



fonderiataroni

100% ITALIAN ALUMINUM CASTING 



**FORGING PRECISION,
DEFINING PROTECTION**

[CASE STUDIES]

1°

BODY OF WEAPON

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



Benefits for the R&D department

- ✓ Quickly evaluate metal part design
- ✓ Save 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

FAST PROTOCASTING

- ✓ 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 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

The same aluminum that will be used for series production

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°

ELECTRIC TRANSMISSION CUSTOMIZED FOR MILITARY VEHICLES



TECHNICAL DATA SHEET



Dimensions

1000x800x30 mm
3,3x2,6x1 ft



Casting weight

120 Kg (one piece)
246 lb (one piece)



Pouring weight

145 Kg - Yield: 56%
319 lb - Yield: 56%



Moulding Process

Permanent mold casting

PLUS FOR THE CUSTOMERS

✓ SPEED

Important lead time reduction.
Mold making, sampling, production and machining.

✓ TECH

We are able to cast "gigagastings" with dimensions ranging from 1000mm (3.3 feet) to 1500 mm (5 feet) on all dimensions (x,y,z) reaching a maximum of 200 Kg (440 lbs) of aluminum casting.

✓ COSTS REDUCTION

Our consultancy is aimed at studying all the solutions to reduce production costs thanks to the technology installed and the experience in the sector.

✓ FLEXIBILITY

We can produce castings in lots of low (100 pieces per lot) and high quantities.

✓ SIMULATION

The casting simulation is a tool used in foundries to monitor the filling process of the aluminum into the mold, so check filling and solidification of castings and identify any critical areas.



[**Fonderia Taroni**]

Fonderia Taroni, founded in 1974, is a **gravity aluminum** (permanent mold casting) **foundry** with locations in **Italy** and the **USA**.

Our commitment to technological development and the ever-evolving market has led us to achieve a significant milestone – **the ability to offer customers a complete and finished product, ensuring considerable reductions in both time and costs**, especially in **highly innovative sector**.



APPLICATIONS

- ✓ **Weapon**
- ✓ **Radar**
- ✓ **Vehicles**
- ✓ **Camera aircraft**

SERVICES

- ✓ **CASTING**
- ✓ **MACHINING**
- ✓ **ENGINEERING SERVICE**
- ✓ **TECHNICAL SUPPORT**
- ✓ **ASSEMBLY LINE**
- ✓ **STORAGE FACILITY**

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