Aeronautics
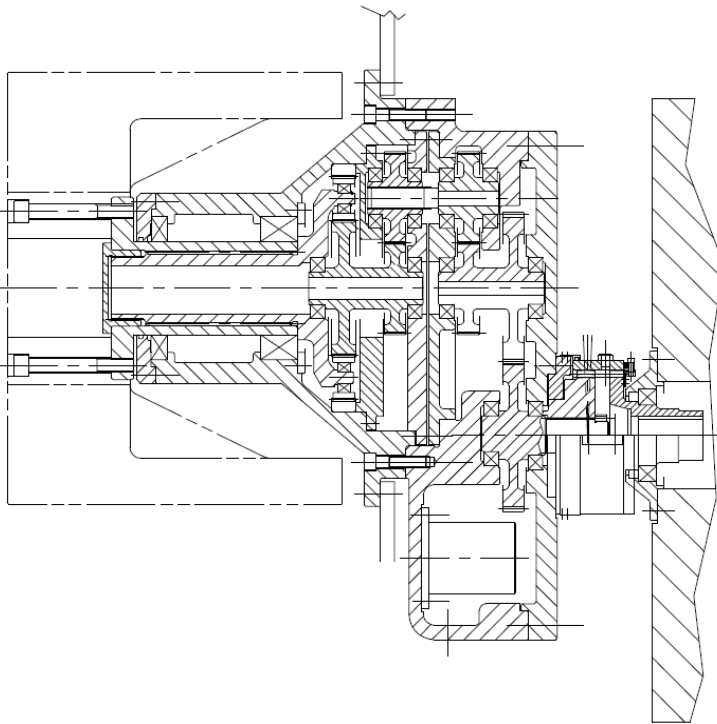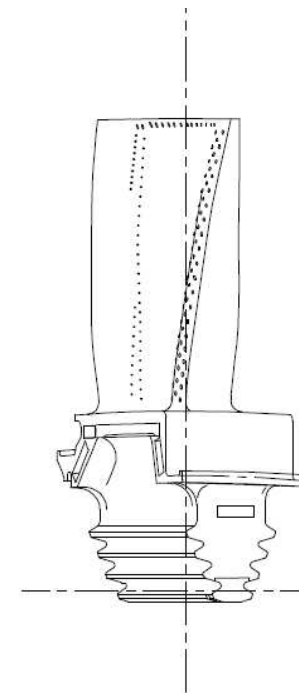
✓ Complete units design: gearboxes, reduction gears, pump

Reduction Gear for special applications

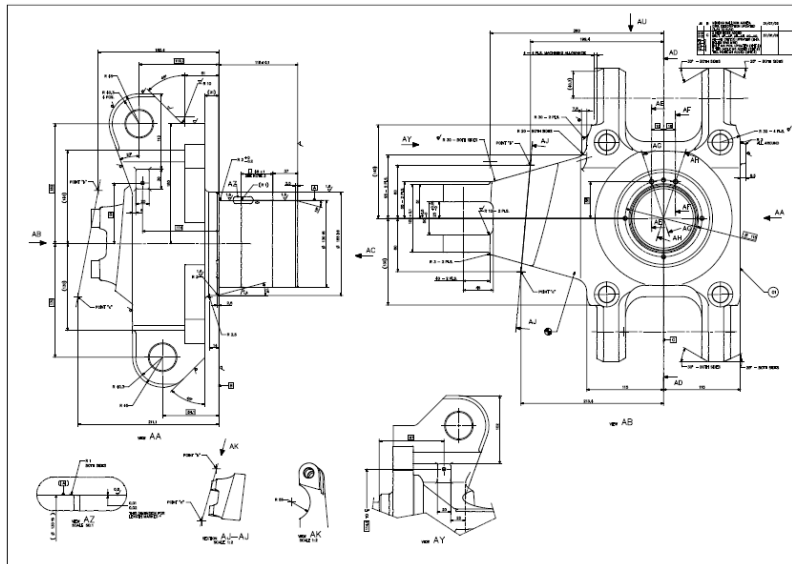*Modelled turbine blade*

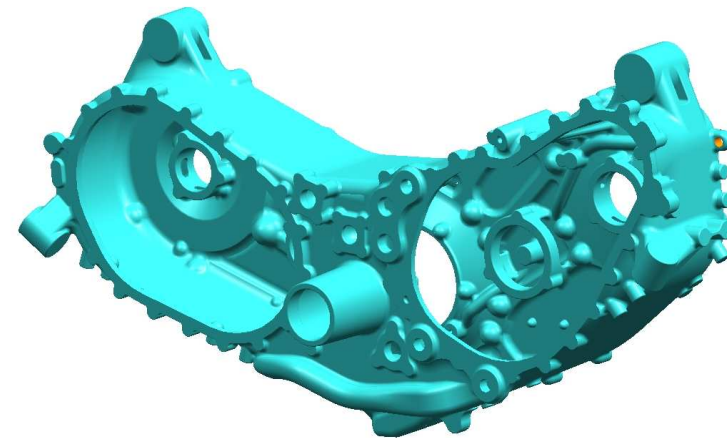# Aeronautics

✓ Drafting and 3D modelling of parts constituting an assembly : castings, drop forgings, assy of, calculation to the finished elements

Gearbox housing casting model

Special reduction gear central body

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Engine Groups

✓Feasibility analysis: this analysis appraises how a part should be produced, which kind of machines are required for machining, which kind of fixtures or toolings, which kind of gauges, which areas should be appointed for assembling

✓Analysis of production cycle: the possibility of producing a part with the most normal using condition of manufacturing machines

✓Determination of cycle time: investigation of maximum production time of the part to be produced.

✓Manufacturing cycle and operation sheets: more than 30 years of experience in looking for the best working sequence

✓Drafting of PART PROGRAM for management of NC machines.

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✓ Studying of dedicated fixtures for single phases : design of fixtures for working centres and for traditional machines, fixtures for washing, fixtures for lifting and handling. Our long experience in this specific job allows us to individuate and to solve problems bound to simplification of subjection of the part on manufacturing machine or alleviation of intervention of the operator

Special tailstock fixture
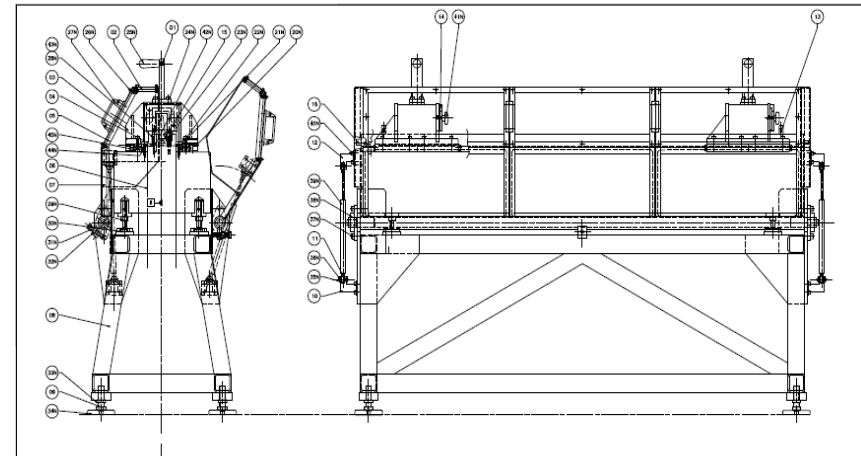
Inspection fixture

Aeronautics

✓ Design of gages and comparisons for measurements in line and inspection in metrological room

✓ Design of test benches and instrumentation and telemetry on impellers, turbines and actuators, for pressure test on castings fatigue test on rotors (high rpm and high loads).

Studio Progettazioni Industriali
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Thank you!