





people. innovation. success.

- Parent company of INOMETA, DYNEXA and XELIS
- International player in
- Approx. 350 employees



Rollers & Tubes

Long lasting expertise in in development, manufacturing and finishing of technical lightweight products

Thermoplastic tape winding CFRP and GFRP parts made in laser-assisted tape winding

Surfaces

Surface treatment and coating of alloys and composites

Filament Winding

CFRP & GFRP component manufacturing and finishing for automotive, marine and industrial applications



_audenbach

Bermatinger

lertord Herford

X-CCM[®] Continuous Compression Moulding: Complex CFRP profiles made from thermoplastic UD-Tapes for aviation and industry applications



PRODUCT CATEGORIES

Process automization and accuracy

enable: "High Volume"



- e.g. Rotor Sleeves / Rotor Cans
- + automated manufacturing possible
- + minimum cycle times
- + fiber orientation along load paths
- + thin shell improves drive efficiency

Material properties on <u>application</u> level enable:

"Specialty Products"



e.g. Pipes / Bearings

- + good chem. and temp. resistance
- + advantageous abrasion behavior
- + highly uniform layup
- + high surface quality on inner diam.

Material properties on <u>part</u> level enable:

"Functionalization"



e.g. Hybrid IM / Thermoforming

- + material bonding
- + process integr. w/ short cycle times
- + fiber orientation along load paths
- + high volume production feasible



MANUFACTURING CAPABILITIES

- Fully Automated manufacturing of thin shells (≥ 0,2 mm wall thickness) feasible
- Process technology suitable for large-scale production →high volumes over 100,000 pcs. p.a.
- Flexible system technology for components from
 2 to 4,400 mm in length and 10 to 400 mm in diameter
- Wide range of materials processible (PP, PA, PPS, PEEK, …)
- Long-time experience in surface coating and mechanical processing of composite materials



PROCESS INDUSTRIALIZATION

- Integration of preheating and stripping into production cell, automated cutting of thin-walled parts possible
- Two winding axes enable continuous component manufacturing processes
- Continuous recording of quality-relevant process
 parameters, data-based component analysis based on customer-specific acceptance criteria
- Compilation of component-specific reports (layer
 structure, production order number, temperature limits, tape batch, ...)



INOMETA THERMOPLASTICS

Link between technological offer and industrial user...

Component and process design

Prototype

Consulting

Part design

Feasibility study

- Production concept Test sample
- System integration Small series
 - Automation manufacturing
- ... from idea to serial production
- Contract
 - Mechanical processing
 - Coating





- Materials
- Economic efficiency

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Serial

production

Processing Post-



