

*RM case study*

Case name	<b>Customized Enclosure</b>	
Dimensions in mm (L x W x H)	From 10x10x10 until 280x280x380	
Application	Electronic Enclosures	
RM process	SLS	
Software	VBA Macro	
System	SolidWorks	
Material	Nylon	
Lead time (hours/days)	4 days	
Costs	Around 50€ for the software	
Surface finish	Coating (not applied yet in pictures)	
Mechanical properties	Unknown	
Thermal properties	Unknown	
Any additional info	<p>The object of this case study was to let consumers, in this case electronic circuit designers, design their own product. A parametric model was designed in SolidWorks. This model is a macro and user can run this macro as a program. They can adjust the general dimensions of an enclosure, and add features, like a round hole, or a rectangle cut-out. Finally, the can export the file as an .STL and e-mail it to a production facility. The enclosures you see on these pictures are all designed with this program. This program is suitable for almost any circuit board you can imagine.</p>	
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**Figure 1 Customized Enclosure**


