

## Composite Process Developments offered by AAC

The composite laboratory at AAC offers different state-of-the-art composite manufacturing processes like lay-up with vacuum bag, Liquid infusion with resin flow medium process, resin transfer molding (RTM), vacuum assisted resin transfer molding (VARTM), autoclave curing, warm press and filament winding.

In addition, AAC offer improvement or modification of resin systems to introduce further functions like wear resistance, electrical conductivity, low shrinkage, impact resistance, lower permeability, UV protection, transparency, higher surface protection, flame retardancy or anti-ice capability.

The following composite processing facilities are available at AAC

Composite processing facilities at AAC	
<b>Autoclave</b>	Autoclave Scholz, up to 300°C and 10 Bar, 1m length x 50cm diameter
<b>Injection system</b>	Tartler, up to 130°C, maximal pressure 60 bars, maximal injection rate 0.5L/min
<b>RTM mold</b>	Plastech solid mould, up to 180°C curing cycle, 40cm x 40cm
<b>Vacuum techniques</b>	Pumps, bags, SCRIMP, peel plies, breathers, breeders, release agents
<b>Warm press</b>	Saspol press up to 160 Tons, 40cm x 40cm
<b>Desktop Filament Winder</b>	X-Winder: 4-Axis Model 4X-23: max length: 2m, max. diameter 200 mm
<b>Powder preparation</b>	Wetting agent, surfactants, ball milling, ultra turrax, centrifuges

Your contact at AAC:

Mr. Zoltan SIMON  
 senior scientist  
 T +43 (0) 2622 90550-630  
 F +43 (0) 2622 90550-99  
[zoltan.simon@aac-research.at](mailto:zoltan.simon@aac-research.at)  
<http://www.aac-research.at>