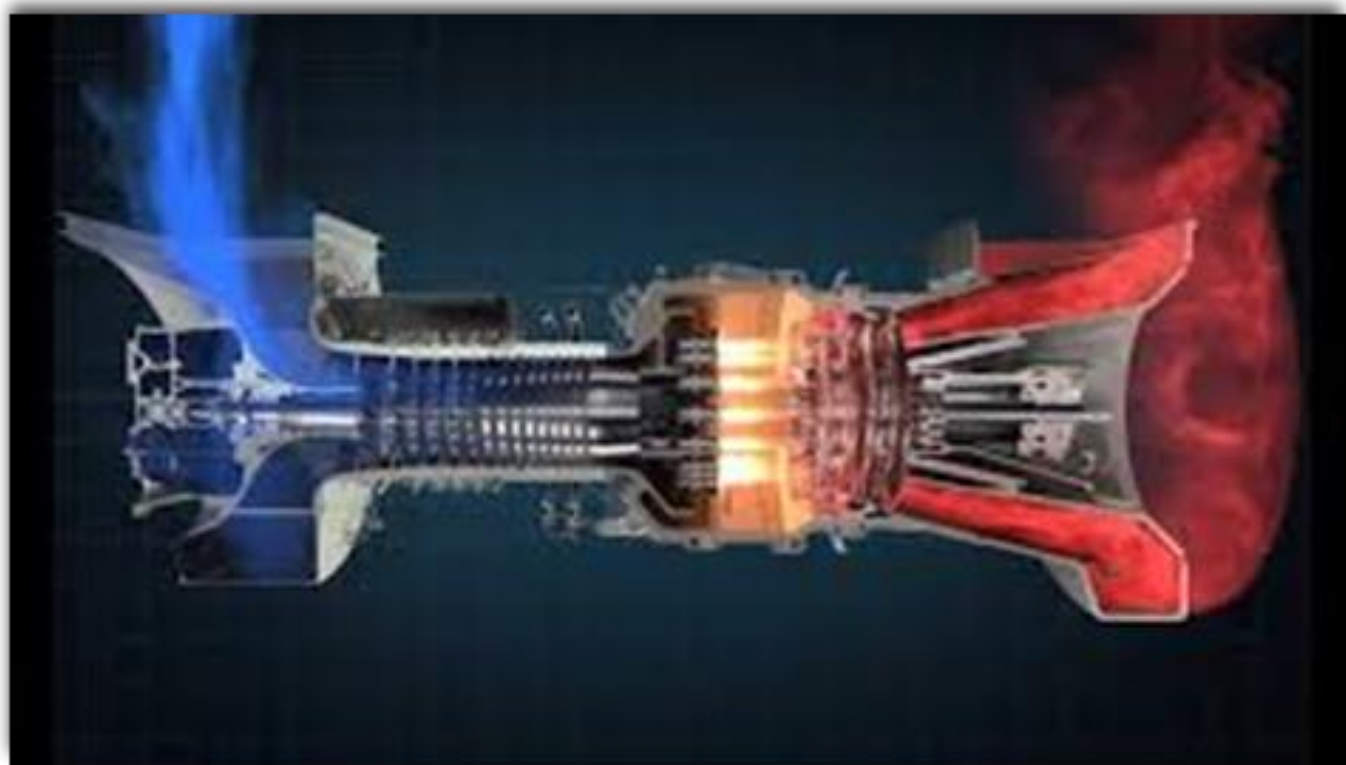


# PARS RAHA TURBINE

Technical engineering and Commercial Services



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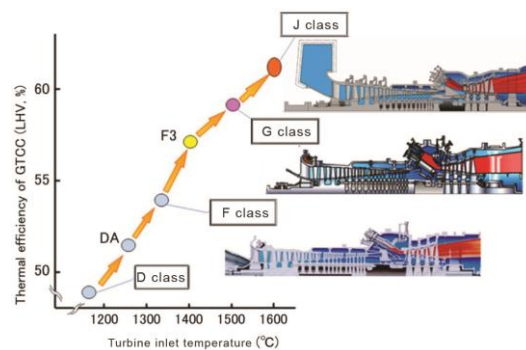
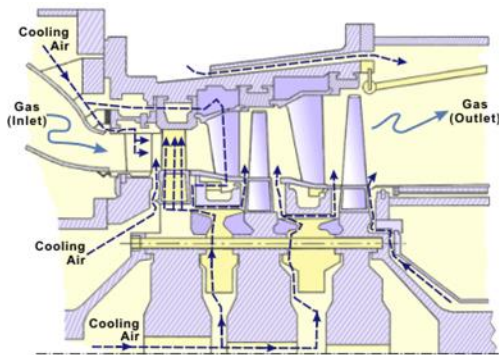
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Considering the increasing development of gas turbines both in terms of number and in terms of increasing power and efficiency in the field of electricity and energy production; oil, gas, petrochemical, and aerospace industry's need for supply services; Maintenance and repair of hot parts of this type of turbines is very important.



**Raha Turbine Pars Company;** It is proud to have more than 30 years the experience of its founder (**Mohammed Reza Khajeh** as the CEO of the company) in the field of refurbishment and manufacturing of hot gas turbines parts in the prestigious Shahriar Turbine Components Company as the vice president of engineering and also learning relevant training in reputable foreign companies including Sulzer Elbar, in the Netherlands; Siemens in the Germany; Saint Gobain SNMI in the France, as well as being familiar with and communicating with all activities related to power plants, petrochemicals, oil and gas and effective communication with companies and experts with experience and having an experienced team and having reliable supply sources is proud to be able to meet the requirements and provide Services to various industries took necessary and effective measures.

## Experiences:

- Graduated from Sharif University of Technology in the field of metallurgy
- Additional trainings in the field of heat treatment, welding and covering of turbine parts at university and institute level
- Comprehensive training and learning of the technical knowledge of hot gas turbines parts in Sulzer Elbar Company in the Netherlands in 3 phases under the project as transfer of technical know-how to repair hot gas turbine parts in the Ministry of Energy in Iran.



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- Training and passing the inspection course of turbine blade covers at Siemens,
  - Training and delivery of APS, HVOF and LPPS devices for covering turbine parts at SNMI Company under the French Saint Gobain group
  - Studying, selecting, purchasing, and equipping the workshop of Shahriar Turbine Parts Company under the contract of transfer of technical know-how to repair of hot gas turbine parts
  - Covering expert of Shahriar turbine parts production plant
  - Head of Shahriar Turbine Parts Repair Workshop
  - Expert in repairing parts projects of Shahriar Turbine Components Company
  - Quality control manager of Shahriar turbine Components Company
  - Quality Assurance Deputy of Shahriar Turbine Components Company
  - Deputy Engineer of Shahriar Turbine Components Company
  - Sufficient experience and skill in all manufacturing and refurbishment processes, including cleaning and coating; quality control and quality standards, welding and benching, including laser cladding, coating and diffusion coatings; Brazing and heat treatment, etc
  - Experiences of more than 8000 orders of various types of gas turbines, including the following:
    - GE MS5001/MS5002/MS6001/MS9001
    - SIEMENS V94.2/V93
    - MHI 701B/D
    - Westinghouse W101/W191/W251
    - BBC 9/11/13
    - Alstom GT11N2
    - Hitachi H25
    - SIEMENS SGT 100-700
    - GEC/WERKSPOOR/UGT16000



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- Repair of combustion chambers Flame Tube, Inner casing, Mixing Chamber of V94.2
  - Repair of turbine blades with DS structure
  - Studying and compiling technical knowledge of hot parts of F Class turbines and hot parts of aviation turbines and blades with SX structure
  - Studying the design and manufacturing of turbine blades, including GEF5, V94.2



### Services that can be provided:

#### Refurbishment:

- Management and execution of all hot gas turbine parts

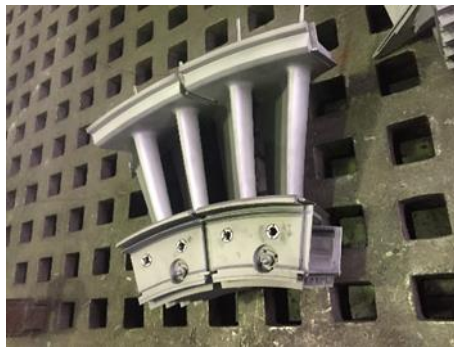


- Designing and compiling the technical knowledge of repairing of hot gas turbine parts
- Consulting, control and supervision of the quality of all refurbishment activities
- Equipment consultation, training and full implementation of the repair line

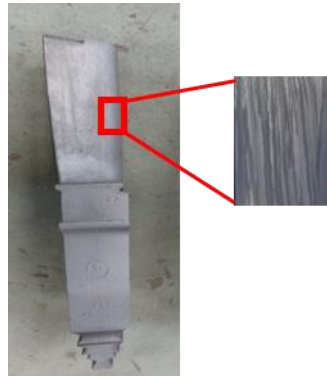
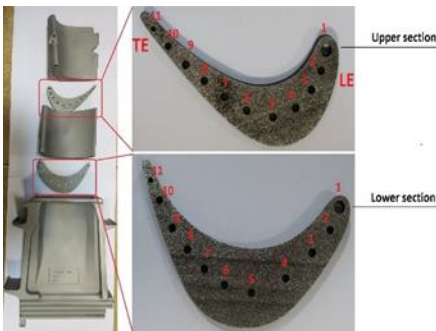




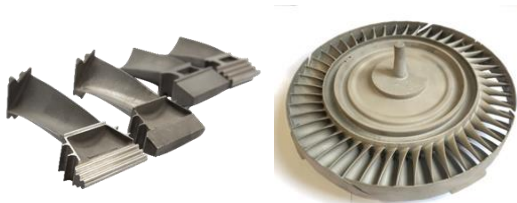
- Consultation; Equipped, Training and full implementation of Repair processes such as quality control, cleaning; welding and benching, coating, brazing and heat treatment and etc.



- Life assessment and failure analysis of hot gas turbine parts

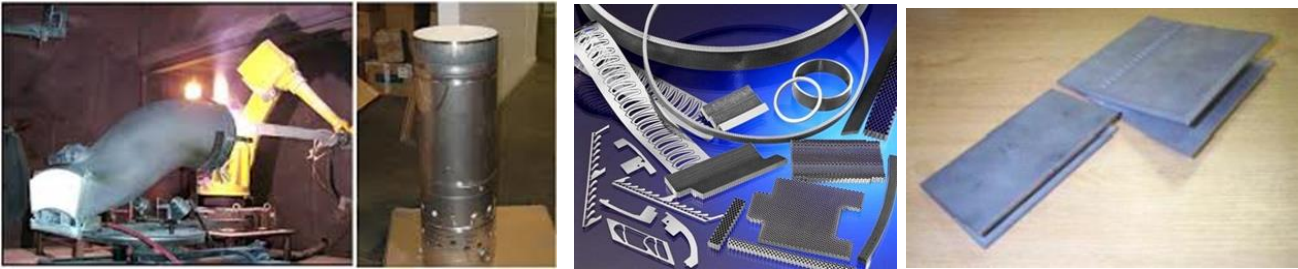


-Management, designing and compiling the technical knowledge of manufacturing of all turbine spare parts, especially the hot parts of gas turbines





- Consulting, quality control and supervision of manufacturing and delivery of parts
- Providing and supplying of Equipment, parts, spare parts and consumable materials



- Laser cladding system



- Thermocouples, instrumentation, and control and measurement instrument for units





-Types of new and used high power and low power turbines



-Installation; Implementation of small and renewable power plants such as solar

-On-site repairs without opening the turbine

