Application Profile

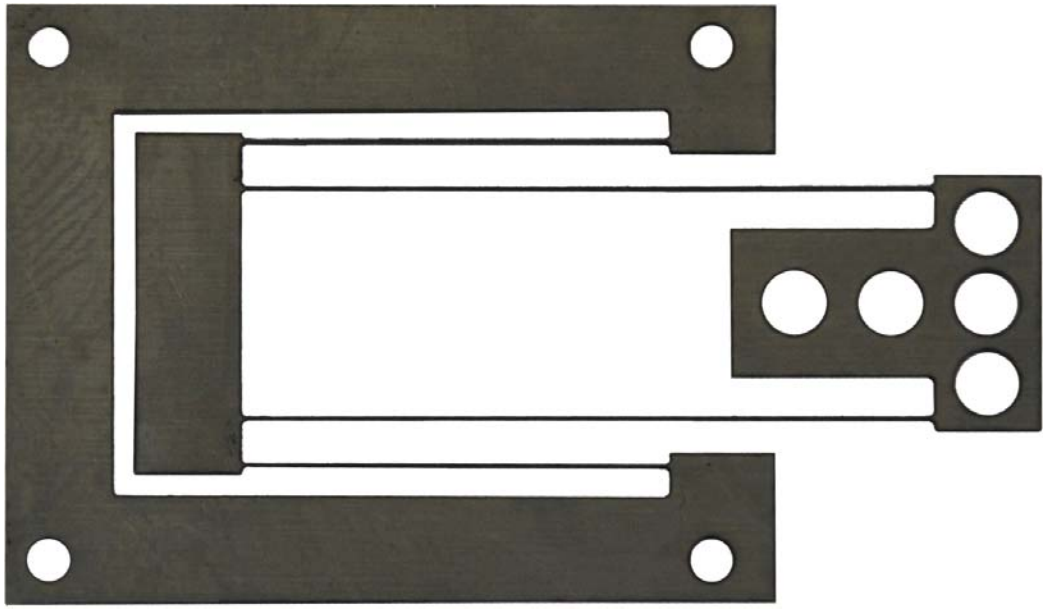
SCIENTIFIC RESEARCH

microwaterjet® is an excellent alternative cutting method to traditional machining for a wide range of materials as compared to EDM or Laser Cutting. The applications are very broad across multiple industries including:

- Research & Development
- Prototyping
- Electronics
- Automotive/Motorsports
- Medical Technology/Tools/Implants/Components
- Watch Making
- Aerospace/Defense
- Art/Jewelry

These parts are flexural cantilevers and are used in pairs as part of a friction testing apparatus in Tribology research. The parts are designed to have a known stiffness which is a function of the web geometry. The tip deflects linearly and elastically as a response to applied forces (in two independent directions) in a range of 0 to 100 µm at the tip of the cantilever. These deflections are extremely precise and repeatable, making it possible to measure low forces (on the order of 10s of µN) by calibrating the force-deflection curve.

The part is made out of Titanium and is 1.90” x 1.1” x 0.020” (48.369mm x 28mm x 0.5mm) with the thinnest portion being 0.008” (0.2mm) with a tolerance of +/- 0.001" (0.025mm).



The **microwaterjet®** process give you the flexibility to help your customer by suggesting alternative materials which may increase performance and reduce overall cost.

micro waterjet

Steve Parette
Product Manager

MICRO WATERJET LLC
13420 Reese Blvd. West
Huntersville, NC 28078
Tel: (704) 948 1213
Fax: (704) 948 1251
sparette@microwaterjet.com
www.microwaterjet.com

AWJ
ABRASIVE WATERJET MICROMACHINING
mm