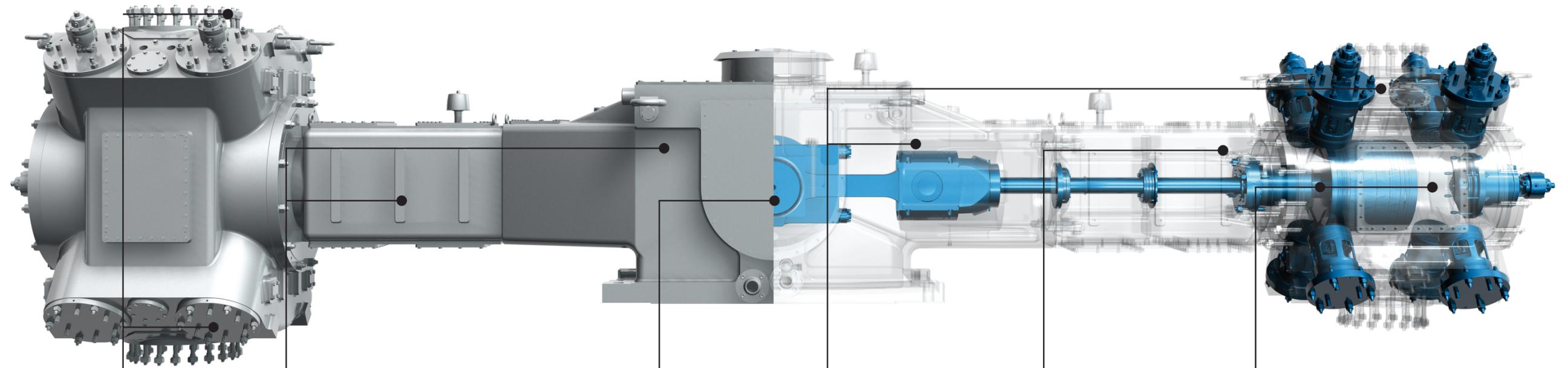


Component monitoring by sensors



Temperature

- Valve
- Flow balance

Flow

- Lube oil system
 - Cylinder
 - Packing
 - Motion work

Process data

- Bearing
- Packing
- Operating condition
- Cooling system
- Motor / Coupling
- Operating pressures

Speed

Vibration

- Cylinder housing
- Piston
- Piston rod
- Plunger
- Crosshead
- Connecting rod
- Crankshaft
- Crankshaft bearing
- Valve
- Bearing
- Connection

Proximity

- Piston rod position
- Plunger position
- Crosshead
- Piston
- Piston rod
- Connection
- Compression chamber
- Rider ring
- Piston ring

Dynamic Pressure

- Cylinder housing
- Piston
- Piston rod
- Connecting rod
- Crankshaft
- Valve
- Packing
- Piston ring
- Valves functions and losses
- Unloaders
- Clearance Volumes
- Indicated power
- Flow balance
- Volumetric efficiency
- Compression ratio
- Rod load reversal
- pV analysis

