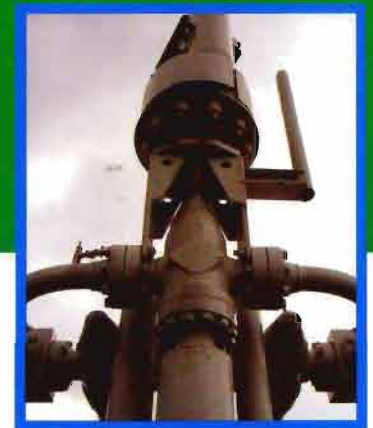


OILFIELD EQUIPMENT



PAS Technologies provides a complete range of advanced coatings chemistries and processes applicable to oilfield equipment components that give oil production companies a competitive edge.



*Reduce Wear Problems,
Improve Performance*



TALENT, TECHNOLOGY & EXPERTISE

Protect your investment and improve the performance of your equipment, including pipes, valves, wellheads and sub-sea equipment.

PAS Technologies facilities meet the needs of the Oil and Gas Industry. Our operations are equipped to provide hardface thermal spray materials to maximize wear protection in hostile operating environments.

Our advanced coating processes protect against abrasive wear, erosion, corrosion, and impact fretting wear on oilfield equipment.

Oil and Gas Industry operations take advantage of our sophisticated coatings, thermal spray systems, and comprehensive finishing capabilities. We bring their new equipment into production quickly and efficiently, and keep existing equipment in production longer on reduced maintenance schedules.

PAS Technologies' coatings are proven, cost-effective solutions for a wide variety of wear problems for critical components in oilfield equipment.

Additionally, PAS Technologies' wear-resistant coatings meet or exceed all applicable quality and specification standards established by our customers, the government, and ISO.

Here are some of our advanced coating processes that can help give your company the competitive advantage:

- Super D-Gun™ Coatings**
- D-Gun™ Coatings**
- High-Velocity Oxy-Fuel (HVOF)**
- Low Pressure Plasma Spray (LPPS)**
- Shrouded Plasma Spray**



PAS Technologies engineers coatings to meet oil and gas industry standards. Designed to resist corrosion, abrasion and intense wear and tear, they are perfectly suited to your operating environment.

Typical Baseline Choice	Application Example	PAS Thermal Spray Alternative
Chrome Plate	Ball Valves	Tungsten Carbide Cobalt Chrome
Nitride	Stems	Aluminum Oxide or Tungsten Carbide Cobalt Chrome
Stellite or other weld overlay, nitride, chrome plate	Valve Gates and Seats	Tungsten Carbide Cobalt Chrome or other Carbide Coating



Drill bits receive a coating application from PAS Technologies' detonation gun, licensed by Praxair Surface Technologies.





Gate valves and ball valves are examples of flow control systems that are subjected to erosive and abrasive wear due to hostile field operating conditions. With PAS Technologies' coatings and technology, maximum performance and longer life can be achieved.

OILFIELD INDUSTRY AND GAS INDUSTRY APPLICATIONS

- Gate Valves
- Gate Seats
- Gate Stems
- Ball Valves
- Drill Bits
- Blow Out Preventers
- Riser Pins

QUALITY FOCUS

Continuous Improvement: Lean Manufacturing

Customer satisfaction is synonymous with our mission: To be the benchmark for the lowest industry turn times, exceptional customer service, innovative solutions, quick response, and products of the highest quality.

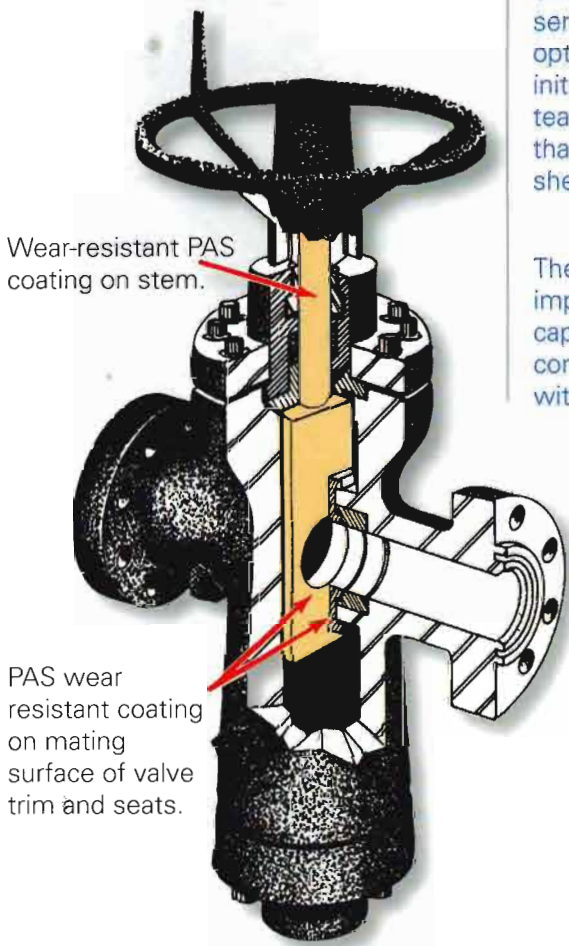
To fulfill that mission, we focus on material flow, value-added services, and specialized optimization through lean initiatives with empowered teamwork. On the shop floor that means there are no off-the-shelf answers.

The company's continuous improvement programs capitalize on lean principles that continuously improve processes within and among every

department in every facility. Lean operations and cellular manufacturing eliminate waste in the value stream to reduce cost, reduce cycle time, and simplify the manufacturing process.

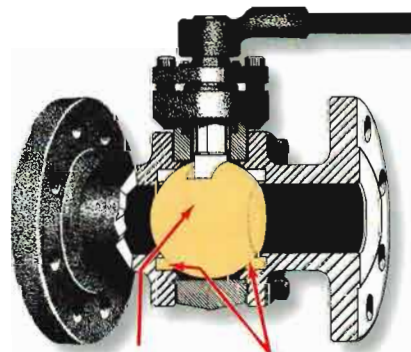
GLOBAL STANDARDS

A centralized quality department follows the strict standards for repeatability and consistency it established across the board. Every production location maintains a metallurgical lab to continuously monitor all processes and ensure that these critical standards are met.



Wear-resistant PAS coating on stem.

PAS wear resistant coating on mating surface of valve trim and seats.



Wear-resistant PAS coating on O.D. of ball.

Wear-resistant coating on sealing surface of valve seats.

TO LEARN MORE:

PAS Technologies Inc. Headquarters

1234 Atlantic Street
North Kansas City, Missouri 64116
Phone: 1.816.556.4600
Fax: 1.816.556.4615

PAS Technologies Inc.

10325 East 58th Street
Tulsa, Oklahoma 74146
Phone: 1.918.461.5000
Fax: 1.918.254.8130

PAS Technologies Ireland Ltd.

IDA Business Park
Carrigtwohill, County Cork, Ireland
Phone: 353 21 428 7300
Fax: 353 21 428 7301

PAS Technologies Romania S.R.L.

Within Cameron Romania S.A.
1, B.P. Hasdeu Street
105600 Campina
Prahova, Romania
Phone: 40 244 306083

Asian Surface Technologies Pte Ltd.

A Joint Venture between PAS Technologies,
SIA Engineering Co and Pratt & Whitney
55 Loyang Drive
Singapore 508967
Phone: 65.6545.8255
Fax: 65.6542.8121

PAS Technologies Inc.

214 Hobart Drive
Hillsboro, Ohio 45133
Phone: 1.937.840.1000
Fax: 1.937.840.1016

PAS Technologies Inc.

1021 North 22nd Avenue
Phoenix, Arizona 85009
Phone: 1.602.744.2600
Fax: 1.602.744.2660

PAS Technologies Inc.

10301 North Commerce Parkway
Miramar, Florida 33025
Phone: 1.954.624.3160
Fax: 1.954.624.3161



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