

# ROBUST S5 STATOR VANE FOR THE 6F/7F/9F GAS TURBINES FLARED COMPRESSORS



*Applicable to F-class Flared .03 and .04 Compressors*

The S5 vane for flared F-class compressors has been redesigned to increase robustness. The design was fully validated via instrumented unit test. The robust S5 builds upon the enhanced S5 as it also incorporates the vane base load dams. The robust S5 will be incorporated into Enhanced Compressor Packages 2+, 3, 4, and 5 in 2020 (6F/7F) and early 2021 (9F). The robust S5 will only be available as a full stage S5 replacement option for existing enhanced compressor installations.



## S5 Evolution

	Standard S5	Enhanced S5	Robust S5
Load Dam Pins		✓	✓
Shot Peening	Root	Full Airfoil	Full Airfoil
Shim-Less Design		✓	✓
Airfoil Modification			✓
Squealer Tip			✓

## Robust S5

**Airfoil modified to provide additional robustness**

- Improved damage tolerance to corrosion pits/foreign object damage/rubs/compressor surge
- Squealer tip provides improved rub tolerance
- Ideal for units operating in corrosive environments



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