CirComp
Competence in Composites

ALBANY
Engineered Composites

CirComp a subsidiary of Albany Engineered Composites

www.circomp.de

November 2022

www.albint.com | AIN | #albint

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Company History and Growth

ALBANY
Engineered Composites

1996
Foundation of COMAT

Spin-off out of IVW

2002
Moving in new building
IG-Nord Kaiserslautern

2005
Winner of AVK
Innovation Award

2009
Foundation of
CirComp GmbH

2012
Foundation of
ProfileComp GmbH

2015
EN 9100
Certification

2016
Innovation Award
SUCCESS for AirStrut®
"Lead through
innovation"

2017
Expansion from 2.000m² to
5.000m² to double
filament winding capacity
and new QA Laboratory

2018
NADCAP Certification

Nadcap

2019
Expansion from 5.000m² to
5.500m² to build clean room
and separate MRO

Join Forces with Albany

ALBANY
Engineered Composites

FUTURE

AEC Global Footprint

ALBANY Engineered Composites

Employees: ~1.410 | Locations: 11 facilities in 4 countries | Revenue 2021 $310K | Capacity: ~140.000 m² floor space

Salt Lake City, UT (USA)
- 2 Production Facilities
- 620k ft2 / 58,000 m2
- Airbus qualified

Boerne, TX (USA)
- 150k ft2 / 14,000 m2

Querétaro, Mexico
- 50k ft2 / 4645 m2

Rochester, NH Campus (USA)
- Headquarters; overall ~300k ft²
- Research, Tech & Dev Center (60k ft² / 5500 m²)
- Production Facilities

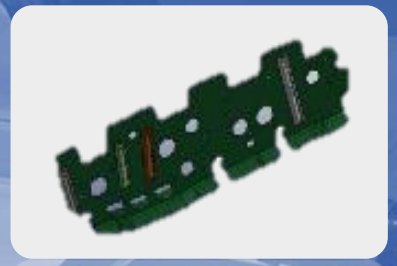
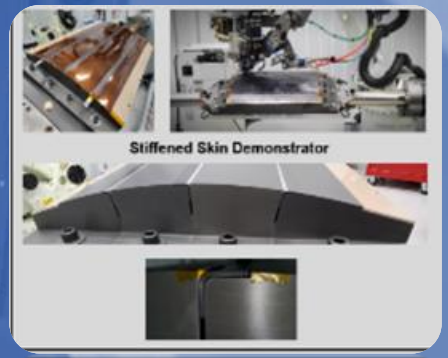
Joint Venture Production
- 514k ft2 / 48,000 m2
- Rochester, NH (USA)
- Commercy, France
- Querétaro, Mexico

CirComp GmbH
Kaiserslautern, Germany
- 2 Production Facilities
- 55k ft2 / 5100 m2

AEC Technology Focus

ALBANY Engineered Composites

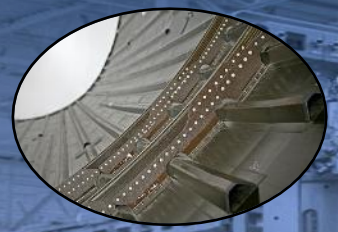
Advanced Material and Process Technology Innovations

	3D Composites	Intermediate Temp Materials (Polyimide)	High Temp Materials (CMC, Carbon/Carbon)	Enhanced Filament Winding	Thermoplastic Materials
Relative Advantages	✓ Thermal benefits ✓ Near net shape ✓ Part reductions ✓ Performance ✓ Proprietary tooling	✓ Improved life/durability ✓ Weight savings	✓ Thermal benefits ✓ Improved life/durability ✓ Weight savings	✓ Lower cost ✓ Performance ✓ Eliminate shelf-life concerns	✓ Damage tolerance ✓ Complex geometries ✓ Recyclability
Areas of Innovation	• New weaving systems • OOA resin infusion • Fast curing resins • Carbon-Carbon fibers • Bonding / co-curing	• Higher temperature autoclave processing • Compression molding	• Weaving delicate fibers (including 3D) • Slurry infusion process	• Processing increased length and diameter structure • Integral features	• In-situ consolidation • High speed / high tonnage presses • Over molding • Bonding / welding
Opportunities					

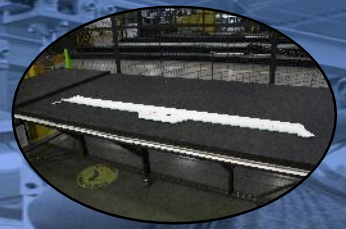
Product Portfolio

ALBANY Engineered Composites

Structures



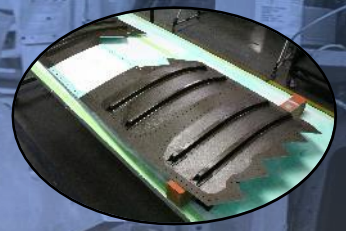
Frames / Stiffeners



Control Surfaces

Nacelles

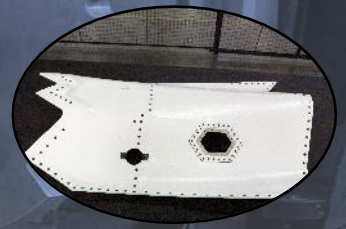
Ducts



Panels

Struts

Bulkheads



Bay Doors

Main Deck Struts

Assemblies

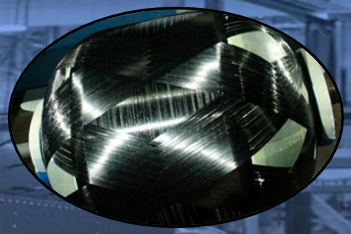
Wing / Wing Skins

Pylons

Waste Tanks

Stabilizers

Sponsons



Water Tanks

Empennage

Fuselage / Missile Body

Potable Water Tanks

Site View CirComp Competence in Composites / AEC Kaiserslautern

ALBANY Engineered Composites

Shop floor Filament Winding

8 Filament Winding Machines, 5 Curing Chambers

Shop floor Chipping Department

12 CNC Chipping Machines, Mills and Lathes

Current Aerospace Products Overview

ALBANY Engineered Composites

A350 Sub-Structure Struts

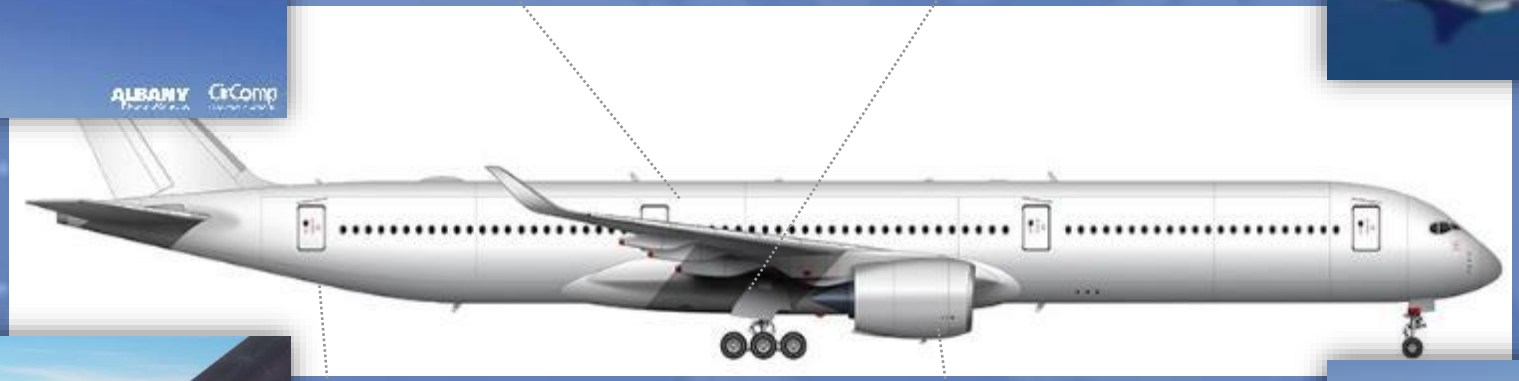
80.000 + delivered since 2007 into A380 program

A320 Hydraulic Accumulator

40.000 + delivered

Struts

Accumulators



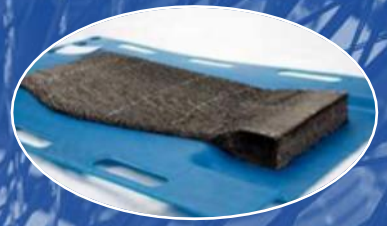
Door Shafts

Filter Elements

Weaving, Braiding, and Filament Winding

ALBANY Engineered Composites

2D and 3D Weaving



Tow Preg, Wet Winding

Complex Braiding

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ISO 9001:2015 | EN 9100:2018
NADCAP zertifiziert / certified
Mitglied in / Member of cu e.V., AVK, SAMPE & Kunststoffnetzwerk Rheinland-Pfalz
Geschäftsführer/ General Manager: Gregory Harwell
Registergericht Kaiserslautern HRB 30748

Thank You

Danke für Ihre Aufmerksamkeit