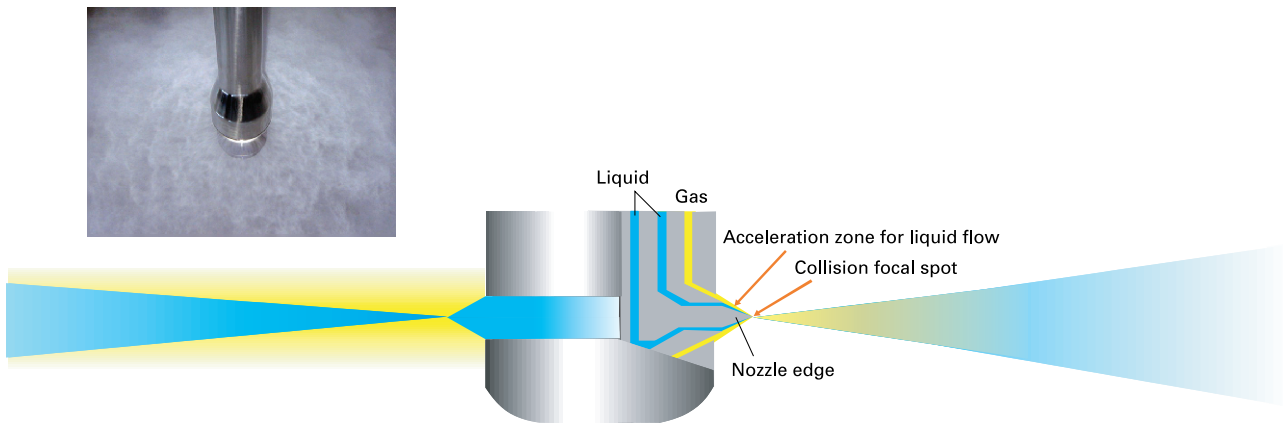


Four-Fluid Nozzle(patented in Japan and overseas)

The theory is : The nozzle has each two passages for gas and liquid, and the nozzle edge profile generates one collision focal spot for fluid exit. In addition, the nozzle edge profile generates liquid thinly with a high-speed gas flow and the shock wave created at the tip edge (focal spot of collision of fluids) produces the mist.

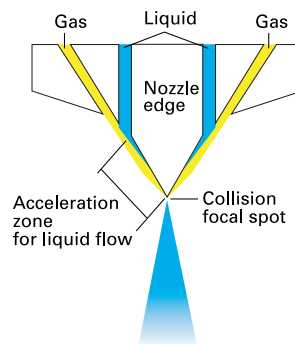
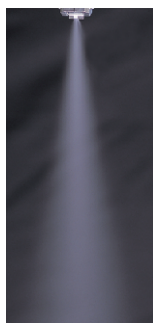
production model



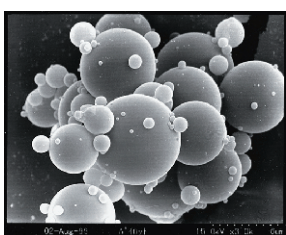
The features is :

- Large atomizing capacity of particles in single micron size.
- Controllable liquid particle size.
- Ability to atomize two kinds of liquid mixing at nozzle tip.
- Sharp and narrow particle size distribution is available.
- Continuous atomizing operation is possible for hours without the trouble of clogging, as the nozzle has a self-cleaning function and the nozzle is outside mixing type.
- By changing the edge diameter, adjustment with various production volumes can be achieved.

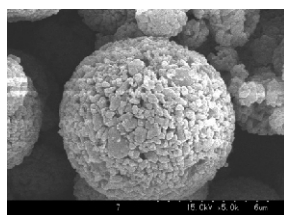
laboratory model



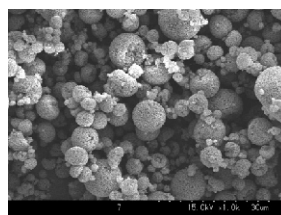
Dried particles with Micro Mist Spray Dryer



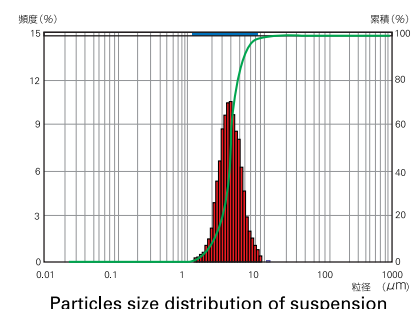
Dried particles from solution



Dried particles from suspension



0 30 (μm)



Particles size distribution of suspension