

GODDESS INTERNATIONAL LIMITED

THE BRIEF

Goddess International Limited is a well-known and trusted name in the design and manufacture of Beauty Therapy Equipment. Over the last 20 years they have supplied Goddess Equipment, Goddess Skincare, Training and Services to Salons, Spa's and Colleges throughout the UK and overseas. Their reputation has been built on the keen detail and high level of design, quality, reliability, and affordability of their products.

THE APPROACH

Goddess International were searching for new sustainable methods of producing their existing equipment. They also needed to find a way to produce this in variable quantities, which is not possible with traditional manufacturing processes.

They approached the Science and Technology Facilities Council (STFC) to explore the use of 3D printing as a new manufacturing method. However, as the technology is new to them, they did not have a computer-aided design (CAD), which is required to create components using 3D printing.

THE BENEFITS

STFC Campus Technology Hub supported Goddess International by preparing the existing CAD data to be suitable for 3D printing and creating new CAD for additional components for Goddess' Minipeel Compact Dermabrasion System.

The Campus Technology Hub engineers also created CAD to consolidate an assembly of parts, which enabled five individual parts which would require glueing and assembly to be manufactured as one single 3D printed component. This demonstrated the benefit that can be achieved by using additive manufacturing as a production process to create complex components with internal voids and integrated threads.

"On receipt of the 3D CAD models, we were very impressed with the quality and level of accuracy of the units. We immediately set to assembling the working parts and with only a few minor adjustments we now have two working models, and a CAD design for future 3D printing."



Without the knowledge and expertise of STFC this new technology and more sustainable method of producing a quality product in small quantities would not have been possible. We are delighted with the outcome and success of this project and truly grateful for all the help and assistance from STFC."

- Roz McCall – Managing Director.Design