



fonderiataroni
ALUMINIUM CASTING

*The Best Value carries from
The Integrity of Successful
& Working Perfectly*

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1°

Rapid Protocasting with disposable mold for the Medical sector

From the 3D project of the customer is realized a sand mold which is cast the aluminum alloy desired



Benefits for the research and development department

- Quickly evaluate metal part design
- Saving time and money
- Produce metal prototypes in almost any metal material
- Allow testing of the part in the actual production materials
- Produce metal parts without expensive tooling
- Reduce sampling time
- Reduce lead time

Protocasting Process

- Analysis of 3D mathematical model (feasibility study, construction drafts casting systems and simulation)
- Modeling of tool with parametric 3D CAD
- Printing samples with 3D printing machine (high-speed complex shapes are obtained, even in the undercut, made in sand croning that can be employed in the foundry)
- Casting, deburring and sandblasting
- Any subsequent machining

Time

This technique ensures fast implementation ranging from 7 to 14 days, depending on the complexity of the project

Material

It uses the same aluminum alloy melt in series

Treatment

You can also do mechanical tooling on the prototype as well as leak testing and other pre-processing, verifying the quality of the project.



2°

Trolley for Medical devices

A light alloy trolley was designed and made, going beyond the techniques used until now and reaching in such a way the required standards of lightness, payload, and reliability. All this at a competitive price and in a very short time.



TIME SAVED

2 months as regards design

MONEY SAVED

20% on the total cost of the project

Benefit for the customer

- Significant reduction of the time required to develop a new design
- A better service is offered
- Quick increase in knowledge
- A new proposal to the market and advanced design
- Products made of a light, pliant, and resistant alloy
- Protective anti-corrosive treatments
- Recyclable material
- A backward step: this is the end of disposable items
- An eternal product!

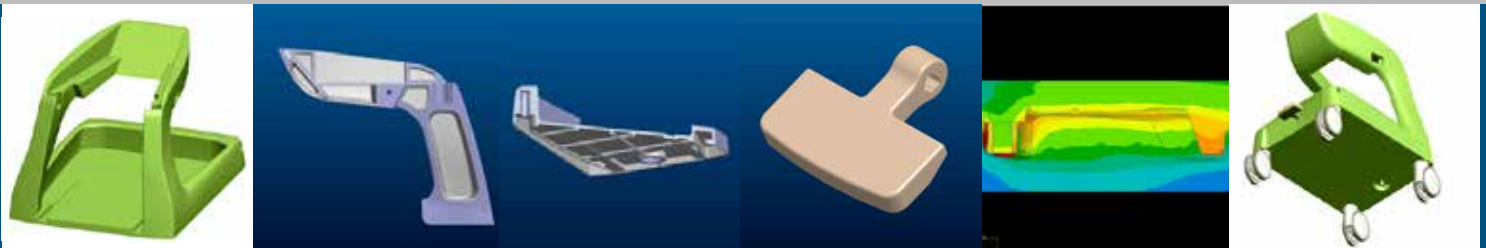
Customer Requirements

- Reduce the risk on the initial investment
- Quickly exhibiting in fairs
- Using the sample for thermal tests on the product
- Cheap initial investment
- Reduce the times of production

Solution

- Customer-supplier co-design appointed to a die-casting series production
- Aluminium billet casting samples, final painting inclusive in 2 weeks
- Mechanical and technical tests
- Molds realization, low-cost initial investment to test the market, and prospective chance of changing technology without variation of price

Project timeline



[Fonderia Taroni USA]



Fonderia Taroni USA is a Technical and Sales office with an Assembly line/storage facility site in Miami born to offer a **customized** and **highest level service** to different customers in the US market and to make the best use of the potential for **market development**.



Customer Benefits

- Technical support
- Logistic support
- Reduction time
- Flexibility
- Quick delivery
- Supply chain validation
- ISO 9001 Certification
- ISO 14001 Certification
- ISO 13485 Certification

Services

ENGINEERING SERVICE
TECHNICAL SUPPORT
ASSEMBLY LINE
STORAGE FACILITY

Contact

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