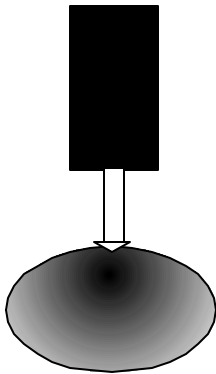


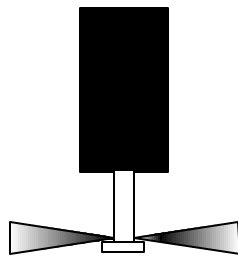
How to make fine particles using ultrasonic atomizers

Ultrasonic atomizers come in many different frequencies and are very good at converting various liquids into fine like particles. Without the use of air pressure, liquids enter either the rear or side of the atomizing converter, where they are pumped to the vibrating surface used in making fine particles. The vibrating surface can come in many shapes and styles for different coating and process applications. Below is the type of tips offered.

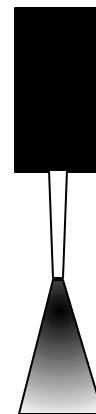
Umbrella Tip



Radial Tip



Cone Tip



For uniform particle size distribution, ultrasonic atomizers have to be adjusted in order to hit the “sweet spot” so that the liquid being processed is efficiently converted to spheres for the application. To adjust the atomizer for manufacturing spheres, the easy steps below will help with the application.

1. Adjust flow rate of liquid being processed within the processing limits of the atomizer.
2. Place a dark background (black construction paper) behind the liquid being processed.
3. Adjust power level of the atomizer converter with the power control knob located at the front of the generator. As the power is increased the liquid will begin to atomize, some will drip. Keep increasing the power, a point will be reached where all the liquid pumped, will form a thin well on the atomizer tip and no longer drip from the pump flow. Looking at the particles made in front of the dark back ground should at this point be misty and appear like smoke. Increasing the power level further, the particles will still be within atomizer “sweet spot” of efficient processing. Additional power will cause the liquid to be thrown off the atomizer tip in chunks of irregular drops, mixed with fine particles, not suitable for efficient processing.