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# Why is there an energy limit on the handpieces from TOOsonix?

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The TOOsonix system converts electrical energy from the power grid to the final acoustic ultrasound signal emitted from the ultrasound transducer in the handpiece.

The system uses an internal calibration curve encoded into each handpiece during the factory calibration. The calibration curve is based on specialized measurements which calculate and regulate how much electrical power is needed to produce the acoustic energy chosen in the operational menu.

As with any other high power ultrasound transducers, the components generating the ultrasound in the TOOsonix handpiece is however subject to some degradation with use. The calibration therefore gradually become inaccurate, and the actual energy emitted from the handpiece might become lower than what the setting in the software indicate.

The main driver for transducer degradation is the total accumulated emitted energy. The software therefore includes an “energy credit counter”, which gives a clear indication of the energy emission left in the handpiece.

After expiration of the energy amount in the handpiece it will be blocked for further operation, and a new valid handpiece has to be connected to continue any operation.

We recommend that expired handpieces are disposed as electronic waste materials at approved sites. Alternatively, handpieces can always be returned to TOOsonix for safe disposal.

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## Contact

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