

Quality



The Importance of Quality

You may have a steadfast chuck and a guide that doesn't twitch, but without electrodes you can trust, all of that counts for nothing. That's why we do not compromise on quality. With our multi-stage quality assurance process, we make sure that everything is in place, so that you don't have to.

Our Metrological Arsenal

Laser Micrometer—This allows us to measure the diameter across an entire electrode's length, in 360 degrees, ensuring consistency.

Custom Microscopes—with these, we can measure the internal and outer diameters and wall thickness of tubes.

Flow Testing—This is used to check if an electrode's internal diameter is consistent throughout its entire length.



Precision

We go to great lengths to ensure that our electrodes meet stringent standards: yours.

Integrity

In our relationships with customers, we place trust above all else.

Awareness

We're invested in your success. We make sure parts are ready when you need them, made to your specifications.

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Wire Insert

Outer Diameter

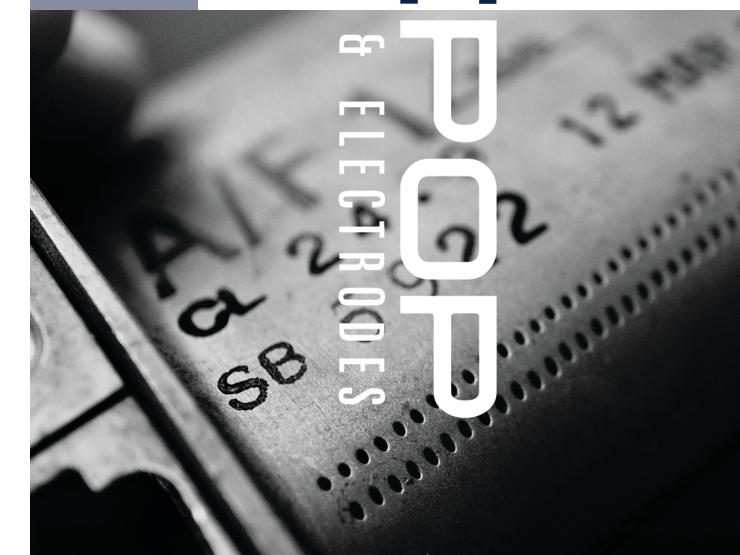
Wall Thickness

Internal Diameter

Aerospace | Medical | Defense | Nuclear



HOLEPOP
EDM SUPPLIES & ELECTRODES



Electrodes



Brass

The bread and butter of EDM hole popping, brass cuts through most materials with speed and efficiency.

Copper

Slow and steady, copper has the endurance to cut through materials that are too tough for brass.

Tungsten Carbide

When all else fails, this adamantine material gets the job done. Tungsten carbide's unique resistance to stressors gives it strength and allows it to be manufactured in smaller sizes than both copper and brass.

All electrodes are fully customizable across all dimensions. We stock many electrode variants—single hole and multi-channel tubes along with rods.



Guides



Ceramic

The go-to guide. Ceramic guides boast all of the qualities needed to ensure on-target drilling every time. Get the most out of your electrodes, without breaking the bank.

Silicon Nitride

A state-of-the-art material engineered for low thermal expansion, extreme hardness, low electrical conductivity, resistance to thermal shock, and low electrical conductivity, silicon nitride confers unparalleled durability to a guide. Silicon nitride guides also feature a unique polygonal guiding surface profile, which minimizes friction.

All guides can be customized across all dimensions. Tip cut-outs, tapered tips, and variable guiding surface lengths are just a few examples of possible modifications.



Accessories



Dielectric Fluid

If an artist's medium is oil, so is an EDM operator's. We stock only the highest quality synthetic and petroleum-based dielectric fluids. Boasting high flash points, low aromatic content, and a high dielectric strength that strikes a balance between excessive and insufficient resistance, our oils put an emphasis on performance and safety.

Chucks

We stock precision chucks from Yukiwa and Albrecht, companies both known the world over for quality. An electrode is only as good as the chuck holding it.

Copper Tungsten Foil

Malleable and customizable, copper tungsten foil is a very flexible material with myriad applications.

