One Source for Power Gen
MANUFACTURING & REPAIR SERVICES

Power Industry Capabilities
www.hfwindustries.com
Power Industry Capabilities

Whether you're a public utility, OEM for power related machinery, a company powerhouse, or in renewable energy, equipment reliability is critical.

**DOWNTIME COULD LEAVE EVERYONE IN THE DARK!**

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One Source

With **Precision Machining, Thermal Spraying, Hardfacing, Precision Finishing and Assembly** capabilities all under one roof, HFW Industries offers One Source services for the Power Generation industry's component and assembly manufacturing and repair needs. We focus on solutions that **reduce costs, shorten lead times** and **eliminate hassles** of working with multiple vendors. HFW's proven repair capabilities offer significant **cost-savings** when compared to manufacturing new components without sacrificing quality or performance. HFW's One Source service capability simplifies your supply chain and procurement process while maintaining better quality control at each stage of the manufacturing or repair process. When utilizing HFW repair services, **lead times are greatly reduced** since components are completed in our 65,000 square-foot facility.

HFW has the capabilities to restore component size to OEM dimensions and extend service life through enhancing resistance to abrasion, wear, heat and corrosion, among others. This results in **lower maintenance costs and increased process uptime**. HFW thermal spraying and hardfacing services provide significant improvement on the life of the components we manufacture and repair. Thermal spray coatings can be modified and formulated for your specific application.

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Quality Assured

Whether we are manufacturing original equipment or reconditioning components to OEM specifications, quality is our priority. Our climate controlled inspection laboratory allows us to measure to tight tolerances which include T.I.R. of .0002" on certain components and assemblies. Working alongside our team of manufacturing engineers and skilled tradesmen is our Quality Control personnel monitoring and measuring every job at each operation to ensure the final product meets or exceeds the required specification. As of January 2011, HFW will have acquired **ISO 9001:2008** certification to help us continually improve our ISO compliant process.
Applications

With over 60 years' experience, HFW Industries has become recognized as the Power Generation industry leader in the integration of high-performance surface enhancements with state-of-the-art manufacturing technology. In many areas of the industry, we combine Thermal Spray Coatings and Weld Overlays with our CNC Machining, Precision Grinding and Assembly capabilities that provide cost effective solutions to common operating problems such as abrasion, wear, loss of profile, erosion and corrosion.

Typical applications include, but are not limited to...

- Component Reconditioning
- Shafts- Turbine, Turbocompressor (and more)
- Inlet Pipe Repair
- Seal & Bearing Housings
- Rotor Components
- Pistons & Piston Rods
- Seals
- Valve Seats & Discs
- Valves and Valve Stems
- Bushings and Couplings
- Gear Box Bore Repair

Why HFW?

By taking advantage of our One Source service capability, our customers are able to save money, reduce lead times and keep the production line up and running. Whether you have an assembly that requires manufacturing, need a process component restored to OEM specification or require a partner to devise a new thermal spray coating that enhances your process, HFW has the proven experience to handle the job.

We have recently launched a new website www.hfwindustries.com that will be continually updated with new information on our process and applications we support in the Power Generation industry including case studies, technical data sheets, photographs of new and current applications and videos of our process.

For additional technical data on HFW manufacturing and repair capabilities, please email us at sales@hfwindustries.com or call 716.875.3380 to discuss how we can work together to reduce the costs and lead times of your manufacturing and repair requirements.

Call us today at 716.875.3380 or visit hfwindustries.com for more information.
Capability Overview

**PRECISION MACHINING**
- Lathes: To 50" Diameter x 312" Long / 54" Diameter x 160" Long
- CNC Lathes: To 40" Diameter x 200" Long
- Milling – CNC: To 55" x 67" Rotary Table
- Conventional: To 62" x 68" Rotary Table

**THERMAL SPRAYING**
- Plasma
- HVOF
- Wire Metallize
- Six Axis Robot / Automated Positioning

**WELDING/HARDSURFACING**
- Plasma Transferred Arc
- MIG – TIG – Arc – Sub Arc

**ASSEMBLY DEPARTMENT**
- General Assembly Tooling & Equipment
- Brush Plating
- Dynamic Balancing

**PRECISION FINISHING**
- Cylindrical Grinding: 24" Diameter x 26" Long
- Internal Grinding: To 36" x 18" Stroke
- Surface Grinding: 12" x 24" Table
- Super Finishing: 36" Diameter x 26" Long

**INSPECTION / LABORATORY**
- Coordinate Measuring System
- Measuring Equipment to 60" OD / 60" ID
- Surface Finish, Hardness, Ultrasonic Testing
- Metallography Laboratory

From left:
1. CLIMATE CONTROLLED QUALITY INSPECTION
2. CNC MACHINING