Added Value Through Know-How

FST
Flame Spray Technologies
Flame Spray Technologies (FST) is a leading global supplier of thermal spray solutions and services, including turnkey systems, stand-alone equipment, spare parts, spray materials (powders & wires), equipment service and calibration, laboratory services and application consulting. We are pleased to be directly involved in a technology that increases the performance and durability of many different products and parts all over the world.

**Market-driven solutions**

Being a specialized company, we are extremely flexible and able to act quickly. We provide solutions that are tailored to resolve your specific problems and challenges. As a dynamic and innovative hands-on company, we strive to design products that are practical, comply with the latest requirements and offer new and increased benefits to the industry. The eGun™ ethanol-fueled HVOF Technology is a good example of such a product.

Our systems are utilized in the following industries, among others:

- Industrial Gas Turbines (IGT)
- Oil & Gas
- Paper & Printing
- Hydraulics
- Steel Industry
- Maintenance & Repair
- Energy
- Aerospace
- Automotive
- Corrosion
- Electrical & Electronics
- Textiles
- Biomedical

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All-in-one Solutions

Turn-key systems & projects
We have designed, manufactured and installed hundreds of turnkey projects all over the world for many different industrial applications. Our solutions are always customer-specific, completely engineered and integrated, and include all necessary peripherals such as sound-proof cabins, robots, turn-tables and dust collectors. We manage the entire project, including installation and component integration. Our systems comply with the highest safety and quality requirements; and we use first-class components only. After installation of the equipment, we provide a dedicated training on system operation, maintenance and Thermal Spray technology.

Multi-process
Our MP-50 Multi-process APS/HVOF system is a multi-process system offering the highest performance and quality the industry has come to expect from our popular 50 series. The MP-50 represents the latest generation Multi-Process Thermal Spray System and is based on the successful HV-50 (HVOF) and AP-50 (Plasma) models, of which more than 200 systems are operational worldwide. The MP-50 offers unsurpassed process control and thermal spray operation flexibility and is one of the most reliable coatings systems available on the market today.
Different spray systems for different needs

50 series
The 50 series APS / HVOF equipment is designed according to the principle of "advanced simplicity", using state-of-the-art technology that minimizes maintenance and simplifies operation. Besides the MP-50 Advanced Multi-process system, we also offer the Basic and Professional single process versions, which contain all the essentials.

We offer the following configurations:
- MP-50 APS/HVOF Thermal Spray System
- HV-50 LF-HVOF Thermal Spray System
- HV-50 GF-HVOF Thermal Spray System
- AP-50 APS Thermal Spray System

25 series
The HV-25 and AP-25 single-process controllers combine advanced process controls with a "traditional feel" and operation. This results in excellent performance and system robustness. The features and mobility make the 25-series ideal for today's job shop.

We offer the following configurations:
- HV-25 LF-HVOF Thermal Spray System
- HV-25 GF-HVOF Thermal Spray System
- AP-25 APS Thermal Spray System

Arc Spray
The AWS-400 Arc Spray System is specifically designed and engineered to ensure low operator fatigue and significantly reduced maintenance costs. Compared to the more familiar pull systems, the special “push” feeding method reduces the complexity of the gun and significantly lessens the weight of the arc-spray gun.

Cold Spray
Cold spray is the youngest commercial available thermal spray technology in the market, using almost pure kinetic energy to spray virtually oxide free coatings.

FST has formed a strategic alliance with Impact Innovations and is able to offer their product range.
THE NEXT STEP
in HVOF technology

eGun™
Our latest innovation is the revolutionary eGun™, a liquid fuel HVOF torch that utilizes ethanol as its fuel. The eGun™ brings a new and unique coating technology to market. The eGun™ produces coatings of equal or higher quality compared to conventional HVOF or High Pressure (HP) HVOF torches. This reduces operational costs and increases application efficiency without compromising coating quality.

What does the “e” stand for...?

- **ethanol**: Ethanol-Fueled HVOF technology
- **enhanced**: Larger operating window achieved via reducing atmosphere capabilities resulting in unique new coating opportunities
- **efficient**: Improved DE due to optimum temperature and velocity balance
- **economical**: Consumes approximately 50% less oxygen and requires 1/3 of the cooling power
- **ecological**: The cleaner liquid fuel alternative through its sustainable fuel life cycle

Technical documentation from Etteplan.
Sometimes it’s even more amazing than the product it describes.

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Our Materials ensure your Production

FST can provide the consumables required to operate your thermal spray equipment. Our consumables ensure an effective and economic equipment performance and guarantee the continuity of your production.

**Powders**
By offering a complete range of thermal spray powders, including metals and alloys, composites, ceramics and carbides, we provide a comprehensive and quality-driven service to our customers.

**Wires**
Thermal Spray Wires are mainly used in the electric arc and flame wire spray process. Flame Spray Technologies offers a wide range of high-quality thermal spray solid and cored wires.

**Masking**
FST supplies high-performance masking tape that fully meets all demands in respect of resisting the grit blast, wire arc spray, flame spray, plasma spray and HVOF spray process.

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HIGH END COLD SPRAY EQUIPMENT
APPLICATION DEVELOPMENT
CUSTOMIZED ENGINEERING
COATING DEVELOPMENT
KNOW-HOW TRANSFER

know-how wanted ?
THINK RED !
Thermal Spray Guns
Flame Spray Technologies offers a wide range of commercially available Thermal Spray guns including all accessories, such as spare parts, maintenance & O-ring kits, cables and hoses.

Components & Spare Parts
Reliable and high-quality components contribute to the best possible performance of the equipment. In the same way, high-quality spare parts ensure continuous production and a consistent coating quality. We deliver a wide range of first-class components and spare parts. Every part is manufactured with great care and is thoroughly tested in production environments before being offered to the market.

Your sector is our expertise.

As an entrepreneur, you want a bank with knowledge of your sector. Our sector specialists are here to help you find solutions. They know what’s going on in your industry. And they know what you need now to realise your plans, short-term or long-term.

For more information: insights.abnamro.nl/industrie
Global Distribution

Via our Global network of Distributors and Agents, FST is well positioned to serve the market on a global scale, yet at a local level.

Our services include:
- Application & Coating Engineering
- System Service, Maintenance and Calibration
- Research & Development
- Demonstration & Training

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