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Carbon Dioxide Compression

ASME - IGTI Turbo Expo
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CO2 Compression Applications

- **CO2 pipeline transmission**
- **CO2 production**
- **CO2 injection - enhanced oil recovery**
- **Feedstock for urea & fertilizer plants**
- **Food & beverage processing**
- ***Greenhouse gas sequestration***

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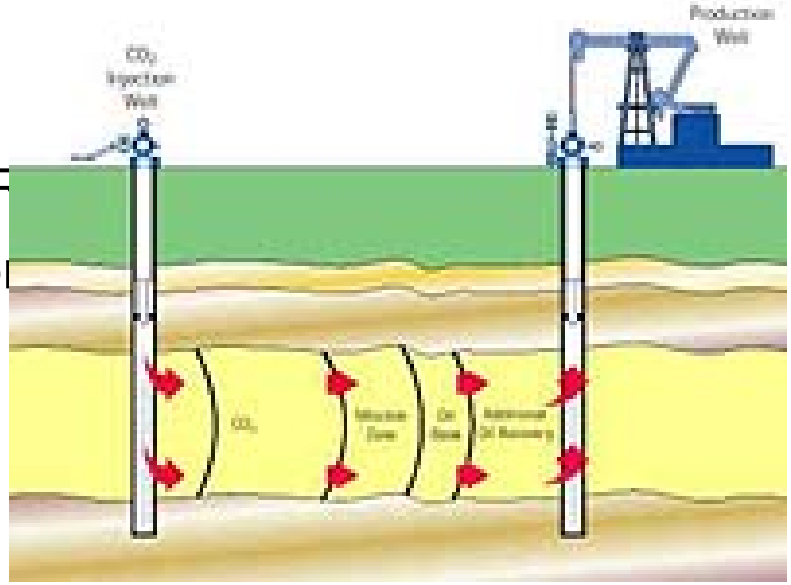
CO_2 Miscible Flooding

- CO2 Injection for EOR has a four-fold benefit
  - Lowers viscosity of the oil in place.
  - Provides a measure of pressure drive.
  - Can penetrate more types of rocks better than other enhancing agents.
  - leaves a cleaner well.
- CO2 Injection proven to be one of the most efficient EOR methods since its introduction early 70's.



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CO_2 Compression Experience

- Centrifugal
  - 93 units, first shipped in 1948, most recent 2007
  - Max discharge pressure = 2,580 psig (178 bar)
  - Max inlet flow = 48,300 acfm (82,100 m3/hr)
  - Max power = 15,600 bhp (11,640 kW)
  - Total installed power > 350,000 bhp (>261MW)
  - Installed in 16 different countries

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Datum Multistage Centrifugal

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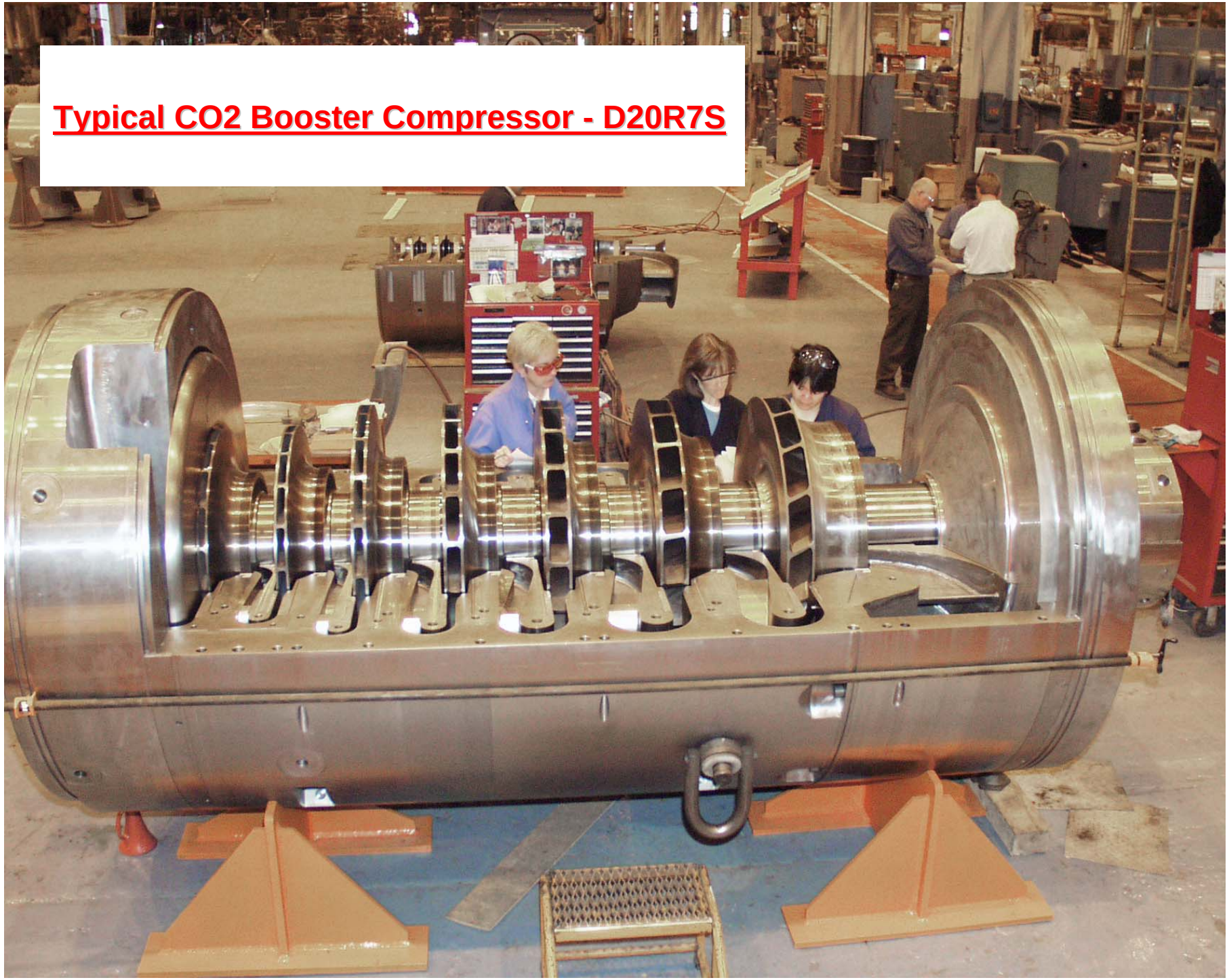
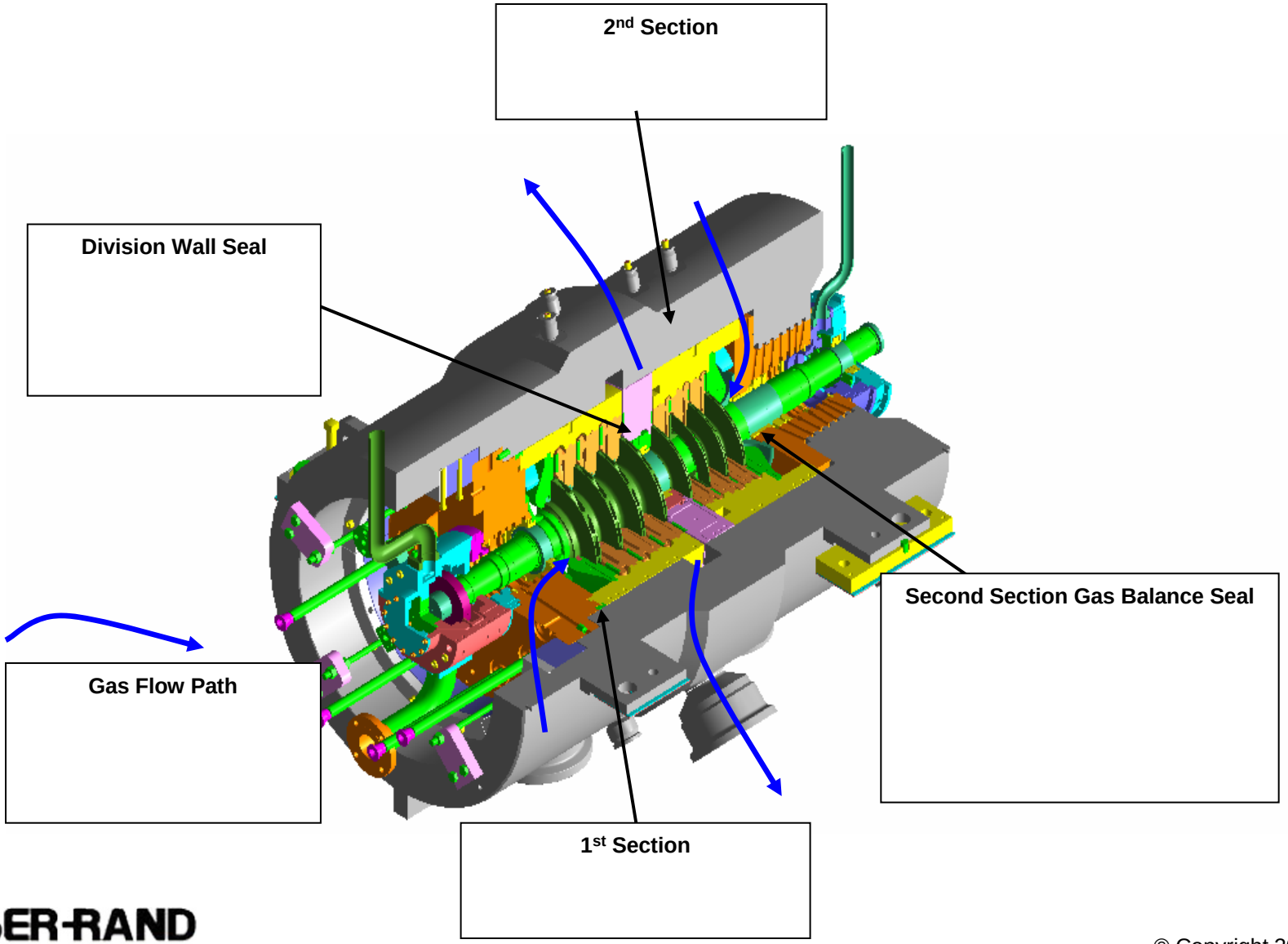
Typical CO2 Booster Compressor - D20R7S



Typical CO2 Injection Compressor



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CO_2 Centrifugal Compression Train
Urea Process - Pakistani Fertilizer Plant

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CO_2 Compression Experience

- Reciprocating
  - 227 units, first shipped in 1928, most recent 2007
  - Max discharge pressure = 6,000 psig (414 bar)
  - Max inlet flow = 2,712 acfm (4,600 m3/hr)
  - Max power = 8,000 bhp (5,968 kW)
  - Total installed power > 530,000 bhp (>395MW)

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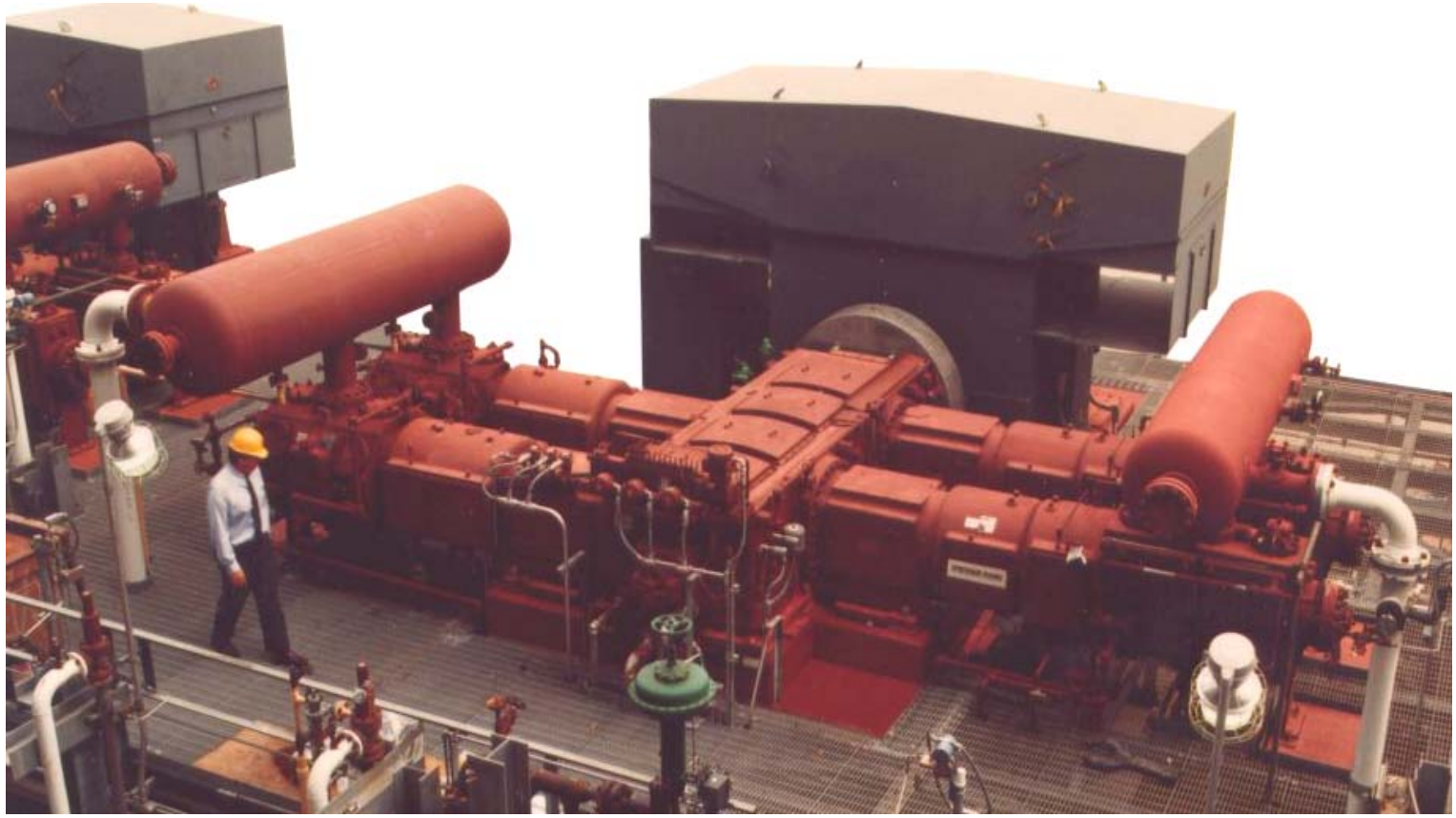
Process Reciprocating Compressor



5,500 HP HHE-VL Process Reciprocating Compressor on Hydrogen Makeup Service in USA Gulf Coast Refinery

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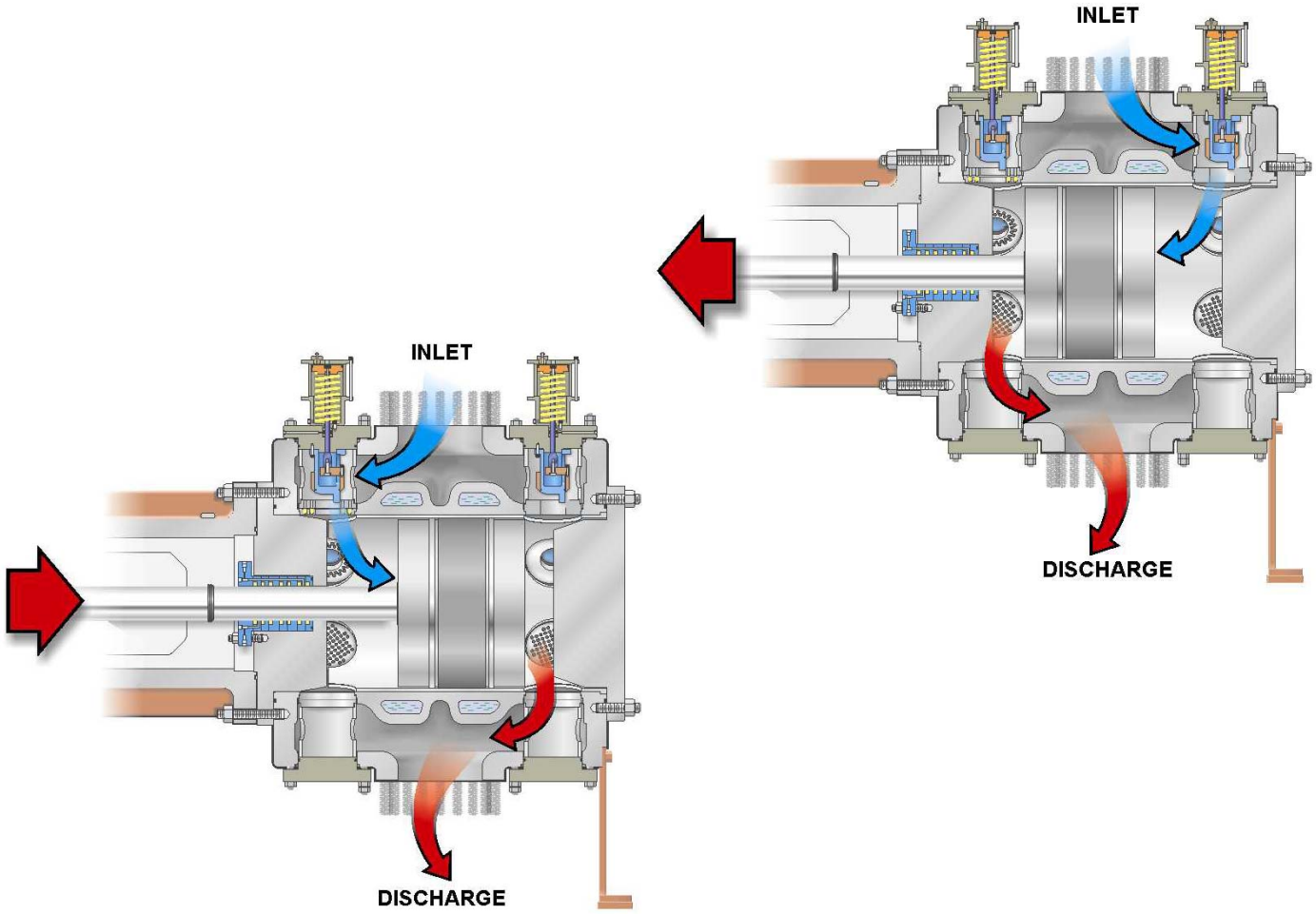
Gas Flow



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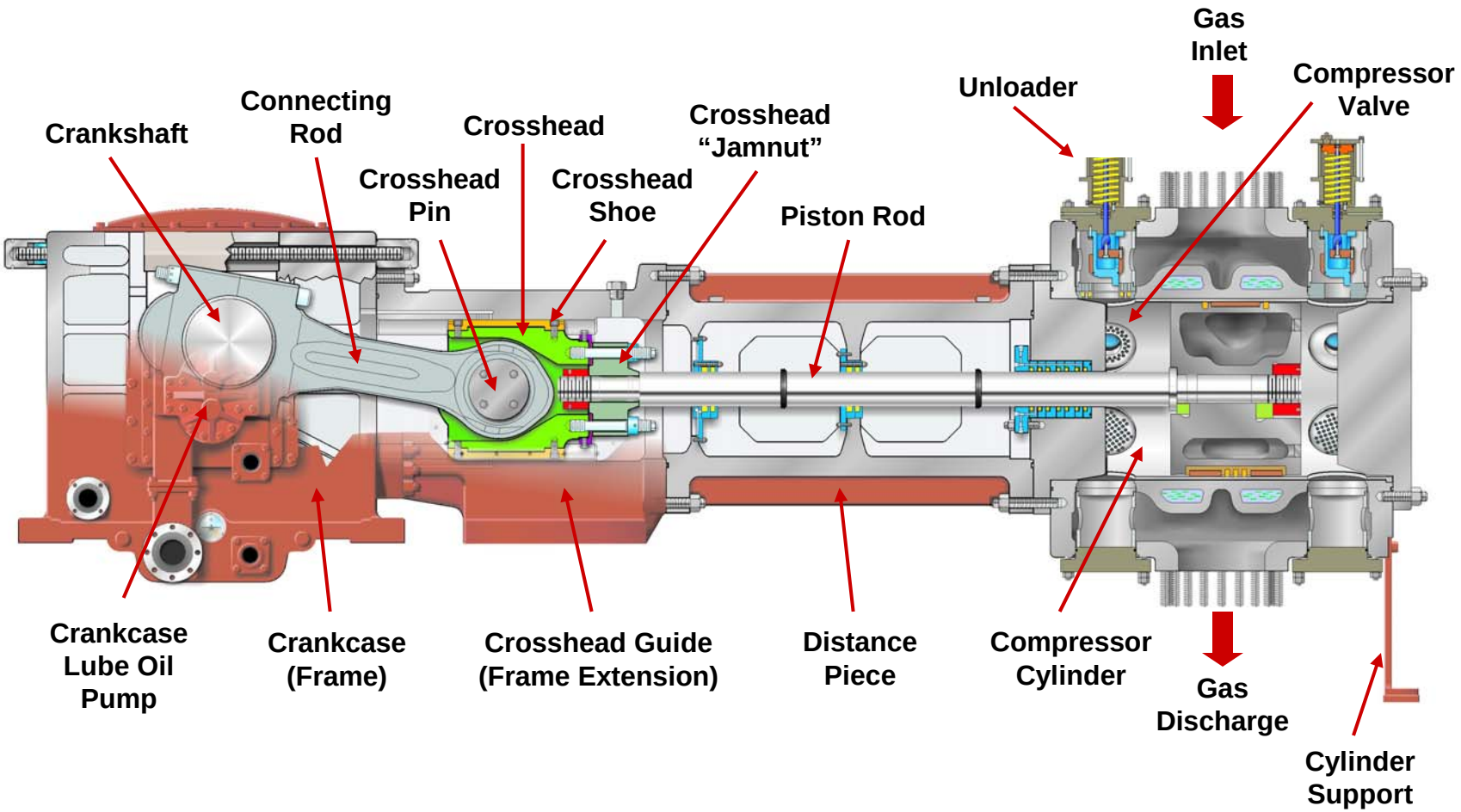
Frame & Running Gear



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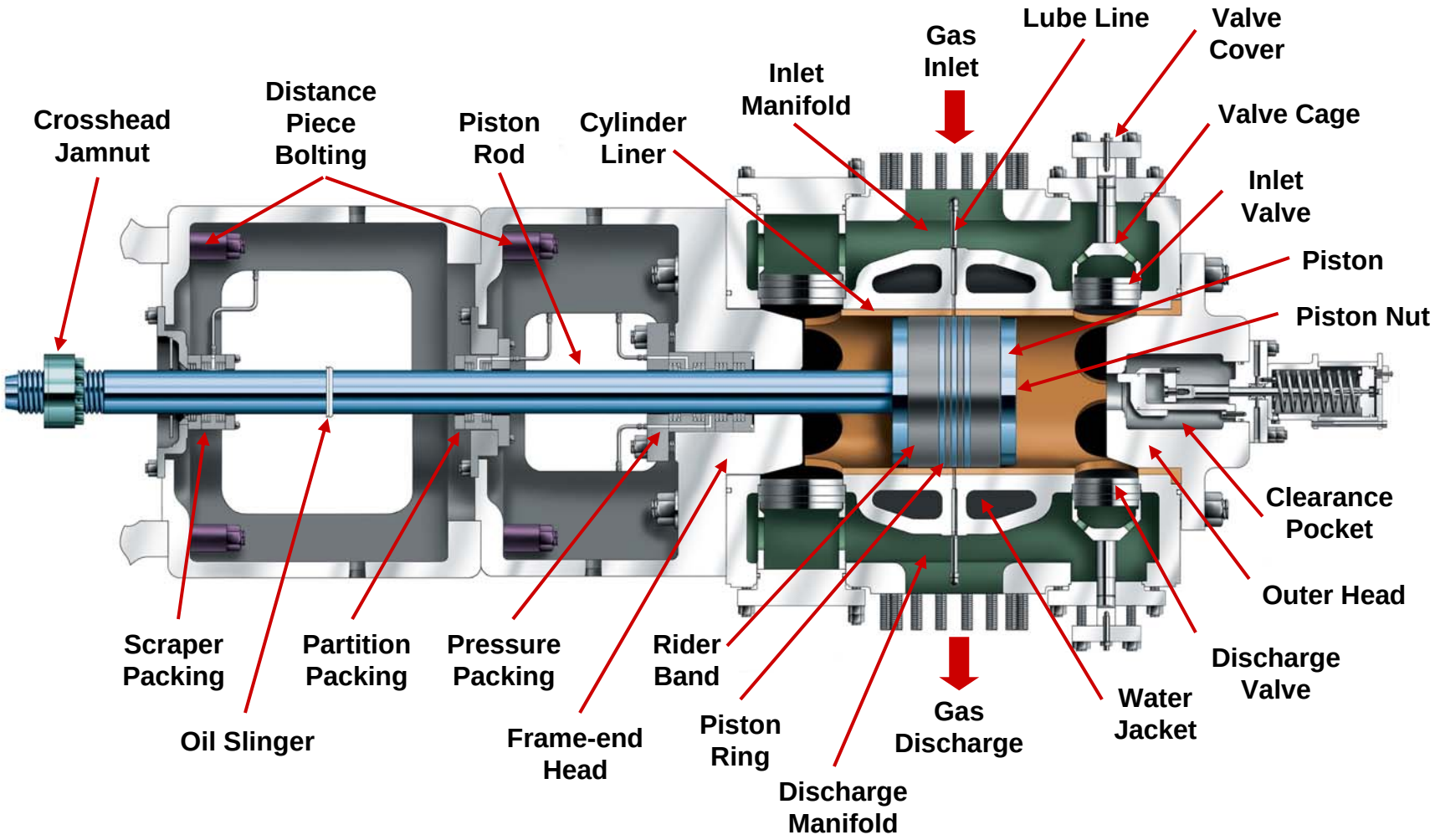
Compressor Cylinder Details



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Challenges with CO2 Compression

- The presence of water together with CO2 creates carbonic acid which is corrosive to carbon steels. The use of stainless steel for any components in contact with wet CO2 eliminates the problem.
- Similarly, the presence of water with CO creates iron carbonyl upon contact with carbon steel. Again, the use of stainless steels for solves the problem.

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Future Considerations...

- Increasing the amount of interstage cooling will reduce the overall power required for CO2 compression.
- Advanced interstage cooling concepts are being investigated to improve the effectiveness of existing water cooled stationary diaphragms.

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Thank You !

Questions?

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