

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

New parts manufacturing

The manufacture of new parts equivalent to GE MS6001FA+e components suitable for installation into PG6101FA (6FA/6FA.01) and PG6111FA (6FA+e/6FA.03) gas turbines can be divided into three main areas:

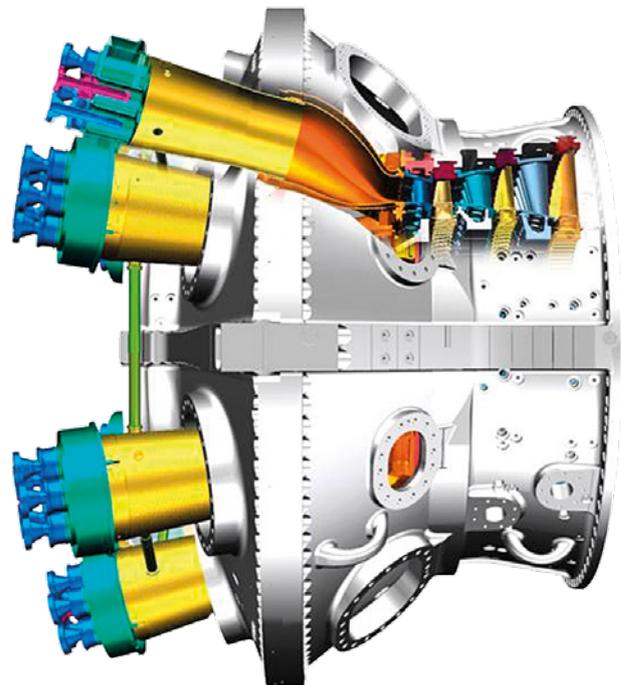
- Capital parts
- Combustion components
- Consumables

Capital parts

The capital parts have always been regarded as the highest risk components. At Sulzer, the whole design and manufacturing process is reviewed with our customers in order to supply tailor-made components to meet and suit customer specific requirements.

The capital parts supplied for GE MS6001FA+e gas turbines are:

- Compressor blades
- Compressor vanes
- Inlet guide vanes
- Turbine diaphragms
- Turbine shroud blocks
- Turbine buckets
- Turbine nozzles
- Thrust bearings



Combustion components

Combustion components are mainly fabricated from thin 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 with no on-site modifications. The use of fitting jigs and preforms is integral to the manufacturing process.

The new combustion components supplied for GE MS6001FA+e gas turbines are:

- Combustion liners
- Cross fire tubes
- Cross fire tube retainers
- Transition pieces
- Fuel nozzles
- Flow sleeves
- Bull horns

Consumables

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



GE equivalent

	Buckets	Nozzles	Shrouds	Combustion	Compressor	Consumables	Remarks
MS6001 FA+e	✓	✓	✓	✓	✓	✓	Firing temperature up to 1'327°C (2'420°F)

Interchangeability

MS 6001 FA+e interchangeability parts for use in MS6001FA		
1st stage buckets	✓	1
2nd stage buckets	✓	
3rd stage buckets	✓	
1st stage nozzles	✓	2
2nd stage nozzles	✓	
3rd stage nozzles	✓	
1st stage shrouds	✓	
2nd stage shrouds	✓	
3rd stage shrouds	✓	3

- 1 Thrust bearing upgrade required
- 2 Modification of part required to suit 6FA conditions
- 3 Casing machining required

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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