

**CURTISS -  
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# Surface Technologies Division FW Gartner

[www.fwgts.com](http://www.fwgts.com)

FW Gartner Thermal Spraying provides thermal spray and surface engineering technology to extend the service life of components and systems operating in severe service environments including the latest in HVOF Technology, Laser Cladding, PTA Cladding and QA/QC Inspection and Laboratory Testing. Approvals include ISO 9001:2008.



## Coating Finishing for Ball Valves

**FW Gartner has a long and successful history of providing innovative coating solutions for challenging applications.**

### Quality Coating Systems

For decades, we have been the industry vanguard for cultivating new coating technologies across a broad range of ball valve types, sizes and substrates. These components are required to work across a range of industries in some of the most severe environments imaginable and so achieving unique coating properties that include corrosive, abrasive and erosive wear, as well as thermal protection has required considerable development in not only the coating application but also the coating finishing technology.

Our coating systems not only include coatings that exhibit properties which make them ideally suited to their harsh operating environments, they also include innovative solutions to achieve the finishes required to seal components at the extreme temperatures and pressures frequently required.

The development of our spherical CNC machining capabilities has produced unique methods for machining coatings exhibiting

macro-hardness in excess of 60HRC. Our spherical grinding expertise is consistently capable of producing near perfect spheres on ball components with carbide and ceramic coatings that exhibit micro-hardness in excess of 1400HV<sub>300</sub>.

### Consistent and repeatable seal lapping technology

Achieving the seals required for elevated temperature and high pressure applications requires advanced lapping techniques. Our latest evolution in lapping technology incorporates substantial improvements over traditional equipment design. Depending on the valve design, this equipment is capable of lapping two seats simultaneously to ensure complete sealing on any surface of the ball circumference. This not only reduces overall lapping time but removes much of the technique dependency exhibited by previously used lapping techniques. The technology is capable of consistently meeting or exceeding any customer requirement.

For further information, or to request a quotation, please visit our website ([www.fwgts.com](http://www.fwgts.com)), send us an e-mail ([info@fwgts.com](mailto:info@fwgts.com)), give us a call (713 225 0010), or just come and see us at our Pearland, TX facility.

Surface Technologies is a Division of Curtiss-Wright (NYSE:CW) a global innovative company that delivers highly engineered, critical function products and services to the commercial, industrial, defense and energy markets. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing reliable solutions through trusted customer relationships. The company employs approximately 10,000 people worldwide.

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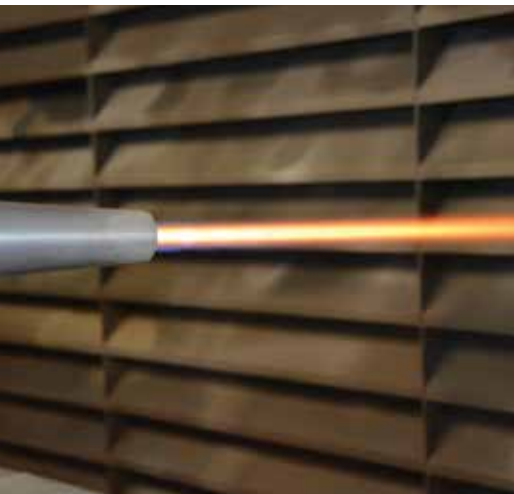
ADVANCED COATING & CLADDING TECHNOLOGIES

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## Dedicated Mud Rotor Coating Cell

**FW Gartner, a business unit of Curtiss Wright, and a Houston mainstay in the coatings business since 1923, has recently upgraded its facility to incorporate a dedicated mud rotor production coating cell. Employing the latest technologies and LEAN manufacturing elements to ensure the most efficient and cost effective process, the cell includes the ability to process new and used mud rotors.**

The cell includes a 30' (9 meter) chemical stripping bath dedicated to treating existing tungsten carbide coatings from used rotors. The tank is capable of stripping multiple rotors simultaneously and has been designed to use non-toxic, non-hazardous and environmentally safe stripping solutions. Over the course of the past few years, we have also developed partners that ensure our waste stream is disposed of safely and conscientiously.

The dedicated mud rotor coating booth is designed to ensure maximum versatility.

Capable of coating components up to 50' (16 meter) long, it is equipped with multiple High Velocity coating systems to ensure all customer specifications and requirements can be met.

### Latest technology HVOF/HVAF Systems

The booth includes two HVOF systems for operation with either liquid or gaseous fuels as well as the latest generation HVAF system. We have fully optimized the tungsten carbide coating application process to ensure that the coatings produced with any HV device exceed our customer's metallurgical and surface finish quality expectations.

### Advanced Polishing Techniques

Adjacent to the thermal spray booth is the mud rotor polisher which is capable of polishing 30' (9 meter) between centres. Together with the optimized coating application and using specific diamond polishing abrasives of multiple geometries and grades we are able to polish coated mud rotors to finishes lower than 6-8µi.

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