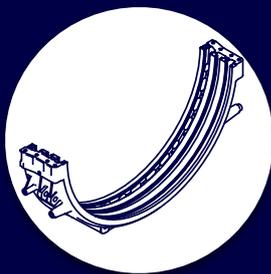
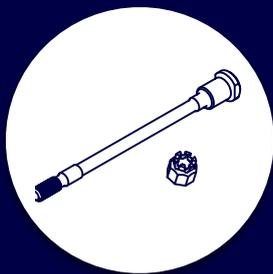
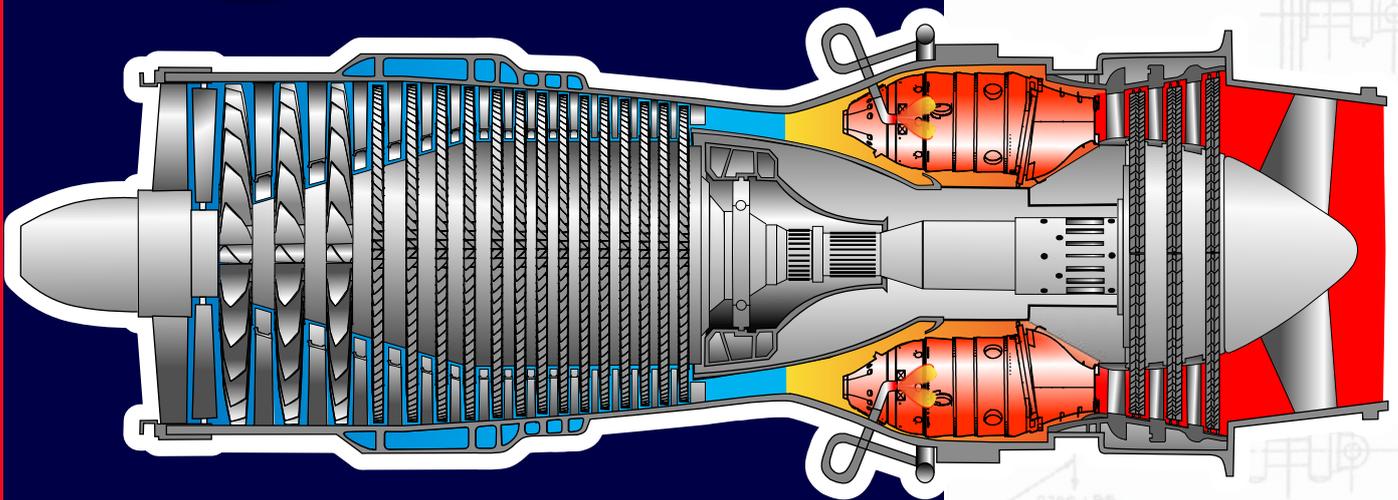
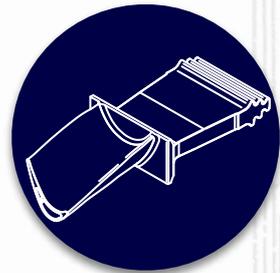
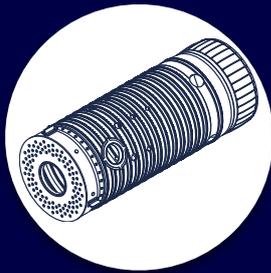
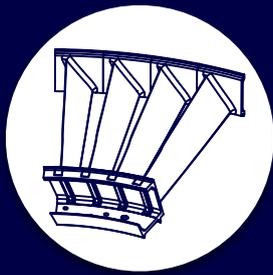


MANUFACTURING CAPABILITIES

Special Parts



2125 LBS
LIFTING BEAM



Special Parts

"Connecting You to the Engineering and Manufacturing Industry"

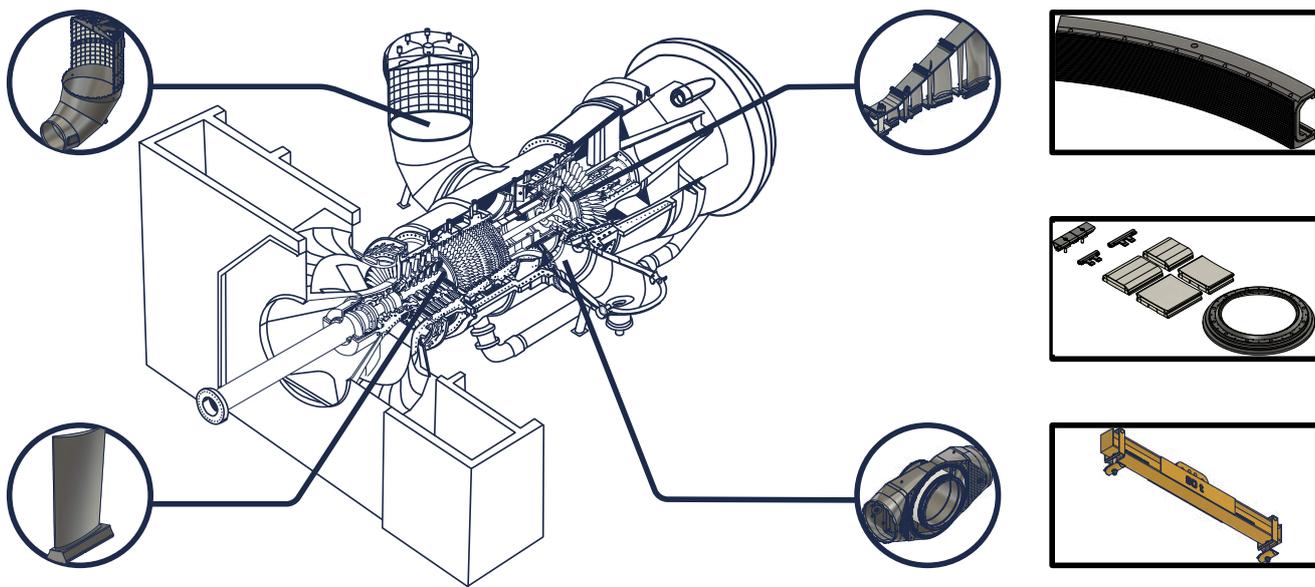


- Special Parts have been established by an international pool of passionate people with different backgrounds in the Oil&Gas and PowerGen Sectors.
- The merging of their knowledge and experience in Heavy Industrial and Aero Derivative turbines and parts manufacturing allows the company to offer a wide variety of components directly from the factories.
- Its know-how, gained in the work experiences in the energy production field, together with the experience of a team of highly motivated people allow the company to be a powerful asset for its customers around the world.
- Special Parts is committed to excel in quality during all the engineering and manufacturing phases.
- Customers are entitled to check manufacturing drawings & specification, assist with the production of their parts and to receive a comprehensive technical report along with the parts.
- A vast range of capital and ancillary parts compatible with GE, Siemens, and RR Gas Turbines have already been developed by SP and are ready to be produced at customer's orders.



Special Parts

"Manufacturing and Procurement Made Easy"



Turbine Blades and Vanes

Hot gas path blades and vanes are among the most expensive and difficult to produce spare parts of the turbine. Quality and delivery schedule along with cost, are the most important parameters to be taken in account during the Purchase process.

Special Parts' direct contact with Western European Foundries, Machining Shops and Coating Shops allow a direct supervision of all the stages of the manufacturing process and Quality Control. Parts are produced in Equiax. or DS starting from superalloy such as: Inconel 738/939, GTD111 Alloy 247, FSX 414, N 155.

| | | | | | |
|--|---|--|---|---|--|
| <p>AVION HP Blade Part number: SP-MS900 Material: In 738C Heat Treatment: Solution Anneal and HP Coating: Cold barium oxide and Spherulite 2 coating Parts per set: 10 Blades</p> <p>AVION HP Nozzle Equip. AVON Number: Several PN are available Material: In 738C Heat Treatment: Solution and Aging Coating: Spherulite 2 coating Parts per set: 10 Nozzle Airfoils</p> <p>AVION LP Blade Equip. AVON Number: Several PN are available Material: Inconel 738C Heat Treatment: Solution and Aging Coating: Cold barium oxide and Spherulite 2 coating Parts per set: 10 Blades</p> <p>AVION LP Nozzle Equip. AVON Number: Several PN are available Material: Inconel 738C Heat Treatment: Solution and Aging Coating: Spherulite 2 coating Parts per set: 10 Nozzle Airfoils</p> | <p>MS900E 01 (Outside for P1091) SP Part number: MS900E 01 Material: Inconel 738C Coating: Inert Parts per set: 10</p> <p>MS900E 02 (Outside for P1091) SP Part number: MS900E 02 Material: Inconel 738C Coating: Inert Parts per set: 10</p> | <p>VN4.2 First Stage Blade Part number: SP-VN42-0-B-0 Base Material: Enhanced Ni Material Condition: Solution Weight Approx: 40g Overall Dimension: Approx. Coating Applied: MCOAT 71 Parts per Engine: 88 Blades</p> | <p>MS900D Second Part number: SP-MS900 Base Material: In 738 Material Condition: Solution Weight Approx: 40g Overall Dimension: Approx. Coating Applied: MCOAT 71 Parts per Engine: 88</p> | <p>MS900D 01 Part number: SP-MS900D 01 Base Material: Inconel 738C Material Condition: Solution Weight Approx: 40g Overall Dimension: Approx. Coating Applied: MCOAT 71 Parts per Engine: 88</p> | <p>MS900D First Stage Bucket Part number: SP-MS900D 01-B-B-B-B Base Material: Inconel 738C (Directional Solidification) Material Condition: Solution + HP Weight Approx: 40g Overall Dimension: Approx. 380mm x 150mm Coating Applied: Cold Barium Oxide Parts per Engine: 88</p> |
|--|---|--|---|---|--|



Combustion Chambers

Single hot gas section components such as Liners/Flame-Tubes, Transitions/Discharge Nozzles or complete combustion chambers are available. All combustion parts are manufactured with state of the art welding technologies from metal sheets. Materials include, among others, Inconel, Nimonic, Hastelloy X, Stellite. The coating is applied with state of the art processes such as HVOF and Plasma Spray, to ensure surface resistance and insulation. Consumable parts as ceramic tiles, tile holders and accessories are available as well.

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| <p>MS6001B Transition Piece Part: MS6001B Base Material: Hastelloy X Weight: 24kg Heat Treatment: Solution and Aging Coating: TBC-Hard Coating (Depends on the Parts per set: 10 Standard)</p> | <p>V4.2 V4.5 Flame Tube Assem Part: V4.2 Base Material: Inconel 718 Weight: 100kg Heat Treatment: Solution and Aging Coating: TBC-Hard Coating (Depends on the Parts per Engine: 2 Flame Tubes Assembled)</p> | <p>MS6001B Transition Piece Part: MS6001B Base Material: Hastelloy X Weight: 24kg Heat Treatment: Solution and Aging Coating: TBC-Hard Coating (Depends on the Parts per set: 10 Standard)</p> | <p>MS6001B Cap & Liner Part: MS6001B Base Material: Hastelloy X Weight: 10kg Heat Treatment: Solution and Aging Coating: TBC-Hard Coating (Depends on the Parts per set: 10 Standard)</p> | <p>MS6001B Cap & Liner Part: MS6001B Base Material: Hastelloy X Weight: 10kg Heat Treatment: Solution and Aging Coating: TBC-Hard Coating (Depends on the Parts per set: 10 Standard)</p> | <p>RR AVON Flame Tubes Part: RR AVON Base Material: Inconel 718 and Alloy C262 Weight: 15kg Heat Treatment: Aging Coating: TBC and Hard Face Coating Parts per set: 10 & 8</p> |
|--|---|--|---|---|---|

Compressor Blades

Our expertise allows us to quickly manufacture complex shapes for all stages of Compressor Blades and Vanes with excellent quality and competitive cost. We provide blades and vanes using Forged and Machined, or Milled from bar depending on the complexity and suitability of the manufacturing process.

| | | | | | |
|---|---|--|--|---|---|
| <p>RR AVON OGV Stator C Part number: 0100100 Base Material: Inconel 718 Weight: 400g Coating Applied: COVAL3403 Parts per Engine: 1</p> | <p>RR AVON Stage 2 Rotor Part number: 0100100 Base Material: Aluminum 2014 Weight: 100g Coating Applied: COVAL3403 Parts per Engine: 55</p> | <p>RR AVON Stage 2 Stator Part number: 0100100 Base Material: Inconel 718 Weight: 400g Coating Applied: COVAL3403 Parts per Engine: 55</p> | <p>RR AVON Stage 10 Stator Part number: 0100100 Base Material: Inconel 718 Weight: 400g Coating Applied: COVAL3403 Parts per Engine: 1</p> | <p>RR AVON Stage 1 Stator Part number: 0100100 Base Material: Inconel 718 Weight: 400g Coating Applied: COVAL3403 Parts per Engine: 1</p> | <p>RR AVON Stage 0 Rotor Compressor Part number: 0100100 Base Material: Aluminum Weight: 100g Coating Applied: COVAL3403 Parts per Engine: 28</p> |
|---|---|--|--|---|---|

Ancillary Parts

Special Parts together with its Manufacturing Partners allow us to support all your requirements thanks to the extensive range of our products and services. For a broad selection of turbines, Special Parts can analyse the spare parts list and identify the best manufacturing source for each kind of component.



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