STRUCTURAL SOLUTIONS

OPTIMAL

"Creating Optimal Solutions'

Capacities & Past Experience

May 2019

Company Structure





Main Facility





8000 m² dedicated to engineering, tooling & production of composite components

Capacities & Past Experience

aerospace subsystems or equipments



(e.g. MGSEs)



Main Products and Services

Design, manufacturing and assembly of small and large structures for automotive and aerospace applications Composite and metallic components for automotive and Tools, jigs, automated lines and special equipments





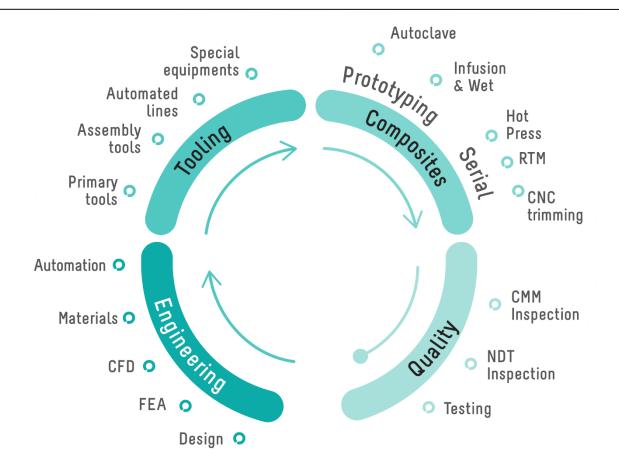
We Supply Worldwide





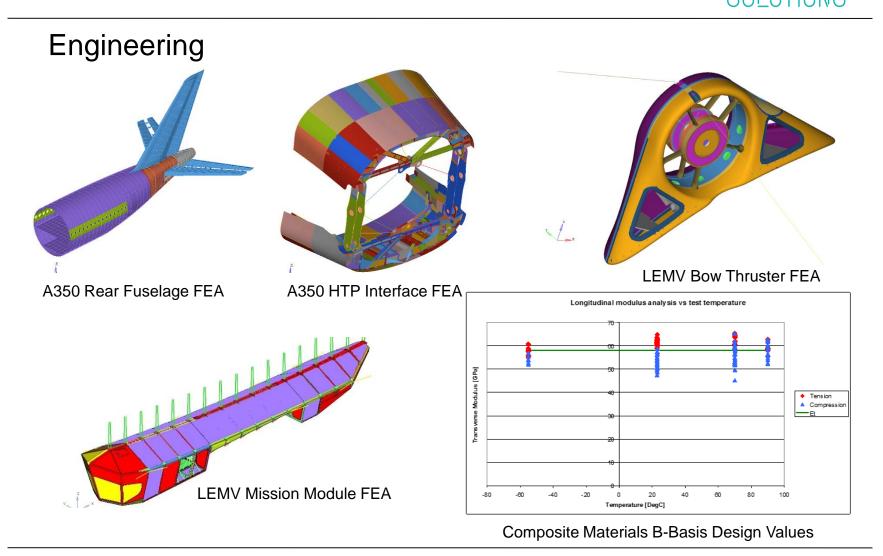
Capabilities





Integrated Solutions from Design till Manufacturing

Past Experience - Aeronautics



Past Experience - Aeronautics



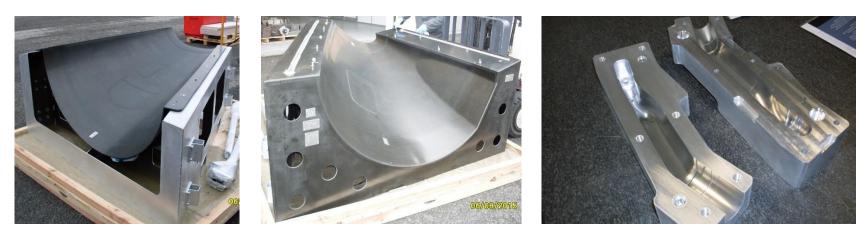
Tooling



Steel Lamination Tool



INVAR Lamination Tool



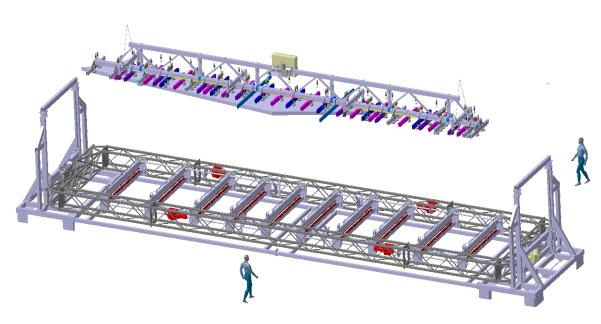
Carbon Lamination Tool

Aluminium Pouring/Ducts Moulds

Past Experience - Aeronautics



Special Equipments



Large automated equipment to rotate aircraft wing panels



Vacuum sling to move aircraft wing panels

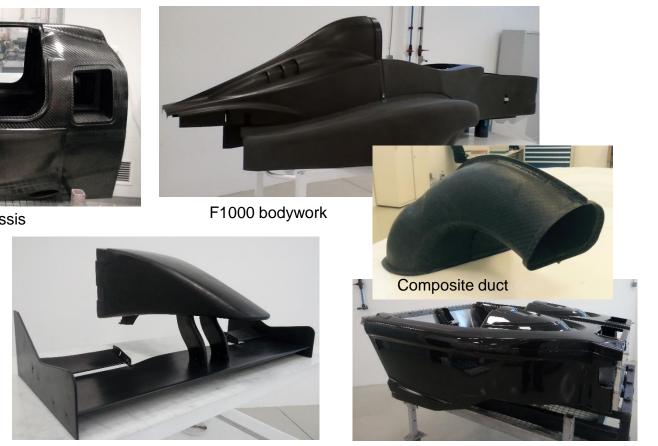
Past Experience - Automotive



Composite Material Components



LMP1 composite chassis



Floor

Front wing

Sportscar chassis

Capacities & Past Experience

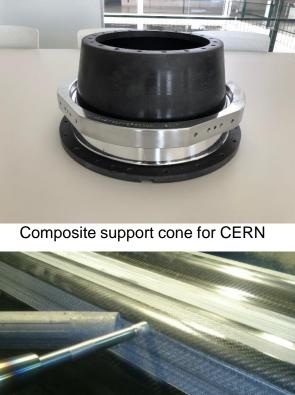
Past Experience - Others



Composite Material Components



Large infused component



CNC machining of composites



CFRP large antenna for Galileo ground segment

Interest in H2020-Space



- Novel applications of composites for space structures, mechanisms and devices,
- New inspection technologies for composite components,
- Advanced materials,
- New process and technologies to produce more integrated composite components.

OPTIMAL STRUCTURAL SOLUTIONS

Rua do Moinho Vermelho, 50 Sitio da Cruz da Popa 2645 - 449 Cascais Portugal

GPS: 38.726250, -9.412583

T: 00351 21 099 7788 F: 00351 21 099 7789 E-mail: info@optimal.pt

Web: www.optimal.pt