

## Turbine

- High cycling capability due to fully air-cooled hot gas path without cooling air coolers
- ■ Four stages with film cooling and thermal barrier coatings: Well-balanced turbine load optimizes life-cycle costs

## Rotor

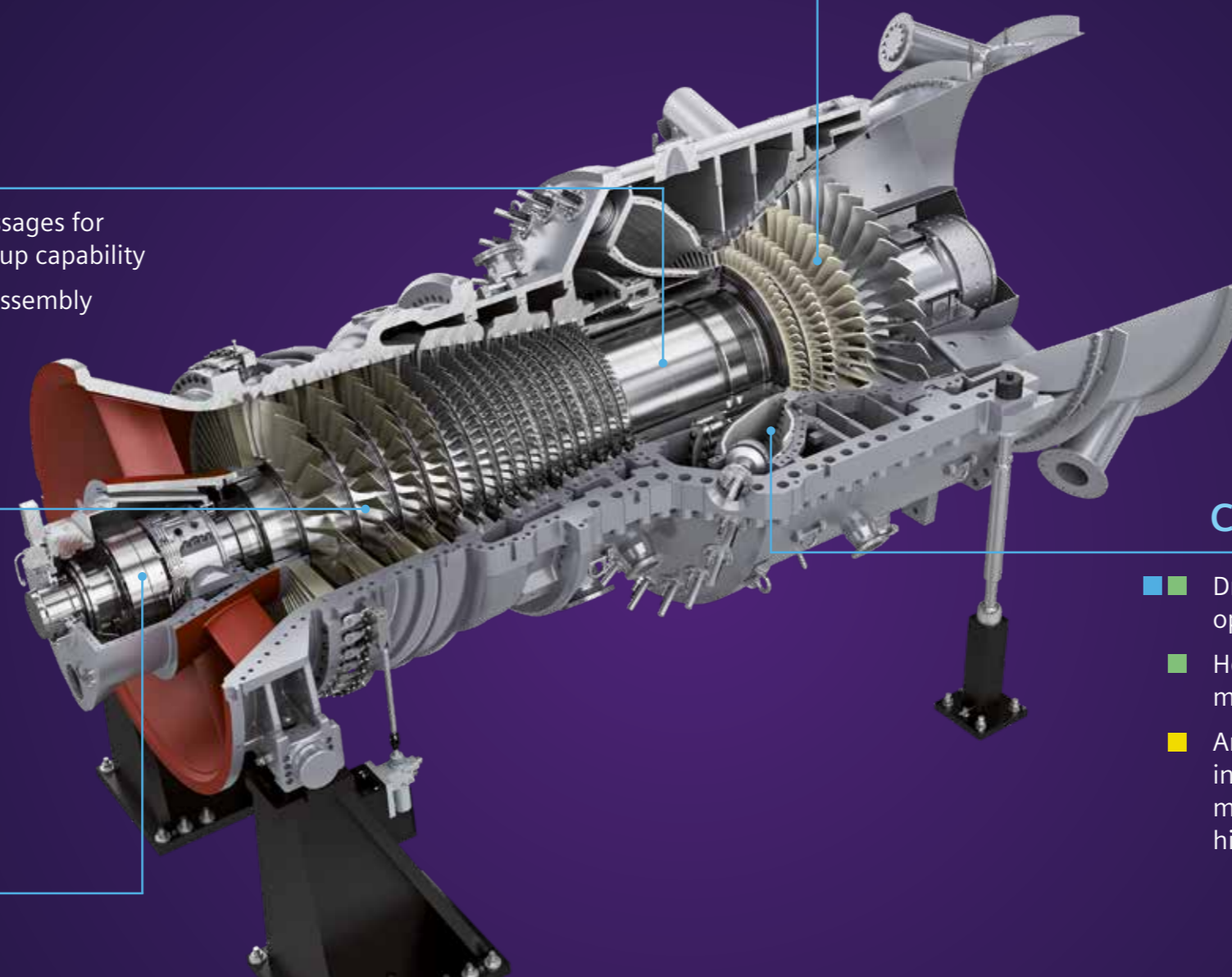
- ■ Robust design with internal cooling air passages for trusted long term operation and fast start-up capability
- Easy rotor de-stacking on site due to disc assembly with Hirth serration and central tie rod

## Compressor

- Proven 15-stage compressor: Fast cycling capability through fast acting inlet guide vane
- All rotating compressor blades replaceable without rotor lift or rotor de-stacking

## Bearings

- ■ Hydraulic Clearance Optimization (HCO) improves performance and minimizes degradation by active control of clearances at start-up and shut down



## Combustion

- ■ Dry-Low-NO<sub>x</sub> hybrid burners, for low emission operation with gaseous and liquid fuels
- Homogeneous combustor outlet profile for minimized mechanical and thermal turbine stress
- Annular walk-in combustion chamber with individually replaceable heat shields for easy maintenance and short outages, resulting in highest availability

30%

Hydrogen  
capable  
gas turbine



# SGT5-4000F gas turbine

Trusted technology, achieved with permanent development



■ Flexibility ■ Performance ■ Serviceability