OUR SERVICES

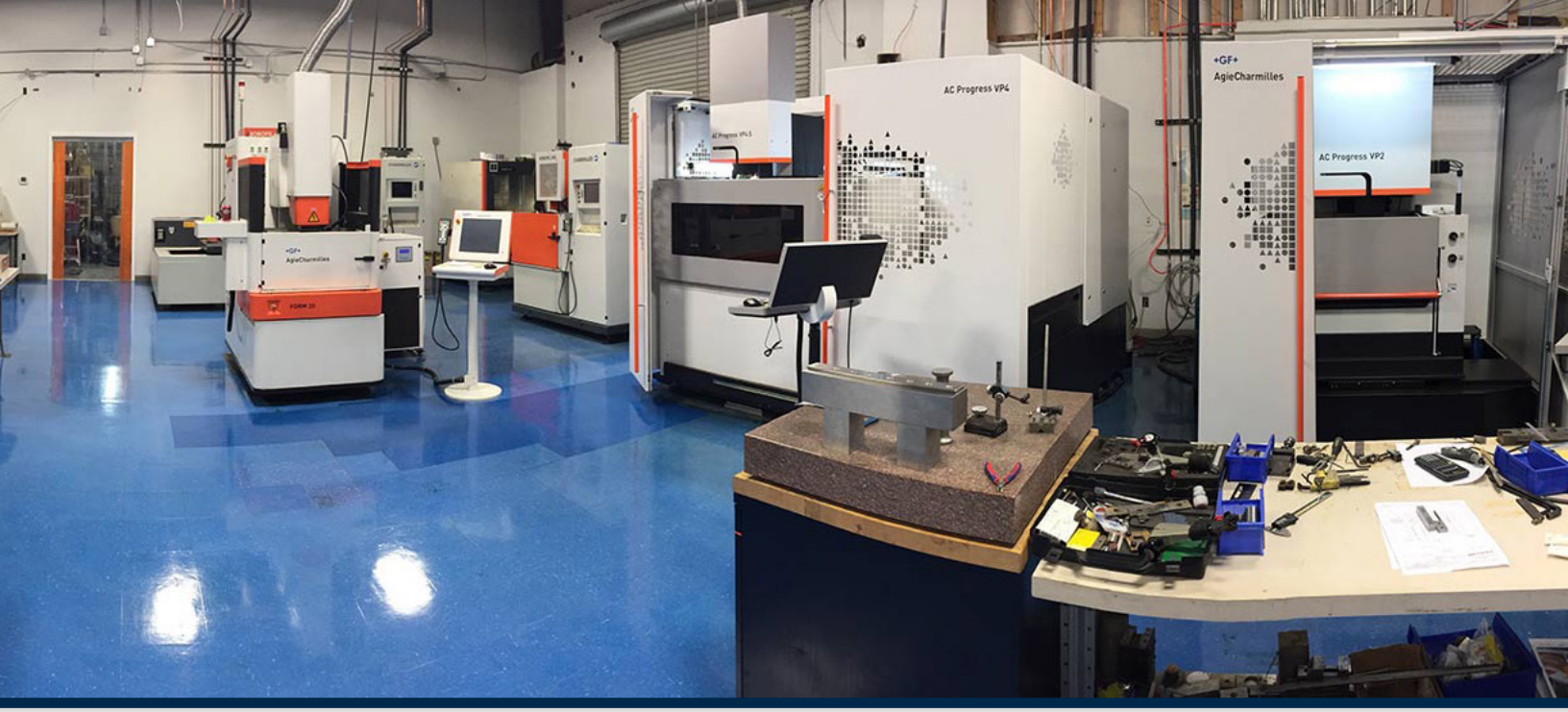
EDM Technologies is the largest electrical discharge machining (EDM) job shop in the southeast. We are an ISO 9001:2015 certified company specializing in EDM for more than 30 years.

WIRE EDM

EDM Technologies has specialized in wire EDM machining since 1988, and has grown to become the largest wire EDM job shop in the southeast.

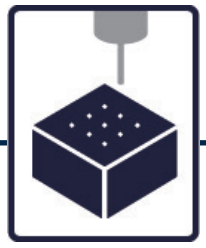
SINKER EDM

EDM Technologies offers sinker EDM machining, also known as conventional EDM, ram EDM, die-sinker and plunge EDM.



OUR STORY

Our professional staff, combined with state of the art EDM machines and an exceptional client base, has transformed EDM Technologies into a leader in the world of electrical discharge machining.



SMALL HOLE EDM

Our small hole EDM machines are capable of drilling small holes in any electrically conductive material regardless of hardness.

CNC MACHINING

If you design it, we can build it. To support your precision tooling needs, we have a complete in-house precision machining department.

WIRE EDM

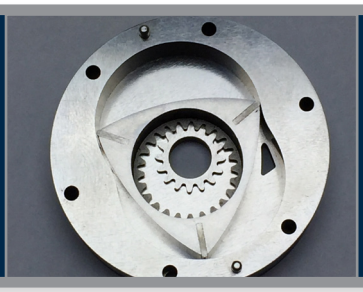
WIRE EDM

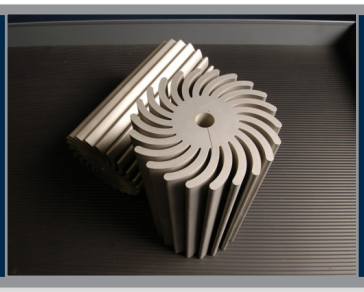
EDM Technologies has the wire EDM capacity to meet your largest production needs, especially those that would overwhelm the capacity of the average size shop.

Wire EDM—also known as wire cutting, wire burning, and traveling wire EDM—uses spark erosion to machine or remove material with a traveling wire electrode from any electrically conductive material. The wire electrode usually consists of brass or zinc-coated brass material.

EDM Technologies has 12 high-speed wire EDM machines that are fully automated and operate 24/7. Features of our machines include:

- Maximum taper angle: 45 degrees
- Maximum cutting height: 20.5" tall
- Wire diameters from .002"-.010"
- Tolerances can be held to .00007"
- Best wire EDM finish in tool steel/carbide: 4 micro-inch
- Best wire EDM finish in aluminum: 6 micro-inch
- Any conductive material can be wire EDM machined, including aluminum, brass, carbide, copper, hastalloy, inconel, steel, stellite, and titanium.





SINKER EDM

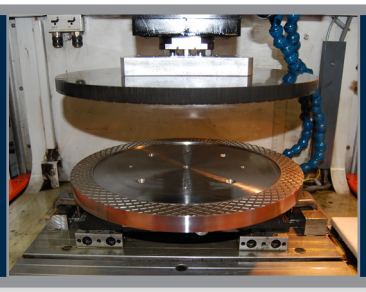
SINKER EDM

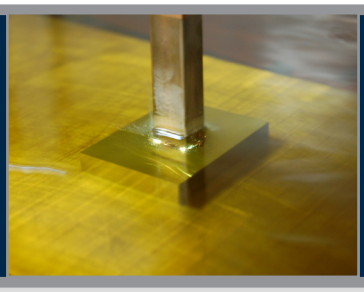
Sinker EDM machining, like wire EDM, uses spark erosion to machine blind cavities. This process employs machined electrodes that produce sparks along the surface of the electrode to sink or plunge the cavity. The sinker EDM process is ideal for a number of applications:

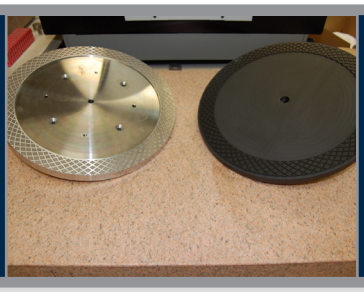
- Blind cavities
- Intricate details
- Sharp corners
- Fine finishes (surface finishes to 10 micro-inch)
- Thin walls and cross sections
- Machining threads into hardened parts
- Blind keyways
- Internal splines, squares, or hexes
- Tolerances can be held to .0001”

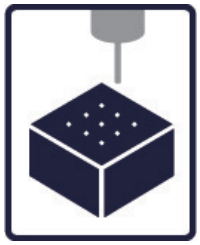
Any conductive material can be sinker EDM machined, including aluminum, brass, carbide, copper, hastalloy, inconel, steel, stellite, and titanium.

EDM Technologies has complete in-house electrode manufacturing capabilities. Electrodes for sinker EDM machining are generally made from copper, graphite, or tungsten depending upon work piece material and electrode wear requirements.









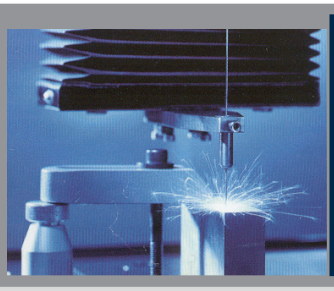
SMALL HOLE EDM

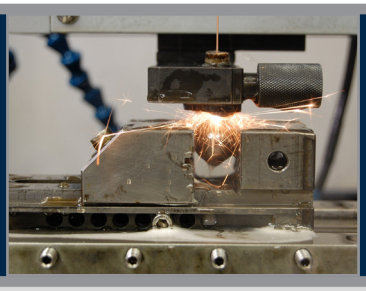
SMALL HOLE EDM

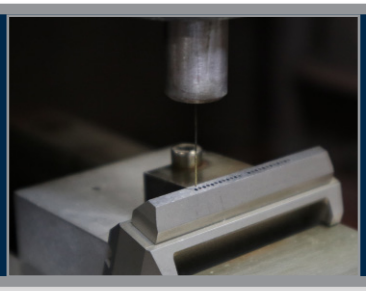
EDM Technologies has several small hole EDM machines capable of EDM drilling or “hole popping” small holes in any electrically conductive material regardless of hardness.
Small hole EDM drilling uses the same spark erosion principle as sinker or ram EDM. Small hole EDM drilling is ideal for putting ejector holes in hardened punches, coolant holes in cutting tools, vent holes in molds, and start holes for wire EDM.

Our small hole EDM machining capabilities:

- Small hole EDM machines use the EDM process to blast through hardened
- materials that cannot be conventionally machined.
- Small hole EDM machines ideally complement our wire EDM machines with the ability to quickly blast wire EDM start holes in our work pieces for minimal
- material preparation times, which gives the fastest turnarounds possible to
- our customers.
- Small hole EDM diameters range from .155mm to 3.0mm.
- Part heights up to 12” can be small hole EDM drilled.
- Any conductive material can be small hole EDM machined, including aluminum, brass, carbide, copper, hastalloy, inconel, steel, stellite, and titanium.







CNC MACHINING

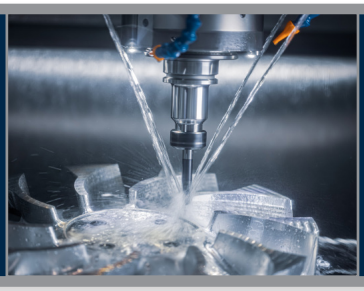
CNC MACHINING

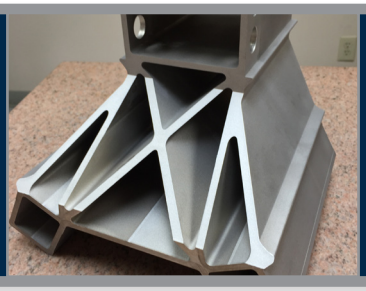
If you design it, we can build it. To support your precision tooling needs, EDM Technologies presents a complete in-house precision machining department. Whether enhancing our wire EDM, sinker EDM and small hole EDM services or complete build-to-print manufacturing, our extensive CNC (Computer Numerical Controlled) machining capabilities can satisfy the most intricate precision tooling requirements.

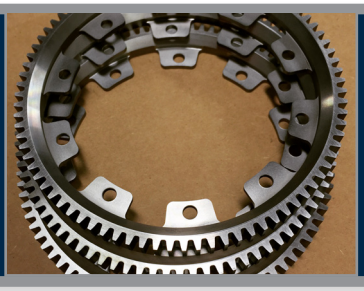
Our precision machining capabilities include:

- CNC milling
- Grinding
- Turning
- Engraving
- In-house heat treatment

We maintain an inventory of steels (hard/soft), aluminum, brass and carbide to provide emergency tooling when needed.







QAS International

REGISTRATION CERTIFICATE

This document certifies that the administration systems of

EDM Technologies, Inc.

325 Bell Park Drive, Woodstock, GA 30188, USA

have been assessed and approved by QAS International to the following management systems, standards and guidelines:

ISO 9001:2015

The approved administration systems apply to the following:

EDM Technologies, Inc., located in Woodstock, Georgia, is an electrical discharge machine shop using state of the art machines to manufacture precision tools. Clause 8.3, Design and development of products and services, is not applicable to the Quality Management System.

Original Approval	***27th February 2018***
Current Certificate	***27th February 2022***
Certificate Expiry	***27th February 2023***
Certificate Number	***US1727***

Signed: Certification Officer

On behalf of QAS International

This certificate remains valid while the holder maintains their administration systems in accordance with the standards and guidelines stated above, which will be audited annually by QAS International. The holder is entitled to display the above registration mark for the duration of this certificate, which should be returned to QAS International upon reasonable request.
Issuing Office: QAS International, 5 Technology Park, Colindeep Lane, London, NW9 6BX, UK

QAS INTERNATIONAL Registered Company