

5 tips to save you in quick prototyping

Choose the best technology for your needs

Save money!
The cheapest technology is the one that responds to your project exignees and not the one that costs less!



Optimize size

Compattare il volume del pezzo con i componenti interni. Portare gli spessori al minimo necessario considerando la funzione del pezzo ed i materiali prototipali scelti. Non scendere mai al di sotto di 0.8mm.



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Choose the finishes you need

The finishes applied to the piece generally lead to an increase in the cost of the prototype. Choose only the necessary ones.



Reduce the height Z

Reducing the height of the pieces optimizes the machine hours required for production.



Delete underlays

The underlays may be heavy on the chosen production process. Leave them only where necessary.

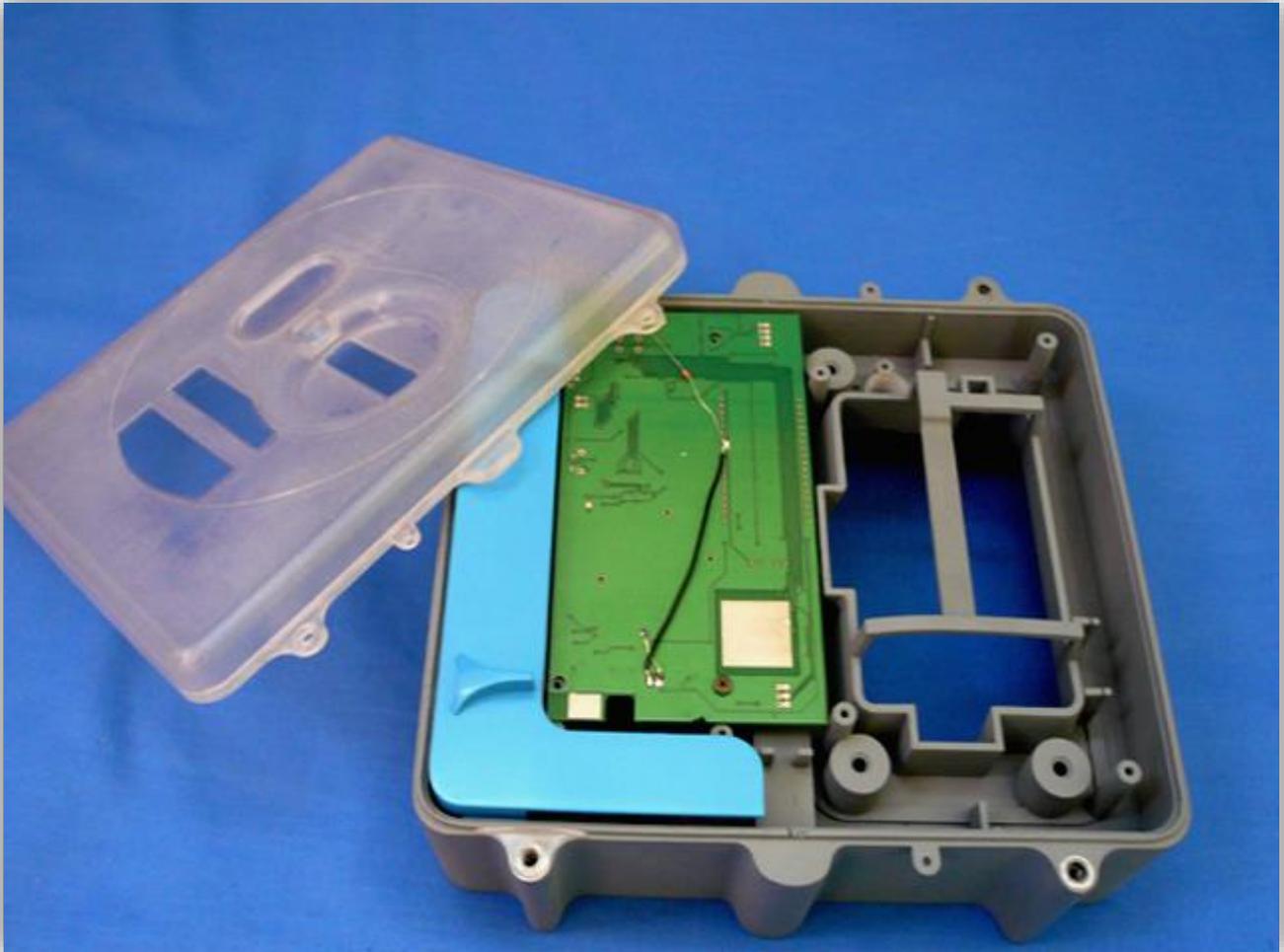


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OPTIMIZE THE SIZES



If the detail you are developing involves assembly with internal components, it is advisable to design optimizing their positioning to make it more compact, avoiding empty spaces. Small thicknesses may not be reproduced by additive prototype machines, so it is advisable not to drop below 0.8 mm.



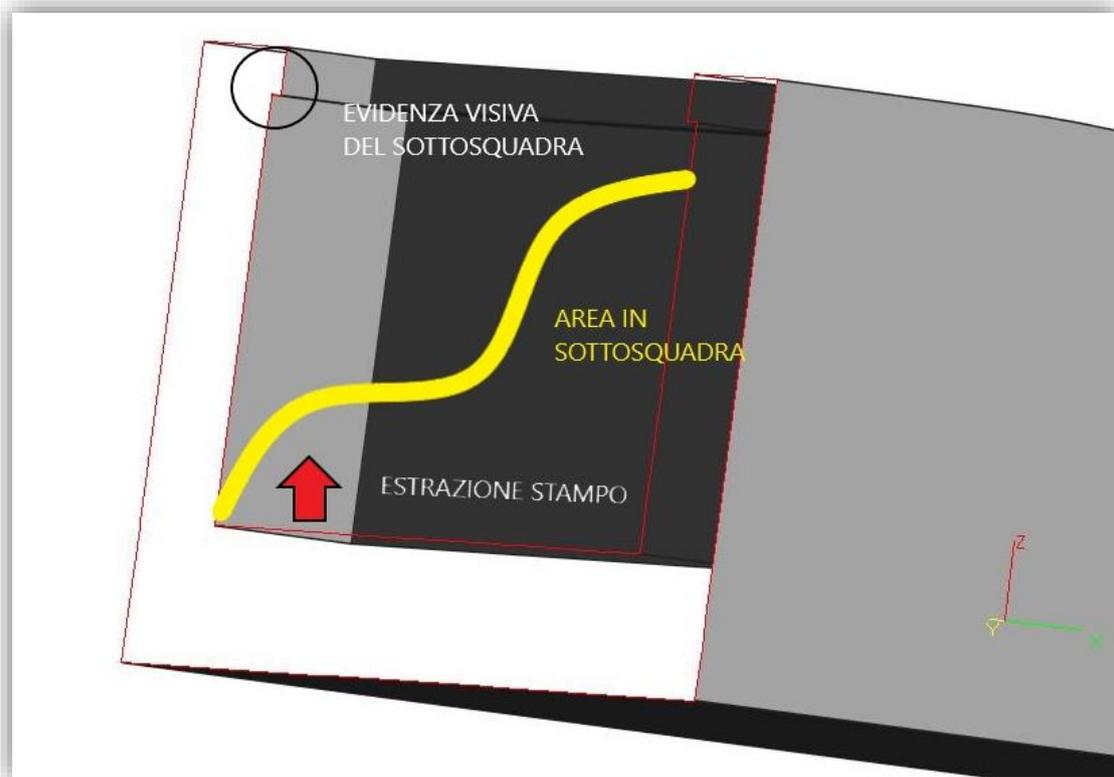
CHOOSE THE FINISHES NECESSARY



The finishes on the pieces are almost always manual post-process operations that affect the cost of the prototype. Of course if you need to have a particular aesthetic, you can not do without these operations; we can execute many finishes including varnishing, screen printing, vacuum metallization, anodizing polishing.



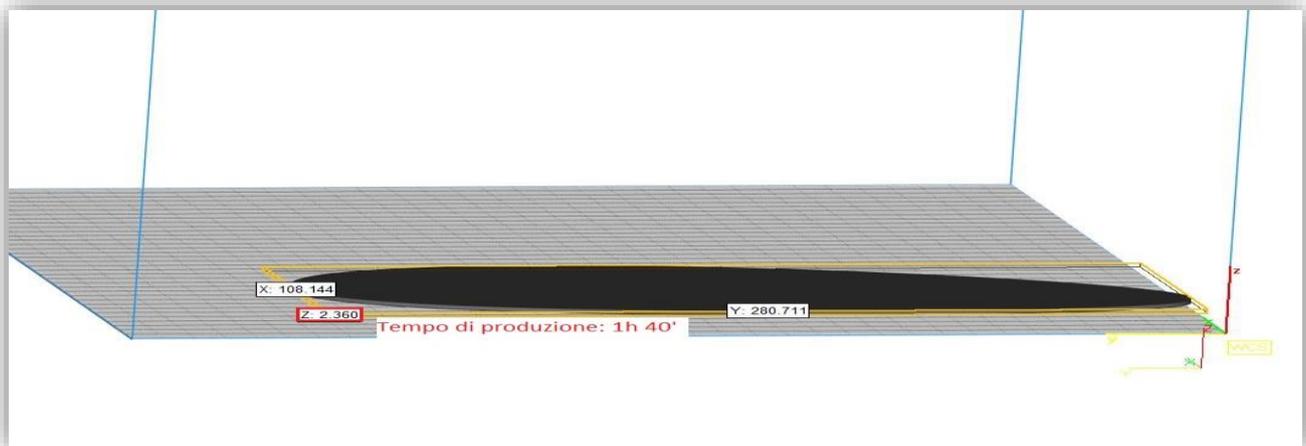
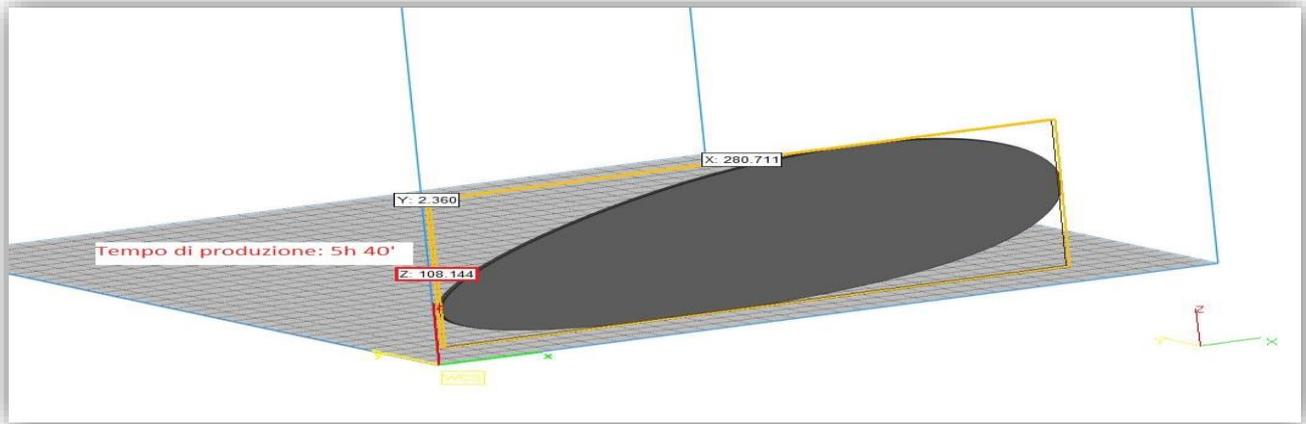
DELATE UNDERLAYS



By means of additive technologies, the undercuts are achievable. In the case of pieces made from mechanical machining or mold castings in silicone, make sure that there is an alternative solution and is likely to increase the cost of production.



REDUCE THE HEIGHT Z



All additive prototyping processes produce parts as a result of horizontal layering of material. So I will save time by placing the longest side on the horizontal plane.

5

CHOOSE THE BEST TECHNOLOGY FOR YOUR REQUIREMENTS



Rapid prototyping technologies have distinct prices; sintering is an economic process while stereolithography has a higher cost of 15-20%. To save (ie not waste resources) it is always advisable

to choose the process and material that best meets our needs. So not the least economically viable solution but the best in terms of final result and test.

For a FREE consultation on your project, write to our engineering team at info@coesum.com or call us at 0871/250230, you will immediately have:

- **Answer within 24 hours**

Within 24 hours of your request you will receive our quote for the production of rapid prototypes. Our technical consultant will help you to give you an overview of available technologies and choose the solution closest to your needs. The best prototyping technologies to achieve what you need while respecting your aesthetic, functionality, mechanical strength and much more.



- **FREE feasibility study included in the estimate**

Our consultant will always carry out a prior analysis of the shared project to optimize the design according to the production process. This will save you time, choose the technology that best suits your need and get the right answers from the tests you will make on the prototype.

- **Conformity checks BEFORE shipment**

Before proceeding with the shipment of your order, our employee will check the details to verify the geometry and the tolerance of the tolerances in accordance with what has been announced in the estimation.

