



an **NG Bailey** Group company

OSM represents a **fresh, future-ready approach** to Industrialised Construction – one that's **modern, efficient**, and designed to meet the **current and future demands** of our sector.

OSTM

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OSTM
CONSULT
an NG Bailey Group company

OSTM
ASSEMBLE
an NG Bailey Group company

OSTM
VENTILATION
an NG Bailey Group company

OSTM
FABRICATE
an NG Bailey Group company

OSTM
HIRE
an NG Bailey Group company

Challenges to Scale

VARIETY

CHANGE

SPACE

TIME

**PREFERENTIAL
ENGINEERING**

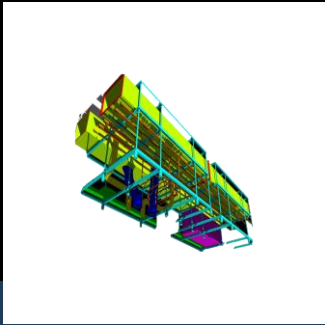
BESPOKE

COMMUNICATION

CULTURE

The Variety

Heavy duty service distribution modules



Plant rooms and plant skid



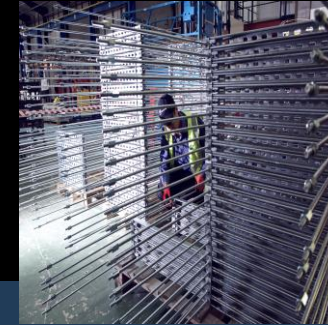
Risers



Sanitary/IPS



Brackets



Med Gas Modules



Light duty service distribution modules



Spool pipework & valve modules



Fan Coil Assemblies



Modular Wiring



Interstitial Plant Decks



Partition-head Modules



The Journey

4 Pipe FCU
Modules



FCU
Modules



Heathrow Terminal 5C
Tunnel and Nodes



Fenchurch
Street 2015



NHS
Nightingale



The Forge



GSK



2000

2005

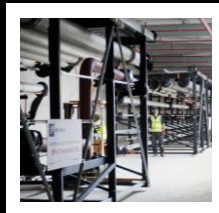
2010

2015

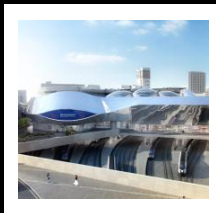
2020

2021

2022



Arla



Birmingham
New Street



an NG Bailey Group company

“**Design Once** for what happens most often,
customise **ONLY** when it **adds value**”



an NG Bailey Group company

**Standard
Products**

Enabled by
Consultancy

**Custom
Solutions**

Design Once for what happens most often,
customise **ONLY** when it **adds value**

Standard Products Catalogue

SAFER.
BETTER.
FASTER.
GREENER.



Manchester Airport Transformation Programme



NG Bailey Offsite Manufacture (OSM), delivered industry leading MMC on the Manchester Airport Transformation Programme, demonstrating how manufacturing - without disrupting operations. By applying our offsite methodology, we removed 48,000 labour hours from site, cut 289 tonnes of carbon (equal to 2.4 million passenger plane miles) and achieved a nine-month programme saving for a 30-person team.

These outcomes were driven by standardised, repeatable products manufactured in our controlled factory environment, supported by engineering grade AR, 4D BIM, and robust digital verification that ensured consistency, sequencing accuracy and real time-grade AR, 4D BIM, and robust digital verification that ensured consistency, sequencing accuracy and real-time issue detection.

Key Outcomes

48,000 site hours removed through offsite manufacture

289 tonnes of carbon saved

Nine-month programme saving achieved

1,600+ DfMA assemblies delivered

2.4 million passenger-plane miles equivalent carbon reduction

Temple Quarter Enterprise Campus (TQEC)

A highly complex MEP package was delivered for the Temple Quarter Enterprise Campus (TQEC), a flagship 38,350m² academic building for the University of Bristol. Located in a constrained city-centre environment adjacent to Temple Meads station, the project demanded a smarter, safer and more efficient delivery approach.

To meet these challenges, a Design for Manufacture and Assembly (DfMA) strategy was embedded from the outset, shifting significant elements of the mechanical and electrical installation into offsite manufacturing. This approach enabled major components to be designed, built and tested in a controlled factory environment before being delivered to site ready for installation.



Key Outcomes

- **50,000+ hours removed** from on-site construction through offsite manufacturing

- **20 modular units** forming a **two-level mechanical plantroom**

- **1,200+ horizontal MEP modules** manufactured offsite

- **17 prefabricated riser modules** across **4 cores**

- **60+ external service modules** installed at roof level

- **8 pre-assembled plant skids** delivered as complete systems



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Thank you.