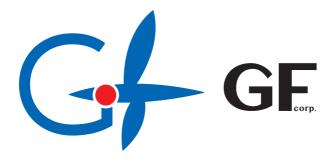
MMSD can atomize liquid in fine particle.



Micro Mist Spray Dryer



The kinds of atomized doplet size are classed as **the spray** (over 10 microns) or **the mist** (less 10 microns). It is Micro Mist Spray Dryer that sprays much the mist with our atomization nozzles.



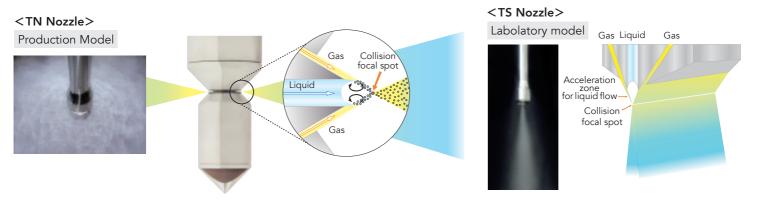
Smallest droplet in the industry Atomization Nozzle for Spray Dryer Mass production

- Atomize sharp and narrow particle size.
- [FEATURE] Continuous atomizing without the trouble of clogging because of the outside mixing type. Adjust with various production volumes.

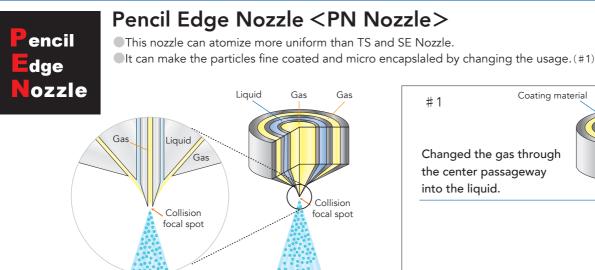
rī pire ozzle

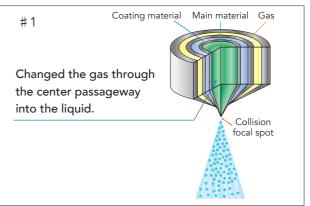
- Tri Spire Nozzle <TN Nozzle ><TS Nozzle >
- This model is the new type based on 'Four-Fluid Nozzle'.
 - Atomize smaller droplet than Four-Fluid Nozzle because the liquid is spreaded out thinly by the high-speed gas and the droplets collide with each other.
 - Achieve the cost reduction because of one liquid passage way and two air passage way.
 - Prevend abrasion of the nozzle because the air doesn't hit its surface directly.

Patented in Japan



Four-Fluid Nozzle < CN Nozzle > < SE Nozzle > This structure is order to make a point the droplet spreaded out by the air from each passage way. Manufacture mists with the shock wave generated at the nozzke edge. luid Atomize two types of the liquid. ozzle Liauid Gas <SE Nozzle> Gas Had been patented Labolatory model Nozzle Liquid Gas <CN Nozzle> edae High-speed gas High-speed gas Production Model Acceleration zone for liquid flow Collision focal spot Collision focal spot Nozzle edge





Spray Dryer Equipped with Original Atomizing Nozzle

Micro Mist Spray Dryer

- Performs many kinds of experiments using the Four-Fluid Nozzle features.
- By making particles with single micron diameter,

[FEATURE]

it can dry the liquid is difficult to dry or needs to dry under low temperature. Touch screen control system.



Product Model

- This model is for product with same ability as MDL series.
- Atomize droplets are easy to dry, so the drying chamber gets more smaller.
- We design and manufacture MDP series on your needs, for example evapolation capacity, utility and installing space.

Installation Experiences

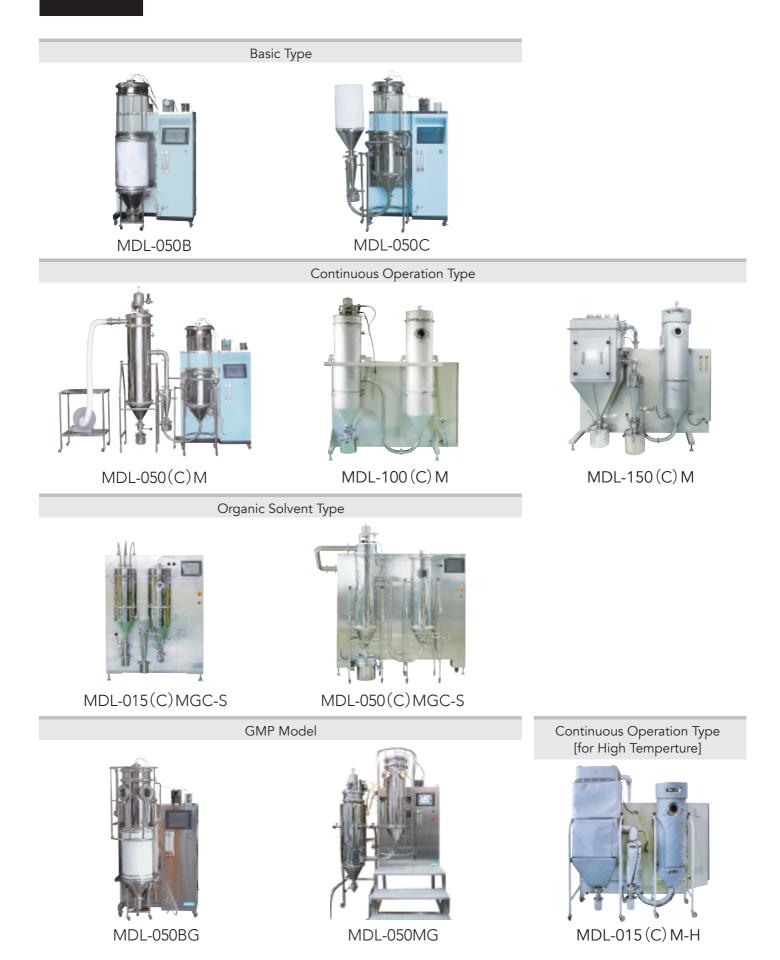
MDP-020 MDP-030 **MDP-050 MDP-200**

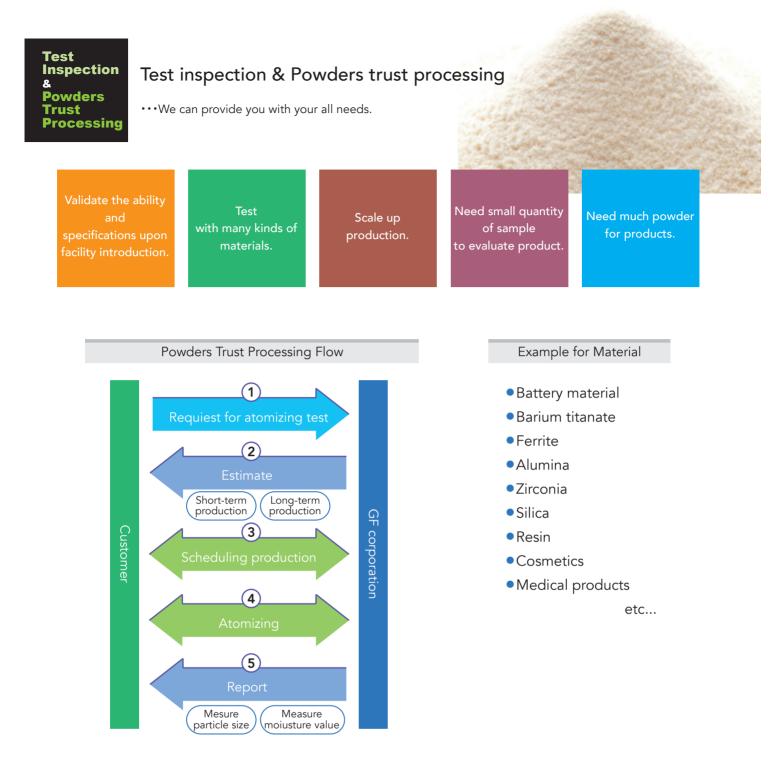


Laboratory Model

Produces very fine and uniform pouder from a small quantity of sample.

- Easy to clean, disassemble and ressemble.
- Many options are available for various purpose.





Equipments	

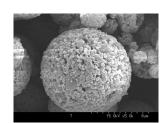
Туре	Nozzle	Water evapolation amount
MDL-015 (For Organic Solvent)	TS Nozzle	1kg/H
MDL-015 (High-Temperature Type)	SE Nozzle	1kg/H
MDL-050	PN Nozzle	3kg/H
MDP-030	TN Nozzle	30kg/H
MDP-050	CN Nozzle	50kg/H
DJE-003R	Rotary Atomizer	3kg/H

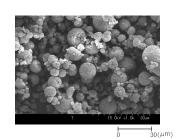
Evaluation Device



Dried paticle with Micro Mist Spray Dryer







Dried particles from suspension

Dried particles from solution



GF corporation

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