Bercella at a glance

Bercella is an Italian company founded in 1996 aimed to design and manufacture structures for advanced applications

We are mainly active in Aviation, Defense, Space and Automotive
Where we are

3 plants located in Parma, Italy, and more than 60 employees for a variety of technologies:

Engineering, Composites, Machining, Painting, Assembly
A growing annual turnover with more than 25 valued customers from 8 different countries.
Certifications

UNI EN ISO9001:2008
EN 9100:2009
EASA PART 21 (In progress)
Project Management: from design to manufacturing

Over the last years, we have successfully managed many multi-million projects with tens of suppliers in various fields of activity.

We supply a 360° service from early design to mass production.
Engineering Services

We apply a winning multidisciplinary approach to complex projects combining experienced CAD capabilities with the most advanced knowledge of FEM and CFD analysis

A complete support: from design to finished components
Our 15 years of success in components and tools design is based on solid and surface CAD modeling and on the most advanced software as CATIA V5 CPD, Solid Works and Cimatron.
Engineering Services: FEM Simulations

Enter the new millennium with a complete suite of Simulation Software and Tools to investigate the performance of your components through FEM, CFD, Electromagnetic and other numerical analysis.
Engineering Services: Material Testing Laboratory

We evaluate and select the correct material only after performing mechanical, chemical and physical investigations at our Laboratory.

Besides, we use our lab to test incoming materials as well as prototypes or real components.
Engineering Services: Technology development

Every project needs a specific production process
That’s why we develop tailored solutions for all the pieces we design or produce
Engineering Services: Process Simulations

Forget about time consuming trials that waste time and money!
We use many technologies to simulate the production cycles of your components
Manufacturing Overview

Take advantage from a trusted supplier for a vertically-integrated production:

we will manage the subcontractors, so you can focus on your business
Our main activity is related to composites structures and components

Plenty of technologies to serve as many applications

We are specialized in Prepreg/Autoclave, and we also have experience with other techniques such as Filament Winding, Infusion, RTM and Compression Molding
Composites: Facilities

We manage the whole manufacturing process in house thanks to our large autoclaves and CNCs!

All the plies and the parts are machined via CNC to ensure the best precision and repeatability

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We rely on NDI techniques like Radiography, Tap Test, Thermography, Ultrasounds and Tomography to guarantee the quality of the structures we produce.
One of the latest technology we have developed, focused on the production of massive components for Defense application, is Filament Winding

We're able to wind components up to 8.000mm long and 1.650mm wide
Thought to be one of the most important technologies of the near future, Press moulding enables us to enter mass production markets such as Automotive and Commercial Aviation.
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Machining

We machine in house many materials as: Aluminum, Epoxy boards, CFRP, GFRP, Steel and Mild steel

For special materials or operations we have close partnerships with verified suppliers
3D Printing

**Plastics:** ABS, Epoxy, Nylon, Glass reinforced Nylon, Carbon reinforced Nylon

**Metals:** Aluminum, Titanium, Stainless steel, Cobalt chrome, Inconel
Aerospace and Defense more than any other require for special coatings to be applied before delivery, namely Painting, Flam Sprays, Aesthetic Film Foiling, Kapton, Tedlar, and many more.
Successful applications

20 years providing excellence in our applications
Aviation

We design and produce structures, interiors, and engine parts for some of the most prestigious Aviation companies
Space is probably the segment with the fastest growing rate.

We've been proudly involved in major ESA programs such as: AGILE, ROSETTA and EOMARS 2020 for the supply of Solar Panels and Drillboxes.
Defense

Air, ground, sea, subsea: harsh environments don't scare us!

We supply structures for Helicopters, Airplanes, UAVs, Ships, Missiles and Torpedoes
For the last 5 years, UAVs have represented a constantly growing market.

We contribute to programs for unmanned airplanes, helicopters/multicopters, ground vehicles and submarines.
Radar Systems

We actively design and manufacture Radar components such as Radomes, Antennas, Reflectors and Shelters for Defense and Civil purposes
Our innovation has been rewarded through one European Calls for Proposals and Tenders and some other local ones
Future development

We want to stay at the top of composites technology that’s why we’re continuously investing in Automated Layup, Thermoplastic Welding, Inspection on-the-fly, Out-of-autoclave, and other important innovative researches.
Future development

We want to continue our growth in Aviation, Space and Defense

Our deep knowledge of composites industrialization is the key to achieve lower costs and higher quality
Quality, Precision, On time.
Contact us:

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