

AVANCO
composites

AVANCO COMPOSITES

INNOVATIVE COMPOSITE SOLUTIONS FROM A SINGLE SOURCE

EXTRAORDINARY COMPETENCE IN LIGHTWEIGHT

WHO WE ARE

The AVANCO Group is a globally leading company engaged in the development, manufacturing and refinement of technical products made of aluminum and fiber composite materials (carbon fiber and glass fiber). These particularly includes tubes and profiles, tubular and prismatic lightweight components. The entire value chain is focused on the development of technically high-end solutions and their industrial production.



INOMETA
Herford

DYNEXA
Laudenberg

XELIS
Bermatingen



THERMOPLASTIC TAPE WINDING

Innovative manufacturing has always been a part of AVANCO. Thermoplastic tape winding offers a high degree in process automation enabling high lot sizes. We are your development partner and contract manufacturer for wound CFRP and GFRP composite profiles made of thermoplastic UD tapes. As experts for part design, material selection and process design, we take your application from the idea to series production.



Innovations arise from the need to improve, a desire for advancement and the pursuit of perfection. Together we will drive developments and move you all the way to the front.



AUTOMOTIVE

Drive shafts and side shafts

- Series production in 5-digits
- Higher specific stiffness

Rotors and rotor cans

- Minimum cycle times
- Thin shell improves drive efficiency



AVIATION

Drive shafts and connector parts

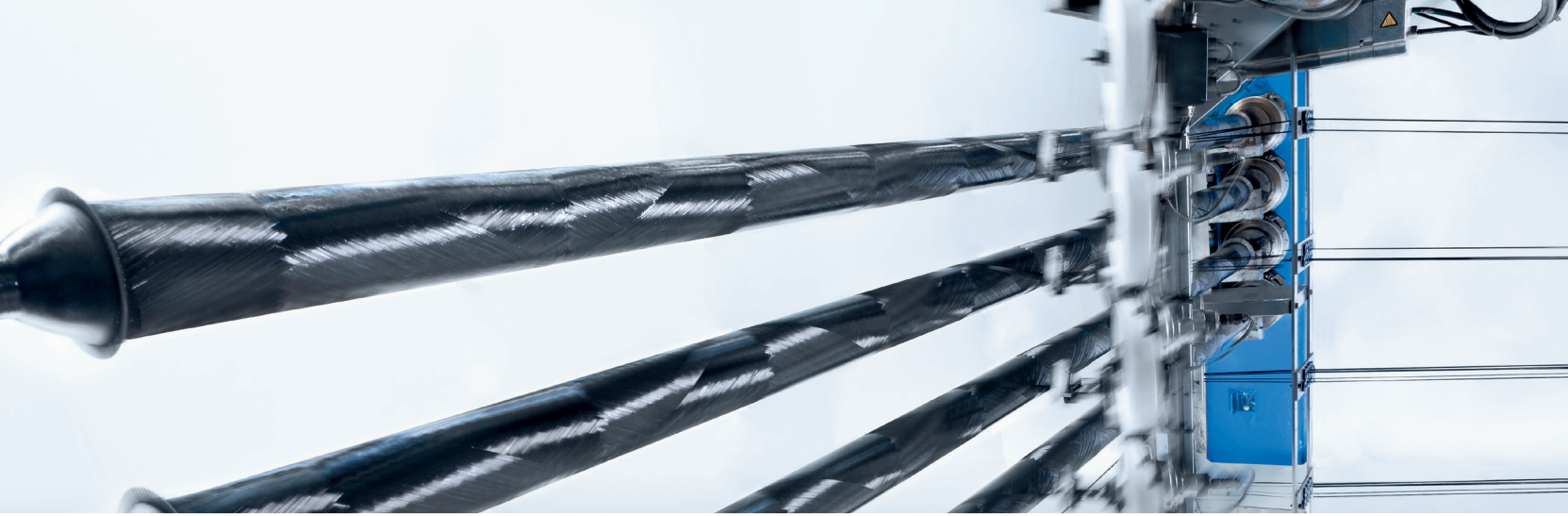
- Lightweight at high performance
- Metal/composite hybrid parts

Continuous profiles

- Complex shapes
- High consolidation quality
- Aircraft OEM approved

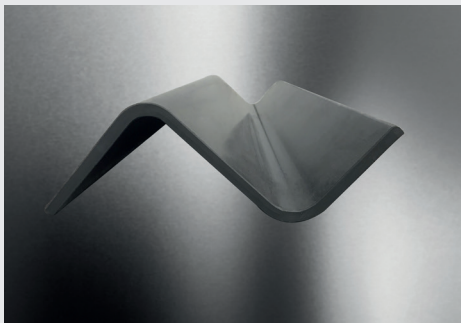
Tailored laminates

- Individual lay-ups
- Continuous processing



THERMOSET FILAMENT WINDING

We are producing more than just high-end composite tubulars. We are designing ready-to-install solutions, connecting composite and metal parts. As a lightweight composite expert, we focus on the sensible integration of the extraordinary material properties of composites for use in traditional and modern applications.



ENERGY

Pressure vessels

- One step process
- Material matching liner

Bearings and downhole products

- Good chemical and temperature resistance
- Advantageous abrasion behavior

Risers, casings and shafts

- Preventing corrosion
- Saving installation costs



INDUSTRY

Rollers and profiles

- Superior damping properties
- Metal/composite hybrids

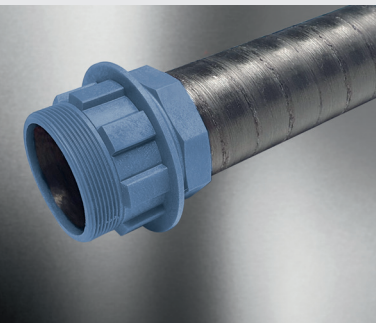
Functionalized tubes

- Material bonding/shapeability
- Process integration with short cycle times



CONTINUOUS COMPRESSION MOULDING (X-CCM®)

We have a long history in processing thermoplastic via X-CCM®. Post processing such as forming, quality assurance and machining is also part of the portfolio. As a built-to-print manufacturer, we are able to offer customized lightweight design solutions, which are adapted to our customer's special requirements.



MEDICAL TECHNOLOGY

Formed parts

- Implantable
- One shot forming



DEFENSE

Radomes

- Lightweight
- Protective/durable
- Preventing corrosion

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