

Project Case Study

Modular Cleanroom

The Client



Location

Lancing, Sussex, UK

Sector

Healthcare



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Scientific

Facility-Scale Modular Cleanroom, Enabling Major Production Expansion for ADDEV Materials.

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ADDEV Materials, in Lancing on the south coast of England, forms the European centre for the Healthcare & Wellness division within the global ADDEV Materials Group.

The ISO 13485:2016 certified organisation specialises in engineered adhesive solutions, converting high-performance flexible materials, including medical-grade adhesives, technical films, foams, nonwovens, and membranes, into customised, ready-to-use components.

The Challenge

The division's operating sectors, and specifically across pharmaceuticals, life sciences, and personal care, continue to experience sustained growth, placing increasing demand on manufacturing precision, cleanliness, and flexibility.

Following a major expansion of its production capabilities and relocation to larger premises, ADDEV Parafix required a new ISO certified cleanroom capable of supporting expanded production manufacturing volumes and increasingly complex converting operations.

The new environment needed to be engineered around both machine performance and controlled environmental integrity:

- **Supporting multi-zone production workflows**
- **Maintaining strict cleanliness separation between processes**
- **Accommodating converting machinery**
- **Enabling efficient operator and material flow**



Richard Sincock, General Manager at ADDEV Parafix, highlighted the operational requirement clearly:

“Our customers operate in highly regulated environments where consistency and contamination control are highly specific.

We needed a facility that could match that expectation while allowing us to scale.

We weren't just looking for more space, we needed a controlled environment that actively supported how our production teams work.”

The Solution

Monmouth Scientific designed and delivered a 26m x 26m facility-scale Modular Cleanroom, covering approximately 500m² of controlled production space.

The solution was engineered as a fully modular, scalable system capable of supporting workflow segmentation across 15 operational zones. These zones include entrance and exit airlocks, gowning areas, production cells, material transfer points, and dedicated packing areas, each designed to maintain controlled transitions between ISO 7 and ISO 8 classified environments.

Key technical features include:

- **26m x 14m production area with a 3.4m internal height and integrated 5m x 11m entrance and change atrium.**
- **14m x 12m packing zone with four dedicated material transfer bays.**
- **Flexible curtain segregation enabling controlled material movement.**
- **ISO 7/8 zoned cleanliness strategy.**
- **CAMT2000 clean air modules with HEPA filtration.**
- **Visionaire real-time environmental monitoring system.**
- **Integrated LED lighting, cleanroom flooring, sliding access systems, and concealed services trunking.**



A key design focus was machine layout optimisation. The cleanroom was configured specifically around ADDEV Parafix's converting equipment, ensuring efficient operator flow, reduced material handling risk, and positioning for high-precision processes.

Installed technologies include multiple converting platforms supporting:

- **High-precision die-cutting and rotary laser cutting**
- **Controlled multi-layer lamination processes**
- **High-tolerance slitting operations [±0.25mm]**
- **Island placement for complex adhesive assemblies**
- **Finished component assembly and tailored packaging workflows**

Richard commented on the design approach:

“The layout has completely transformed how we operate.

Everything now flows logically, from raw material entry through to finished product dispatch.”

The Result

The completed facility enables ADDEV Parafix to operate a fully integrated, high-precision production environment with controlled separation at every stage of manufacture.

By structuring the cleanroom into defined operational zones, ADDEV Parafix has improved process integrity while increasing throughput capacity and reducing handling complexity between production stages.

The modular nature of the installation also ensures long-term scalability. Additional zones or capacity can be integrated with minimal disruption, supporting ADDEV Parafix 's ongoing growth.

From a production perspective, the facility now enables:

- **Streamlined material flow from intake to dispatch**
- **Improved segregation of sensitive manufacturing stages**
- **Enhanced control of particulate and environmental conditions**
- **Greater flexibility in machine deployment and future process expansion**

Speaking on the project, **Lewis Irish, Sales Director at Monmouth Scientific**, said:

“This project represents a significant milestone for Monmouth Scientific.



Delivering our largest Modular Cleanroom to date, at this scale and complexity, demonstrates the capability and flexibility of our modular systems when applied to client challenges.

Working closely with ADDEV Materials, the focus was on ensuring the environment supported both current manufacturing requirements and long-term operational growth. The result is a highly controlled, multi-zone facility that achieves exactly that.”



Richard noted the operational impact:

“This facility gives us confidence in both our current capability and future growth.

We now have a platform that can evolve with our customers' needs.”

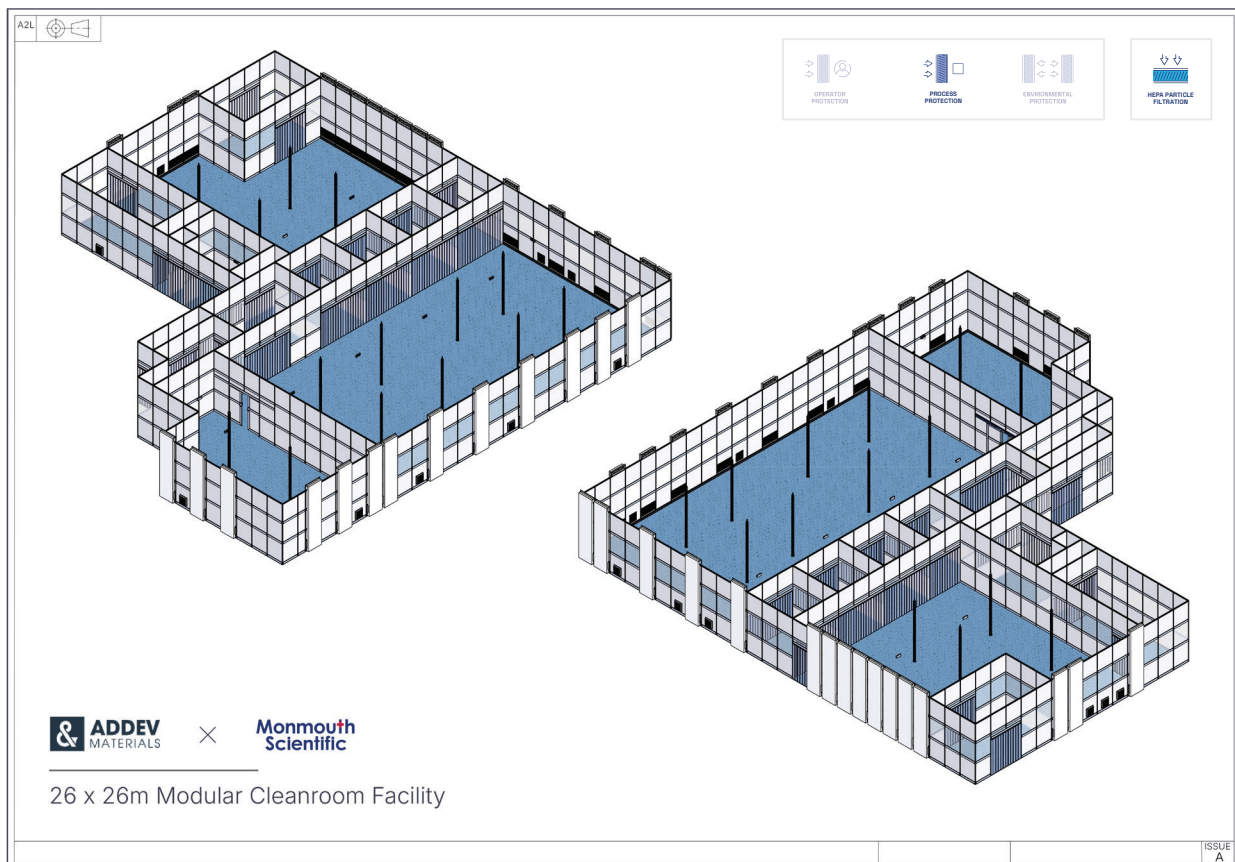


For ADDEV Materials, the cleanroom represents a facility upgrade, it is a strategic manufacturing platform designed to support long-term growth in highly regulated sectors.

Monmouth Scientific's approach focused on delivering a controlled environment that aligns engineering performance with real-world production requirements.

The installation marks a significant step forward in scalable cleanroom design, enabling ADDEV Parafix to expand its capabilities.

As a result, the team now operates within the largest Modular Cleanroom ever delivered by Monmouth Scientific, an adaptable, high-specification facility designed to support bespoke converting processes.



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From the early design discussions through to installation, Monmouth Scientific understood exactly what we were trying to achieve. The attention to operational detail made a real difference.

What stands out most is the scalability. We are not constrained by this environment, it has been designed to grow with us.

The cleanroom has improved consistency across our production processes, and our teams have adapted quickly because the layout feels intuitive and purpose-built.

Richard Sincock, General Manager | ADDEV Parafix

Modular Cleanroom



Features & Benefits

INFO

- Modular, Scalable Layouts
- Rapid Deployment
- Custom-build Specifications
- ISO Class 6-9 Clean Environments
- High quality HEPA Filters
- Turnkey Solution

Modular, Facility-Scale, Controlled Environments

The Solution

Our Modular Cleanroom is a customisable, scalable turnkey solution designed to deliver controlled environments across entire facilities and multiple industries.

From biomedical and electronics to aerospace and industrial applications, this high-quality modular system supports sensitive operations and complex processes — whether in a single laboratory or a multi-room production facility.

Operation

The Modular Cleanroom creates a controlled environment across entire facilities, maintaining airborne particle concentrations to ISO 6–9 standards.

Equipped with advanced HEPA filtration systems, it continuously circulates clean air, ensuring uniform contamination control throughout large production suites or multi-zonal complexes.

Its modular design enables rapid installation, facility-wide expansion, or reconfiguration, providing a reliable, scalable solution for complex and evolving operational needs.

Technical Information

Custom-build Specification	Custom modular layouts, fully scalable to meet the needs of facilities and complex projects
Air Cleanliness & Filtration System	ISO Classes 6-9 Clean Air Modules (CAM) + H14 HEPA Filter - 99.97% efficient at 0.3µm
Structure	Free-standing aluminium framework. Aluminium composite panel walling and clear non-break polycarbonate window panes.
Flooring	Optional custom flooring solutions tailored to project specifications, ensuring durability, hygiene, and compliance.
Power	Electrical units ensure seamless power and control systems integration for cleanroom operations.





Engineered for Facility-Scale

From individual labs to full production facilities, our Modular Cleanrooms are designed to grow with your needs.

Scalable by design, they deliver controlled environments across entire sites — not just small spaces.



Turnkey Delivery

We provide end-to-end project delivery — from design and manufacture to installation and commissioning.

Our in-house fabrication shortens programmes, minimises disruption and gives confidence in hitting project milestones.



Consistent Performance

Every cleanroom is delivered as a fully integrated system, with HVAC, filtration, services and monitoring built in.

This ensures consistent performance across large footprints and simplifies validation at facility scale.

**PROTECTING
WHAT
MATTERS**

**Monmouth
Scientific**

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Project Case Study Partner



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controlled clean environments for critical applications.

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Fume Containment | Biological Safety | Modular Cleanrooms | Powder Handling | Laminar Flow