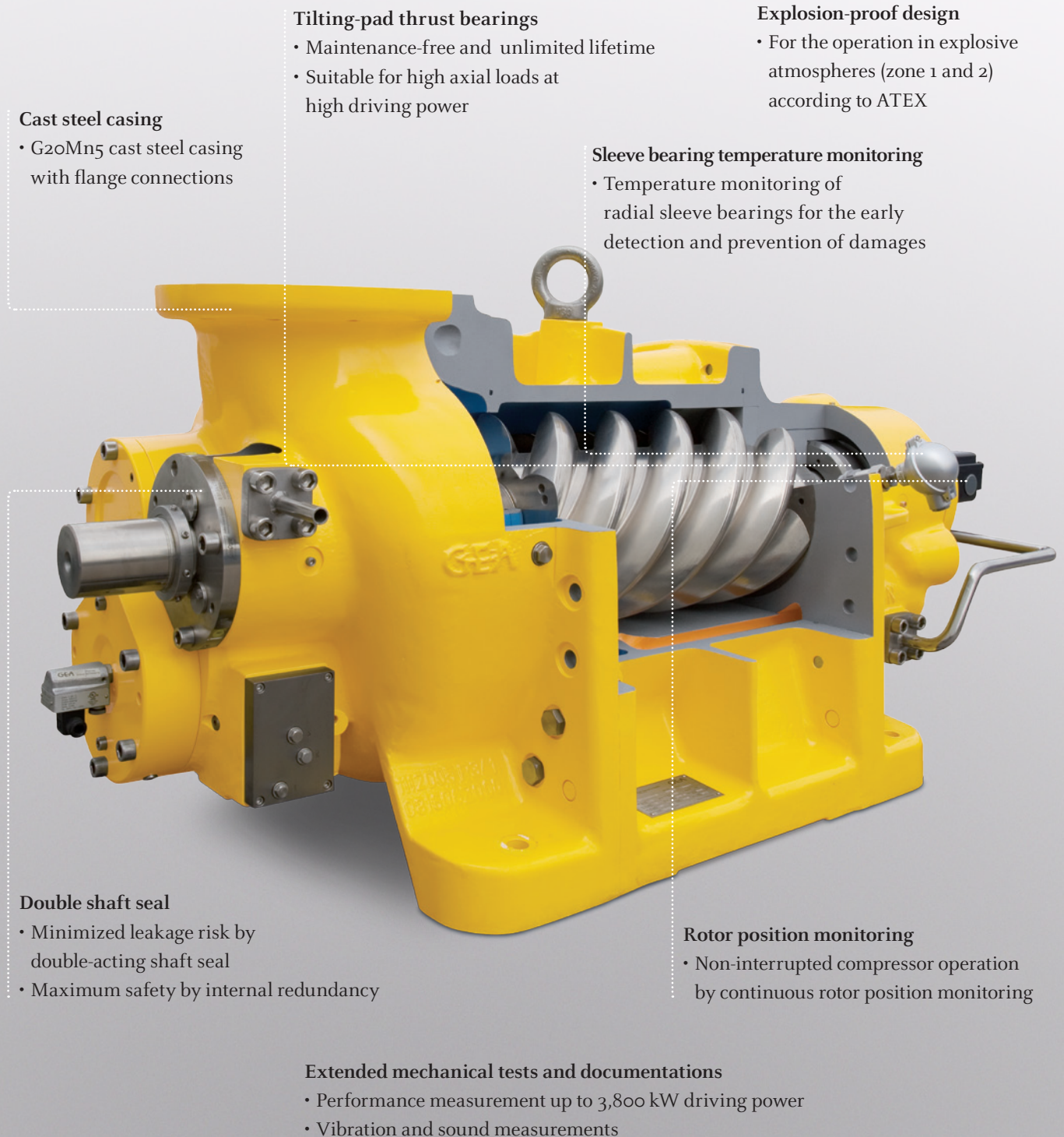


GEA screw compressors according to API 619*

Oil-flooded screw compressors for high operational safety



Cast steel casing

- G20Mn5 cast steel casing with flange connections

Tilting-pad thrust bearings

- Maintenance-free and unlimited lifetime
- Suitable for high axial loads at high driving power

Explosion-proof design

- For the operation in explosive atmospheres (zone 1 and 2) according to ATEX

Sleeve bearing temperature monitoring

- Temperature monitoring of radial sleeve bearings for the early detection and prevention of damages

Double shaft seal

- Minimized leakage risk by double-acting shaft seal
- Maximum safety by internal redundancy

Rotor position monitoring

- Non-interrupted compressor operation by continuous rotor position monitoring

Extended mechanical tests and documentations

- Performance measurement up to 3,800 kW driving power
- Vibration and sound measurements

* with deviations

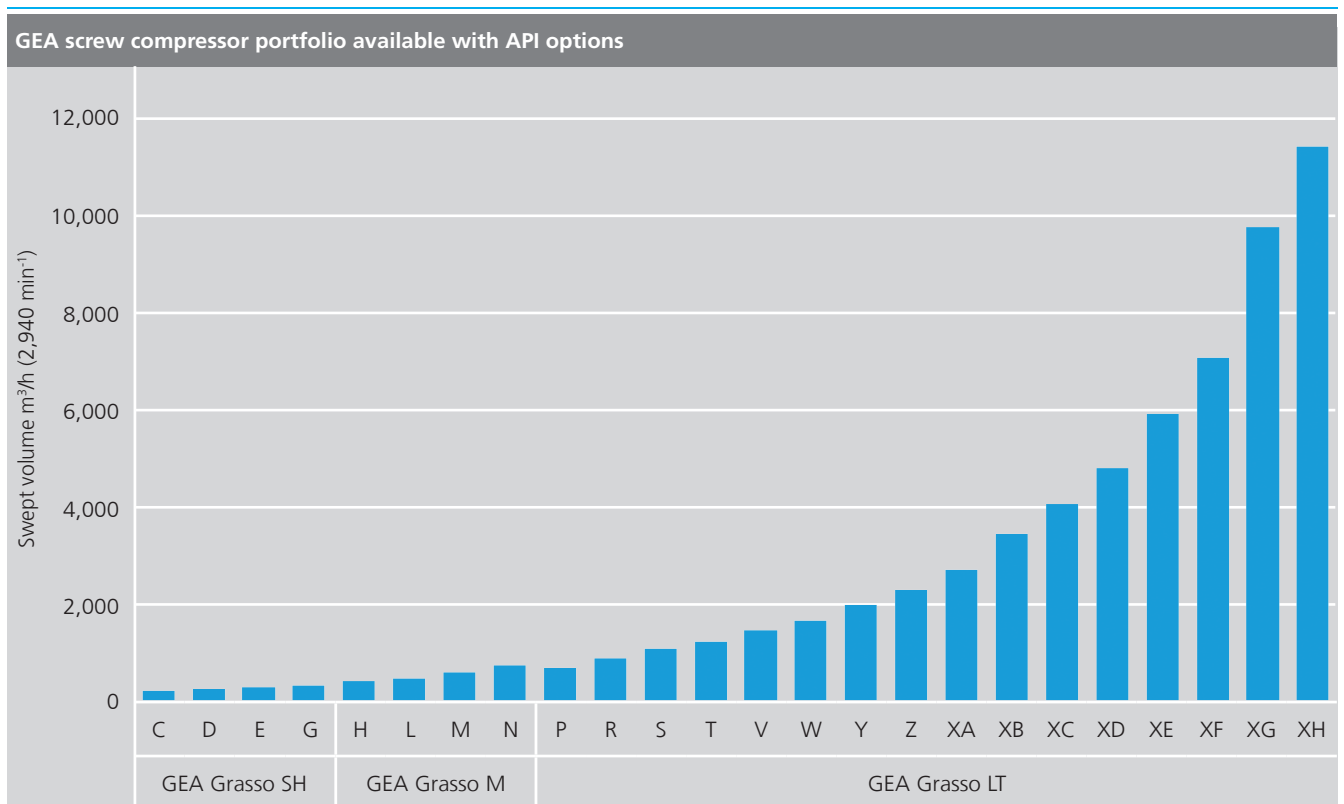
GEA screw compressors according to API standard are designed especially for the high safety requirements of gas compression and process cooling in the chemical, oil and gas industries. With 24 model sizes, they cover a swept volume range from 231 to 11,467 m³/h at 2,940 rpm. These compressors can be equipped with cast steel casings, maintenance-free tilting-pad thrust bearings, and double shaft seals. Rotor position and sleeve bearing temperature monitoring systems ensure enhanced operational reliability. Extended mechanical test runs as well as more comprehensive documentation are optionally available. GEA screw compressors in API version are also approved for operation with flammable gases. They are designed for the compression of natural and synthetic refrigerants in process cooling as well as for the compression of process gases. Further applications are the compression of natural gas and gas mixtures: e.g., as compression stations in natural gas and biogas plants.

Advantages at a glance

- High operational safety
- Excellent energy-efficiency
- Continuous compressor operation monitoring
- Easy maintenance and service-friendly design

Technical features

- Sizes: 24
- Swept volume: 231 - 11,467 m³/h at 50 Hz
- Design pressure: 28 bar, 52 bar (for C - XF)
- Medium: Natural and synthetic refrigerants, natural gas, biogas, process gas
- Speed range: 1,000-6,000 min⁻¹ (GEA Grasso SH)
1,000-4,500 min⁻¹ (GEA Grasso M)
1,500-3,600 min⁻¹ (GEA Grasso LT)



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