

Aero

Industrial partner to leading OEMs

Key projects



Airbus A220

Design to build. Fixed leading edge, over 2,000 components



- **Fixed leading edge** (Design to build)
- **Fully assembled and equipped structure ready for final wing assembly**
- **Combination of composite and metallic structure**
- **Over 2,000 components in each structure**
- **Leading edge length 17 m**

First prototype delivery in 2011
Serial production since 2014



Embraer C-390

Design to build. Production and assembly of **rear fuselage** and **cargo ramp, all doors, over 5,000 part numbers**



- **Fixed leading edge** (Design to build)
- **Rear fuselage** (Build to print)
- **Cargo ramp** (Build to print)
- **All doors** (Build to print)
- **Production of parts and subassemblies**

First prototype delivery in 2014
Serial production since 2016
Delivery to Embraer Brazil for final aircraft assembly



L 410 and L 410 NG

Design to build. Production of **nose** and **main landing gear, over 250 part numbers**



- **Nose and main landing gears** (Design to build)
- **UVP since 2005**
- **NG since 2020**
- **Full industrialization of assembly line**

Other experience



Leonardo C-27J Spartan

Build to print. Fully assembled and equipped center wing box assembly



Airbus A350 and A400M

Build to print. Water tank airframe installation parts (A350) + vertical tail plane rear fuselage fairings (A400M). Ram air inlets / Outlets assemblies (A400M)



Airbus A321 and A320

Design to build. Development, industrialization, and production of the A321/A320 Frame Shell Structure (FSS) and surrounding area in the passenger-to-freighter conversion program



Sikorsky S-76C/D

Build to print. Complete helicopter without engines and dynamic parts

COOPERATION CAPABILITIES

- Design and production of complex landing gears for aircraft with MTOW up to 8,000 kg
- Design, testing, and production of complex assemblies including prepreg composite parts
- Certification skills in compliance with EASA and military standards

RELIABLE PARTNER IN AVIATION

- Long-standing tradition in the aviation industry
- Cooperation with key partners and suppliers in aerostructures
- Strategic partnership with major manufacturers: Airbus, Boeing, Embraer, Leonardo, Lockheed Martin, SAAB

MANUFACTURING AND CERTIFICATION CAPABILITIES

- Development from design to serial production
- Testing and certification according to EASA CS-23
- Serial production and industrial cooperation since 2011



Engineering capabilities

DESIGN AND STRESS ENGINEERING

MATERIAL ENGINEERING

TOOLING PRODUCTION

PRODUCTION ENGINEERING

MECHANICAL AND CHEMICAL LABORATORIES

NON-DESTRUCTIVE INSPECTION

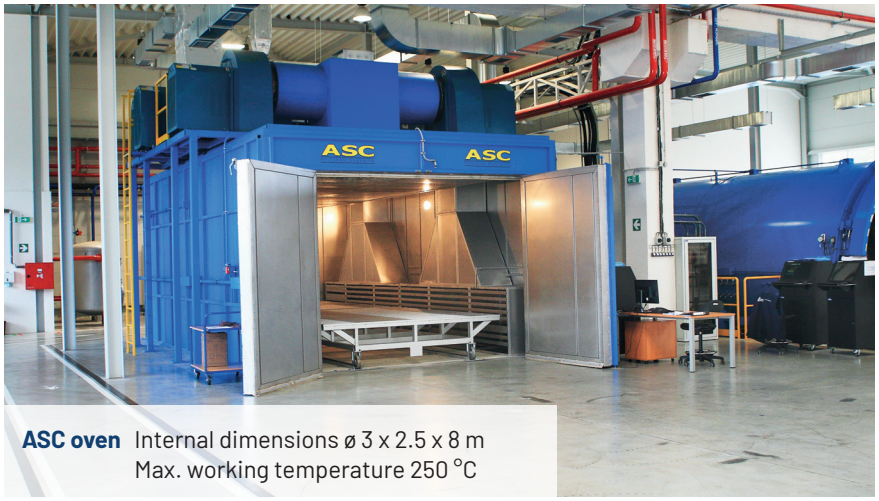
AERO Vodochody AEROSPACE a.s.
U Letiště 374, 250 70 Odolena Voda,
Czech Republic

www.aero.cz

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ASC autoclave Max. working pressure 11 bar
Max. working temperature 250 °C
Max. sizes of parts 3.5 x 8 m



ASC oven Internal dimensions ø 3 x 2.5 x 8 m
Max. working temperature 250 °C



COMPOSITES

- Manual prepreg laying
- Autoclave curing
- CNC machining
- Manual machining
- Structural bonding
- Surface treatment
- NDT testing
- Assemblies

CURRENT QUALIFIED PROCESSES

- Manual prepreg laying
- Autoclave or oven curing
- Structural adhesive bonding
- Painting

AUTOCLAVE CURING

Advantages of new ASC autoclave vs conventional:

- H-slots provide laminar flow in 100% of the work area
- No radial duct
- Lower costs and energy
- Smaller vessel
- Floor-mounted heater & cooling coil

