



**Spraying Systems Co.<sup>®</sup>**  
Experts in Spray Technology



Spray  
Nozzles



Spray  
Control



Spray  
Analysis



Spray  
Fabrication



## **A Guide to Spray Technology for Fluid Bed Applications**

# Superior Spray Performance for Fluid Bed Applications

Improve granulation and coating with nozzles and lances

From small laboratory research and development batches to full production scale, Spraying Systems Co. has the solution for your fluid bed applications. We offer a complete line of customizable nozzles and lances for top-spray granulating and Wurster coating designed to simplify your scale-up and validation, reduce maintenance, and improve product quality.

## Nozzles and Lances for Fluid Bed Coating

### 46910/46915 Fluid Bed Coater Nozzles

- For pilot/production scale applications
- Fine spray
- Materials: 316L stainless steel, EPDM O-rings, 1.5mm, 2.2mm and 4.0mm nozzle orifice sizes available
- Spray pattern: narrow full cone (bottom-up spray)
- Air actuated liquid shut-off needle
- Custom nozzle lengths available
- Models available with air-actuated liquid shut-off feature



46915 Fluid Bed Coater Nozzle

### 54057 Fluid Bed Coater Nozzle

- For R&D scale applications
- Medium to fine spray
- Materials: 316SS, EPDM O-rings, FDA-approved Teflon® gaskets
- Available in .020", .032", .040", .047" and custom sizes
- Spray pattern: bottom-up full circular cone
- Anti-bearding setups



54057 Fluid Bed Coater Nozzle

### Custom Lances Available

In addition to nozzles, we are also able to design and manufacture custom lances for both R&D fluid beds as well as larger, production-size units, ensuring superior spray performance at every scale.



## Nozzles and Lances for Fluid Bed and Top-Spray Granulation

### 46920/46925 Cluster Head Top-Spray Granulating Nozzles

- For pilot/production scale applications
- Fine spray
- Materials: 316L stainless steel, EPDM O-rings, FDA-approved Teflon® gaskets
- Modular design for quick disassembly
- 0.7mm, 0.9mm, 1.0mm, 1.5mm and 2.0mm nozzle orifice sizes available
- Spray pattern: wide cone (top-down spray)
- Models available with liquid shut-off feature

46920 Cluster Head  
Top-Spray Granulating Nozzle



### 53992 Top-Spray Nozzle with Lance

- For R&D scale applications
- Fine spray
- Materials: 316SS
- Available in .016", .020", .028", and custom sizes
- Spray pattern: full circular cone (top-down spray)
- Welded air cap
- Sanitary design and connections
- Seamless tubing
- Available with insertion graduations to ensure optimal performance
- Anti-bearding setups

53992 Top-Spray  
Nozzle with Lance



## Applications

- Fluid bed granulation
- Wurster coating

### Improve granulation for your R&D fluid bed applications

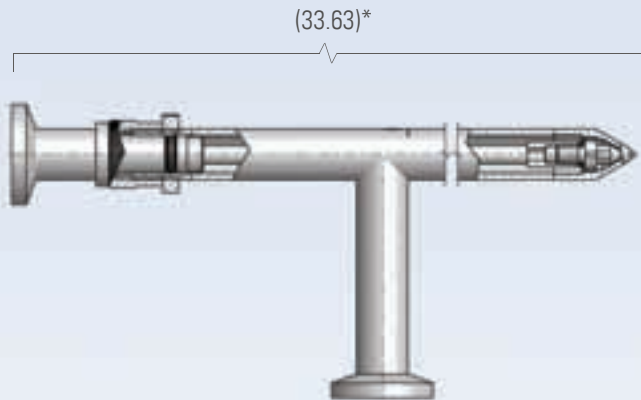
Get the most out of your R&D fluid bed machine with the new 53992 top-spray granulating nozzle and lance. Available with insertion graduations to ensure optimal spray height for fluid bed granulation as well as anti-bearding setups to reduce clogging, the lance is designed to provide superior spray performance and improve batch uniformity.



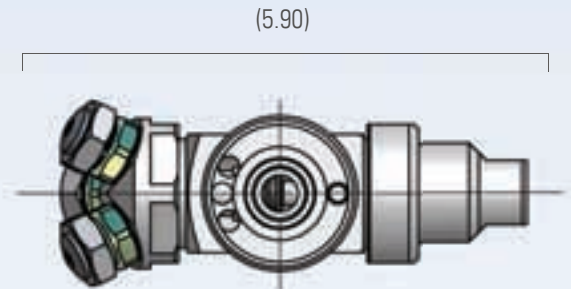
# Fluidized Bed Nozzles



## Dimensions



53992 Top-Spray Granulating Nozzle with Lance



46920 Cluster Head Top-Spray Granulating Nozzle



54057 Fluid Bed Coater Nozzle



46915 Fluid Bed Coater Nozzle

\*Custom lengths available

For more information on fluid bed systems, call us at 630-665-5001, visit us online at [www.fluidairinc.com](http://www.fluidairinc.com) or email us at [fluidairinfo@spray.com](mailto:fluidairinfo@spray.com)



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Spray Nozzles



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