# 3D Printing Actives Well-Being Sector

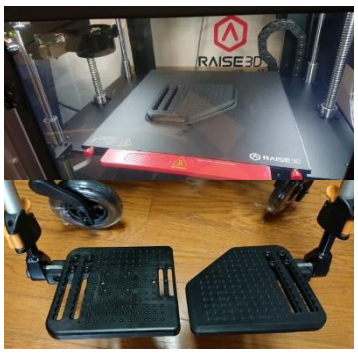
Raise3D Case Study
https://www.raise3d.com/case/3d-printing-actives-well-being-sector

Mon-Chan Co. Ltd. is a Japanese company that develops, repairs, and customizes health and well-being equipment. By using a Raise3D printer in their primary manufacturing process, Mon-Chan can produce any required parts and can easily adapt to the business environment.

## Difficult Challenges

Unlike FMCG or high-end niche sectors, Mon-Chan operates in a more scattered market with a low volume and limited profit. These conditions restrict the any change in scale of Mon-Chan's manufacturing and their fabrication capability.

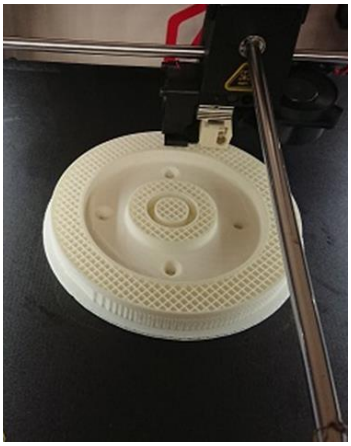
## How Mon-Chan Benefits from 3D Printing



To be able to provide personalization at a lower cost, Mon-Chan purchased the Raise3D N2S printer. The ability to use additive manufacturing in-house by employing FFF printing removed the need for Mon-Chan to outsource the production of components and, at the same time, reduced the difficulty of operating at a small business scale.

*Mon-Chan Redesigned and Printed New Foot Pedal*

## Quantified Way for Micro Engineering



Mon-Chan has was able to create inner structure engineering using the rich parameters and comprehensive slicing preview provided by ideaMaker. By modifying structure features such as shell number, infill rate, infill structure, extrusion width, and layer height, Mon-Chan tried to redefine the mechanical properties of the workpiece against possible stress loading onto current geometry.

*Customized Infill Structure and Density by ideaMaker*

## Versatile Material Compatibility

For end-use parts, Mon-Chan prefers performance thermoplastic such as PC and ABS for printing. Printed parts must be stiff and impact-resistant when used in a heavy-duty scenario, such as in Mon-Chan's wheelchair modules. Raise3D's FFF technology ensures that the N2S is compatible with these popular thermoplastics. In addition, Raise3D's material science team developed well-paired filament products with stable printing performance.

## Energizing Distributed Manufacturers

Distributed manufacturing sectors such as automotive aftersales, orthopedics, dental, and props can benefit from 3D printing. Different from large-scale manufacturing sectors such as FMCG, automotive, household, and electronics, distributed manufacturers suffer from high costs and low volume with its scattered market. However, 3D printing reverses this business environment with a flexible and more beneficial manufacturing process.

This case is shared by Japan 3D Printer (https://raise3d.jp/), which is Raise3D's distributor in Japan.

## Connect with Raise3D

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For more information about Raise3D printers and services, browse our website, or schedule a demo with one of our 3D printing experts.