

# PHOENIX MB72

## ADDITIVE MANUFACTURING TECHNOLOGY



Each Phoenix MB72 is made with a vast quantity of additive manufactured parts. Additive manufacturing is the latest in technology developments and introduces flexibility and speed of design to production hereto unheard of. The entire MB72 went from initial concept to market ready unit in just 6 weeks, considering that every item of hardware is bespoke this is virtually unheard of for a micro-enterprise. Additive manufacturing has enabled all parts to be prototyped, tested and produced in-house with minimal set-up time.



Additive manufacturing enables us to produce each component to the exact specification and purpose, and enables the use of bespoke components where normally just the tooling costs would be impossible to bear on a project of this nature. Specific polymers can be chosen for each purpose, such as highly resistant PETG for external parts, UV resistant ASA for items close to the light source and high detail, environmentally friendly PLA for cosmetic parts.

A maintenance dream.

We have placed many specific parts on our website where the 3D STL print files can be downloaded for free, this enables you to keep your MB72 running for free well into the future should any accident occur. All you need to do is find someone local with a 3D printer and you have unlimited access to parts. Additionally the control system is based on the open source Arduino Uno platform so should any problem be encountered well into the future you can be assured that it is an easy fix. The Arduino Uno controlling the MB72 is on a plug-in architecture for easy servicing. The software code is also published on our website.

