

Established	2005
Employees	Approx. 420
Site	Kracanska cesta 51, 929 01 Dunajska Streda
Markets	<ul style="list-style-type: none"> • Automotive <ul style="list-style-type: none"> • Structural • Semi Structural • Carbon look cosmetic • Painted body panels • Aerospace <ul style="list-style-type: none"> • Aerostructures • Interiors • Seating

Company overview

C2i engineers and manufactures carbon-fibre components for automotive and aerospace clients such as Porsche, BMW, AUDI, JaguarLandRover, Bentley, Koenigsegg and various aerospace super Tier 1s. Examples of products are automotive monocoques, carbon-look interior parts, structural parts or aerospace interiors used by Airbus.

Capabilities

- Design, engineering & virtual simulation
- In-house tooling design and manufacture
- Component production incl. painting and assembly, integrating metal, plastics and wiring harnesses

Mission

c2i's mission is to light-weight your world through intelligently engineered carbon-fibre structures for next-generation cars and aircrafts. We enable product performance otherwise impossible to achieve as well as help reducing environmental footprint.

Leadership

c2i was founded in 2005 by Patrick Hessel, finalist in the Cambridge University Business Plan competition. c2i's management includes professionals from composites, automotive and aerospace industries, with professional history from world's most prestigious companies (BAE Systems, Strata, and McLaren Composites).



C2i state of the art facility in Dunajska Streda

Vision

To play a major part of the disruptive change in the automotive industry in the coming 15 years, where hybrid, then electric vehicles will largely replace conventional vehicles, c2i is developing novel production technology and engineering design approaches with the aim to radically reduce cost of production while adding additional, intelligent benefits. At the heart of the development is an R&D philosophy which systematically tackles the major cost drivers of current technology, taking a holistic, supply chain perspective with focus on intelligent design, novel materials and a high degree of automation. With novel approach, c2i aims to contribute to the early vehicle design, through a detailed component design and replacing conventional metal design thinking with an intelligent 21st century mixed materials approach.

Technology

- **Autoclave / PREPREG:** standard in civil aircraft, Formula 1 and best suited for carbon-look cosmetic parts, yielding the lightest possible components with best visual fibre alignment.
- **(HP)RTM:** used for higher-volume automotive applications with cycle times far below one hour.
- **Prepreg press moulding:** used for higher-volume automotive and aerospace applications and where a tooled surface finish is required from both component sides, with cycle times in minutes.
- **Bladder inflation moulding:** for the production of hollow, monolithic structures, prepreg is laid-up in separate tool pieces, bladder is placed inside, the tool is closed and the bladder is inflated during curing.

Equipment

- 7 5 axis milling machines (up to 6 x 3 x 1,5 m)
- 2 3 axis milling machines
- 4 Autoclaves (Incl. 6 x 3 m and 5 x 2.5m Boeing spec D6-49327 REV.E)
- 3 Cutters (Bullmer & Lectra)
- 4 Presses (120t – 800t)
- 1 RTM Injection machine (Tartler 30 Bar)
- 1 Painting line with 5 cabins (Carbon-look clear coating)
- 1 Painting line with 4 cabins (Colour paint)
- 1 3D measuring machine (Carl Zeiss: 3 x 2,5 x 1,6m)
- 1 3D scanner (Steinbichler Comet)