

SAND CASTING

DESIGN

OVER
50
YEARS OF EXPERIENCE



**DESIGN,
MANUFACTURING
AND TESTING**

**PROCESS
SIMULATION**

**A RELIABLE
PARTNER**

**CO-DESIGN
WITH CUSTOMER
ENGINEERING**

ON BOARD WITH US

If you are looking for:
Gravity precision sand casting
aluminium and magnesium alloys
A reliable and experienced partner
Design capabilities
A solutions provider
International team support

THEY'VE ALREADY CHOSEN US

General Electric
Alenia
Pratt&Whitney
Eurojet
Hispano Suiza

Agusta
Alstom
Eurocopter
Techspace

Avio Aero 
A GE Aviation Business

DESIGN

SAND CASTING /
ADDITIVE MANUFACTURING

MANUFACTURING

ASSEMBLY

TESTING

DELIVERY

MRO & CRO

YOUR
TECHNOLOGY
PARTNER

SAND CASTING

TAKE A LOOK AT WHAT WE CAN DO

ALL AROUND DESIGN

- ✔ Co-design with customer engineering
- ✔ Process simulation
- ✔ Optimization of gating and feeding system
- ✔ Metallurgical defect prediction and real time defect resolution
- ✔ Tool concept definition, design and construction
- ✔ UG and CATIA5 3D software
- ✔ Fast sample production with rapid prototyping technology
- ✔ Metallurgical and dimensional validation in accordance with customer specifications

BEHIND THE PRODUCTION PROCESS

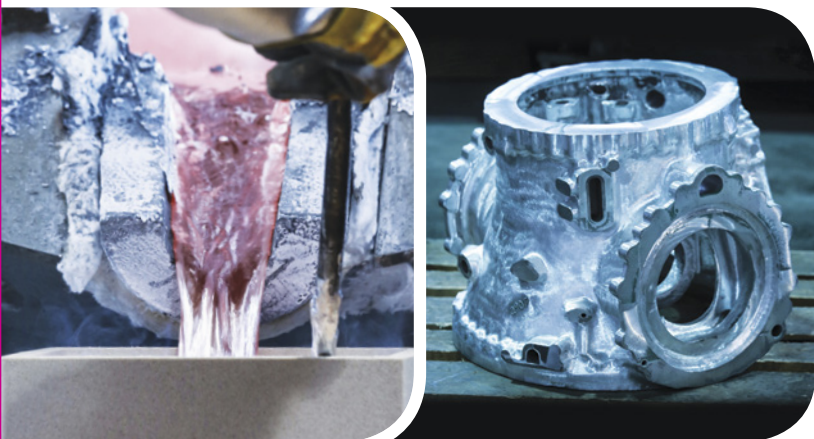
- ✔ Gravity precision sand casting: aluminium and magnesium alloys
- ✔ Low turbulence casting: large and complex aluminium alloys castings with high quality requirements
- ✔ Differential pressure sand casting: complex castings in highly reactive magnesium alloys
- ✔ Moulding equipment for self-hardening sand moulds (Al/Mg)
- ✔ Blow machines for cores production (5 to 65lt)
- ✔ Melting furnace (Al/Mg)
- ✔ Stand by furnaces for aluminium casting
- ✔ Electrical ladle
- ✔ Shot blasting shake out machine
- ✔ Thermal shake out oven
- ✔ Heat treatment furnaces

Aluminium: A357 Be free (Fe<0,1%); A357; A356; C355
Magnesium: RZ5; QE22; WE43; Elektron 21

DID YOU KNOW?

Our plant in Borgaretto - Beinasco (Turin) in Italy, a few kilometers from our Headquarters and machining plant in Rivalta, is equipped to offer the technology and capabilities to design and produce a wide quantity of premium aluminium and magnesium castings of different sizes for the aerospace and high performance transport vehicle industries. From the turbofan GEnx for B787 and 747-8 to the powerful turboprop TP400 in aluminium and magnesium. Concurrent engineering, co-design, process simulation, years of experience, high quality and delivery on time is what we offer. Our technologies and ability to work with you as a perfect partner will leave you fully satisfied.

YEARS EXPERIENCE



OUR CASTINGS

TP400 POWER GEARBOX	T700 ADT GEARBOX	PW800 ADT GEARBOX
AS365 MAIN GEARBOX	EUROFIGHTER AMAD GEARBOX	PW1100 MAIN GEARBOX
LM6000 ADT GEARBOX	TRENT900 ADT GEARBOX	PW1500 MAIN GEARBOX
EC 175 MAIN GEARBOX	SaM146 ADT GEARBOX	HYDRAULIC SYSTEMS OIL SYSTEMS
CF6 ADT GEARBOX	LM2500 ADT GEARBOX	EJ200 MAIN GEARBOX
BR 710 GEARBOX	V2500 ADT GEARBOX	
GEnx 2B ADT GEARBOX	PW4000 ADT GEARBOX	

• Design Responsibility • Casting

CONNECT WITH US

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OUR SAND CASTING
PLANT
IS LOCATED IN:

BORGARETTO/BEINASCIO (ITALY)
25,000 Sqm specialised in Sand Casting