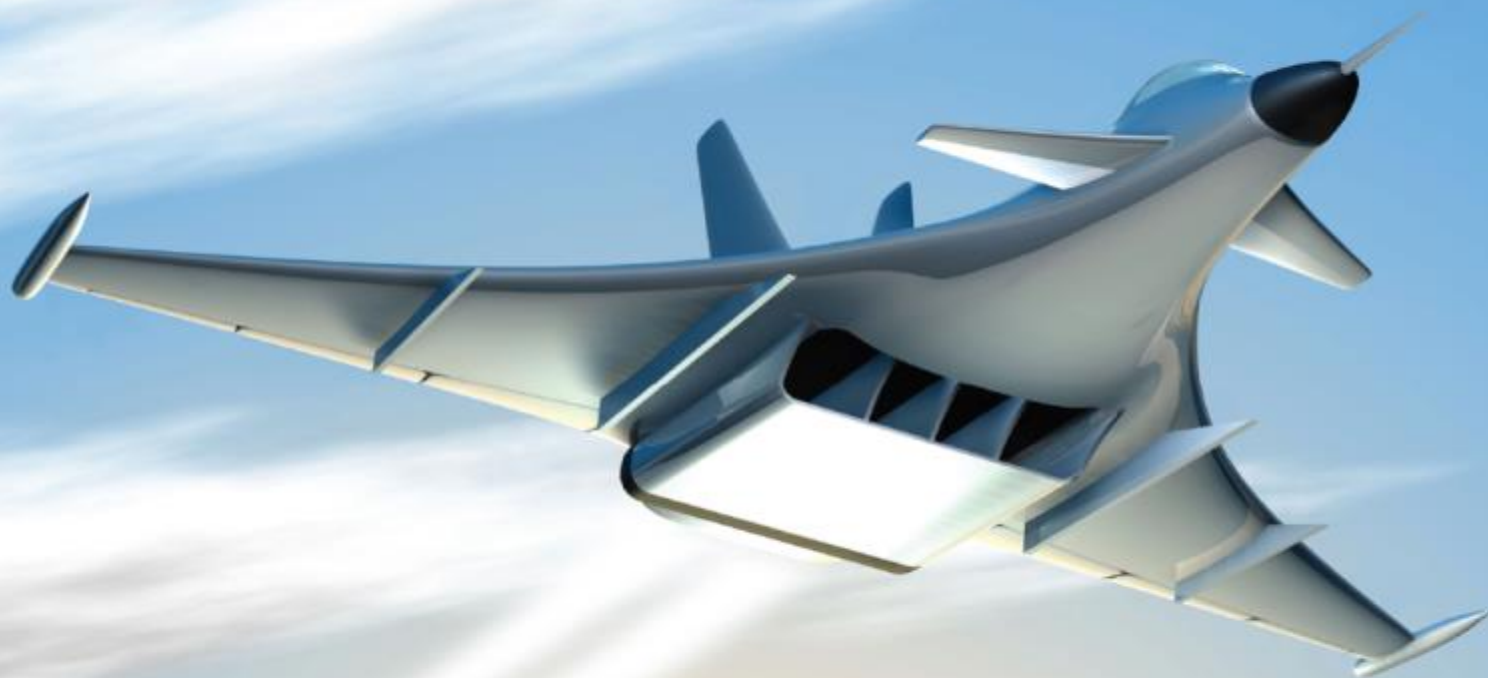




AERO CONSULTANTS AG

For Aerospace Composites





# **CavusCore**

# **Water Soluble Mandrels**

# **for high Volume Productions**

**Lukas Atz**  
Product Manager



### Innovative Production Process





## Complex Core Design



### + COMPLEXITY

Complex geometry and cost-efficient core manufacturing process for low volume (RPT). Well established core shot process for mass production

### + SUSTAINABLE

Our braiding cores are made out of water-soluble and environmentally friendly raw material



### 100% Automated Performing



#### **+ EFFICIENCY**

Near shape coverage of the core material in an automated braiding process ensures optimized material usage



### High Pressure Resistant Core



- + PRESSURE-RESISTENT**  
The core material withstands a pressure up to 200 bar / 2900 PSI. Suitable for high pressure RTM or other processes such as SMC
- + 1.5 – 2 min CYCLE TIME**  
Highly reactive PU resin system allows short cycle times at low mould temperatures in a fully automated injection process



### 100% Environmentally Friendly



**+ WATER SOLUBLE**

Non-toxic solving process without further energy requirements



## Hollow Lightweight Product



### + COMPETITIVE

Extrem lightweight potential by high integration from fully automated processes





### 98% Reusable Material





## Technology Demonstrator



**CFRP LIGHTWEIGHT PROFILE:  
HOLLOW – COMPLEX - STRUCTURAL**



## Competitive Technology for all Industries



### **SERIES PRODUCTION**

a fully automated process enables high-volume lightweight production



### **EXCELLENT LIGHTWEIGHT POTENTIAL**

for complex geometries



### **COMPETITIVE**

affordable lightweight solutions achieved through automation and economical processes



## Competitive Technology for all Industries



### NEARLY 100 %

of the used fibers can be utilized (carbon and glass fibers)



### EFFECTIVE USE OF MATERIALS

recycling of the basic core material possible



### SAFE, CONTROLLABLE AND FULLY AUTOMATED

processing with existing technologies



### EXTENDED PRODUCT PORTFOLIO

for new composite applications for all industries



# AERO CONSULTANTS AG

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## Aero Consultants

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## Your Partner in the Aerospace / Automotive Composites Industry



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