

- ✓ SEMA Approved Manufacturer
- ✓ UKCA certified steelwork
- ✓ Full in-house design, manufacture & installation
- ✓ Proven capability in time-critical DC environments

PROJECT REQUIREMENTS

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Operational Goals:

- Maximise vertical storage capacity
- Enable high-volume fast-moving inventory flow
- Support large-scale workforce operations
- Maintain full safety & compliance standards

Core Scope:

- ✓ Two-tier mezzanine floor system
- ✓ Conveyor integration (computer-controlled)
- ✓ Fire-rated stair towers & escape routes
- ✓ Building system coordination (sprinklers, lighting, ceilings)

DESIGN COMPLEXITY

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Engineering Challenges:

- High load-bearing requirements → piled foundations
- Multi-level mezzanine + conveyor platforms
- Complex spatial coordination of personnel + goods flow
- Over 6,000 sqm mezzanine + 100 sqm conveyor platforms

Infrastructure Integration:

- Stair towers & escape routes
- Two goods lifts
- Fire-rated tunnel system
- Full coordination with other key building systems

DELIVERY APPROACH

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Time-Critical Programme:

- ✓ Accelerated build aligned to UK launch deadline
- ✓ Day & night installation schedule
- ✓ Multiple workstreams running concurrently

On-Site Coordination:

- ✓ Mezzanine construction
- ✓ Conveyor installation
- ✓ Sprinkler + lighting integration
- ✓ Suspended ceiling coordination

WHY THE CLIENT CHOSE WSL

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Competitive Advantage:

- ✓ In-house manufacturing flexibility
- ✓ Cost-effective solution vs overseas alternative
- ✓ 24/7 escalation & project support
- ✓ Proven rapid mobilisation capability
- ✓ UKCA & SEMA accreditation assurance

Decision Driver:

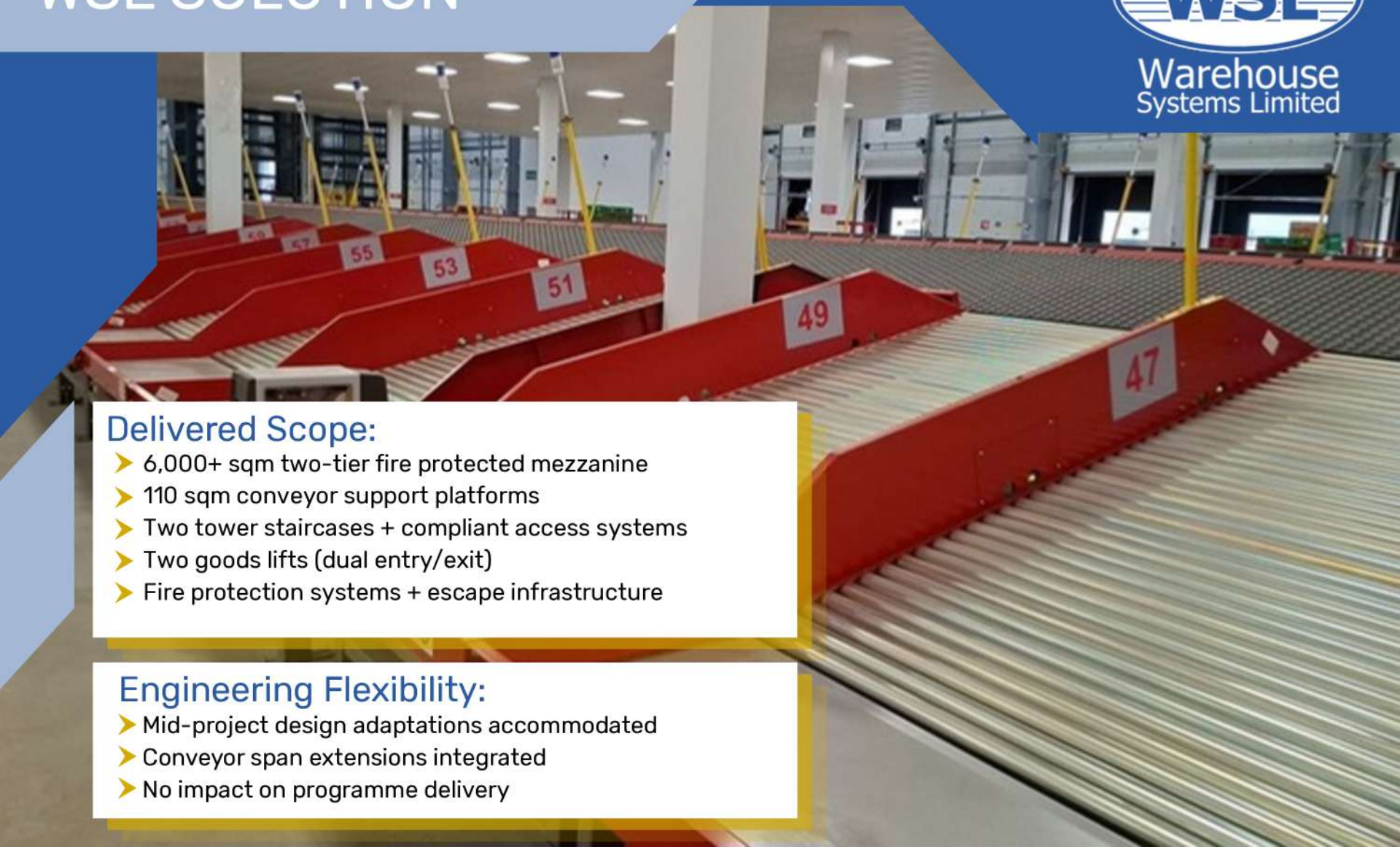
Speed + Reliability + Technical Confidence

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WSL SOLUTION

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Delivered Scope:

- 6,000+ sqm two-tier fire protected mezzanine
- 110 sqm conveyor support platforms
- Two tower staircases + compliant access systems
- Two goods lifts (dual entry/exit)
- Fire protection systems + escape infrastructure

Engineering Flexibility:

- Mid-project design adaptations accommodated
- Conveyor span extensions integrated
- No impact on programme delivery

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PROJECT MANAGEMENT & TEAM



Multi-Disciplinary Delivery Team:

- ✓ Design Engineers
- ✓ Project Managers
- ✓ Site Managers
- ✓ Installation Teams
- ✓ Specialist subcontractors

Leadership Oversight:

- ✓ Continuous on-site presence from senior WSL leadership
- ✓ Real-time decision making
- ✓ Proactive coordination across all trades

CHALLENGES & SOLITIONS

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Key Challenge:

Mid-project introduction of suspended ceiling system

WSL Response:

- Rapid design revision
- Reconfiguration of sprinkler & lighting systems
- Full coordination across all trades

Outcome

- ✓ No programme delay
- ✓ Full compliance maintained
- ✓ Seamless integration achieved

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PROJECT SUCCESS



Results Delivered:

- ✓ Completed ahead of schedule
- ✓ Fully operational multi-level distribution centre
- ✓ Fully integrated conveyor and mezzanine systems
- ✓ 100% compliance with safety & structural standards

Client Impact:

- ✓ Ready for UK market launch
- ✓ High-efficiency logistics operation enabled
- ✓ Scalable infrastructure for growth

VALUE DELIVERED

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WSL Strengths Demonstrated:

- ✓ Complex multi-system integration expertise
- ✓ Fast-track delivery capability
- ✓ Flexible in-house design & manufacturing
- ✓ Strong compliance assurance (UKCA & SEMA)
- ✓ Proven large-scale DC delivery experience

A fully integrated, high-capacity logistics solution delivered under extreme time constraints, enabling rapid UK market entry.

Planning an Expansion?

WSL delivers complete mezzanine and warehouse infrastructure solutions designed, manufactured, and installed in-house.

WSL

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