ICL is ideal for limited spaces industry-wide, including offshore platforms and downstream facilities.

- Enhanced productivity
- High reliability and availability
- Low operating costs
- Compact and lightweight configuration
- High flexibility and wide operating range
- Easy installation and low maintenance
- Zero emissions and low noise

Integrated Compressor Line
Proven zero-emissions compression for industry-wide applications
The ICL is a clean approach to compression. There is no seal leakage from the completely closed case, no depressurization is required on shutdown, and the AMBs require no lubrication, so there is no risk of bearing failure and no oil leakage.

Electric motor and drive
This component drives the high-speed motor and high-frequency drive technology from GE Power Conversion. The pressured, inductive motor includes a laminated rotor with a rotor cage—design proven in more than 4 million operating hours in industrial applications. The drive is highly efficient over a very wide operating range, with the same hardware capable of driving the motor at low speeds and all the way up to 700 Hz.

Active magnetic bearings
With AMB technology, the rotor is levitated by a control system that precisely regulates the rotor spacing to avoid all parts contact and friction. This eliminates the need for lubricant thereby solving the problems of conventional liquid oil systems used with conventional compressors. The ICLs eliminate any liquid lubrication and have no bearings. Ball bearing back-up allows the machine to stop without damage.

Pipelines and compressor controls
The single-stage ICL offers a wide and open range for the largest application sectors. Our unique approach eliminates the need for three-stage compression, which directly impacts the overall efficiency of the process and facilities. The ICL is configured as either a single-stage centrifugal or a multistage in-line configuration. A broad range of high-speed designs, ideal for the most demanding applications, are direct descendants of proven AMBs. The ICL design incorporates BHGE's latest technological advances, including our high-performance impeller design, to deliver the best efficiency, reliability, and operating range.

High-performance design
The ICL is our most versatile and compact compressor technology with an electric motor drive in a single, completely sealed package that allows an efficient, easily installed, and environmentally friendly compression solution for oil and gas applications up to 100 bar suction pressure. In order to deliver an efficient and compact package, BHGE small electric motor power packages in a result of BHGE’s unique ability to bring together proven solutions from the oil and gas industry, and prove that it has the essential knowledge for the use of materials and processes involving the oil and gas industry.

Centrifugal compressor
Both the multistage and single-stage ICL compressor casings are directly flanged onto the rotor, avoiding any alignment issues. This also makes maintenance easier since the entire assembly can be disassembled, minimizing the risk of parts contact and wear. This greatly simplifies the compressor and improves reliability, through key features, including:

- Overhung single-impeller
- Independent motor cooling
- Laminar flow (IGC/HMM)
- Large axial-end seal maintenance possible without dismantling process line

Pipeline compression
The single-stage ICL offers a much wider and larger operating range than conventional single-stage compressors. Our unique approach eliminates the need for three-stage compression, which directly impacts the overall efficiency of the process and facilities. The ICL is configured as either a single-stage centrifugal or a multistage in-line configuration. A broad range of high-speed designs, ideal for the most demanding applications, are direct descendants of proven AMBs. The ICL design incorporates BHGE’s latest technological advances, including our high-performance impeller design, to deliver the best efficiency, reliability, and operating range.

Design pressure ratio
- 1.1 to 1.5
- Above 1.4, multistage configuration between bearing units

Power up to 16 MW/21,500 hp
- No bearing lube oil
- No gearbox
- No wear parts
- No seal systems

Zero emissions
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