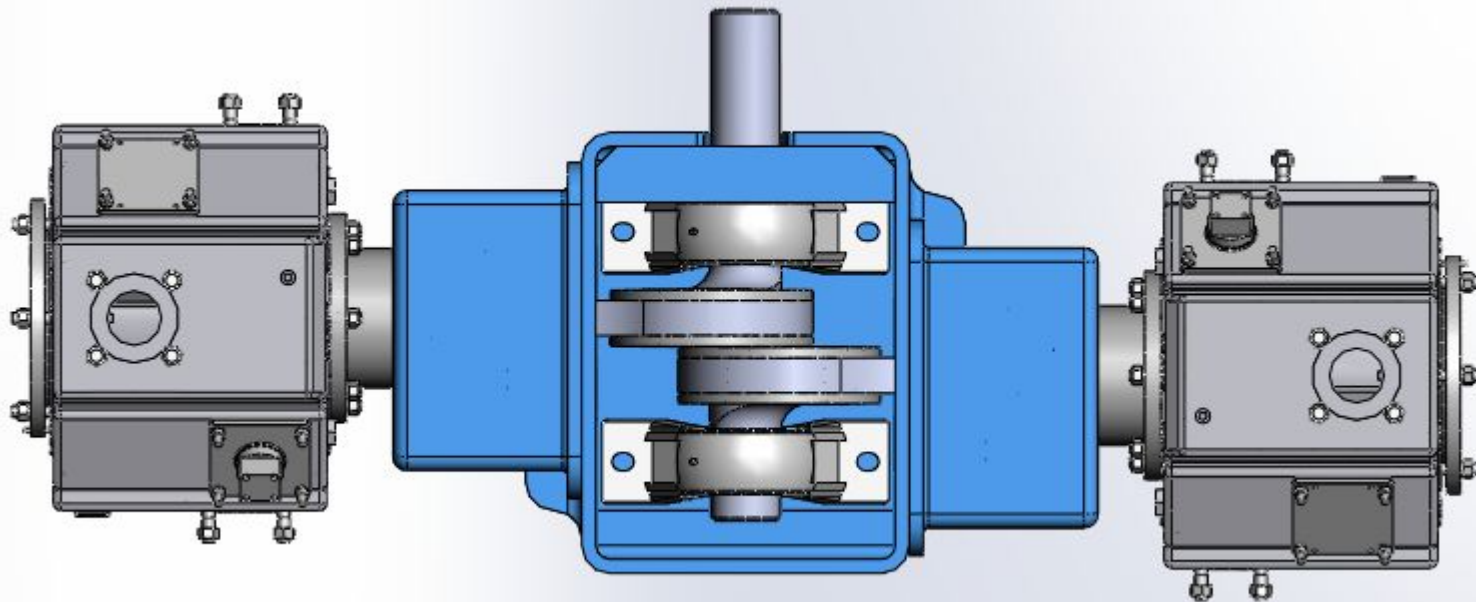




COMPRESSOR FUNCTIONAL DESIGN PREVIEW

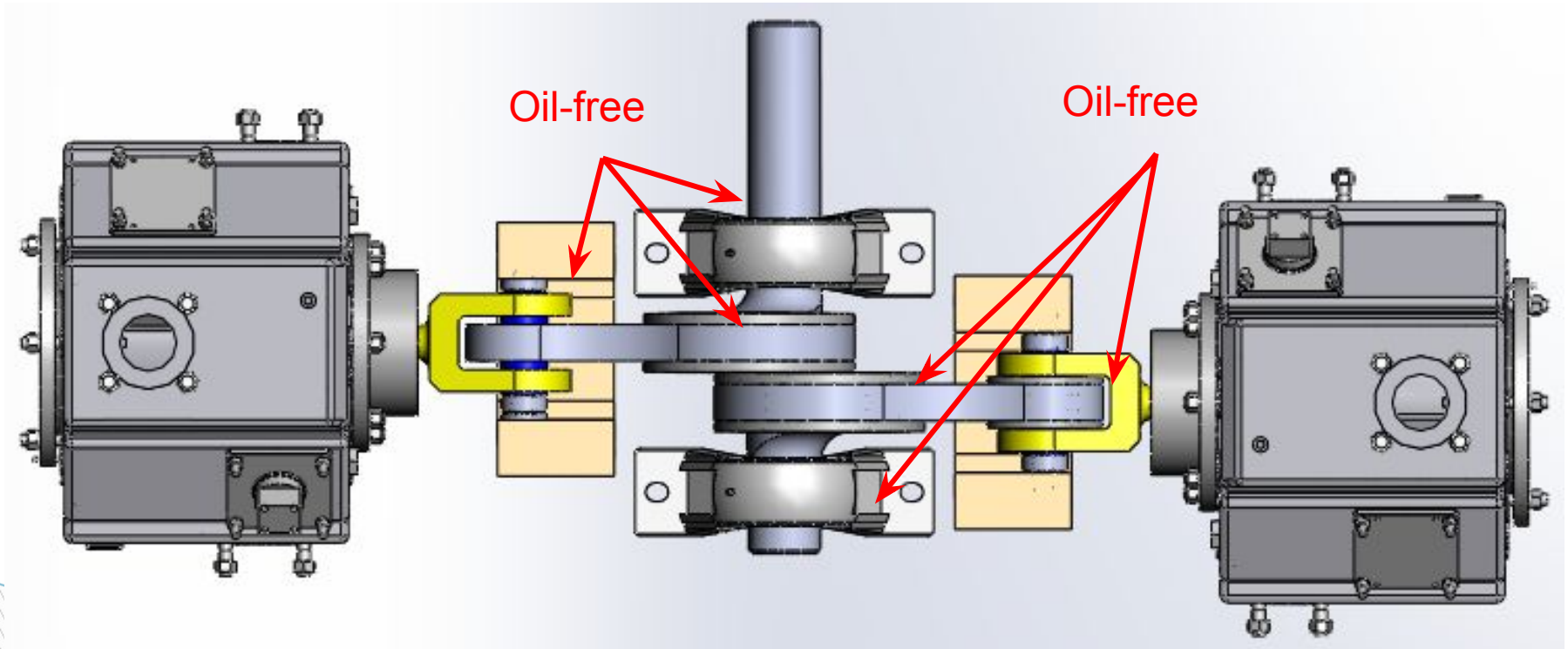


Functional design

- ? This document illustrates the key features of the compressor
- ? The following slides shows the most innovative elements of the compressor design.
- ? Note that this is a functional representation of the compressor components. The detailed constructive design will be provided.

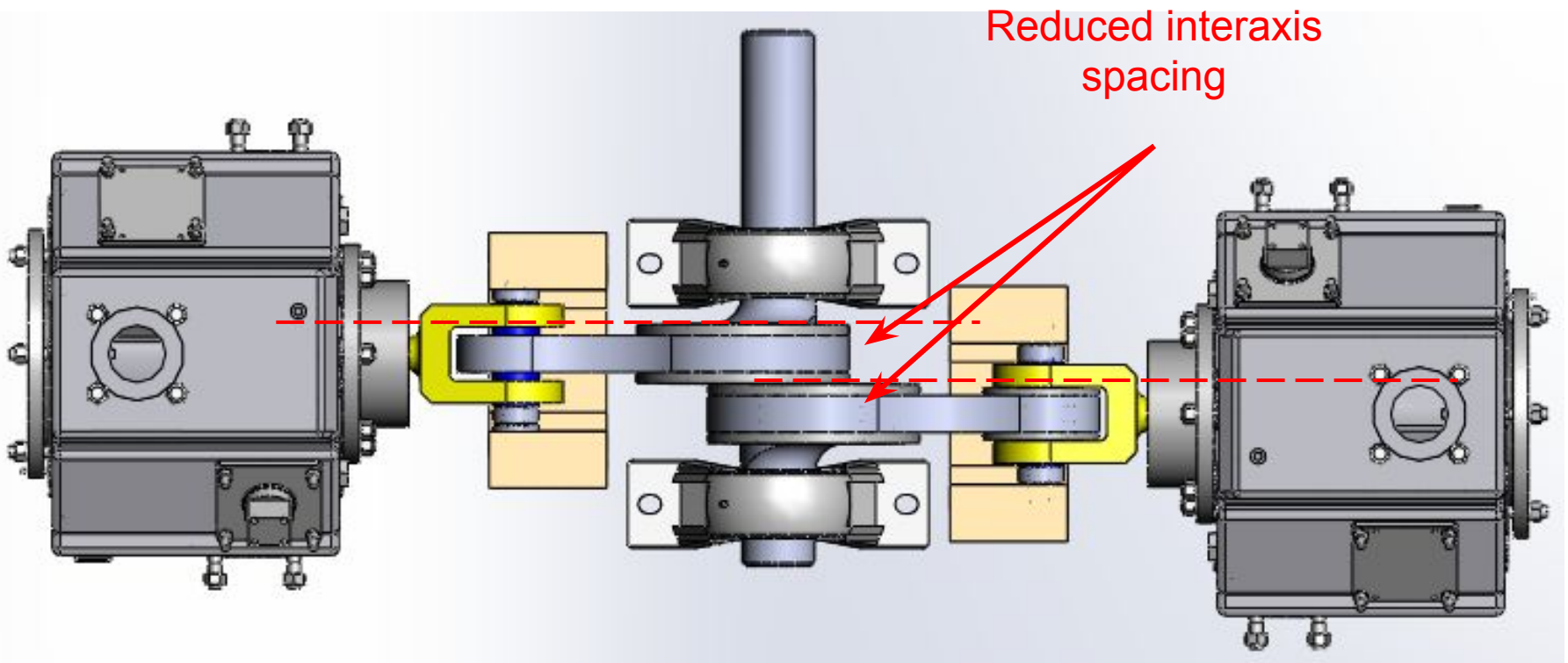
Key features

- ? The key features of the architecture are the following:
1. Oil free main bearings, connecting rod and crosshead



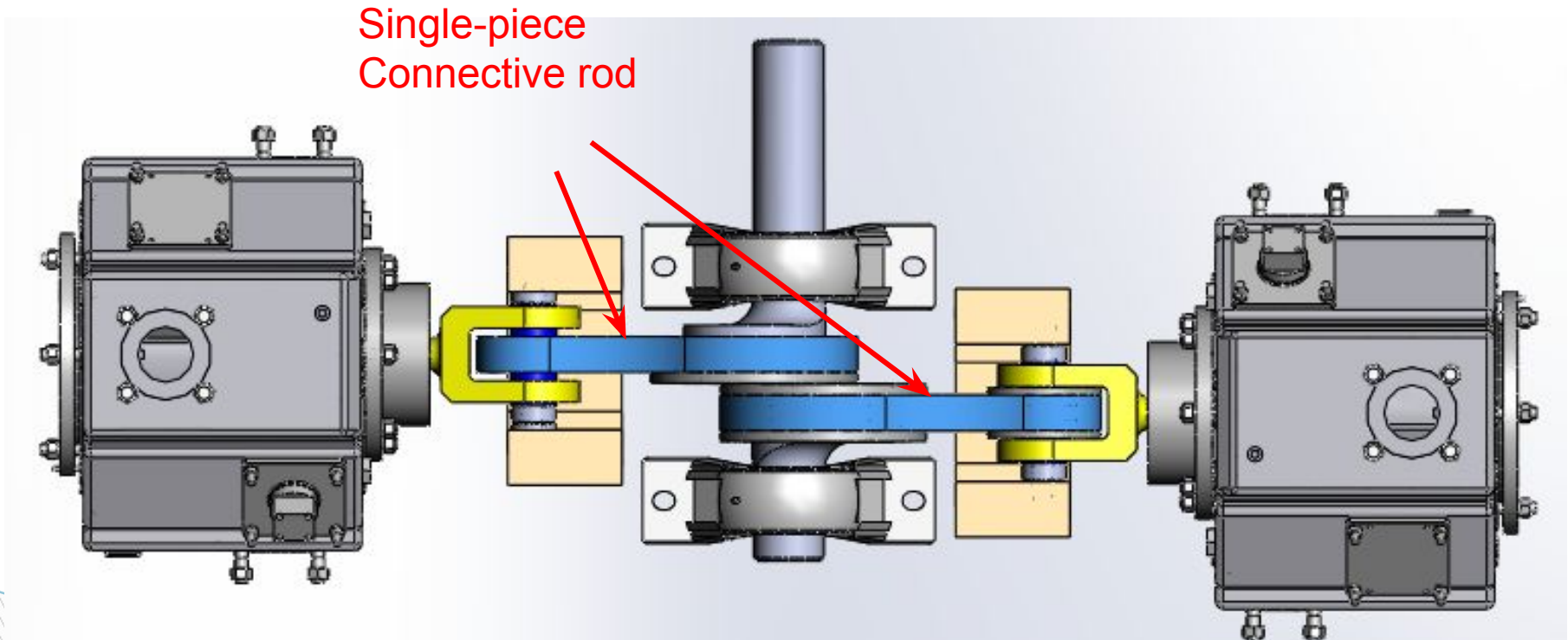
Key features

- ? The key features of the architecture are the following:
 2. Compact lobe-based crankshaft
 3. Considerable reduction of cylinders' center to center distance.



Key features

- ? The key features of the architecture are the following:
4. Single-piece connecting rod with no tie-rods.



Overall performances

- ? Details of the crankshaft
 - Stroke: 100 mm
 - Connecting rod length: 305mm

- ? The main performances of the compressor at a rotation speed of 1800 rpm are the following:
 - Mean power per cylinder: 250 kW
 - Maximum piston speed: 9,5 m/s
 - Maximum rod load: 90000 kN



**Thanks for your
attention**

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