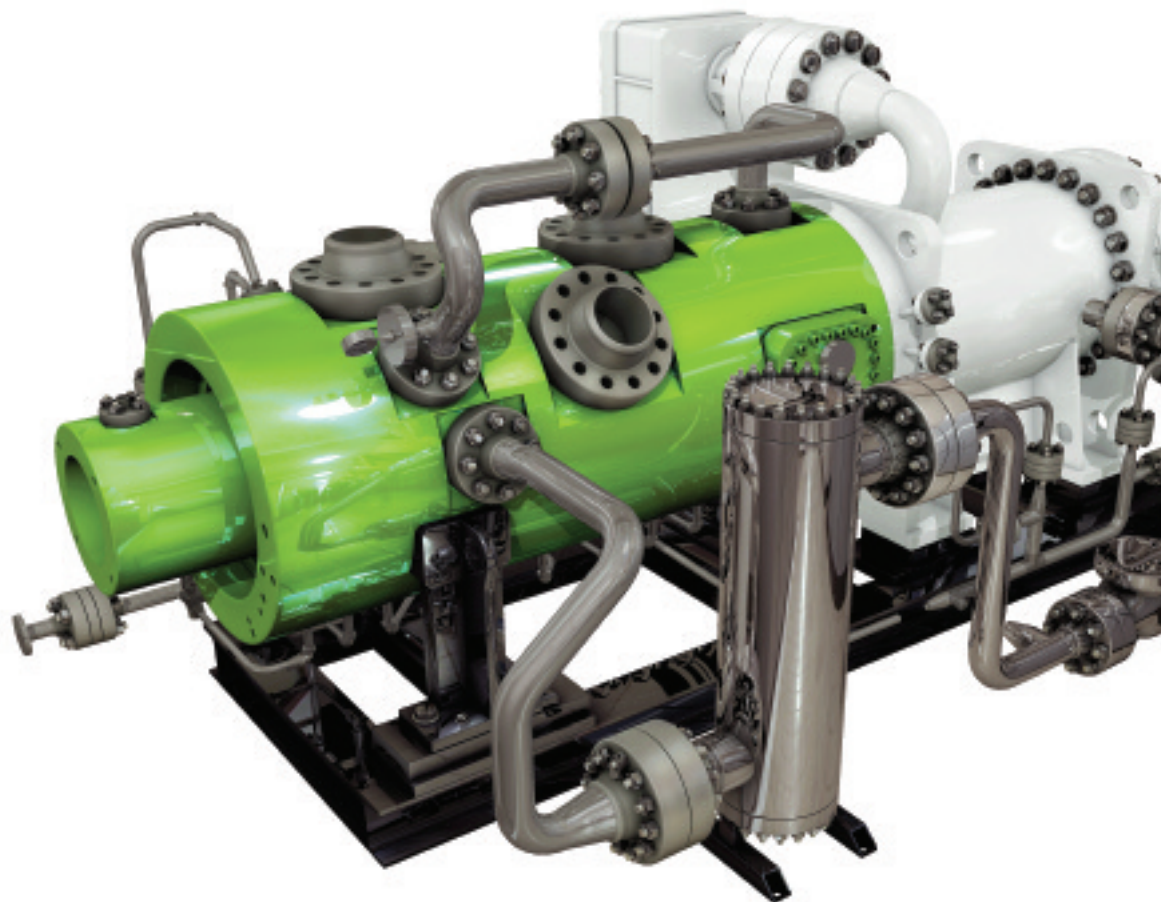


GE
Oil & Gas

Integrated Compressor Line ICL

an integrated high speed electric
motor driven compressor



GE imagination at work

Integrated Compressor Line

an integrated moto-compressor

The ICL is the fruit of more than 20 years of know-how in GE Oil & Gas and the mastery of 3 leading-edge technologies :

- Centrifugal compression
- Active Magnetic Bearings (AMB)
- High-speed electric motors and drives

Integrated design

- 1 single casing for compressor and motor
- Motor cooled by process gas
- Compact
- No utilities (except electricity)
- No shaft end seals
- Flexible architecture based upon a conservative approach of rotor dynamics
- Stable overall efficiency throughout the speed range

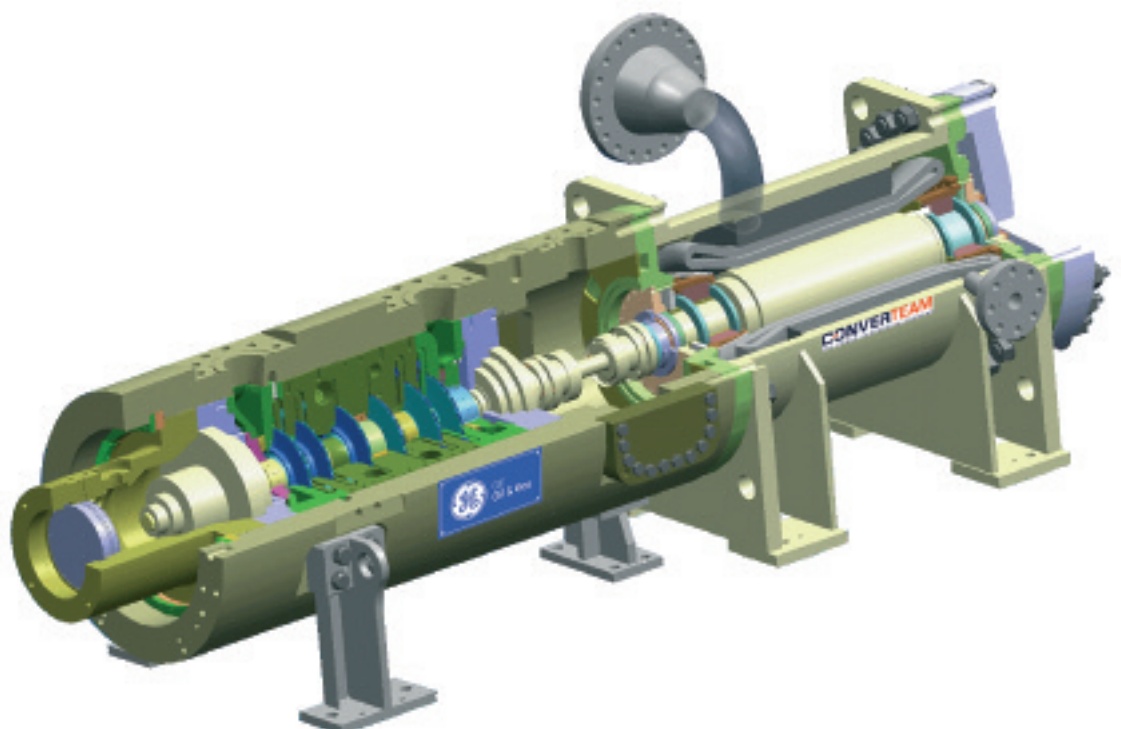
Applications

Integral configuration for :

- Midstream : gas storage, pipelines
- Upstream : for dry clean gas services
- Downstream : feed gas, fuel gas booster

Product range

- Power up to 15 MW
- Speed up to 20.000 rpm
- Pressure rating up to 1500 #
- Multistage in line or back to back (up to 8 stages)



Integrated Compressor Line

an innovative solution for your applications

Advantages

- No gearbox
- No lube oil system
- No shaft seals
- No external cooling system
- Flexible architecture
- Conservative rotor-dynamics
- Reduced number of components

A fully proven solution

- Extensive validation program with significant operating hours accumulated
- 6 MW unit tested as per site requirements :
 - Mechanical behavior
 - Machine performances
 - System performances
 - Transient behavior : landing and surge

Customer benefits

- Smaller Footprint : Main Skid 40 to 60% smaller than a single lift traditional unit with integrated lube oil system
- Easy to install : almost no external auxiliary systems
- Smaller compressor building
- Higher availability
- Less maintenance at low cost due to absence of lube oil system and seal system and of separate motor cooling
- Easy Maintenance : separate access to motor and compressor, low weight and size of components to be dismantled
- Wide operating range thanks to the continuous speed range
- No emission
- Low noise



GE Oil & Gas

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