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LOBART

E.G.S. LobArt *s.r.l.*



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COMPANY

EGS LobArt merges **innovazion and tradition** to offer quality products and services within Automotive.

Giacomo and Stefano Lo Bartolo have taken the best out of more than thirty years of experience gained by their father Giovanni. They have converted it into a new business, capable to grant excellence standards, always focused on customer's needs and ready to meet new challenges in engineering and production fields.

E.G.S. LobArt is **specialised in serial production of carbon fiber components** and works glass fiber, polyester and Kevlar as well **for top customers within the Automotive area.**

Distinguishing features are:

- **particular care in laminating carbon look** components, even with complex shapes
- **25000 meters of carbon look** aesthetic lamination worked in three years
- **ability to cope with a serial production**, e.g. G-CLASS 6x6 and 4x42 (5000 parts/year)
- joint development of concept and realization, in order to optimize the various phases in terms of time and costs and allowing the customer to follow the evolution of the project dealing with **single reference person from design to product**
- **guaranteed delivery terms** with the **agreed quality.**

The company is **organized into two production sites** covering more than 2300 square metres, thus ensuring **continuity of production in every possible situation.**

Strategically located in the two main Italian automotive districts, the "Motor Valley" between Bologna and Modena and the historic Turin hub, E.G.S. LobArt benefits from high quality synergies within the surrounding companies.

Our staff is composed by a **team of technicians, skilled workers** and key figures who have gained experience in major companies within the composites field and **who enjoy constant professional updating.**





The attention paid to each detail, in every business aspect, allowed E.G.S. LobArt to obtain the **TUV ISO 9001** certifications after only two years.

DESIGN AND ENGINEERING

Our technical office supports the client and the production area for project management

PAINTING

In cooperation with selected paint-shop partners; glossy or matt finishing depending on the requests of the order

2 PRODUCTION SITES

Employing skilled staff in composite manufacturing, offers a back-up solution within the company

QUALITY CHECK

Inspection of raw and painted parts complying to ISO 9001 quality standards. Packaging and delivery of the product are the final phase of the service

PRODUCTION AREA

Over 2300 square meters organized in dedicated areas to meet the specific needs of the production cycle

MOTORSPORT

R&D department constantly gains experience from racing with the LOBART LA01. This know-how is transferred into the design of components for the automotive serial production

MISSION

Our mission is to guarantee a **tailor-made product** through a **flexible production cycle** to meet customer's requests, thanks to **high quality and managerial standards** achieved in many years of business.

OUR VALUABLE FEATURES :

- Quick feedback
- Industrialization of hand-made processes
- Reliability in project's development
- Dynamism and professionalism of the company
- Long standing experience

TECHNICAL OFFICE

From concept to production, we are able to quickly provide **detailed and professional evaluations** for each design phase:



Development and CAD design of the component from style surfaces



Weight and costs reduction studies



Engineering and production development of components for prototype / show cars



Lay-out study and lamination ply-book realization



Engineering of models and moulds



Development of prototype and small productions

Starting from a styling CAD model we are able to derive the main typical sections to draft the first sketches of the components.

By implementing stylistic and technical inputs requested by the customer ("carry-over" elements, technical feedbacks, style solutions) we obtain the detailed design of each single part. This makes possible to estimate an assembly sequence and an evaluation of structural and construction costs.

Focused actions in the design allow to define the final parts; starting point for a potential "serial development".

In terms of production, the Technical Department supports the production cycle by defining cutting templates, ply-books and generating trimming and modeling CAD-CAM paths. The designers, with decades of experience, are specialized and qualified in the use of CAD and CAD-CAM software:

CATIA v5

Siemens NX

Autodesk POWERMILL

PRODUCTION AREA

Two modern facilities, organized according to the needs of the production cycle, **with the aim of improving the efficiency of working time.**

Each site is characterized by tidy working areas dedicated to each phase of production, including:

COLD ROOM

Storage of pre-preg materials, **computerized** with **temperatures records** and operating temperature max. -25°C

CLEAN ROOMS

Over **400 square meters** completely **air-conditioned**, incorporating **cutting plotter**, **vacuum lines** and **dedicated bagging area**



ASSEMBLY WORKSHOP

160sqm where an equipped **mechanical workshop** and **skilled fitters** can implement the **assembly** and / or **pre-fixing** process of the produced **components**

BONDING AREA

This dedicated area, isolated from powders, is used for both **structural** and **aesthetic bonding**, with **gluing masks** and **catalyzing in oven**



AUTOCLAVES

2 Maroso autoclaves with payload diameter **2.5m x 5.5m** with **temperatures** and operating **pressures records**



5 AXIS MACHINING CENTER

BELOTTI TRIM 4022 for **trimming** components in **vacuum-tight masks**. The large working area allows the **machining of more components** at once and the power allows the **milling** of foams, resins and MDF.



RELEASING AREA

Dedicate area where moulds are released using water- and solvent based agents **by using «pressure pot»**. Incorporating a **CORAL aspiration system**.

TRIMMING AREA

Area dedicated to **manual trimming and finishing**. Incorporating **CORAL aspiration system** with **two suction workbenches** and **mobile powder extraction arm**.

MODELS AND MOULDS

Models can be **milled** by different kind of resins or in **aluminum**.

Production of carbon moulds and **periodical maintenance** to preserve them and grant constant quality at each laminating.



MOTORSPORT

The RACING experience, achieved by designing and producing the LOBART LA01 car, stimulates a constant development of innovative techniques in the **production of carbon components**, light and structural parts **specifically designed for the Motorsport** sector.

This precious **know-how** is hence transferred in the production of components for the **serial automotive**.

Thanks to the know-how achieved within the Automotive and on the racing tracks, E.G.S.-LobArt's R&D department can offer technical consulting to reach weight and performance targets, increasing sport cars aerodynamic efficiency as well.

In five years the LOBART LA01, managed by non-professional teams, has reached **relevant results** both on track and in **hill climb** at a national and international level, by reaching the third place in European hill climb racing and winning two **Swiss championship**.

Conceived, designed and built entirely by E.G.S. LobArt, the LA01 stems from the idea of the two founders to launch on the market a car with the right balance between technology, performances and high safety standards.

The LOBART LA01 is a racing car with technical features very similar to the ones of its LMP «major sisters», with **CARBON FIBER** and **ALUMINIUM HONEYCOMB MONOCOQUE**, a **CARBON FIBER ANTICRASH NOSE HOMOLOGATED CN2/CN4**; a **light** monocoque that is **crash** and **torsional resistant**, capable of supporting 2000cc engines (CN2) up to the powerful unrestrained 3000cc (E2B).

- **HEWLAND FTR-S** gearbox (6 SEQUENTIAL GEARS + REVERSE)
- **HEWLAND POWERFLOW** Differential.
- **Designed suspensions** that include **front and rear third element**

This **exclusive, innovative racing car** gives the opportunity to young as well as gentlemen drivers to approach the racing competitions **with moderate budget**.

Clients can count on a well-equipped workshop, skilled fitters and an **experienced technical office** **always ready to new developments and challenges**.