






Gas compression solutions

For gas-fired turbines
in power plants

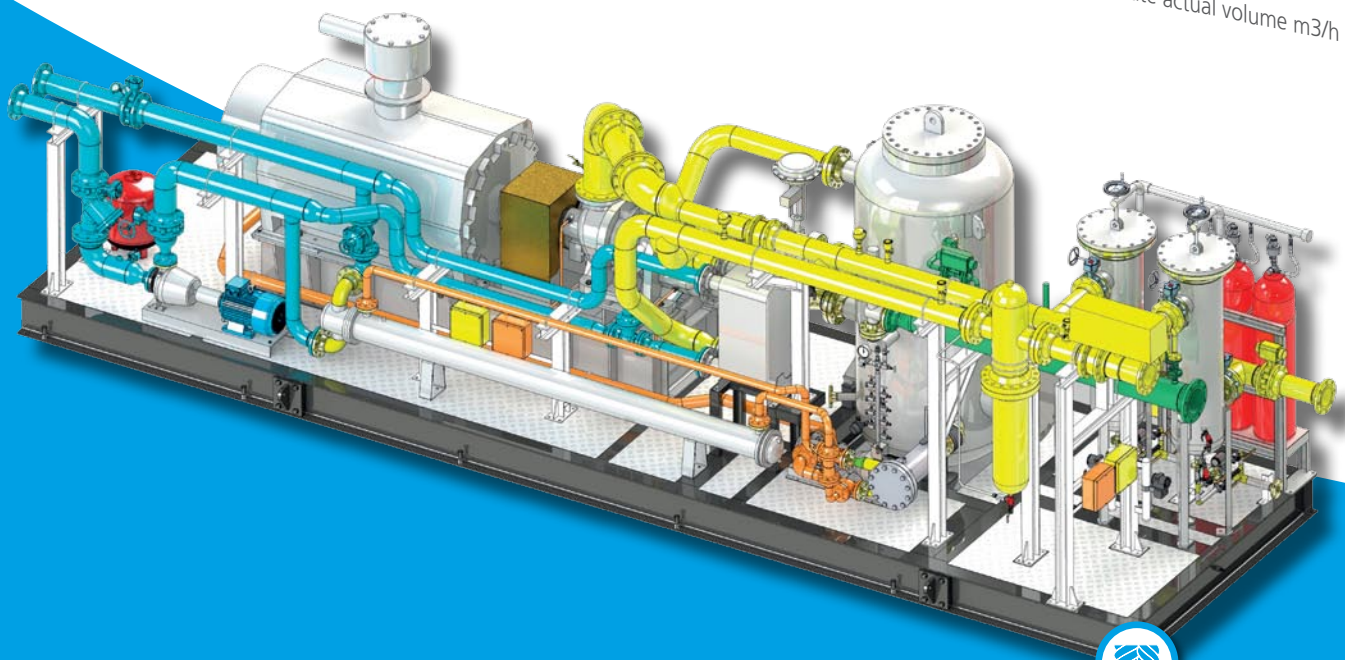
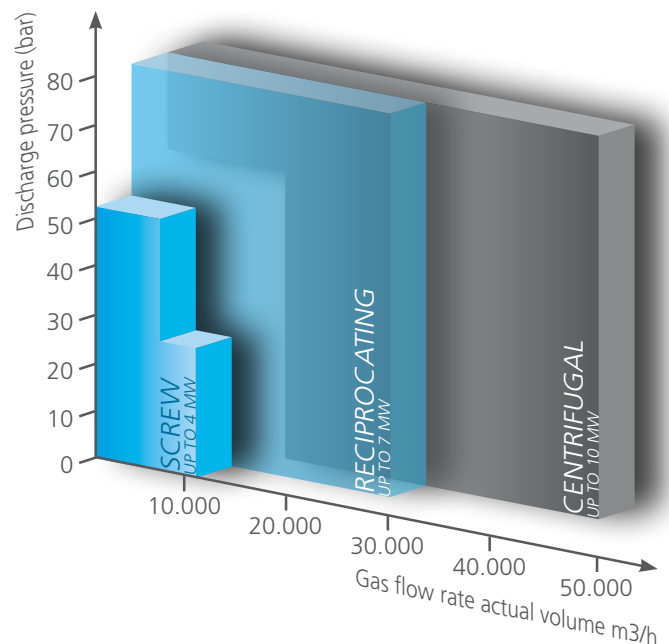
Tailor-made, flexible solutions via three different technologies

-  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)

QUICK SELECTION CHART



Cover image: a detail of GEA screw compressor rotors

Oil-injected screw compressor package with inlet filtration unit



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.

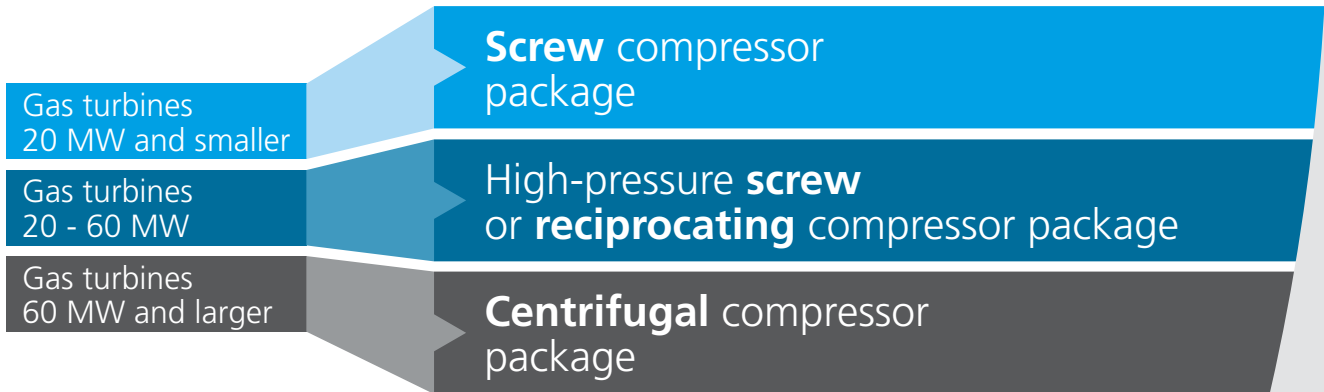
Turbine pressure requirements are satisfied across a wide range of gas composition, including natural gas, biogas, landfill gas, sour gas and associated gas.



Five-stage centrifugal compressor package



TECHNOLOGIES VS. TURBINE SIZE



28 billion
of Nm^3
feeding 27
different
turbine models
since 2000



Two-stage lubricated
reciprocating compressor
package for sour gas



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