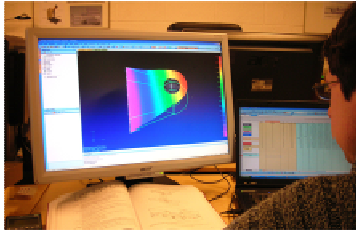


Coexpair Status & Activities

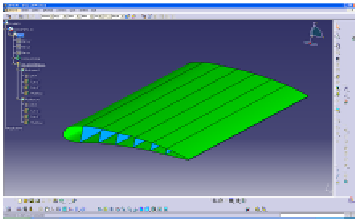
Design, analysis

- Catia V5, Femap/Nastran 9.3 & Samcef.



Material & process

- senior (20+ years) composite material experts.



Prototypes & Tests

- From coupon to full scale components

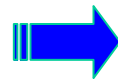


Tools

- design & fabrication of complex RTM & SQRTM tools

Equipment

- European supplier of Radius Equipment (presses, injection systems).



Technology transfer to our customers
(no serial production in our shop)



Coexpair Status & Activities

2007 – Start of activity with 3 engineers.
Shop & office installation

2008 – Size increased quickly (up to 8)
5 engineers + 2 research engineers
1 senior techno-administrative

2009 – Continuous Growth (12 people at work)
looking for 2 more engineers & 1 technician
Shop & office extension
New press 1.3x1.8 meter – 80KW

Strong internal R&D effort



Radius & Coexpair Focus on “Net-Shape” Aerospace Composites

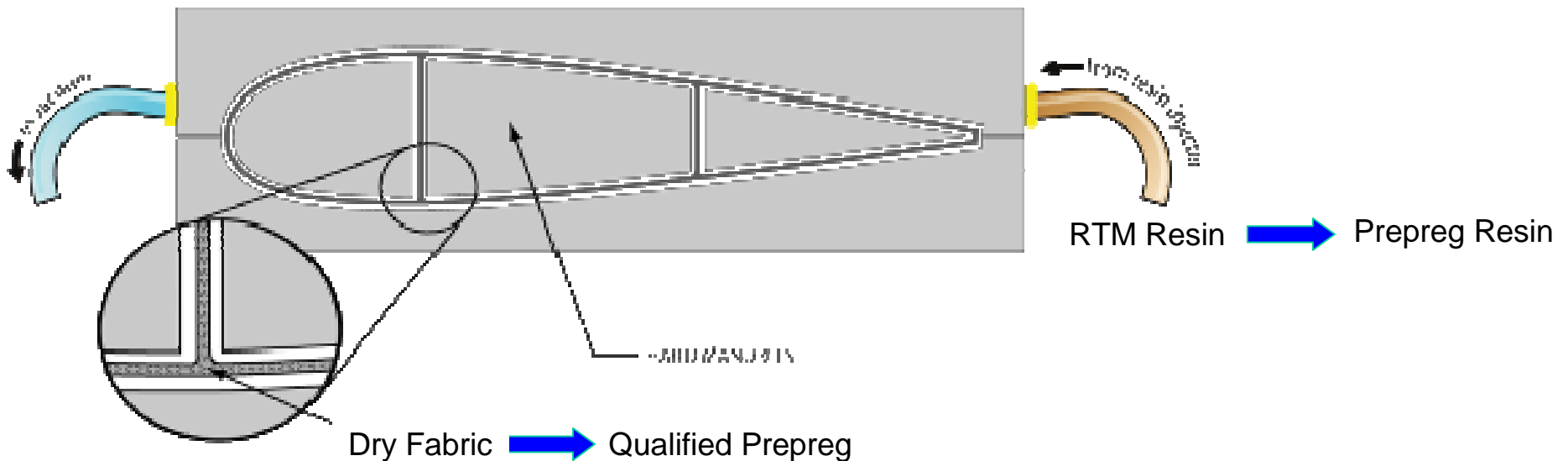
RTM uses dry fabric to make preform

- ⇒ Resin is injected (7-8 bars)
- ⇒ high vacuum on the tool



SQRTM allows use of program-specific prepreg

- ⇒ Hexply® 8552, Cycom® 977, Cycom® 5250-4 BMI, and Toray 3900-2 (BMS 8-276) = “Same Qualified”
- ⇒ Automated Tape Laying, Fiber placement
- ⇒ A small quantity of prepreg resin is injected
- ⇒ Autoclave cycle is reproduced or optimised



As Example: One-Piece SQRTM Wing Developed for Toyota Aviation 4-Seat All-Carbon Aircraft

- Customer required one-piece structure for production cost saving
 - Goal is high-rate production of aircraft
 - Skins, spars and ribs all integrated
- **Radius roles:**
 - Design, technology, tooling, first flying prototypes

