



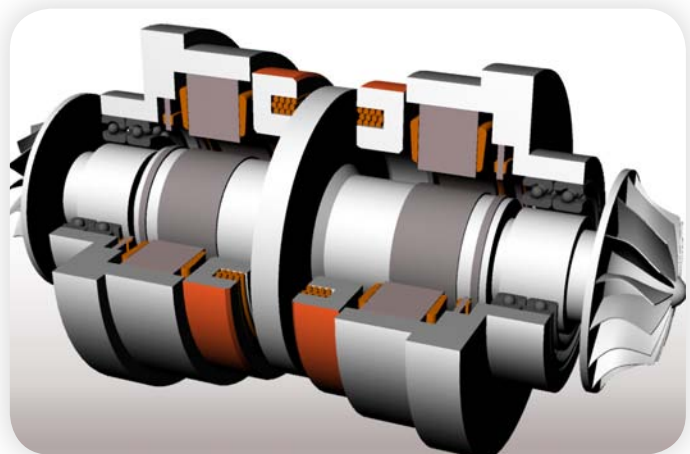
TURBOEXPANDERS

This high speed, single shaft, turbomachine is characterized by its 2 overhung wheels and its sealless design.

The S2M solution : 2 symmetrical cartridges, on each side of the thrust disk (which is located in the middle of the shaft).



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



Overview of the assembly : 1 shaft + 2 cartridges

Advantages :

- Immediate start (no pre-heating)
- Withstanding strong axial loads
- Vibration free operation
- Built-in monitoring
- Corrosion proof design (optional)
- Oil free



Example of a GE Rotoflow machine equipped with S2M bearings, operated since 1996 on the Total N'Kossa site (Africa)

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Shaft diameter : 70 mm to 310 mm (or more)

Speed range : 6 900 rpm to 50 000 rpm