

SPRAY OPTIMIZATION STRATEGIES

SET SPRAY PERFORMANCE STANDARDS WITH SPRAY ANALYSIS

Setting baseline performance standards is critical to the success of your spray optimization program – you can't begin to optimize performance until you've established some performance goals. In some cases, the signs that your spray system could be improved are easy to spot. More frequently, the signs are subtle and may require spray analysis to detect.

Our Spray Analysis and Research Services group has decades of experience in testing, research, spray nozzle design and nozzle fabrication, and they operate the industry's most sophisticated spray laboratories. Our engineers test spray performance using the actual operating parameters of your application and make recommendations that may include adjusting spray parameters or changing spray nozzles.

In addition to spray performance testing, we conduct proof-of-concept tests, quality control tests and design prototypes for new product or process development. Operations that require precision spraying typically benefit the most from advanced spray analysis. Chemical, food, paper and pharmaceutical manufacturers with coating, spray drying, gas cooling and marking applications are among those who have experienced process improvements from our services.

FOLLOWING ARE JUST A FEW EXAMPLES OF INNOVATIVE SPRAY SOLUTIONS THAT ORIGINATED IN OUR SPRAY ANALYSIS LABS:

- Effervescent spray technology for use in chemical production.
- Spray characterization and header design to ensure sanitary conditions in food processing.
- Nozzle testing and design for microparticulates used in drug discovery.
- Spray performance testing and header design to minimize excessive misting and provide uniform coverage of paint on non-woven material.



Spray Analysis and Research Services
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Spraying Systems Co.®
Experts in Spray Technology

Spray Analysis Instrumentation

Spray nozzle patternators measure spray distribution

Impact measurement devices demonstrate how impact varies throughout a spray pattern

Laser imaging measures the size and slope of opaque and transparent sprays

Phase doppler particle analyzers evaluate drop size and spray velocity

Laser diffraction measures drop size of small to medium sprays

Wind tunnel provides an environment for testing spray nozzle performance in air currents

