

- 1st stage nozzle
- 2nd stage nozzle
- 3rd stage nozzle

Nozzles Equivalent to GE MS6001FA+e

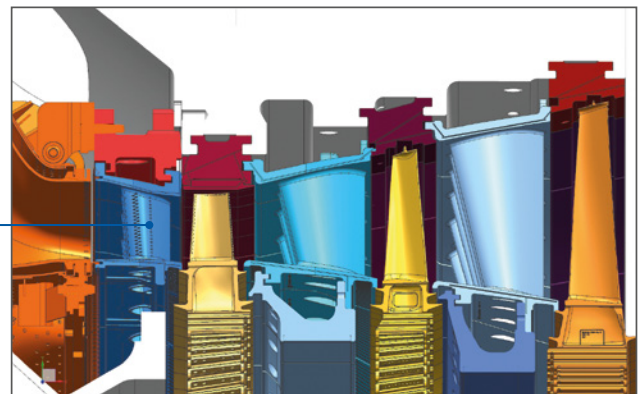
Sulzer provides design and manufacturing of new gas turbine components in both hot and cold sections. We focus on lifetime extension and performance improvement of your equipment. We have unique insight into designing a high quality product that is compatible and interchangeable with the original equipment. All nozzle kits include installation hardware suitable for installation in PG6101FA and PG6111FA gas turbines.

1st stage nozzle

The first stage nozzle is manufactured through an investment casting process using the advanced cobalt-based super alloy FSX-414. The first stage nozzle features fan shape and cylindrical cooling holes, side wall cooling and internal impingement cooling. The nozzle is coated with a MCrAlY and Thermal Bar-

rier Coating (TBC) to prevent the base material from overheating and to reduce thermal gradients along the hot gas path. This coating will further reduce effects of thermal cycle fatigue and produces a lifetime extension resulting in improved durability.

Nozzle stage 1	
Firing temp.	Up to 1,327°C (2,420°F)
Design	Two-vane segment
Cooling	Airfoil film cooling holes Side-wall cooling Internal impingement cooling
Material	FSX-414
Coating	TBC
Sealing	Cloth seals
Auxiliaries	Locking hardware included

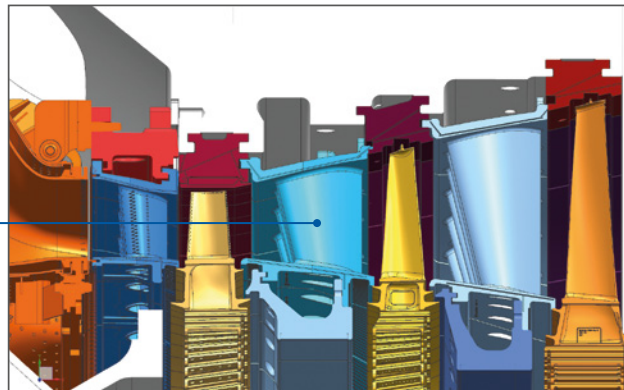


2nd stage nozzle

The second stage nozzle is manufactured through an investment casting process using the advanced nickel-based super alloy EEQ-220, which

has similar mechanical properties to GTD-222™. The second stage nozzle features optimized trailing edge cooling holes and internal impingement cooling.

Nozzle stage 2	
Firing temp.	Up to 1,327°C (2,420°F)
Design	Two-vane segment
Cooling	Trailing edge cooling hole Internal impingement cooling
Material	EEQ-220
Coating	Aluminum diffusion coating
Sealing	Cloth seals
Auxiliaries	Locking hardware included

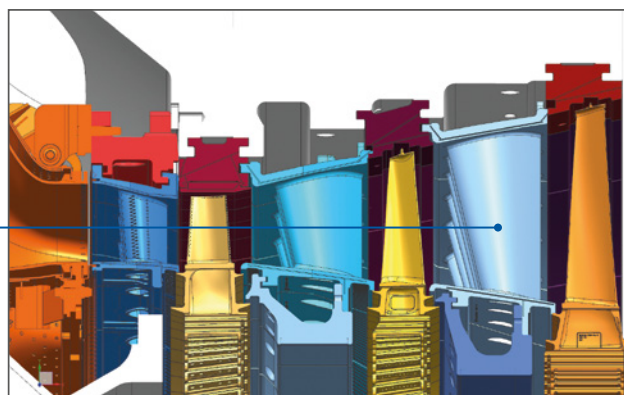


3rd stage nozzle

The third stage nozzle is manufactured through an investment casting process using the advanced nickel-based super alloy EEQ-220, which has similar me-

chanical properties to GTD-222™. The third stage nozzle is supplied without protective coatings.

Nozzle stage 3	
Firing temp.	Up to 1,327°C (2,420°F)
Design	Three-vane segment
Cooling	Convective cavity cooling Shroud impingement cooling
Material	EEQ-220
Sealing	Cloth seals
Auxiliaries	Locking hardware included



About Sulzer

Sulzer provides cutting-edge services and solutions for rotating equipment dedicated to improving customers' processes and business performances. When pumps, turbines, compressors, generators, and motors are essential to operations, customers need a service partner they can trust. With our technically advanced and innovative solutions, we give our customers the assurance they need to focus on their operations. Customized solutions help to reduce maintenance time and cost. Our partners' business demands are ever increasing and changing but they can rely on our experts to provide the optimal solution to improve operational efficiency and reliability. We provide high-quality services at competitive prices and delivery times.



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