

# New parts manufacturing equivalent to Siemens V94.2 / SGT5-2000E

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. By using the latest available design and repair technology, we are able to supply components of highest quality and often with improvements over the original. We provide better components at lower cost.

## New parts manufacturing

The manufacture of new parts equivalent to Siemens V94.2 / SGT5-2000E components can be divided into three main areas:

- Capital parts
- Combustion components
- Consumables

For version 3, 4, 5, 6, and 7 we can supply all components. Consequently, the turbine can be operated either at an elevated turbine inlet temperature of 1'075°C (1'967°F) or at an extended maintenance interval of 41,000 EOH.

## Capital parts

The capital parts have always been regarded as the highest risk components to manufacture. At Sulzer, the whole design and manufacturing process is reviewed with our partners to supply components which are equivalent and often superior to the originals.

The capital parts supplied for Siemens V94.2 / SGT5-2000E gas turbines are:

- Compressor blades
- Compressor vanes
- Inlet guide vanes
- Turbine diaphragms
- Turbine blades
- Turbine vanes



## Combustion components

Combustion components are mainly produced from thick sheet metal. The production process is highly specialized and complex due to the critical fitting tolerances. The ability to manufacture to the required quality is vital if the component is to fit without any on-site modifications. The use of fitting jigs and preforms is integral to the manufacturing process.

The new combustion components supplied for Siemens V94.2 / SGT5-2000E gas turbines are:

- Hot gas casings
- K-rings
- Mixing chambers including cooling rings and castellation rings
- Flame tubes
- Ceramic tiles
- Tile holders
- Upper and lower burner plates
- Diagonal swirlers
- H-burner
- Burner inserts

## Compressor bearing

The compressor bearing is a Sulzer redesign that offers a maximum axial load bearing capacity of 30 tons as compared to 20 tons of the conventional design.

## Consumables

For the maintenance of any turbine, the fitting of consumables is equally important as the high-value capital parts like blades and vanes. At Sulzer, we therefore devote the same level of care and attention with these components as with the manufacture of any other parts.

## Siemens equivalent

	Blades	Vanes	Compressor	Consumables	Combustion	Remarks
V94.2 / SGT5-2000E	✓	✓	✓	✓	✓	Version 3, 4, 5, 6, and 7

## 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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