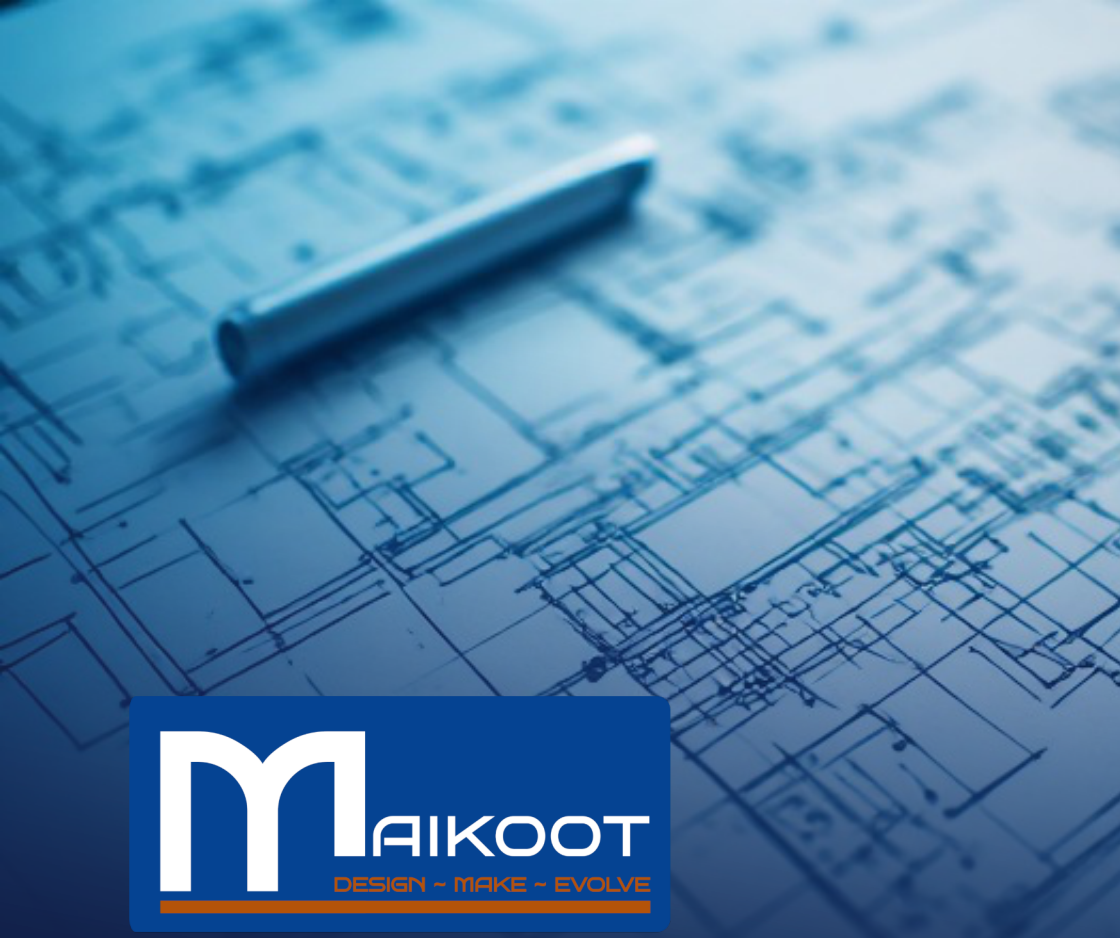

MAIKOOT

DESIGN ~ MAKE ~ EVOLVE

FROM CONCEPT TO FINISHED PART

We support businesses, designers, engineers and makers with practical product development and manufacturing services - from refining an idea and recreating existing parts to prototypes and small production runs.

Product Development | **CAD Design** | **Prototyping**

Low-Volume Manufacturing | **Reverse Engineering**

Have an idea, drawing, CAD file or existing physical part? Let's talk.

WHAT WE CAN HELP WITH

Our role can start at different stages. Some clients come to us with an early idea, others with an existing part, a drawing, a CAD file or a production problem that needs a practical solution.

PRODUCT DEVELOPMENT

Support from an initial idea through to a practical design, prototype and next manufacturing step. This can include concept development, design refinement, functional improvements, test parts and preparation for production.

CAD DESIGN & DIGITISATION

3D modelling for new products, components and manufacturing needs. We can create new designs, modify existing CAD, develop enclosures or technical parts, and convert older 2D or paper drawings into 3D digital models.

REVERSE ENGINEERING & 3D SCANNING

Recreate, modify or digitise existing physical parts when original drawings or CAD files are unavailable. Scan data can be cleaned and rebuilt into usable CAD geometry for further design or manufacturing.

PROTOTYPING & 3D PRINTING

FDM and resin 3D printing for visual models, fit checks, functional prototypes, test parts and selected end-use components. The process and material are chosen around the application rather than using a one-material-fits-all approach.

JIGS, FIXTURES & CUSTOM PARTS

Practical tools and components for assembly, positioning, drilling, PCB work, potting, inspection and other specialist production requirements. We also produce custom brackets, housings, holders and replacement parts.

LOW-VOLUME MANUFACTURING

Small production runs for specialist products, replacement parts, early product launches and bridge production before larger-scale manufacturing. For suitable projects, we can also support progression towards other manufacturing methods.

Confidential project? We are happy to work under an NDA where required.

PROTOTYPING & MANUFACTURING CAPABILITIES

Our prototyping, 3D printing and scanning capabilities support functional parts, test components, replacement parts and low-volume production across a range of applications.

FDM 3D PRINTING

Maximum build size: 350 x 350 x 320 mm | Functional prototypes, jigs, fixtures, replacement parts, custom components and low-volume production.

Material	Typical use
PLA	Concept models, visual prototypes and form-and-fit checks.
PETG	General functional parts, enclosures and durable prototypes.
ASA	Outdoor, UV-resistant and higher-temperature applications.
PA12 + 15% Carbon Fibre	Strong, stiff engineering parts, brackets, jigs and fixtures.
PC + PBT	Demanding technical applications requiring improved heat, impact and chemical resistance.
TPU	Flexible parts, protective components and applications requiring elasticity.
PETG Carbon Fibre	Stiffer functional parts with improved dimensional stability.

Additional engineering and fibre-reinforced materials are continually being tested and introduced.
Contact us to discuss the requirements of your application.

RESIN 3D PRINTING

For detailed prototypes, fine features, smoother surfaces, presentation models and complex geometry.

Standard resin **Tough resin** **Flexible resin**

Large-format resin capacity:
up to 302 x 162 x 300 mm

3D SCANNING & REVERSE ENGINEERING

Portable and desktop 3D scanning can be used to capture existing geometry, support part recreation, develop replacement components, modify existing designs and create digital records of physical objects.
Where required, scanned data can be rebuilt into editable CAD geometry.

NOT SURE WHICH PROCESS OR MATERIAL?

You do not need to specify the technology before contacting us. We can recommend a suitable route based on the part, environment, performance requirements, quantity and stage of development.

HOW WE WORK

1. DISCUSS
Tell us what you need, what problem you are trying to solve or what you want to create.

2. DESIGN
We develop a new design, modify existing CAD or recreate an existing physical component.

3. PROTOTYPE
A physical prototype can be produced to check fit, function, appearance or assembly.

4. REFINE
The design is updated following testing, feedback and practical findings.

5. MANUFACTURE
We can support small production runs and, where suitable, progression towards other manufacturing methods.

WHAT CAN WE HELP YOU WITH?

- New product ideas
- Functional prototypes
- Replacement and obsolete parts
- Existing parts without CAD files
- Custom brackets and technical components
- Enclosures and housings
- Jigs and fixtures
- Production aids
- Small production runs
- Parts requiring redesign or improvement
- Older drawings requiring digitisation
- Models, replicas and one-off components

Every project is different. Whether you have an idea, a drawing, a CAD file or an existing physical part, we can help identify the next practical step.

OUR BRANDS

Maikoot Solutions
B2B product development, design and manufacturing support.

Blue Box Goblin
Online store and 3D printing filament supply for businesses and individual users.

LET'S TALK

Need help with a project, part or production run? Get in touch to discuss what you are trying to achieve.

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UK-based design and manufacturing support | Small-batch and specialist work welcome | Direct communication

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