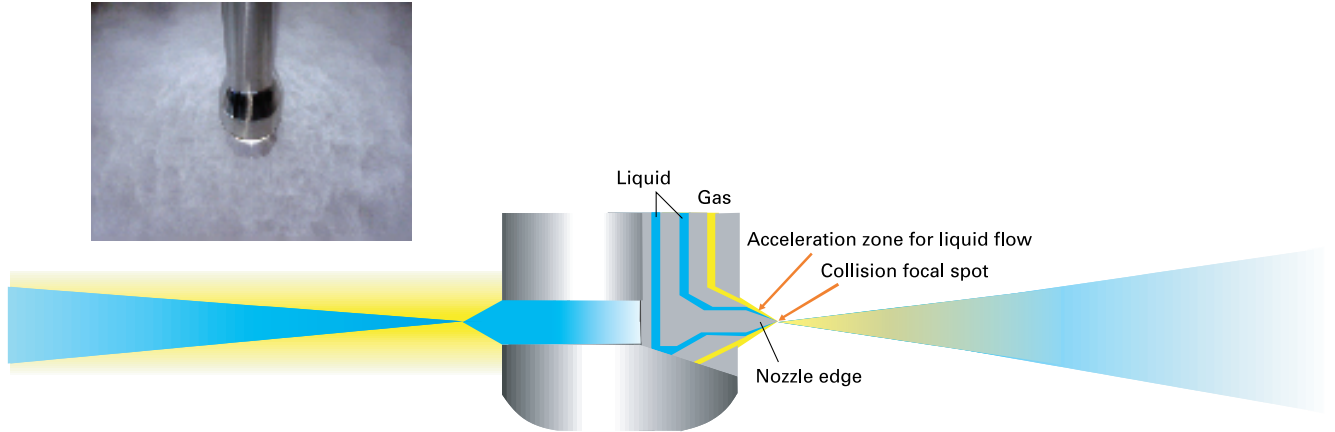


Four-Fluid Nozzle(patented in Japan and overseas)

The theory is : The nozzle has two passages each for gas and liquid, and the nozzle edge profile generates one collision focal point at 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 point of collision of fluids) produces the mist.

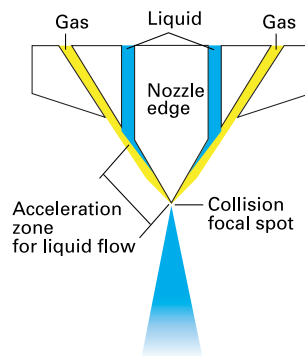
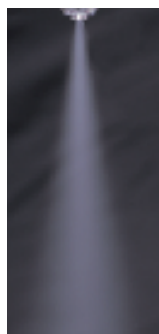
production model



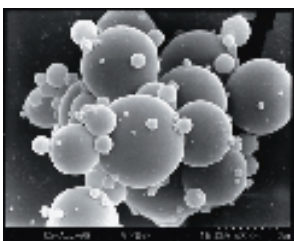
Features :

- 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 is an outside mixing type.
- Adjustment of various production volumes can be achieved, when changing the edge diameter.

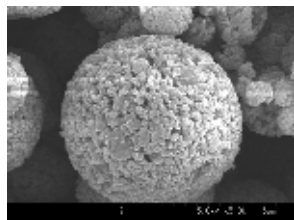
laboratory model



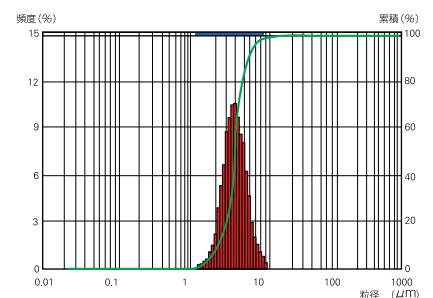
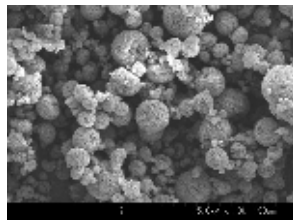
Dried particles with Micro Mist Spray Dryer



Dried particles from solution



Dried particles from suspension



Particles size distribution of suspension