

Design for Manufacture and Assembly

Prefabrication-ready drawings and BIM-integrated designs for pipe spools, plant skids and M&E modules.

We produce fabrication-ready design output that lets work move offsite, where it can be built in controlled conditions and installed faster. Across our DfMA projects we see average time savings of 15 to 25 per cent.

What we do

Fabrication drawings

Detailed designs for pipe spools, plant skids, M&E modules and prefabricated plant rooms, produced to a standard fabricators can build from directly.

Optimised processes

Offsite manufacturing supported end to end, improving installation timelines and reducing the volume of work exposed to site conditions and congestion.

Integration with BIM models

Seamless compatibility between coordinated design models and manufacturing outputs, so what is fabricated matches what was coordinated.

At a glance

15-25%

Average time saving

200+

Projects delivered

STANDARDS & COMPLIANCE

- ✓ ISO 19650
- ✓ UK BIM Level 2
- ✓ BSRIA BG6

WHY DEW

- ✓ 20+ technical specialists
- ✓ 200+ projects delivered since 2016
- ✓ 80%+ repeat business rate
- ✓ 95%+ on-time and to brief
- ✓ 100% DBS-checked staff

How we deliver

01 Design review

Coordinated model reviewed to identify what can sensibly be modularised, and where prefabrication adds most value to the programme.

02 Module definition

Spools, skids and modules defined around installation sequence, transport and access constraints, not just geometry.

03 Fabrication drawings

Detailed drawings produced to fabricator requirements, with dimensional accuracy verified against the coordinated model.

04 Manufacture support

Ongoing support through the manufacturing process, resolving queries against the model rather than in isolation.

05 Installation

Prefabricated elements installed to the coordinated design, with as-built records updated to reflect what was built.

Where we've done it

Sellafield **ENERGY**

HVAC coordination and precise bracketry detailing for onsite installation across nuclear infrastructure, working within a high-security environment to strict safety protocols.

Rolls Royce Bristol **INDUSTRIAL**

Stage 5 coordination and prefabrication-ready drawings for aerospace manufacturing facilities, improving installation timelines across high-precision, standards-driven environments.

Hinkley Point C **ENERGY**

Stage 5 offsite fabrication of pipe spools and pump skids, supporting nuclear energy production with prefabricated systems ready for precise onsite installation.

“Digital Engineering Works excels in maintaining good communication with the site team, ensuring progress and resolving pinch points effectively. Their coordinated models and drawings are practical and efficient, making the installation process seamless.”

— MANAGING QUANTITY SURVEYOR, TILBURY DOUGLAS ENGINEERING

Let's streamline your next project.

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