

12-stage compressor

- Variable inlet guide vanes and two stages of fast-acting variable pitch guide vanes (VGV) for improved part load efficiency and high load transients
- Third generation harmonized compressor
- High efficiency due to evolutionary 3D blading
- All rotating blades replaceable without rotor lift/rotor de-stacking

Bearings

- Hydraulic Clearance Optimization (HCO) for reduced degradation and clearance losses

Single tie bolt rotor

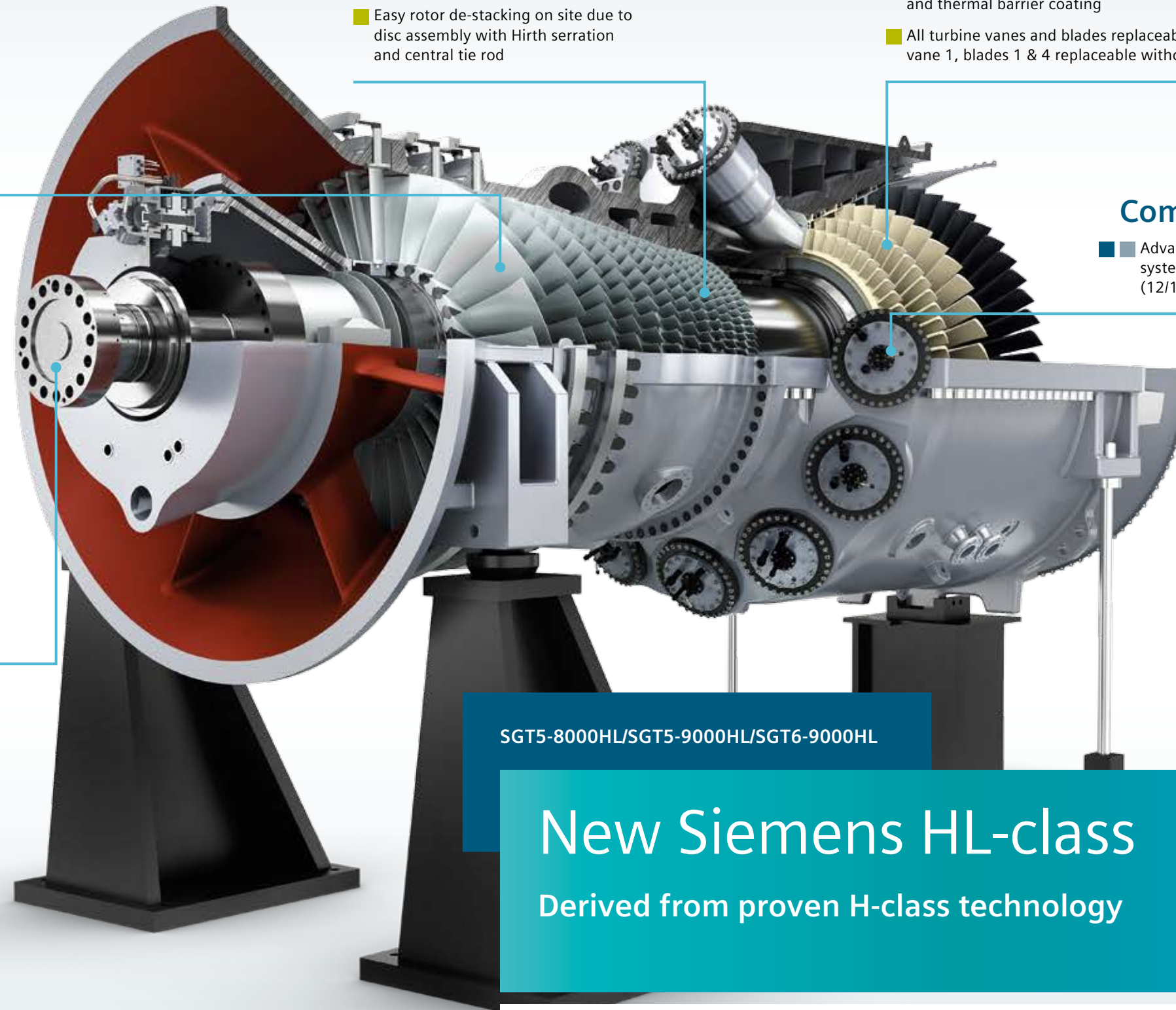
- Proven rotor design with internal cooling air passages for fast (cold) start & hot restart capability
- Rotor air cooler allows use of proven steel disc design
- Easy rotor de-stacking on site due to disc assembly with Hirth serration and central tie rod

4-stage turbine

- High cycling capability due to fully internal air-cooled turbine section
- Super-efficient internal cooling features for blades and vanes
- 3D four-stage turbine with advanced materials and thermal barrier coating
- All turbine vanes and blades replaceable without rotor lift; vane 1, blades 1 & 4 replaceable without cover lift

Combustion

- Advanced can annular combustion system with dual-fuel capabilities (12/16 combustors)



SGT5-8000HL/SGT5-9000HL/SGT6-9000HL

New Siemens HL-class
Derived from proven H-class technology

>63% combined cycle efficiency