

About

We partner at all Design, Prototype, Engineering and Technology development levels. From design programmes to prototype vehicles and engineering deployment, VITAL works discreetly with OEMs and Start-ups to develop new vehicles.

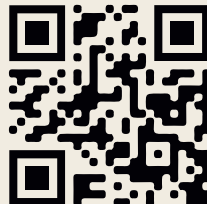
Formed in Coventry 2015, Vital Auto has a traditional garage origin story. From humble beginnings, our founders, driven by a love for design and engineering, have consistently fostered a spirit of creativity and an unwavering commitment to improving our practices.

By nurturing our process alongside cutting-edge technologies, we've ventured into uncharted territory, creating new and novel approaches within the design landscape. We've succeeded in 3D printing entire vehicle models using compostable materials, optimised manufacturing processes for faster and more efficient sub-assemblies, and even developed in-house ergonomic software to speed up design and engineering reviews for our world class OEM clients.

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PROTOTYPE AND MANUFACTURE

Service Manual

COLLECTION NUMBER

01 - 06

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Vital Auto



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Prototype & Manufacturing Capability

Vital collaborates closely with OEM and independent businesses, offering assistance in design model operations. Our goal is to provide comprehensive support for the swift turnaround of design models, clay models, and vision models that incorporate fully functional features, resulting in show vehicles that are indistinguishable from production vehicles.

We leverage our state-of-the-art facilities, including 25 large format 3D printers (SLA, SLS, and FDM technology) as well as 5-axis CNC milling machines (6M x 2.4M x 2.8M). Additionally, we take advantage of our ISO 7 level clean room for electronics assembly and a dedicated paint facility equipped with two spray booths and a mixing room.

With a total of four studio units in Coventry, Vital handles a wide range of manufacturing processes, such as paint, surfacing, clay work, fabrication, and build space. We are proud to support independent and start-up businesses by assisting them in establishing NPD plans, setting quality standards, and managing full development multi-vehicle programs to ensure a smooth transition to production. Our build-bay studio is specifically designed to facilitate productionisation programs.

Vital provide support for tooling and fixtures across various hybrid manufacturing methods. Our capabilities include CMM inspection using both laser and CNC technology, as well as efficient assembly processes, ensuring the accurate and seamless realisation of your automotive vision.

Prototype & Manufacturing Services

- 3D printing (SLA, FDM, SLS)
- 3D scanning
- Assembly
- Clay model making
- CMF development
- CNC machining model board & plastics
- Demo vehicles
- Design for manufacturing
- Ergonomic models
- Evaluation programmes
- Functional prototyping
- Hard model making
- Paint & surfacing
- Project planning
- Prototype engineering
- Quality standards / release control
- Reverse engineering
- Show vehicles
- Tooling in GRP, aluminium & steel
- Wind tunnel properties

