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# Advanced Technologies Manufacturing : Advanced Composite (AFP, ATL, Autoclave/SQRTM)



## PROCESS DESCRIPTION

- Automated Plies draping →
- Prepreg assembly →
- Autoclave/SQRTM curing →
- 5 axis Milling →
- NDT inspection →
- Painting →
- Final assembly →

## CAPABILITIES



- 1 x 3D Multi Tape Head ATL (12m x 5,1m x 0,85m)
- 1 x 3D 16 x ¼" Tows AFP ( 6 to 9 m x 3,5 m x 1,5 m)
- 1 x Hot forming machine (8m x 1m)
- 2 x clean room of 800m<sup>2</sup> in total for Prepreg assembly
- 2 x autoclaves 9m x 3m and 4 m x 2m
- 2 SQRTM Press 8,5m x 1,5 m and 5 m x 1 m
- 1 x routing & milling machine (9mx4mx1,5m)
- 1 x NDT Robot (Ultra-Sonic Inspections)
- 1 x Painting booth for parts up to 6m long
- Manual or Automated Assembly

## PRODUCT IDENTIFICATION

- Elementary composite parts or assembled package based on monolithic CFRP Tape
- SQRTM

## QUALIFICATIONS

- NADCAP : all special processes (incl. composite, NDT and painting)
- EN 9100
- ISO 14001
- EASA Part 21G
- EASA Part 145

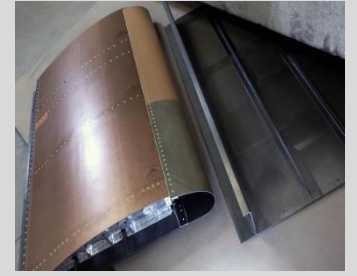
## DIFFERENTIATION

### Standard ATL/Autoclave parts

- Price attractiveness thanks to best in class ATL machine
- Fully integrated manufacturing line delivery high quality parts
- SONACA Group experience to support the industrialization of complex parts

### Complex integrated SQRTM parts

- Weight & cost optimization enabled by product redesign (by increasing part integration)
- Complete D&B Capabilities (incl. Certification)
- Proven track record in development, certification, and manufacturing of SQRTM product (E2 Flap)



**State-of-the-art composite technologies and processes to optimize weight and cost**