

Cato Composite Innovations

Development and mass production of lightweight thermoplastic composite parts and components

Cato Composite Innovations BV is a company focusing on the development and manufacturing of thermoplastic composite components and parts. Cato provides large series of lightweight products for aircraft interior, personal ballistic protection, high-speed machines, consumer electronics, luggage and sporting goods. For series varying from 1,000 to 1,000,000 products/year, Cato provides a development and manufacturing solution for monolithic, forged, sandwich and hybrid parts all made from thermoplastic composite materials. Specifically, Cato has expertise and facilities for

making hybrid components from endless fibre reinforced thermoplastic composites and injection moulded materials. With over 20 years of experience in thermoplastic composites, Cato uses application-optimized materials, starting from < 5 EUR/kg. With in-house engineering capabilities, 7 production presses as well as 12 injection moulding lines, Cato is one of the best equipped companies focusing on the development and manufacturing of thermoplastic composite components worldwide.

Cato's markets and applications



Cato's unique offering and expertise

- ❑ Specific know-how on (anti-ballistic) helmets
- ❑ Luggage from ultra lightweight composites
- ❑ Hybrid components from thermoplastic composite and injection moulding
- ❑ Thermoplastic composite inserts for strategic injection moulding partners for hybrid moulding in consumer electronics and automotive
- ❑ Sandwich constructions from thermoplastic composite, foams and honeycombs
- ❑ Aerospace Interior components
- ❑ Protective clothing combining composite and foams
- ❑ Thermoplastic composite components with superior surface quality
- ❑ Thermoplastic composites in footwear applications



(Anti-ballistic) helmets



Hybrid components



Inserts with superior surface quality



Ultra lightweight and biobased composites



Sandwich constructions



Cato's competences and resources

State of the art understanding of thermoplastic composite material systems	Product development	Integrated mass production technologies for thermoplastic composites	People and operational skills
<ul style="list-style-type: none"> □ Fibres: carbon, glass, aramid, bio- and polymer fibres □ Resins: PP, PA, TPU, PC, PPS, PEI, bio-based resins □ Customized material lay-ups 	<ul style="list-style-type: none"> □ Monolithic, hybrid, sandwich and forged components □ Component FEA, process simulation and tool design □ Prototyping & qualification 	<ul style="list-style-type: none"> □ Lean engineered processes along value chain for optimised cost □ Thermoforming up to 1,25 x 0,80 m □ Injection moulding up to 500 tons □ 5 axis trimming □ Component assembly 	<ul style="list-style-type: none"> □ Tool design and manufacturing □ Commercialisation acc. to stage & gate □ QA & QC acc. ISO 9001

Contacts

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