

MICROTIPS

Two types of microtips are available to enable processing small samples at very high intensity – a tapered microtip and a stepped microtip.

The tapered microtip screws into the ½" (13 mm) threaded end probe in place of the replaceable tip.

The stepped microtip/probe assembly consists of two parts, and screws into the converter in place of the probe. Capable of reaching into narrower vessels than the tapered microtip, the stepped microtip assembly can process volumes as small as 150 µl. Microtips are fabricated from titanium alloy Ti-6Al-4V and are autoclavable.

CAUTION: In order not to exceed the tensile limit of the titanium, do not operate the equipment beyond the maximum amplitude limits listed below when using a microtip. Ignoring this caution will cause the microtip to fracture.



PART NO.	TAPERED MICROTIP*			STEPPED MICROTIP/PROBE ASSEMBLY**			
	630-0418	630-0419	630-0420	COUPLER*** 630-0421	STEPPED MICROTIP 630-0423	STEPPED MICROTIP 630-0422	PROBE 630-0435
TIP DIAMETER	⅛" (3 mm)	⅜" (5 mm)	¼" (6 mm)		⅝" (2 mm)	⅛" (3 mm)	¼" (6 mm)
INTENSITY	Ultra high	Very high	High		Ultra high	Very high	High
VOLUME (batch)	1-10 ml	3-20 ml	5-50 ml		150µl-5 ml	250µl-10 ml	10 ml - 50 ml
MAXIMUM AMPLITUDE	40%	65%	75%		40%	40%	40%
micrometers [†]	228	203	203		250	210	150
(microns)							
inches [†]	.0090	.0080	.0080		.0098	.0083	.0059
LENGTH [#]	6⅝" (159 mm)	6" (155 mm)	5⅝" (142 mm)	3⅝" (9.2 mm)	4½" (116 mm)	5⅜" (136 mm)	4⅞" (113 mm)

* Screws into a ½" (13 mm) threaded end probe Part No. 630-0220 in place of the replaceable tip. Connecting stud ¼ - 20.

** Consists of coupler and stepped microtip. Screws into the converter instead of the ½" (13 mm) probe.

*** Connecting stud ½ - 20.

† At maximum amplitude.

Because microtips are tuned to resonance, their length may vary slightly due to variation in the titanium's modulus of elasticity.

EXTENDERS

Extenders screw into threaded end probes of identical diameter in place of the replaceable tip. Recommended when working with tall narrow vessels such as Erlenmeyer flasks. Extenders are fabricated from titanium alloy Ti-6Al-4V and are autoclavable. Also available on special order with threaded ends to accept replaceable tips.* Connecting stud ¼ - 20.

½" (13 mm) half wave extender - 5" (127 mm) long. Part No. 630-0410.

¾" (19 mm) half wave extender - 5" (127 mm) long. Part No. 630-0409.

1" (25 mm) half wave extender - 5" (127 mm) long. Part No. 630-0444.

½" (13 mm) full wave extender - 10" (254 mm) long. Part No. 630-0517.

¾" (19 mm) full wave extender - 10" (254 mm) long. Part No. 630-0518.

1" (25 mm) full wave extender - 10" (254 mm) long. Part No. 630-0519.



*Do not use an extender with replaceable tip when processing samples containing organic solvents or low surface tension liquids. Use a solid extender instead. See caution on page 8.

Note: Because extenders are tuned to resonance, their length may vary slightly due to variations in the titanium's modulus of elasticity.

Longer extenders are available upon request.