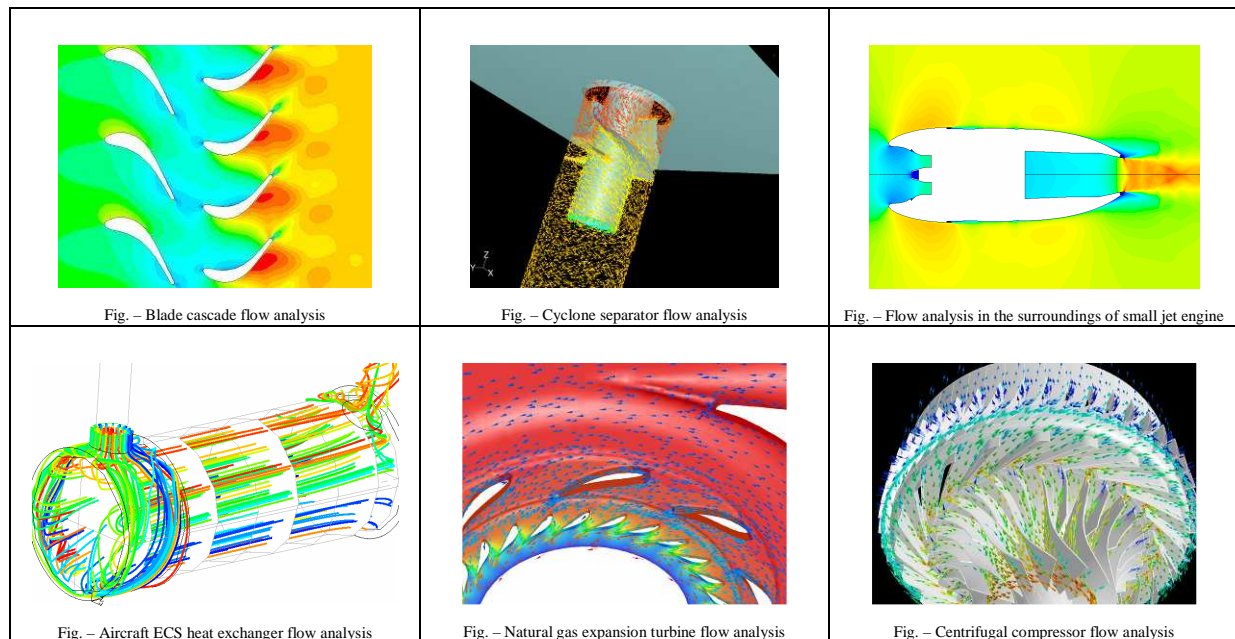


# 1. Numerical flow simulations – Aerodynamics

We offer to carry out numerical flow simulations and expert result analysis in the field of internal and external aerodynamics with FLUENT software. We can offer long term experience especially in the following areas:

- ✓ Rotary blade machines of various design (radial compressors, ventilators, radial and axial turbines, centrifugal pumps etc.)
- ✓ Cryogenics, steam, expansion and gas turbines.
- ✓ Separators, heat exchangers, seals etc.



## References:

### **PBS Energo, a.s.**

- Flow analyses of flow parts of steam and expansion turbines
- Flow analyses of control valves
- Calculations of sealing systems, passability of solid contaminants through turbines etc.

### **PBS Turbo, s.r.o**

- Flow analyses of flow parts of compressors and turbines of turbo-superchargers PTR150, PTR155, PTR180
- bearing housing cooling analyses

### **ČZ Strakonice, a.s.**

- Flow analyses of flow parts of compressors and turbines of turbo-superchargers C15–K27

### **VŠB Ostrava**

- Multicyclone blading optimization with the aim of increasing the separability of solid contaminants from process gas