PHENIX FIBER OPTICS

fibersect Preventative Maintenance

Empty Waste Bin
Frequency: At least daily and **ALWAYS** prior to moving/rotating/shipping the fibersect
Notes: Customer must determine necessary frequency by monitoring fill level throughout the workday. Empty before it is full; frequency will vary for single/multi-fiber cutting.

Charge Battery
Frequency: Overnight or as needed. A slow flashing blue BATT light indicates that the battery needs charging; a fast flashing blue light indicates charging; a solid blue light indicates full charge.
Notes: During continuous use, it is best to leave the fibersect connected to a power source.

Monitor for Saw Wear
Frequency: Monitor cut time and quality every 25,000 cuts.
Notes: Blade lifetime for the fibersect.multi.2 and fibersect.single can exceed 750,000 cycles when used correctly
Blade lifetime will vary depending on size and number of fibers being cut per cycle. Ensuring a proper cut length without cutting the ferrule will help increase blade lifetime.

- Get a baseline of the cut quality. There may be some minor chipping on the edge of the fiber when new that should polish out easily. Documenting initial cut quality and tracking it on a few ferrules every 25,000 cycles will provide a good picture of the saw and its lifetime. It should be a long time before you see any noticeable changes in cut quality, but when you start noticing more significant defects in the cut face, it indicates the blade is wearing out. By monitoring cut quality regularly over time, you can preemptively change the blade before cut quality drops below your standard.
- Cut time for fibersect.multi and fibersect.multi.2 will be approximately 1-3 seconds when new, and for the fibersect.single, 2-5 seconds. Cutting time will vary based on size and number of fibers being cut. Monitor cut time over time to watch for increases. If cut time for any model of fibersect exceeds 8-10 seconds, the blade is possibly worn or the unit needs cleaned.

Clean fibersect
Frequency: 25,000 cycles or if debris build-up is noticed in the system.
Notes: Open the fibersect and vacuum it out. **DO NOT USE COMPRESSED AIR**

- This will not void the fibersect warranty, provided the unit is not adjusted or modified by the customer.
- Manually move the saw assembly throught its full range of motion. This will clear any debris hindering the saw assembly's motion.
- For Non-Vacuum Units: Empty waste bin and use a vacuum to clean any excess debris in the unit.
- For Vacuum-Equipped Units:
  - Make sure there aren't any blockages at the entry of the vacuum channel inside the fibersect.
  - The vacuum channel can be checked from the inside of the unit, looking down at the inlet below the saw, as well as looking into the vacuum outlet on the side of the unit.
  - Any build-up or blockages in the channel can be cleared by gently inserting a screwdriver or similar tool through the vacuum outlet on the side of the unit. When broken up, it is easy to vacuum the debris out.
  - Make sure the vacuum is attached and functioning. Debris collection is the best way to increase longevity.

Vacuum Functionality
Frequency: Monthly or if vacuum suction appears to have decreased.
Notes: Ensure the vacuum is set to Level 5 or higher; see Vacuum Setup Instructions and vacuum manual.

- Ensure there is no debris build-up in the vacuum entry, in the vacuum tube, or in the fibersect vacuum channel. Clean any debris from the air inlets on the sides and top of the unit.
- Ensure the filter bag is not full by either inspecting from the vacuum inlet or pressing the side of the bag. To replace, follow the instructions in the vacuum manual.