Gas compression solutions
For gas-fired turbines in power plants
Tailor-made, flexible solutions via three different technologies

- Screw compressor packages - oil injected
- Reciprocating compressor packages - horizontally opposed
- Centrifugal compressor packages - integrally geared

**Advantages**

- Turbine protection: minimized oil carryover with enhanced oil separation, or fully oil-free to meet highest purity demands
- Multi-stage design for reduced power consumption
- Cost savings at turbine part-load operation through flow dedicated control methods (slide valve, unloaders, IGV) according to compressor type
- Special fast-acting recycle valve and correct volume selection for quick response to turbine dynamics
- Availability and maintainability oriented design
- Compliant to the highest standard health and safety directives and international standards (noise control and fire-fighting)
Features
Different GEA gas compression solutions are available with various compressor models: from skid-mounted compact machines ready for installation to extensive plants in multi-skid arrangements.
Main driver (electric or gas engine), lubrication and cooling system, regulations and controls, safety system and noise protection are purpose-built for long-term performance.
Turbine pressure requirements are satisfied across a wide range of gas composition, including natural gas, biogas, landfill gas, sour gas and associated gas.

TECHNOLOGIES VS. TURBINE SIZE

- **Screw compressor package**
  - Gas turbines 20 MW and smaller
  - Gas turbines 20 - 60 MW
  - Gas turbines 60 MW and larger

- **High-pressure screw or reciprocating compressor package**

- **Centrifugal compressor package**

28 billion of Nm³ feeding 27 different turbine models since 2000
We live our values.
Excellence • Passion • Integrity • Responsibility • GEA-versity

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