

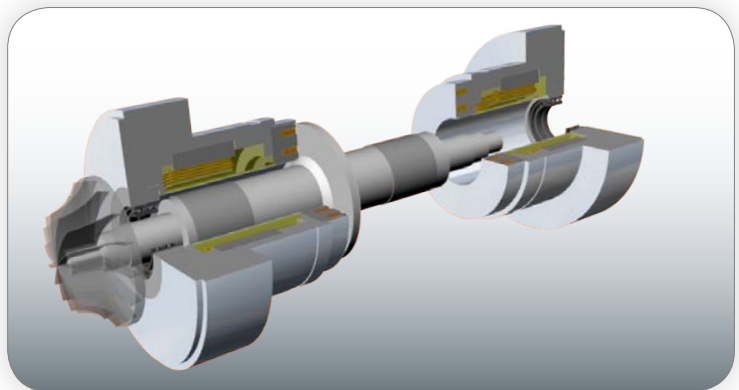


TURBOEXPANDERS FOR SOUR GAS APPLICATIONS

New oil and gas reserves are sourer with H₂S and CO₂. These contents are increasingly present in processed gas. The technology shown below, is S2M's response to the need to deal with sour gas. Magnetic bearings are isolated from the gas by a stainless can which is designed according to NACE* guidelines to resist to stress corrosion crackings.



This cartridge supplied by S2M, includes the stator parts of the radial bearing and $\frac{1}{2}$ axial bearing. It is ready to be assembled in the machine.



Overview of the assembly: 1 shaft + 2 cartridges

GE Rotoflow machine equipped with the first NACE compliant S2M bearings is in operation since December 2007 in sour gas environment (Qatar).



Advantages :

- No additional equipment (separation seals, sweet gas at high pressure and flow rate)
- Full canned, corrosion proof design
- NACE MR075 compliant
- Qualified for operation in sour gas (H₂S)
- Oil free

Shaft diameter : 200 and 240 mm (or more)

Speed range : 6,900 to 14,000 rpm

Temperature range : -20°C to +90°C

Pressure : up to 150 bars

H₂S partial pressure : up to 100 kPa

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*NACE : National Association of Corrosion Engineers