



- 1st stage blade
- 2nd stage blade
- 3rd stage blade
- 4th stage blade

Blades Equivalent to Siemens V94.2 / SGT5-2000E and V84.2 / SGT6-2000E

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 blade kits include installation hardware suitable for installation in Siemens V94.2 / SGT5-2000E and V84.2 / SGT6-2000E gas turbines.

1st stage blade

The first stage blade is manufactured through an investment casting process using the nickel-based super alloy Inconel 738LC. Depending on the component version (3, 4, 5, 6, or 7), different coatings and coating systems are applied. Sulzer applies a MCrAlY coating to the airfoil using Low Pressure Plasma Spray (LPPS). The coating has superior oxidation and corrosion resistance for base load as well as peak load applications due to its aluminum enriched composition. The internal surface has an aluminum diffusion coating to improve resistance against intergranular attack. The application of a Thermal Barrier Coating (TBC) on the airfoil surface produces a lifetime extension resulting in improved durability.

2nd stage blade

The second stage blade is also manufactured through investment casting.

The base material for the second stage blade is identical to the first stage blade, Inconel 738LC. The second stage blade features 12 cooling holes. Depending on the version, a LPPS MCrAlY is applied to the external surface to optimize corrosion and oxidation resistance.

3rd stage blade

The third stage blade is manufactured through investment casting using the base material Inconel 738LC. Similar to the second stage blade, the airfoil surface can be coated with a MCrAlY coating to optimize corrosion and oxidation resistance.

4th stage blade

The fourth stage blade is manufactured through investment casting using the base material Inconel 792 which has superior mechanical properties.



Blade stage 1	
Firing temp.	Up to 1,075°C (1,967°F)
Design	Version 3, 4, 5, 6, or 7
Cooling	Thin walled component
Material	Inconel 738LC
Coating	External MCrAlY coating External Thermal Barrier Coating Internal Aluminum Diffusion Coating
Sealing	Seal wires and strips
Auxiliaries	Locking hardware included

Blade stage 2	
Firing temp.	Up to 1,075°C (1,967°F)
Design	Version 3, 4, 5, 6, or 7
Cooling	12 cooling holes
Material	Inconel 738LC
Coating	External MCrAlY coating
Sealing	Seal wires and strips
Auxiliaries	Locking hardware included

Blade stage 3	
Firing temp.	Up to 1,075°C (1,967°F)
Design	Version 3, 4, 5, 6, or 7
Material	Inconel 738 LC
Coating	External MCrAlY coating
Sealing	Seal wires and strips
Auxiliaries	Locking hardware included

Blade stage 4	
Firing temp.	Up to 1,075°C (1,967°F)
Design	Version 3, 4, 5, 6, or 7
Material	Inconel 792
Sealing	Seal wires and strips
Auxiliaries	Locking hardware included

Services:

- Component refurbishment
- Lifetime extension
- Field service
- New parts manufacturing
- Training programs
- Rotor overhaul and refurbishment
- Long term service agreements
- Condition monitoring
- Turbine controls
- Engineering support

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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