

INTENDED USE

MST Phacoemulsification tips are used in conjunction with a phacoemulsification machine and handpiece to liquefy and aspirate lens material from the eye during cataract surgery.

The tips are hollow core titanium, and are of varying size, length, shape and color.

The tips are attached to the phacoemulsification handpiece with threads, and can be used with a silicone sleeve (coaxial) or unsleeved (bimanual).

DIRECTIONS FOR USE

1. Use the provided wrench to attach the tip to the desired phacoemulsification handpiece. Ensuring that the tip is firmly in the wrench before use will prevent the wrench from stripping. The tip should be firmly attached to ensure proper operation. Over tightening may result in damage to the tip or to the wrench.



2. Inspect the device before each use to ensure that it is free of damage, burrs or other irregularities. Do not attempt to modify the tip.
3. To install the irrigation sleeve, press or twist the sleeve onto the handpiece threads and adjust the sleeve to the preferred exposure and orientation, usually having 1-2mm of tip exposed and with sleeve irrigation holes rotated 90° from any bevel/bend.



4. See operator's manual for phacoemulsification for information on operation and care.

CLEANING

CAUTION: Phacoemulsification tips, sleeves and wrenches must be cleaned thoroughly after each use.

1. Immediately following use, remove the silicone sleeve. With the tip on the handle and the sleeve removed, flush the tip lumen with 10 cc of DI water three times.
2. Flush the silicone sleeve lumen with 10 cc of DI water three times, using fresh water each time.
3. Rinse the tip (still on the handle), silicone sleeve, and wrench in clean DI water.
4. Using a wrench, remove the tip from the handle. Leave the tip inside the wrench
5. Sonicate the silicone sleeve and the tip (still in the wrench) in fresh DI water for three minutes. Make sure that the silicone sleeve is filled with water.
6. Using a syringe, blow 10 cc of air through the needle-wrench assembly three times from each end.
7. Flush the silicone sleeve lumen with 10 cc of air three times.
8. Dry the devices with a lint-free cloth.

NOTE: Phacoemulsification tips, sleeves, and wrenches may be ultrasonically cleaned. Use DI water and ultrasonic per manufacturers instructions. Place tip on mat or nonmetallic surface and avoid contact with other instruments.

STERILIZATION

CAUTION: Phacoemulsification tips, sleeves, and wrenches must be sterilized prior to each reuse.

1. Ensure that parts are cleaned prior to sterilization.
2. Sterilize to your facility's standard practice or to industry standards such as:
 - ANSI/AAMI ST46, "Steam Sterilization and Sterility Assurance in Healthcare Facilities"
 - EN 554, "Sterilization of Medical devices Validation and routine control of sterilization by moist heat"
 - ANSI/AAMI ST79, "Comprehensive guide to steam sterilization and sterility assurance in health care facilities"

MST recommends the sterilization parameters listed below. MST phaco tips are intended to be sterilized in the provided wrench. The sterility assurance level achieved with these parameters must be validated by each facility.

Gravity Unwrapped	Pre-vacuum Unwrapped	Pre-Vacuum Wrapped
132°C (270 °F) 15 min	132°C (270°F) 4 min	132°C (270°F) 4 min, dry 15 min

STORAGE AND HANDLING

MST Phacoemulsification Tips are intended to be used up to 20 times. Silicone sleeves may be used until damage is observed. Correct handling and storage will help extend the life of the product. The tips are easily damaged, and must be inspected prior to each use. Do not use the tip or sleeve if dings, cracks, burrs or other damage exists. Avoid contact with other instruments. Store in wrench whenever practical. Do not attempt to repair, bend or otherwise modify the tip.



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