

There are no secrets to success. It is the result of preparation, hard work, and learning from failure.

[About Company]

Fonderia Taroni, founded in 1974, boasts an accomplished tradition in aluminium die gravity casting (permanent mold casting).

The team works in a very smart way with the aim of finding solutions for customers. Much of our consultancy is aimed at reducing production costs and shortening lead times to speed up time to market.

The strong specialization for medical device, instrument transformer, automotive and robotics has led the company to be 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.

Fonderia Taroni has achieved certification of its Management System in accordance with three International standards: ISO 9001 - Quality Management, ISO 14001 - Environmental management, ISO 13485 - Medical devices.

The company makes several investments in technology, in particular in recent years have been made: 3 plants with casting robots 4 automatic melting furnaces 5 CNC machining centers 1 x-ray machine and a 7-axis 3D measuring arm in the quality laboratory 4 melting furnaces.

Besides, we also internally follow the 3D design of the mold together with the customer, and constantly supervise the external manufacturing. The guality of the product is guaranteed by our analysis lab, which is provided with a spectrometer, an x-ray machine, and density scale.



€13m Company Turnover

60% of turnover comes from foreign customers

Employees

Years old

Mission

Provide castings of light alloys of aluminum with technical / mechanical and aesthetic function. Design and manufacture equipment and molds for gravity flows.

Vision

To be a reference point for global companies becoming the sole partner able to develop the idea of the customer to the finished product with a 360 ° service in partnership with other qualified companies.

[History and Future]

From the roots to tomorrow



Roberto Taroni Founder of Fonderia Taroni (1974)



FonderiaTaroni Was founded by Roberto Taroni, the production area was a stable



1981 **First Facility** From the stable to the first technical facility



200

Robots arrives The company acquire two anthropomorphous casting robots and the related computerized plants



Ouality System Quality System is certified according to standard UNI EN ISO 9001 by the certification authority DNV



2011 X Ray Machine This machine allow to do x-rays to the casting



2012 **Full Service** Full service including assembly Thanks to partner Company



2014 **Big casting machine** Big mold multi cavity

fonderia**taroni**

Fonderia Taroni USA

Technical and Sales office with an

Assembly line/storage facility site



2021 Earthmoving machinery Fonderia Taroni will produce aluminum castings for the market of earthmoving machines



2023 **New Plant** Over 10,000 m² (167,000 Sq. ft.) of production line. Foundry, machining and storage facilities



2016

in Miami

2018 **Facilities expansion**

The new production area will covers 2600 m² and officies 650 m²



2019 New production line The company will acquires another anthropomorphous casting robot and the related computerized plants





Foundation Anniversary 1974 - 2024





2024 **IATF 16949** Ouality Management System for Automotive

1970

1980

2000

1995

The new production area covers

1600 m² and officies 400 m²

New facilities

1990

2010

2020

SUSTAINABILITY

THE ROAD TO GREEN FOUNDRY

THE 2015

 Natural gas consumption monitoring

> CO2 emissions monitoring

2017

Certification
 ISO 14001
 Environmental
 Management
 System

2020

> 50 kW solar system installation

Replacement of natural gas furnaces with electric furnaces

2023

> 100% electric air-conditioning system

> 180 kW solar system

> Analysis of energy efficiency with heat recovery

2024

ISO 50001
 certification
 Energy
 Management
 Systems

> Certification Carbon Footprint

> Replacement of furnaces with new energy-efficient ones

Our contribution to a sustainable economy with low environmental impact



ELECTRICITY USED FROM RENEWABLE SOURCES 90%

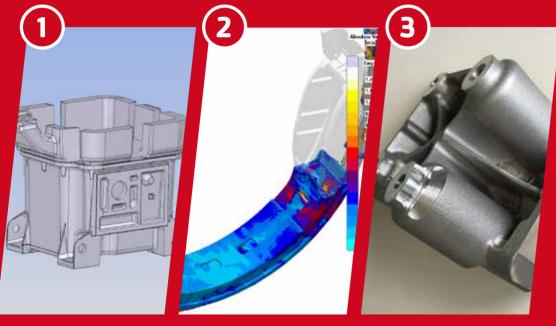
OF WASTE SENT TO RECOVERY ACTIVITIES

-70%

REDUCTION OF C02 IN THE ATMOSPHERE COMPARED TO 2015

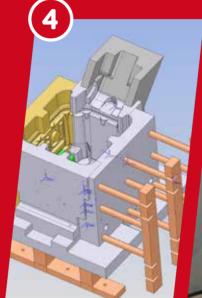
[Engineering]

The phases of the industrialization process of the customer's product



Casting

Rapid



Mold design



Bill of material

6

14-8 18 71



Services

MOLD DESIGN

- CASTING
 SIMULATION
- MOLD
 IMPLEMENTATION
- RAPID PROTOCASTING
- CASTING
- LABORATORY
 CONTROL

FINISHING

- THERMICAL
 TREATMENTS
- MACHINING
- PAINTING
- ASSEMBLY

Solutions to SAVE YOUR TIME

Casting 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. The simulation of the aluminum casting is achieved thanks to a software that performs a mathematical simulation of what happens during the process of filling and solidification within the mold steel, so as to check for any issues before moving to the machining of the mold.

Benefits:

- Reduce time and cost of production
- Compliance with quality standards required
- Reduction of non-compliance
- Optimization of feed channels
- Evidence of stagnation or entrapped air
- Evidence of any "porosity"

Rapid Protocasting

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

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.

Benefits:

- 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





Aluminium casting for aftermarket truck and earthmoving machines components



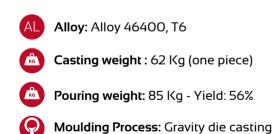


The Challenges

- Cost of finish part competitive with "low cost" Country competitors
- Maintain the quality of European production
- Metal treatment must provide a well modified structure for mechanical properties as well as a melt free from inclusions and oxides
- Filling must be turbulence free to avoid creating fresh oxides in the die cavity
- Feeding must be efficient to avoid shrinkage

Technical Data Sheet

GEAR BOX



TRANSMISSION

- Alloy: Alloy 43300, T6
- **Casting weight** : 44 Kg (one piece)
- Pouring weight: 58 Kg Yield: 56%
- Moulding Process: Gravity die casting

PLUS FOR THE CUSTOMERS

V CHANGE

 \checkmark

We chose to move from sand casting to gravity casting.

- **TECH** We are able to make small and large size castings.
- ✓ FLEXIBILITY

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

✓ KNOWLEDGE

The mechanical characteristics of aluminum improve the behavior and the functionality of the components.

CO-DESIGN

Specifications, product use, costs, quality, quantity are analysed with the customer. We also carry out an approximate analysis of the costs of the tools needed.

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.

The road to finished products

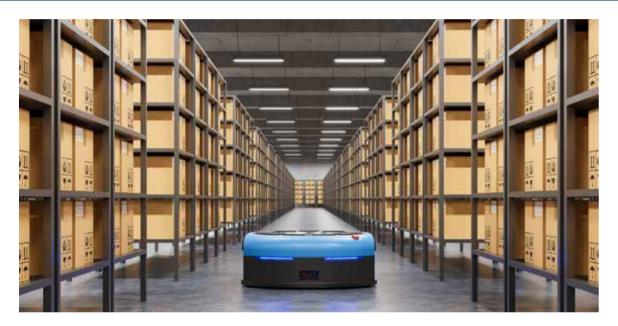






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GIGACASTING FOR WAREHOUSE ROBOTICS



Technical Data Sheet



Dimensions 1000x800x30 mm 3,3x2,6x1 ft



Aluminum alloy 42100



Moulding Process Gravity die casting

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



319 lb - Yield: 56%



PLUS FOR THE CUSTOMERS

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. anter tates

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.



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.



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.

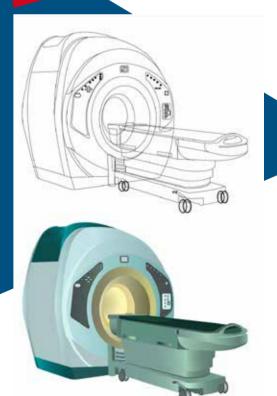


Protocasting Process

- Analysis of 3D mathematical model (feasibility study, construction drafts casting systems and simulation)
- Modeling of tool with parametric 3D CAD
- Printing sampleswith 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

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







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.

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 diecasting 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

TIME SAVED 2 months as regards design

MONEY SAVED 20% on the total cost of the project

Benefit for the customer

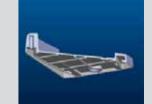
- Significant reduction of the time required to develop a new design
- A better service is offered
- Quick increase in knowledge
- A new proposal to the market and advanced design
- Products made of a light, pliant, and resistant alloy
- Protective anti-corrosive treatments
- Recyclable material
- A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



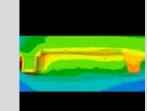
Project timeline













Instrument Transformer box and cover

Product

Casting Instrument Transformer box and cover

Objectives

Cost of finish part competitive with "low cost" Country competitors

Customer Requirements

Liquid pressure test 2 bar (30 psi) andr Roughness 1.6 µm

The Challenges

- Cost of finish part competitive with "low cost" Country competitors
- Maintain the quality of European production
- Metal treatment must provide a well modified structure for mechanical properties as well as a melt free from inclusions and oxides
- Filling must be turbulence free to avoid creating fresh oxides in the die cavity
- Feeding must be efficient to avoid shrinkage

Casting weight : 14 Kg (each one 2

Pouring weight: 50 Kg - Yield: 56%

Pouring temperature: 760°C

Technical Data Sheet

Alloy: Alloy 43300, T6

COVER

cavity)

BOX

- Alloy: Alloy 43300, T6
- Casting weight : 31 Kg (one piece)
- Pouring temperature: 760°C
- **Pouring weight:** 47 Kg Yield: 56%
- Moulding Process: Gravity die casting

Casting Simulation



Simulation benefits:

- Reduce time and cost of production
- Compliance with quality standards required
- Reduction of non-compliance
- Optimization of feed channels
- Evidence of pockets of stagnation and the areas exposed to the danger of
- entrapped airEvidence of any "porosity"

How we win the challenges

🗸 CO DESIGN

Specifications, product use, costs, quality, quantity are analysed with the customer. We also carry out an approximate analysis of the costs of the tools needed.

CASTING 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.

AUTOMATION FOUNDRY PROCESS

Thanks to the size of the machinery of the foundry it has been possible to realize a mold with two cavities with dimensions of 1200 x 1000.

 AUTOMATION MACHINING PROCESS



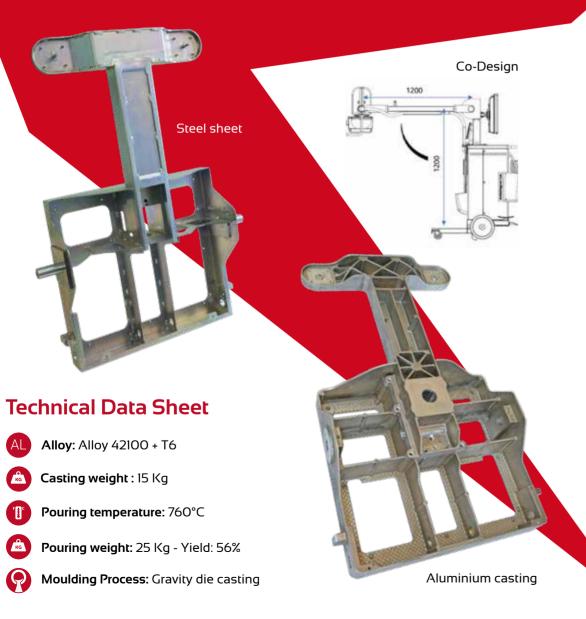


Moulding Process: Gravity die casting Moulding Pro



X-Ray trolley

Technical consulting from steel sheet to aluminum casting



Benefits

- Weight reduction
- Good mechanical features
- Better aesthetics and design
- Longer durability of the product
- Overall product cost reduction
- Compliance with ISO 13485 standard
- Higher security



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BB

DNVO

190 1348

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Steps

- Feasibility Analysis
- Design
- Simulation
- Prototyping
- Manifacturing

Plus

- FMEA
- **Control Plans**
- Batch and materialis traceability guaranteed 15 years
- Qualified Supply Chain
- Low batch thanks to storage
- Guaranteed powder coating 1000 or 1500 hours with saline fog test according to the customer requirements, certified by accredited laboratory
- Possibility different color
- Possibility different application

Company Plus

MRP and Internal Order Traciability

Thanks to **MRP** (Material Requirements Planning) deliveries are timely. The **information management system** allows us to get under control the progress of the internal order and moves up the supply chain of the product and its **exact location**. The entire production process is assissted by a barcode system that communicates in real-time all data necessary for the proper management of the process.

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Management System Certification

Fonderia Taroni has achieved **certification** of its **Management System** in accordance with three International standards.

- ISO 9001 Quality Management
 ensures that products and services consistently meet customer's requirements, and that quality is consistently improved.
- ISO 14001 Environmental management provides practical tools for companies and organizations of all kinds looking to manage their environmental responsibilities.
- ISO 13485 Medical devices is an internationally agreed standard that sets out the requirements for a quality management system specific to the medical devices industry.



Metrology rooms

Two advanced metrology rooms designed to ensure precision and quality at every stage of aluminum product manufacturing.

Laboratory dotation:

- RX Machine (Bosello)
- Spectrometer (Spectromaxx)
- Tensile Testing Machine
- Stereo Microscope:
- Thermal Analysis
- Coordinate Measuring Machine
- 7-Axis Measuring Arm

Key Performance and Risk Indicators

Our **performance indicators** allow us to regularly keep under control every single process in order to implement corrective measures and to define improving plans.





The Foundry



Robotic casting plants

A robot of **3 stations** per plant can handle casting ranging from 1.3 lb to 8.8 lb. Every station is provided with 2 casting machines tilting to 45°, whose span is 5.4 ft







Melting furnaces

High efficiency gas furnaces whose capacities are: 2 furmaces: 2000 Kg liquid aluminium - 800 Ka/h 2 furnaces: 600 Kg liquid aluminium - 300 Kg/h



Capacity 100kg 15Ton/Day



Electric furnaces

Electric power supply was chosen to guarantee thermal and metallurgical stability. 2 furnaces: 1000 Kg/ 2205 lb. 7 furnaces700 Kg/1543 lb.



Liquid always

Ton



Casting machines

Taroni Foundry has 21 AUTOMATIC casting machines, among these the largest machine in Europe.



Degassing plants

Degassing plants are fundamental because, as regards alloys specific weight, they make us to achieve a better result.



Mechanical workshop

Our internal workshop is provided with manual machines for molds maintenance and setup.



Max Dimensions L:2500 mm H:2500 mm P:2000 mm



100%



Maintenance **Under Control** by in House Scheduling

The Foundry

0000

The Largest Gravity Die-Casting Machine in Europe

With a spacious working area that accommodates molds up to **2500 x 2500 x 2000 mm** (8.2 x 8.2 x 6.5 ft), this state-of-the-art die-casting machine represents a significant step forward in our production capacity.

It allows us to create even **larger and more complex aluminum gigacastings**, opening the door to new opportunities and challenges in the industry.

This investment demonstrates our commitment to technological innovation and delivering high-quality products to our customers.

[New plant] 167.000 Sq. ft.

The new 10.000 mq (167,000 Sq. ft.) plant is Fonderia Taroni's second operational site.The new factory is divided into 4 basic areas: machining department, metrology room, warehouse and offices.



Machining department



5 CNC centers with 4 axes for high precision machining.

We are able to carry out high precision machining in compliance with the requirements provided by the customer



Metrology room







The metrology room is equipped with all the necessary high-precision measuring equipment and guarantees maximum compliance with customer requirements: **DEA Scirocco coordinate measuring machine** (CMM)

Kreon 3D laser scanner + portable arm

In addition a **3D printer (Stratasys f170)** dedicated to **rapid prototyping**

Offices



Warehouse



Skills

Automatic Melting Furnace



C.P.



Liquid aluminum capacity: 2.000 kg Hourly production: 600 kg/h Vertical loader with hydraulic command Furnace and loader with automatic cycle Automatic opening and closing of chimney for

- temperature and fume management
- Temperature control by 3 thermocouples
- Aluminum liquid level and aluminum loaded level controlled by means of laser

Metrology Room



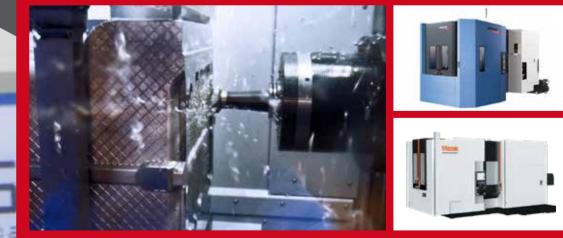
During any phase of the production, the metallurgic and structural aspects of castings is kept under control according to the UNI norms. Laboratory dotation: X-ray Machine (Bosello), Density Scale, Spectrometer (Spetromaxx), Stereo microscope and 7-axis 3d measuring arm.

3 robotic casting plants



A robot of 3 stations per plant can handle casting ranging from 1.3 lb to 8.8 lb. Every station is provided with 2 casting machines tilting to 45°, whose span is 5.4 ft.

5 CNC machining centres



5 cnc centers with 4 axes for high precision machining. We are able to carry out high precision machining in compliance with the requirements provided by the customer.

[Customers]

Turnover Breakdown



Our Customers

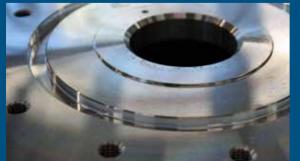
35 % Medical Devices
25 % Instrument Transformer
15 % Robotics
10 % Gear box
5 % Clutch
5 % Mechanical
5 % Pumps

[Machining]

5 CNC centers with 4 axes for high precision machining. We are able to carry out high precision machining in compliance with the requirements provided by the customer









The details are not for just anyone

[GIGACASTING]

Our know-how and the investments we have made have allowed us to create aluminium "**gigacastings**" of considerable size and weight.

Casting Dimensions
X: 2000 mm - 6,6 ft
Y: 2000 mm - 6,6 ft
Z: 2000 mm - 6,6 ft

Casting Weight 200 Kg – 440 lb

Technology Gravity casting Permanent mold casting

FT casting corp



FT-Casting is ready to handle all your technical and commercial services needs for the production of high-tech aluminum castings. FT-Casting is based in the great state of Indiana and is available to deliver in 48 hours throughout the U.S. territory. A complete service that favors the growth of client companies in an increasingly uncertain market.



Customer Benefits

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

Contact

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Services

ENGINEERING SERVICE TECHNICAL SUPPORT ASSEMBLY LINE STORAGE FACILITY

Aluminium Alloys

Comparative table of world wide aluminium alloy standards

by designation designation UNI (Italy) ASTM (USA) DIN (Germany)
rimary Alloy Primary Alloy Primary Alloy Primary Alloy Primary Alloy
Al Si5Cu1Mg EN AC 45300 UNI 3600 355.0 -
Al Si7Mg EN AC 42000 UNI 3599 356.1 -
AI Si7Mg0,3 EN AC 42100 UNI 8024 356.2 G AISi7Mg
AI Si7Mg0,6 EN AC 42200 UNI 8392 356.3 G AISi7Mg
Al SilOMg(a) EN AC 43100 - A360 DIN 239 A
Al SilOMg(Cu) EN AC 43200 DIN 233
Al Si10Mg(Cu) EN AC 43300 DIN 1725/5-86
Al Sil2(a) EN AC 44200 UNI 4514 - DIN 230 A
Al Si12(b) EN AC 44100 UNI 4514 B413.0 DIN 230.1
Al Si4,5MnMg - UNI 3054
AI Mg3 EN AC 51100 UNI 3059 -
condary Alloy Secondary Alloy Secondary Alloy Secondary Alloy Secondary Alloy
Al Sil2(Cu) EN AC 47000 DIN 231 A
Al Si11Cu2(Fe) EN AC 46100
AI Si9Cu1Mg EN AC 46400 UNI 7369/3
Special Alloy Special Alloy Special Alloy Special Alloy Special Alloy
Al Si2MgTi EN AC 41000 UNI 3055
Al Cu4MgTi EN AC 21000 - 204.0 DIN 2201

This is a list of aluminum alloys most used by Fonderia Taroni. For a complete list of aluminium alloys used please visit fonderiataroni.com

[Mechanical Features - Aluminium Alloys]

Mechanical features of the most used aluminum alloys

Primary Alloys

EN AC 45300						
Casting process	Temper designations	Rm Tensile strenght (N/mm2)	5p 0,2 Yield strenght (N/mm2)	A Elongation (%)	HB Brinell hardness (HB)	
	F	205-245	125-155	4-5	70-95	
SHELL (as cast)	T4	305-345	195-235	5-9	100-130	
	T63	345-390	275-315	2-5	110-140	

EN AC 43300

Casting process	Temper designations	Rm Tensile strenght (N/mm2)	Sp 0,2 Yield strenght (N/mm2)	A Elongation (%)	HB Brinell hardness (HB)
SHELL (as cast)	F	180-240	90-150	2-6	-
	T6	260-340	200-280	4-7	90
	T64	260-340	200-280	4-7	80

EN AC 42100

Casting process	Temper designations	Rm Tensile strenght (N/mm2)	Sp 0,2 Yield strenght (N/mm2)	A Elongation (%)	HB Brinell hardness (HB)
	F	180-240	90-150	4-8	50-65
SHELL	T6	250-340	220-280	5-9	80-100
(as cast)	T64	220-270	120-180	6-12	65-85

EN AC 42200

Casting process	Temper designations	Rm Tensile strenght (N/mm2)	Sp 0,2 Yield strenght (N/mm2)	A Elongation (%)	HB Brinell hardness (HB)
SHELL (as cast)	T64	290-320	210-240	6-8	90-100
(ds cast)	T6	300-350	240-280	4-6	100-115

EN AC 44100

Casting process	Temper designations	Rm Tensile strenght (N/mm2)	Sp 0,2 Yield strenght (N/mm2)	A Elongation (%)	HB Brinell hardness (HB)
SHELL	F	175-215	90-110	5-7	55-65
(as cast)	T5	165-215	80-100	6-10	75-95

EN AC 51100						
Casting process	Temper designations	Rm Tensile strenght (N/mm2)	Sp 0,2 Yield strenght (N/mm2)	A Elongation (%)	HB Brinell hardness (HB)	
SHELL (as cast)	F	145-195	60-80	6-10	45-55	

Secondary Alloys

EN AC 47000					
Casting process	Temper designations	Rm Tensile strenght (N/mm2)	Sp 0,2 Yield strenght (N/mm2)	A Elongation (%)	HB Brinell hardness (HB)
SHELL (as cast)	F	175-215	100-130	2-5	60-75

EN AC 46100					
Casting process	Temper designations	Rm Tensile strenght (N/mm2)	Sp 0,2 Yield strenght (N/mm2)	A Elongation (%)	HB Brinell hardness (HB)
SHELL (as cast)	F	125-245	120-145	2-5	70-95

EN AC 46400						
Casting process	Temper designations	Rm Tensile strenght (N/mm2)	Sp 0,2 Yield strenght (N/mm2)	A Elongation (%)	HB Brinell hardness (HB)	
SHELL	F	215-235	135-155	3-4	70-80	
(as cast)	T6	295-315	245-255	2-3	105-130	

To consult all the technical specifications of aluminum alloys used by Fonderia Taroni, please visit www.fonderiataroni.com



UNIONE EUROPEA

Fondo europeo di sviluppo regionale

IS0109335

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FONDERIA TARONI SRL – INVESTIMENTI SOSTENIBILI 4.0

II programma d'investimento per il quale è stato richiesto ed ottenuto il sostegno finanziario tramite il contributo del PON Imprese e Competitività 2014-2020/React EU ASSE VI – Priorità di investimento 13I – Azione RA3,1, rappresenta un elemento fondamentale nell'ambito del piano strategico di sviluppo del Gruppo.

Gli investimenti realizzati tramite il sostegno finanziario dei PON durante il biennio 2022/2023 hanno l'obiettivo: di permettere un significativo incremento della capacità produttiva;

di permettere un significativo incremento della capacita produttiva;
 di perseguire un modello di integrazione verticale produttiva attraverso la creazione di un nuovo reparto dedito alle lavorazioni

meccaniche;

- di permettere un incremento della marginalità ottenuto tramite:
 - o un minor costo delle lavorazioni meccaniche, ad oggi esternalizzate;
 - un minor costo delle attività logistiche riferite alla movimentazione del materiale.

In generale tutti gli investimenti realizzati hanno un duplice obbiettivo, da una parte quello di accrescere la competitività sui mercati dove attualmente la società del Gruppo opera e, dall'altra, di poter approcciare nuovi settori che possano garantire, per il futuro, sbocchi in nuove fasce di impiego e di utilizzo."

ASSE VI - Priorità di investimento 13i - Azione RA3.1

"Finanziato nell'ambito della risposta dell'Unione alla pandemia di COVID-19"





Ministero delle Imprese e del Made in Italy