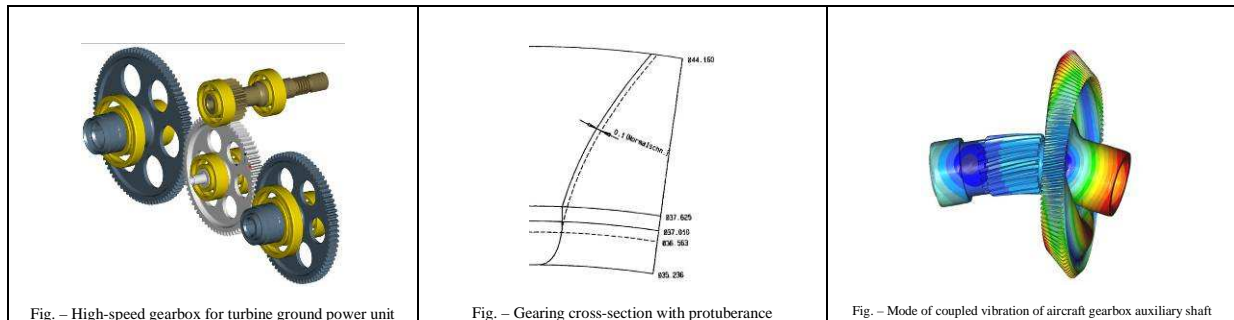


## 5. High speed gearboxes

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We offer to create design of rectilinear and helical gearing for high-speed gearboxes with operating speed up to 45 000 rpm. The gearing is designed in a way to minimize additional dynamic forces caused by internal sources of excitation. For designing we use Pro/Mechanika and Matlab software. Design of bearing and calculations of bearing durability can be also a part of the design.



### References:

#### **PBS Velká Bíteš, a.s.**

- Auxiliary power units SAFÍR – gearbox design
- Ground power unit GPU-17 – gearbox design
- Turbo-prop engine TP100 – gearbox design