

Tooling for the Aviation Industry

MOULDS AND LAY UP TOOLS FOR COMPOSITE AEROSTRUCTURES

- Complex 3D shaped metal moulds & tooling structures of up to 25 x 6 x 5 meters (82 x 20 x 16 feet)
- Tooling for fuselages, wing & tail sections, nacelles, boosters, tanks, etc.
- Proven in-house process assuring high accuracy, vacuum tightness, excellent quality and on-time delivery
- References include all major aircraft programs like: **A350XWB, B787, B777, A330neo, A320neo, C series, MC21, F-35, Eurofighter, A400M, Ariane 6**, etc.
- Material: Steel, Stainless steel, INVAR, Aluminium
- Global logistics in place
- ISO 9001 certified

Your Benefits:

- 3D high precision forming of skinplates results in less machining and less costs
- 3D shaped skinplates are made from one segment (if possible) which reduces welding seams, and results in less potential risk of leakage

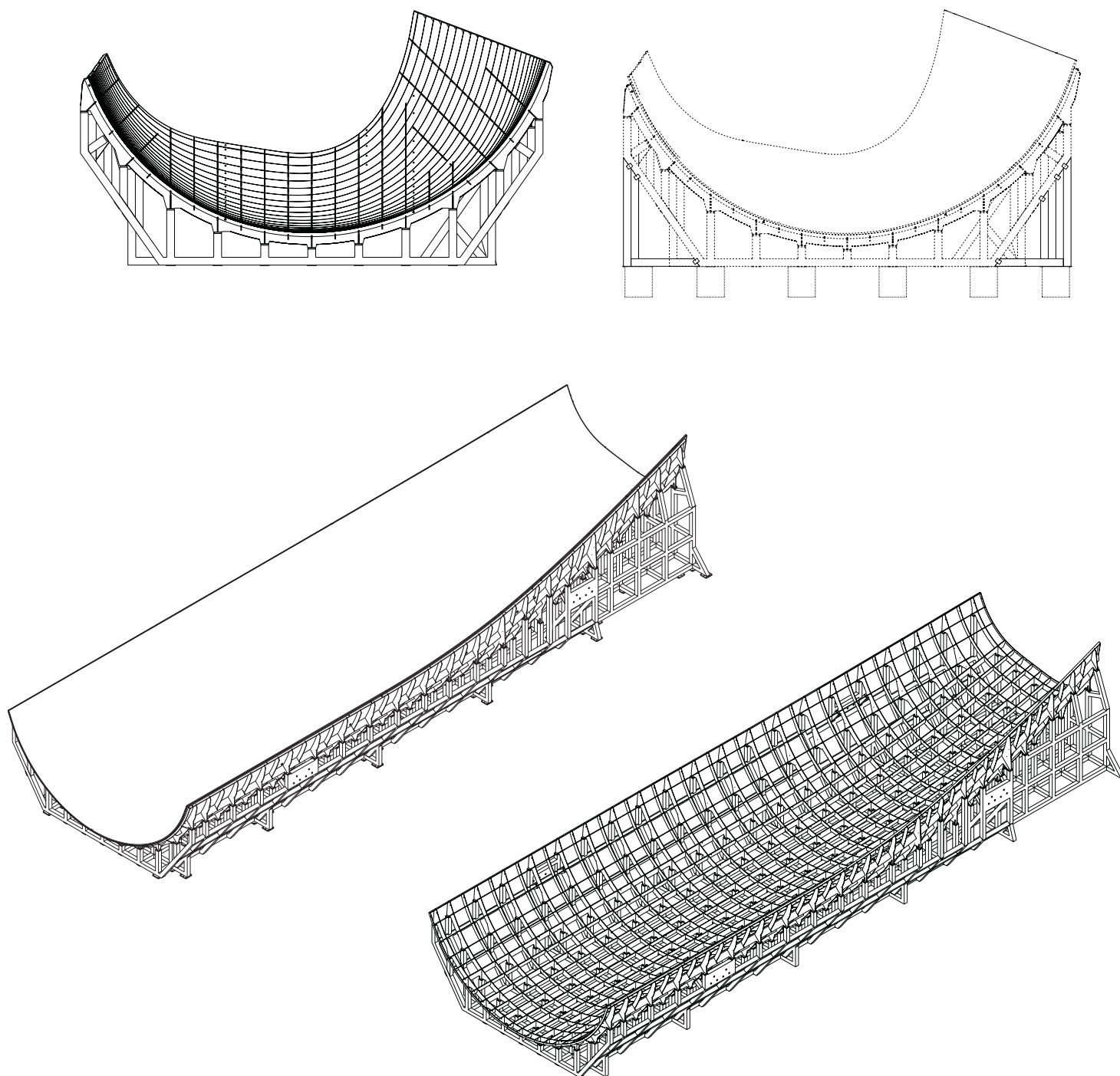


The company

Ostseestaal has built up an excellent reputation as partner for the supply of medium & large moulds, fiber placement mandrels and lay-up tools for the (composite) aerostructure industry.

We offer the entire production process, starting from the handling of the free form surfaces to the pre-cut and the 3D forming of the sheet metal plates right up to the assembly of the laminating and gluing devices and the subsequent stress relief heat treatment, from one source. All the production processes are inspected, analysed and documented by a continuous quality assurance, guaranteeing the highest quality standards.

As a specialist in 3D formed metal components, Ostseestaals core capabilities focus on the design & manufacturing of moulds and tooling systems. This includes the expansion of free form surfaces, material cutting, 3D sheet forming, welding and heat/surface treatment. 5-Axis machining, as well as design development and engineering support are done in close cooperation with our strategic partners. In-process quality control during fabrication, assembly and final inspection is ensured using laser tracker and helium leak test equipment.



Curing tool for A350-1000

Customer: Premium Aerotec
 Del. Parts: 6 (2SSL, 2SSR, 1LS, 1US)

Main properties

Length: 18.350 mm
 Width: 6.020 mm

Material: Ni36 (INVAR)
 Thickness: 5 - 20 mm