



PSM provides an extensive portfolio of field service, repair capabilities, reliable components, and innovative upgrades.

6F Products Portfolio

Full Comprehensive Solutions for the 6F Portfolio

PSM delivers an all-encompassing, integrated solution incorporating the engineering prowess and innovative services of independent service provider Thomassen Energy. Our broad services encompass field support, repair services, spare parts supply, state-of-the-art upgrades, training modules, and long-term service agreements. We are committed to serving the global energy sector, supporting various power generation equipment.



CROSS SECTION VIEW. LEC-III™ IS NOW AVAILABLE ON MOST ENGINE MODELS.

Our products are designed to enhance durability, ensure high performance, and minimize life cycle costs. This is made possible by PSM's sophisticated component and system-level modeling and data analytics tools, which enable us to pinpoint problems, identify failure modes, and highlight opportunities for enhancement.

Advancing Maintenance and Operations for Your 6F Unit

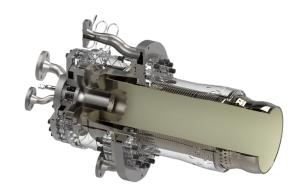
Our core mission is to lead the advancement of technological solutions, supplemented by an extensive array of services. These are tailored to assist gas turbine owners and operators in lowering lifecycle costs and boosting the efficiency of their turbines and facilities. As your trusted partner, our service teams offer extensive expertise and years of hands-on experience. We perpetually strive for better methods to help you meet your goals, blending a flexible, entrepreneurial mindset with a diverse team of engineers. This collaboration has led to unique equipment solutions, upgrade alternatives, and patented innovations that have improved the reliability and performance of power plants globally.

- + Upgrades for improved performance and operational flexibility, including AutoTune and FlameSheet™, proven on the 7F and 9Fplatforms, which can be applied to the 6F for enlarged load range, reduced emissions, and vastly increased fuel flexibility.
- + Rotor Lifetime Extension (LTE) assessments and recommendations to extend
- the useful lifetime of rotors past their published end of life, reducing lifecycle costs to help 6F users operate their plants more profitably.
- + DLN2.6 new make combustion hardware and repair upgrades that eliminate known fleet issues to ensure reliable 24,000 FH / 900 FS combustion inspection intervals, reducing unplanned maintenance costs.
- + A global repair network offering innovative repairs that can return heavily damaged components to service, maximizing the return on investment in those assets.
- + A proven global field service network with consistent on-time deliveries and high customer satisfaction and safety ratings.

We work collaboratively with our customers to identify targeted solutions that address their unique requirements. We strive to be our customer's preferred partner for service and innovation.

Superior Turndown, Fuel Flexibility, and Emissions Capability

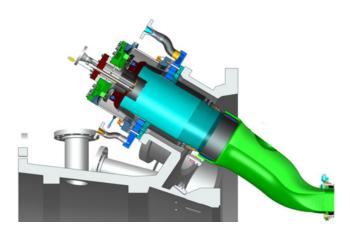
Future-Proof your engine today! FlameSheet[™] is the ultimate combustor solution to meet new operational needs. As the power generation market faces challenges from renewable energy penetration, low natural gas prices from fracking, and dynamic financial market changes, users must reevaluate their fleets to stay relevant. FlameSheet[™] provides unparalleled flexibility, preparing your engine for both current operational demands and the future hydrogen economy.



CROSS SECTION VIEW, FLAMESHEET™ IS NOW AVAILABLE ON MOST ENGINE MODELS



- + Up to a 30% increase in GT operating load range with single digit NOx and CO
- + Optional low-load HRSG protection setting
- + Superior Fuel Flexibility:
 - » 30% Modified Wobbe Index
 - » Ideally suited for alternate fuel operation, including hydrogen, ethane, and propane
 - + Up to 40-80% Hydrogen blend*
 - + Up to 40% Ethanes (C2)
 - + Up to 10% Butanes (C4-C6)
 - + Up to 20% Propane (C3)
 - » PSM is progressing towards 100% Hydrogen capability!
- + NOx as low as 5ppm
- + Peaking power at constant NOx emissions
- + Dual fuel capable
- + Inspection intervals up to 32K hours / 1,250 starts
- + Compatible with existing GT controllers and fuel skids
- + Turndown as low as 26% (even lower with Exhaust Bleed!)



FlameSheet™ = TWO Combustors in ONE

FlameSheet™ employs a simple, two-stage radially-inflow "combustor-within-a-combustor" concept, allowing staged operation at various load conditions. At high loads, both combustors are used, with the outer combustor flame structure forming an annular "sheet of flame" around the inner combustor. At low loads, the outer combustor is predominantly used. Leveraging trapped vortex stabilization aerodynamics, the outer combustor operates with excellent stability and remains sufficiently hot at very low loads to consume CO (which typically limits low-load operation).the outer combustor operates with excellent stability and remains sufficiently hot at very low loads to consume CO (CO typically limits low load



Rotor Management Solutions

Capitalizing on a portfolio of rotor and blading design upgrades, along with full 3D steady-state and transient analysis models, PSM offers a comprehensive exchange rotor service. With a PSM Lifetime Extension (LTE) rotor, you can minimize downtime and optimize your capital investment.

Capabilities

- + Unstack and deblade
- + Reblade and tip grind new blades
- + R0 retention plug modification
- + Compressor clocking optimization
- + Patch ring repairs
- + Complete rotor structural analysis to support repairs
- + Proprietary design flared and unflared compressor blading with reliability improvements
- + Seed rotor to support rotor exchange program



Rotor Scope Comparison - Go Beyond Typical Repair for Understanding Risk of Continued Operation

Advanced NDE Assessment

+ Full metallurgical and surface inspection

Lifetime *Extension*

- + Tailored programs based on frame-specific full transient structural analysis
- + Evaluation of component assessment findings with analytical models
- + Comprehensive analysis to define re-work of findings to enable extended operation
- + Lifetime Extension Recommendation
- + Currently available for 7F, 501F, 7E, 6B

Activity		Standard Rotor Repair	Advanced NDE Assessment	Lifetime Extension
Rotor Disassembly and Blast Clean		✓	✓	✓
Surface Penetrant Inspection		✓	✓	✓
Ultrasonic Inspection			✓	✓
Eddy Current			✓	✓
Metallurgical Evaluation	Microstructure Replicas		✓	✓
	Material Hardness		✓	✓
Screening for Reassembly Risks				✓
Evaluation of Inspections Findings	Low Cycle Fatigue			✓
	Creep			✓
	Fracture Mechanics			✓
Extension Enabler Finding Re-work Proposals				✓
Lifetime Extension Recommendation				√

Rotor Lifetime Extension Management Program

PSM offers customers a rotor management solution that capitalizes on PSM's engineering expertise while utilizing PSM's impressive design history of the 6B unit and all its iterations. Our Rotor Lifetime Extension utilizes full 3D steady state and transient analysis models combined with advanced NDT inspections in accordance with a complete rotor overhaul. Should indications be found or upgrades deemed necessary by engineering review of past and future run parameters, PSM can offer replacement discs and components to achieve longer life and higher efficiency

Life Time Extension

PSM's Rotor LTE program extends the useful lifetime of your rotor. Leveraging advancements in computing power, material properties, fracture mechanics methodologies, and inspection techniques, it is now possible to assess the potential to run rotors beyond their original published limits.

Rotor LTE is enabled by:

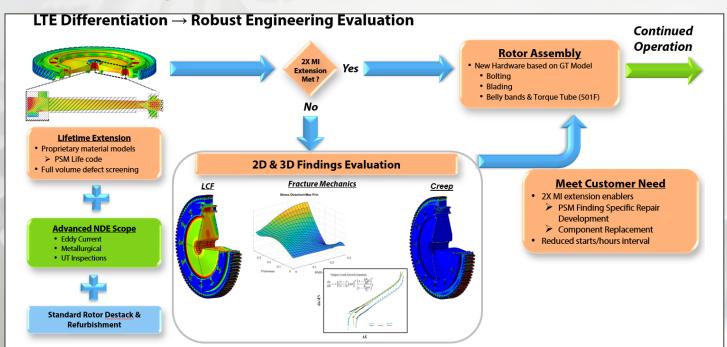
- + Advanced non-destructive inspection techniques to detect surface and volume flaws.
- + Complete rotor material characterization.
- + Full 3D Finite Element Analysis (FEA) models for thermal and structural analysis.
- + Inspection results and operational history fed back to the FEA model.

Any problematic flaws identified are analyzed, and a report detailing the predicted remaining rotor capability is generated, empowering owners to make informed decisions about their rotor assets.



SEED ROTOR INSTALLED WITH NEW ROW 9-17 COMPRESSOR WHEELS

Lifetime Extension Program



DLN2.6 Combustor Solutions

"Brazeless" Combustion Cover

- + All-machined and welded design: Eliminates recurrent braze joint failures by removing brazed inserts
- Versatile applications: Available for gas-only and dual-fuel systems
- + Broad compatibility: Works with PSM and OEM fuel nozzles

Product Offerings

- + PSM nozzles feature internal purging
- + OEM cover nozzles mitigate typical NOx increases caused by brazed joint failures

Liner Cap Assembly

- + Redesigned caps with enhanced cooling reduce thermal gradients
- + Effusion plate crafted from high-strength Haynes® 282® material
- + Advanced manufacturing technique for cooling holes minimizes crack formation
- Addresses durability issues and cracking experienced with OEM caps

Apply Reliability Upgrades at Repair

Convert OEM endcovers from brazed inserts to welded inserts

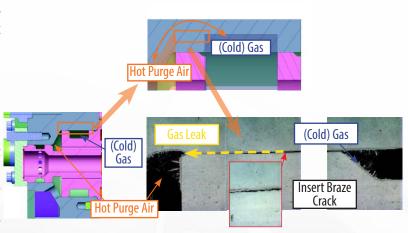
Issue

The OEM endcover design uses brazed inserts, which experience high tension loads during operation. These loads can cause cracks due to thermal stress created by temperature differences between gas and purge air. Cracks in this region allow gas to contaminate the fuel nozzle purge air circuit, potentially reaching the fuel nozzle tip unmixed or partially mixed with air, generating excess NOx. As more cracks form, the machine may become untunable and run out of NOx compliance, necessitating an outage to replace fuel nozzles. Brazed insert replacements at repair are a common, unreliable, and costly issue.

PSM Solution

PSM introduced a new endcover solution in 2014 that utilizes Electron Beam welding (EB-weld) instead of brazing to join inserts to the endcover. EB-weld demonstrates superior performance when loaded in tension. Building on this success, we can now convert OEM covers to an EB-welded insert configuration. During conversion, all brazed inserts in the set are removed and replaced with EB-welded inserts using a patent-pending weld design. This solution reduces lifecycle costs by eliminating future insert replacements and mitigating the risk of forced outages due to NOx excursions.





DLN 2.6 Combustion Hardware

"Brazeless" Combustion Cover

- All machined and welded design with no brazed inserts, eliminating recurrent braze joint failures in brazed designs.
- + Available for gas-only and dual-fuel applications.
- + Compatible with PSM and OEM fuel nozzles.

Fuel Nozzles

- + PSM nozzles are internally purged.
- + PSM nozzles on OEM covers mitigate the typical NOx increase when OEM cover brazed joints fail.



Liner Cap Assembly

- + Caps caps with improved cooling to reduce thermal gradients.
- + Effusion plate made from higher strength Haynes® 282® material.
- + Improved manufacturing technique for cooling holes reduces propensity for cracks.
- + Addresses cracking and durability issues experienced with OEM caps.



Combustion Liner

- + Manufactured from proven NIMONIC® 263 material.
- + Enhanced cooling design at the liner aft end for improved durability.
- + Proprietary PSM 450 Thermal Barrier Coating (TBC) applied for enhanced reliability.

Transition Piece

- + Thermally free mount to 1st stage nozzle to address impingement duct cracking.
- + Tighter fit between impingement sleeve and duct body improves cooling effectiveness.
- + Manufactured from proven NIMONIC® 263 material.
- + Aft attachment moved to exit frame to eliminate cracking in that region of the component.
- + Patented cooling features reduce metal temperature by up to 100°F.
- + Hard coat on all mating surfaces reduces wear.



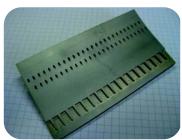
Example: 1st Nozzle Repair



EXTENSIVE TRAILING EDGE DAMAGE



CUTOUT DAMAGED MATERIAL



MANUFACTURE COUPON



FINISHED REPAIR

Digital Products

Maximizing Plant Performance

PSM's Digital Technology Portfolio maximizes your plant's performance before, during, or after large equipment upgrades. Often, combining multiple engineered systems creates overlapping redundancy, which, when fully understood, provides significant optimization potential. Over the last decade, PSM has combined our domain expertise in GT technology, combustion system design, engine upgrades, engine operation from the PSM Monitoring & Diagnostics (M&D)Center, and controls logic experience with balance of plant operations and advanced controls methods to create innovative optimization tools. Using proprietary and patented controls blocks, we offer multiple optimization features tailored to your individual needs.



FlexSuite and AutoTune

A portfolio of applications for your existing controller, FlexSuite from PSM, provides digital optimization for your power plant operations. Whether you seek operational reliability improvements or increased operational flexibility, there are multiple optimization features offered to suit your individual needs.



FlexSuite Building Blocks

- + Combustion Optimization
- + Start-up / Shut-down Optimization
- + Enlarged Load Range
- + Efficiency and Lifetime
- + Fuel Flexibility
- + Grid Support
- + Service Flexibility

Virtual FlameScanner DLN1.0 & DLN2.6 System Reliability

Feedback on the presence of flame in the combustor is critical to engine reliability. Our Virtual FlameScanner eliminates common issues with B/E and F Class optical flame detectors. By replacing the standard optical flame scanners with data from the exhaust temperature sensors, it is possible to reduce maintenance efforts and improve overall system reliability.



AutoTune

Intelligent GT combustion optimization for emissions and combustion dynamics while maximizing operational range and fuel variation. Utilize in conjunction with FlexSuite, FlameSheet™, and GTOP™ to maximize the optimization potential.

System Features

- + AutoTune is an expert advisory system that provides extra level of intelligent protection to your existing controller
- + External to control system
- + HMI screen seamlessly integrated
- + Patented learning algorithms eliminate the need for seasonal tunes and provide significant system enhancement.

Tuning Optimization

- + **Dynamics:** Improved hardware life and Lean Blow Out mitigation
- + Emissions: Consistent emissions even with atmospheric/climate/seasonal changes at varying load points
- + **Learning:** Intelligent learning of known operational points reduces the need for tuning and minimizes errors
- + **Transient tuning:** Adapts to cycling of units and responds to dynamic changes.
- + **Trip Avoidance:** Provides ultra-fast reaction if the combustor is flaming out to prevent a trip.

AutoTune Learns

Patented learning algorithms information capture from successful and unsuccessful events. tuning Over time. AutoTune learns and significantly reduces the need for tuning under similar operating conditions.



AUTOTUNE SCREEN DISPLAY

Operational Flexibility

With PSM's patented algorithms, it is possible to maximize the GT output according to climate conditions and actual system performance. For example, if you want to maximize seasonal peak power potential, Peak+ continuously seeks to maximize the load range while maintaining emissions and dynamics. Three optional modes are available:

- + **Power+:** Current firing temperature range with no impact on hardware life
- + **Peak+:** Option for increased peak firing mode to achieve greater improvements, with some hardware lifetime debit
- + **Turndown:** Minimizing low load point by maintaining output just above premix transfer

While running on AGC or remote dispatch: Peak+/Power+, Turndown & Transient Tuning all active during Automated Generation Control and do not require stable load conditions before optimizing.

Extended Turndown

- + Dynamic optimization of unit minimum load
- + AutoTune monitors emissions and combustion dynamics to safely meet load target or hold at

lowest safe point of operation

- + Integrated with both manual load control or AGC drive load targets
- + Learns over time by saving ambient condition profiles, allowing for quicker load ramp when revisiting safe operating points

Fuel Flexibity

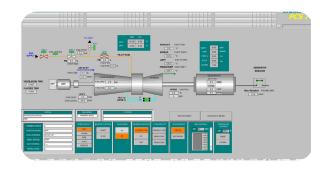
Three levels of fuel flex technology are available offering +/- 2% MWI range improvement, does not require fuel gas chromatograph or any kind of combustion system modification. These optional modules allow multiple fuel supplies to be switched with the GT online, keeping

- + FGT (Fuel Gas temperature): reduces Fuel Gas temperature to minimize hot tone dynamics
- + FPP (Fuel Property Parameter) table to enable extra dimension of tuning intelligence if distinct variations in fuel are detected (eg multiple sources of Fuel Gas)
- + FTO (Fuel Temperature Optimization) utilizes a high performance fuel gas heater to actively manage the wobbe range of the fuel

Control Solutions from PSM

TC7 Control System: Advanced Heavy-Duty Gas Turbine Control System

The TC7 gas turbine control system represents an advanced solution resulting from extensive research and development efforts. It builds upon the established design of Siemens® PCS7 series DCS, offering the most recent iteration of controllers for heavy-duty gas turbines.



Advantages of TC7

Industry Recognition: TC7 gas turbine controllers have gained widespread acceptance among industry professionals due to their exceptional safety features and adaptability.

- + Adaptable Structure: The modular configuration of TC7 ensures its suitability for various turbine applications.
- + Accessible Design: TC7 features an open-architecture design and utilizes standard, widely available hardware, facilitating easy maintenance and repair of the control system.

TC7's Impact on Plant Reliability

In the current competitive power industry, plants face challenges in maintaining relevance and profitability. They must operate at full capacity for extended periods to meet consumer needs, which can be particularly challenging for older systems.

To address this issue and enhance performance and reliability cost-effectively, upgrading your gas turbine's control system with our advanced TC7 is a viable solution.

TC7 provides the necessary hardware and software flexibility to help your plant remain competitive, reliable, and successful.

TC7 Enhances Gas Turbine Performance and Integrated Safety

Our TC7 is cost-effective, efficient, and reliable. This control system can be customized for various hardware components and software configurations, promoting plant flexibility and profitability.

While TC7 is based on Siemens' PCS7 platform, we are platform independent and have the flexibility to adapt to your specific requirements.

TC7 improves your gas turbine's performance and provides peace of mind. Its open-architecture design and use of common hardware help reduce maintenance costs while delivering high-quality performance.

Additionally, our control system solution incorporates safety features that comply with the stringent VDMA-4315 standard, derived from IEC-61508.

To further enhance your plant's efficiency and performance, you can incorporate our FlexSuite and AutoTune solutions with your TC7 using digital technology.

TC7's Modular, Interchangeable, and Open Design

Our TC7 modular control system, based on Siemens® PCS7 series DCS, is designed for user-friendliness. Its open design offers several advantages:

- + Seamless integration into existing or new systems.
- + Backup system to minimize downtime during modifications.
- + Highly reliable hardware, thoroughly tested and verified by our experts.
- + Software I/O modules that can be integrated without extensive hardware knowledge.
- + For plants with older Mark I, II, IV, or V systems, TC7 can be replaced without requiring significant mechanical alterations, and with minimal changes to electrical and instrumentation aspects.





Global Repair & Field Services • 24/7

Field Service

PSM provides fully integrated outage services delivered by a team of professionals skilled in turning overhauls around quickly, safely, and with high quality. We support a wide range of power generation equipment, offering:

- + OSHA Compliant Safety Program
- + Detailed Outage Planning
- + Customized Tooling
- + Emergency Response Team
- + Control/Combustion Tuning
- + Instrumentation Support
- + Valve Calibration
- + Customized Work Instructions & Quality Plan
- + Foreign Material Exclusion Procedures
- + Field Inspection & Assessments
- + Detailed Lessons Learned & Improvement Plans

Repair

PSM, together with Thomassen Energy in the Netherlands, PSM Thomassen Gulf in Abu Dhabi, and Hanwha Power Systems in South Korea, offers global repair services for industrial gas turbines across B, E, and F-class fleets. Our capabilities include:

- + Robotically controlled welding
- + Chemical Stripping
- + Full Metallurgical Laboratory with Engineering Services
- + Brazing
- + FIC Cleaning
- + Qualified fixture check for all components
- + Robotically controlled coating
- Flow testing, gas and liquid, including B, E/EA, and F-class and DLN
- + Heat treatment
- + 24-hour engineering and shop support
- + Use of the latest Qualified Procedures/ Processes
- + State-of-the-Art Equipment
- + Spare & Emergency Parts Warehouse
- + Lifetime assessment of components and rotors











Service Capabilities including Monitoring & Diagnostics

PSM services a diverse portfolio of GT components, control and combustion system platforms

- + Reliable coverage from basic support through complex root cause analysis.
- + Service Engineering extends beyond traditional support to incorporate best practices from all platforms & systems.
- + Strong processes & infrastructure position PSM to further grow capabilities.

Engineering Assessment

- + A dedicated team supports our Field Service, Project Management, Sales & Tendering, R&D, Fleet Management, Global Execution Centers, and Customers.
- + Over 400 events per typical outage season evaluated and answered.

Team access to all parts of the PSM organization ensures quick event disposition.

Tuning and Commissioning

- + Over 200 tunes per year across a wide variety of combustion technology and control systems
- + Strong expertise in both OEM & PSM Combustion systems.
- + In-house knowledge base and access to combustion design engineers.
- + Tuning events completed across 7 platforms.

Monitoring and Diagnostics

- + Over 50 units and 10 GW monitored.
- + Global cloud-based infrastructure with redundancy.
- + 24/7 Monitoring.
- + Monthly Operational Assessment Reports (OAR's) included monitoring of customer-selected parameters.

Controls Design and Development

- + Controls-related services across seven different platforms.
- + Support customers and PSM technology initiatives.
- + Designed to support controls replacement, expansion projects, or technology development.
- + Assesses operational and protective schemes and communication protocols.



Plant Assessment for Comined Cycle Power Plants

In the current competitive power generation market, plant operators are driven to enhance output, boost efficiency, and reduce operational expenses. They often implement improvements and upgrades to the original equipment design to achieve these objectives. When considering investments in performance enhancements, it is crucial to view the power plant as an integrated system.

Benefits

A PSM Plant Assessment offers valuable insights to:

- + Confirm that equipment and systems are compatible with proposed upgrades
- + Optimize asset potential
- + Evaluate real-time conditions and performance
- + Enhance operational flexibility
- + Project life expectancy
- + Control emissions profile

Component Evaluation

Gas Turbine

- + PSM enhancement options
- + Performance and efficiency improvements
- + Exhaust characteristics

Heat Recovery Steam Generator

- + Design constraints for pressure components
- + Areas prone to accelerated corrosion due to flow
- + Capacity of temperature control systems

Steam Turbine

- + Steam pathway examination
- + Thermal and mechanical stress boundaries
- + Performance and efficiency improvements

Generator

- + Functioning at peak output
- + Operational limits and cooling constraints
- Magnetic field saturation thresholds

Balance of Plant

- + Effectiveness of environmental control measures
- Capacity of control valves, pumps, heat exchangers, and safety valves

Modeling & Analysis

PSM conducts a comprehensive power plant analysis for various operational and environmental conditions, considering:

- + Original and enhanced heat balance designs
- + Model adjustment to current equipment state
- + OEM and model-based upgrade potential for key components
- + Capability of auxiliary systems and components

Plant Assessment Report

The assessment report provides:

- + Current and upgraded plant thermal performance comparison
- + Emissions overview and environmental effects
- + Equipment and operational constraints and suggestions
- + Support for business case development



Long Term Agreements

Summary of Offerings

As a leading parts provider, PSM offers comprehensive and flexible Long Term Agreements for 7F, 501F, 6B, and 7E models, aimed at reducing lifecycle costs for the end user. Our engineered part designs increase component life and extend program intervals, eliminating inspections and providing significant cost

savings over the contract's life. Additionally, our improvements to OEM designs and reconditioning processes reduce the fallout of hot gas parts. PSM has also assembled a highly skilled and experienced field service team capable of industry-leading outage performance.

Flexible Agreements — to fit the customer needs

Types of PSM Service Agreement Offerings					
Included Product Offereings	Long Term Agreement (LTA)	Long Term Maintenance Agreement (LTMA)	Frame Agreement		
Parts Supply	√				
Reconditioning	✓				
Field Services	✓				
Monitoring & Diagnostics (Remote Monitoring)	✓				
Contract Manager	✓				
Inventory Manage- ment	√				

PSM has developed a flexible concept for Long Term Agreements tailored to meet dynamic market conditions and customer needs. Our agreements aim to offer competitive pricing and leverage the full portfolio of PSM offerings. They can include not only gas turbines but also generators, steam turbines, and auxiliary systems. The focus is on optimizing maintenance budgets, guaranteeing part life, minimal parts fallout, coverage during unscheduled inspections, inventory control, and proactive contract management for total coverage.

In summary, our diverse agreement offerings are designed to optimize your maintenance budget. They provide competitive guarantees on parts life, minimal parts fallout, comprehensive coverage during unscheduled inspections, effective inventory control, and proactive contract management, all to ensure complete coverage.

Scope of Supply — based on the customer requirements

Customers define the scope of Long Term Agreements, which can range from full service to specific pricing agreements. Services offered by PSM include:

- + Parts Supply
- + Reconditioning
- + Field Services, including craft labor
- + Monitoring & Diagnostics (e.g., Remote Monitoring)
- + Contract Management
- + Inventory Management
- + Parts Tracking
- + Engineering Assessments
- + System Technical Support
- + Emergency Response



Global Services Overview

PSM integrates combustion dynamics expertise, Low NOx combustion alternatives, airfoil design, and comprehensive power plant operation solutions with our 6B gas turbine manufacturing heritage. We provide dynamic solutions for 6B units, from initial models to advanced upgrades featuring controls and DLN system modifications, aimed at extending hardware lifespan and improving power plant return on investment.

Combustion:

LEC-III™ and T-DLN options are customizable using our FlexSuite products to address ultra-low emissions and single or dual fuel requirements.

Hot Gas Path:

Latest design improvements for 1st, 2nd, and 3rd stage buckets, nozzles, and shrouds.

Rotor:

Components ranging from bolting to new compressor and turbine discs.

Combustion System Engine Tuning with Monitoring & Diagnostics:

Global support for gas turbine rotating equipment, including remote monitoring.

Rotor Lifetime Extension (LTE):

Our program can prolong rotor lifespan by leveraging advancements in computing, material properties, fracture mechanics, and inspection techniques.

Field Services and Outage Management:

Comprehensive field service solutions, including on-staff bladers and labor provision for gas turbines, steam turbines, and generators worldwide.

Reconditioning:

Global repair capabilities for advanced industrial gas turbines, with facilities in the US, The Netherlands, and The Middle Fast.

Conversions, Modifications and Upgrades:

We offer solutions to modernize aging equipment, enabling customers to reduce emissions, extend equipment life, and adapt to changing power grid requirements.

Flexible Long-Term Parts and Service Agreements:

Comprehensive service packages tailored to 6B units, ranging from full LTAs to rotor or component management programs.

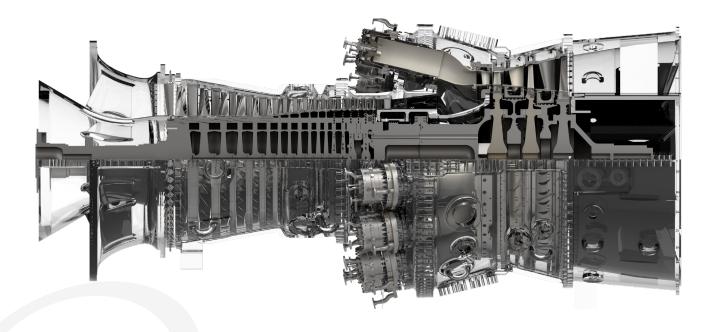
PSM - A Hanwha Company

The growing interest in the hydrogen economy is driven by the need to address climate change and transition to sustainable energy sources. However, challenges remain, including high production and storage costs, and extensive infrastructure requirements for distribution and transportation.

As a Hanwha subsidiary, PSM is uniquely positioned to leverage the expertise and resources of the Hanwha family to accelerate hydrogen development and adoption as a clean energy source. Hanwha's global presence and diverse business interests in areas like solar energy and defense provide PSM access to a wide array of technologies, markets, and partnerships.

Collaboration with Hanwha Q CELLS, a leader in large-scale solar projects, enables PSM to integrate hydrogen production with solar energy systems, fostering more sustainable and efficient energy solutions.







Thomassen Energy

a Hanwha company



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