

Ultra-small droplet coating dispenser

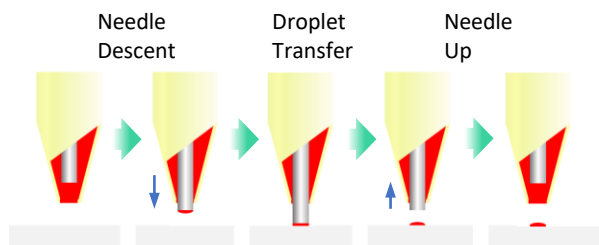
Femto-SpotterTM

FS-100M



Features

- ✓ A dispenser that can apply and transfer ultra-small droplets of liquid
- ✓ Wide range of fine coating amounts: from fL to nL
- ✓ Compatible with a wide range of viscosities, from low to high
- ✓ Coating diameter from several μm to several hundred μm
- ✓ Compatible with filler-containing liquids
- ✓ High coating positional accuracy
- ✓ No clogging
- ✓ Resistant to temperature changes
- ✓ No dead volume
- ✓ Compact design
- ✓ Customizable.



Method	Needle transfer method
Coating amount	fL~nL *
Coating diameter	5 μm ~1mm *
Corresponding viscosity	1~200,000mPa · s
Dimensions	36mm x 36mm x 170mm **
Weight	Approx. 200g

*Depends on the coating body and coating target material

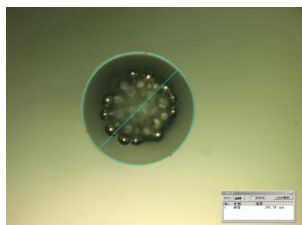
**Excluding protrusions

Purpose

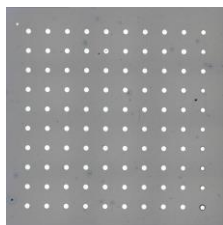
- ✓ Solder paste
- ✓ Conductive metal nano ink
- ✓ Microbeads
- ✓ Optical resin materials
- ✓ High-cost biomaterials
- ✓ Adhesives

Example

- ✓ Installation onto chip mounter
- ✓ Integration with laser processing machine
- ✓ Offered in ultra-fine coating system
- ✓ Development of mass production coating system



Ex. of solder paste application (diameter $\phi 200\mu\text{m}$)



Ex. of Ag ink application (diameter: $\phi 120\mu\text{m}$)



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