Various size probes for Probe Sonicator

Also known as Horns

Horns (also known as probes) are made from titanium and machined to specific sizes and shapes. When driven at their resonant frequency, they expand and contract longitudinally. This mechanical vibration is amplified and transmitted down the length of the probe. In liquid, the probe causes cavitation which constitutes the main mechanism for sample processing.

Choosing the appropriate horn is extremely important. The sample volume to be processed is directly related to the tip diameter. Smaller tip diameters (Microtip probes) deliver high intensity sonication, but the energy is focussed within a small, concentrated area. Larger tip diameters can process larger volumes, but offer lower intensity.

SPECIFICATIONS:

Part Number	Tip Diameter	Processing Capacity	Power Ratio	Amplitude (microns)
PPS-2	Ø 2	0.5 ~ 5 ml	1 ~ 40%	320 µm
PPS-3	Ø 3	3 ~ 10 ml	1 ~ 50%	380 µm
PPS-6	Ø 6	10 ~ 100 ml	1 ~ 70%	200 µm
PPS-8	Ø 8	20 ~ 200 ml	1 ~ 80%	160 µm
PPS-10	Ø 10	30 ~ 300 ml	1 ~ 90%	140 µm
PPS-12	Ø 12	50 ~ 500 ml	20 ~ 95%	120 µm

Amplitude mentioned is calculated at 100% power.

Spare/Additional Probes are to be attached with a set of wrenches especially designed for easily removing & attaching the probes to the ultrasonic convertor.