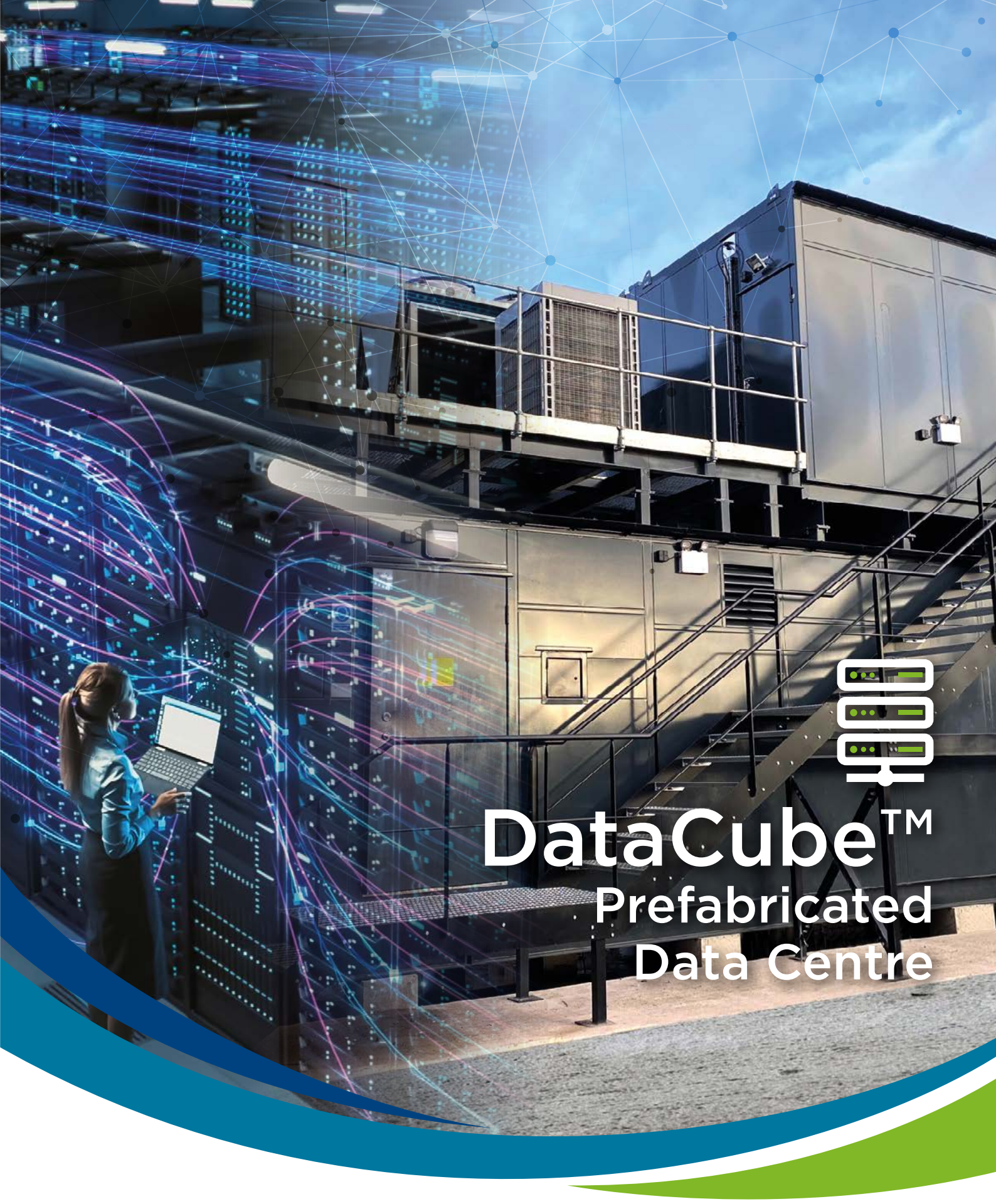


DataCube™

Prefabricated Data Centre

Workspace Technology Limited

Technical Prefabricated Building Solutions

workspace-technology.com

mobiledatacentre.com

DataCube™

Prefabricated Mobile & Modular Data Centre Solutions

Workspace Technology specializes in the design and manufacture of bespoke pre-engineered Mobile & Modular Data Centre infrastructure which is ideal for a range of low medium and high-density data centre requirements.

DataCube™ Applications

Workspace Technology's DataCube™ prefabricated data centre solution is ideal for a wide range of applications, including:

Latency Sensitive

Apps Moving Processing Closer to the User

Edge & Distribution Networks

Local Computer Deployments

MEC

Multi Edge Computing

Multi-Cloud

Peer To Peer Networking Infrastructure

On Prem Primary / DR Data Centre

Peer To Peer Networking Infrastructure

HPC & AI

High Performance Computing & Artificial Intelligence

DataCube™ Building Format Options

Prefabricated

Bespoke Prefabricated Modular Data Centres offer build widths ranging from 3.0m to 3.9m and lengths between 3m and 14.4m. Prefabricated DataCube™ buildings can be coupled and stacked to form larger spaces to support increased rack space where required.

Containerised

ISO Containerised DataCube™ systems are available in High Bay 2.4m W 6m / 20ft and 12m/ 40ft length modified ISO containers. ISO containers can be stacked depending on configuration.

Modular Construction

Workspace Technology also offers modular construction systems utilising steel frame structures and composite panel cladding systems that can be erected both internally, typically within a large open warehouse or externally, to create a standalone building.

DataCube™ Prefabricated Data Centre Solution

Our range of DataCube™ Prefabricated Mobile Data Centre solutions will deliver power and cooling for the most demanding of applications whilst helping to protect ICT from hazards. This scalable approach reduces data centre deployment from years and months to weeks, bringing your data closer to the source, improving latency speeds, control, security and accessibility.

Ready To 'Rack & Stack'

Bespoke Server Ready Secure Data Centre Solutions are pre-engineered ready to 'Rack & Stack' your I.T Infrastructure.

- Power Distribution & UPS Systems
- Integrated Cooling & Airflow Containment
- Fire Detection & Suppression
- Racks, PDU's & I.T Cabling
- Security Systems
- Management & Monitoring

Flexible Architecture

Workspace Technology offer bespoke DataCube™ Mobile & Modular Data Centre solutions to support individual client demands.

- Custom Built to Suit Rack Count Demands
- Resilience Level to Suit Application Tier II to Tier IV
- Cooling Technology to Match Rack Power Densities 2kW to 60kw
- Paired and Double Stacked Options for Increased Rack Count
- Expandable Scalable Designs

For Enhanced Security See Our SecureCube® Product Range

Construction

DataCube™ products are built to order allowing Workspace Technology to offer bespoke fabrication for our customers.

- Standard Single Skin Insulated Panels
- FR60 Standard Fire Rating with Options for FR90 and FR120
- Integrated High Security Locking Systems
- Raised Access Floors
- Integrated Bulk Head Walls

Cooling & Airflow

Workspace Technology offers a wide range of cooling technology to support a variety of applications and environments including:

- Direct Liquid Cooling
- Perimeter, In-Row & Rear Rack
- Direct Fresh Air Freecool® Technology
- Integrated Aisle Containment & Airflow Management Systems
- Optimised Cooling Solutions for Maximum Energy Efficiency

Fire Protection

Fire protection is essential for ensuring safety and preventing damage. Simply put, if an environment cannot sustain a fire, the risk of fire-related damage is eliminated.

- BS5839 Fire Detection
- Ozone Friendly Fire Suppression
- Relays for External Integration
- Very Early Smoke Detection (VESDA) Systems
- Building Regulations Compliance

Technical Systems

Our technical systems encompass a range of related data centre infrastructure including:

- Equipment Racks & PDU's
- Local Containment Systems
- Fibre Optic & IT Cabling Systems
- Security Systems (IDS, ACS, IPCCTV)

Electrical Infrastructure

Workspace Technology designs and installs modular, resilient, 'right size' electrical infrastructure including:

- Full Electrical Design & Installation
- Plug & Go Power & Hook-up Points
- Backup Generator Options
- Integrated UPS Systems & Critical Power
- kW Capacity Designed To Suit Application

Management & Monitoring Systems

Workspace Technology provides a wide range of mission critical management and monitoring solutions which are scalable to meet data centre demands.

- Environmental Monitoring Systems
- Volt Free Contact Event Integration
- Dedicated Management Network
- Centralised Management Systems
- Site BMS Integration

DataCube™ Prefabricated Data Centre Solution Key Advantages

Cost Effective - typically, a prefabricated solution will reduce overall capital expenditure by 40%.

Pre-Engineered - Mobile Data Centre Technology is 'Server Ready'- pre-engineered, wired ready for instant deployment of servers.

Future Proofed - 'Pay-as-You-Grow' Infrastructure.

Scalable - Modular 'right size' designs and configuration.

Rapid System Deployment - quick and simple with minimum onsite preparation needed.

Re-deployable - reusable at different locations when required.

Low Energy - creates an environmentally greener data centre environment.

Workspace Technology's prefabricated technical buildings are designed, fabricated, and built in the UK ensuring a high proportion of value is retained within the UK economy.

MADE IN BRITAIN

DataCube® Design & Installation Services

Workspace Technology offers a comprehensive design and installation service, including consultancy, design, construction, maintenance, and ongoing optimization throughout the lifetime of your prefabricated facility.

Consultancy & Design

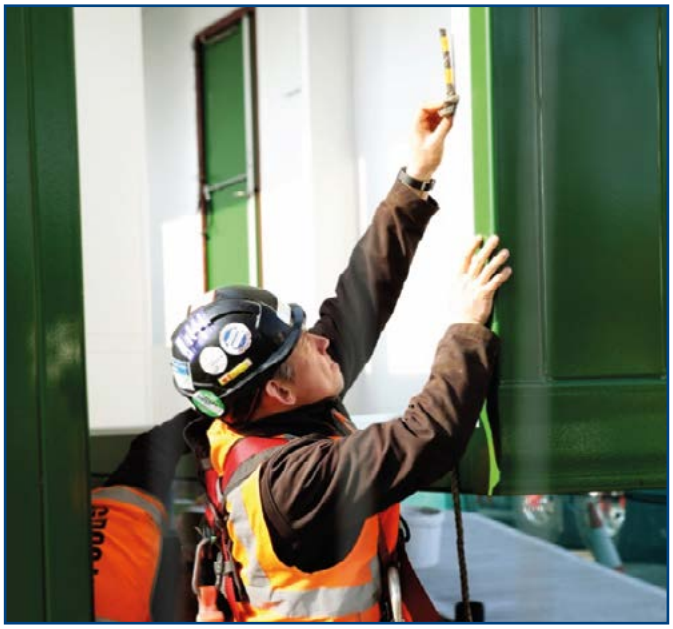
Our skilled design team combines expertise, efficiency, and innovation to deliver high-quality, sustainable solutions. We work closely with clients to develop tailored designs that meet complex high-density (kW) requirements, ensuring quick turnaround times and clear documentation.

- **Experienced & Qualified Designers** – Experts in delivering precise and effective solutions.
- **Sustainable & Efficient Design** – Modern approaches for energy-efficient and eco-friendly designs.
- **High-Density (kW) Application Expertise** – Deep understanding of power-intensive environments.
- **Collaborative & Responsive** – Fast, client-focused design development.
- **Rapid Design Turnaround** – Initial concepts developed within weeks.
- **Clear & Detailed Documentation** – High-quality drawings for seamless execution.

Site Planning & Preparation Services

As part of Workspace Technology's Technical Prefabricated Building offer, we provide an extensive range of site planning & preparation services including:

- Site Planning & Design
- Structural Calculations & Design
- Geotech & GPS Surveys
- Civil & Groundwork Services
- Mechanical & Electrical Services
- I.T Cabling



Delivery, Hook-up & Site Acceptance

Delivery Services - Workspace Technology assesses site conditions and coordinates transport logistics. We arrange flatbed delivery and specialist crane lifts to position prefabricated housing securely. Our Site Team ensures correct orientation and alignment.

- Site surveys and logistics planning
- Flatbed transport and crane lift coordination
- Precision positioning on foundations
- On-site supervision for alignment

On-Site 'Hook-up' - Once positioned, our Site Team connects power, IT, and mechanical services for seamless integration.

- Power and generator connections
- Fibre and copper network links
- Mechanical systems integration

Site Acceptance Testing (SAT) - SAT scope varies based on factory testing feasibility. Self-contained units undergo power and functional checks, while integrated systems require extensive testing.

- Power verification and inspections
- Sub-system and full system testing
- Load bank and server simulator tests
- Validation against design criteria

Maintenance & Support Services

We provide expert support for SecureCube™ Data Centres and SCIF infrastructure, ensuring reliability across key systems, including:

- Air conditioning & chilled water systems
- Fire Detection & Suppression
- UPS & Generators
- Environmental monitoring
- DCIM & critical infrastructure

Why Use Workspace Technology?

Design Excellence – our in-house Design Team provides multi-award winning, highly efficient innovative Prefabricated Data Centre, Telecoms Cabin and Sensitive Compartmented Information Facility buildings.

Pentagon 360 Service – by opting to use Workspace Technology clients can benefit from our Pentagon 360 offering, a unique service providing Consultancy, Design, Build, Maintenance and on-going Optimisation services during the lifetime of your prefabricated facility.

Innovative Technology – we deliver the ultimate in high efficiency Telecoms Cabin, Data Centre and Power Pod infrastructure with innovative solutions based on robust engineering principles.

Approved Partners – we hold longstanding and accredited partnerships with many of the world's largest power and cooling technology specialists.

Designed & Built In The UK – our prefabricated technical buildings are designed, fabricated, and built in the UK ensuring a high proportion of value is retained within the UK economy.

Accredited Organisation – our experienced Project Managers set the highest standards in delivering Data Centre, Telecoms Cabins & Secure Buildings and associated infrastructure. We are an ISO9001/14001 approved as well as CHAS and Safecontractor (SSIP) accredited.

UK & European Delivery – we can provide deliver to both UK and European destinations.

Interested in finding out more?

Call us: 0121 354 4894
Email us: sales@workspace-technology.com
workspace-technology.com
mobiledatacentre.com

Workspace Technology Limited
Technical Prefabricated Building Solutions

Reddicap Trading Estate,
The Royal Town of Sutton Coldfield, B75 7BU

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ECA REGISTERED MEMBER

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