

# Blades equivalent to Siemens V94.2 / SGT5-2000E version 3, 4, 5, and 6

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 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, or 6), different coatings and coating systems are applied. Sulzer applies a MCrAlY coating to the airfoil. 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 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	
<b>Firing temperature</b>	Up to 1'075°C (1'967°F)
<b>Design</b>	Version 3, 4, 5, or 6
<b>Cooling</b>	Thin walled component
<b>Material</b>	Inconel 738LC
<b>Coating</b>	External MCrAlY coating External thermal barrier coating Internal aluminum diffusion coating
<b>Sealing</b>	Seal wires and strips
<b>Auxiliaries</b>	Locking hardware included

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

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

Blade stage 4	
<b>Firing temperature</b>	Up to 1'075°C (1'967°F)
<b>Design</b>	Version 3, 4, 5, or 6
<b>Material</b>	Inconel 792
<b>Sealing</b>	Seal wires and strips
<b>Auxiliaries</b>	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



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