

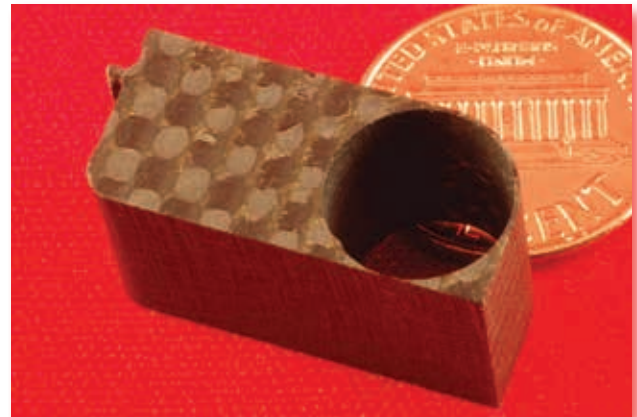
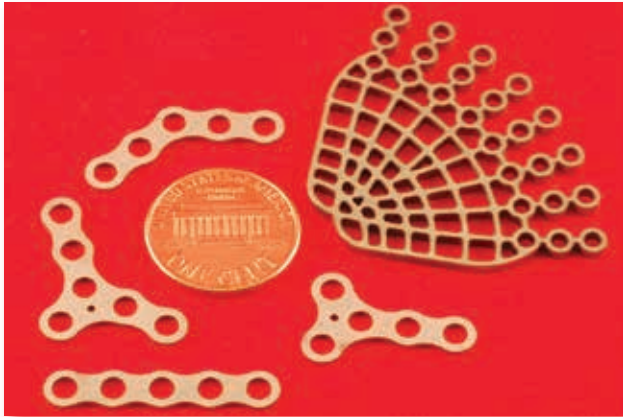


YOUR **PRESCRIPTION**
FOR PRECISION AND
MICRO COMPONENTS



877-661-7377
info@repexact.com
www.repexact.com

Representing Micro Waterjet, LLC



micro|waterjet

- **Proprietary technology**
- **Cuts as narrow as 200 μm (0.008")**
- **Positioning accuracy 3 μm (0.00012")**
- **Wide choice of materials**
- **No Heat Affected Zones (HAZ)**
- **No slag, minimal bur**
- **Suitable for components with multiple internal features**
- **Low setup costs**

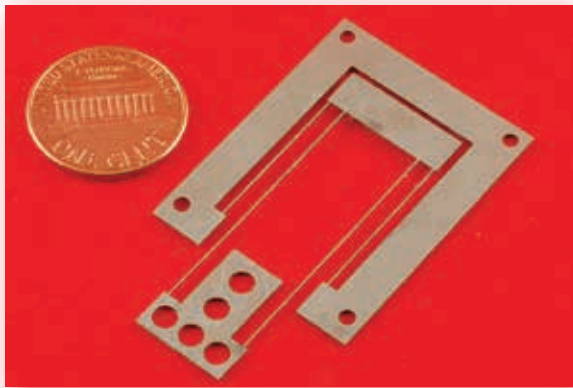
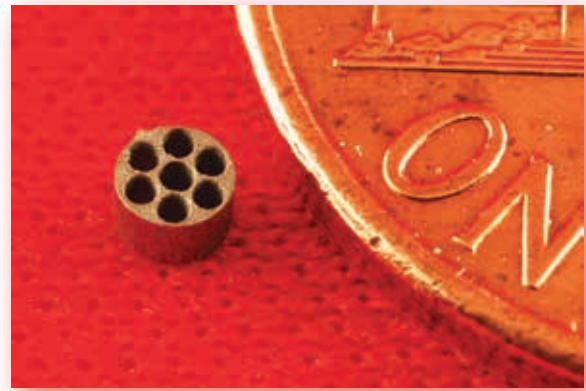
Micro Waterjet, LLC of Huntersville, NC custom manufactures precise custom components from sheet stock using specialized abrasive water jet cutting equipment developed and manufactured by its parent company in Switzerland.

Micro Waterjet's capabilities begin where other waterjet systems end. As opposed to common waterjet technology that is mainly used for cutting large, loose-tolerance items, Micro Waterjet equipment has been specifically designed for handling smaller and fairly thin components, usually palm of hand size and below. The work table accommodates sheets up to 600 x 1'000 mm (just under 24" x 40"), allowing fairly large high precision components to be made, or multiple small components to be manufactured with one fixturing.

The process can cut a wide variety of materials with low process forces and thermal stress, from metals to plastics and rubber. Micro Waterjet's expertise includes manufacturing components from materials such as titanium, stainless, nitinol, Ultem®, polycarbonate, Teflon®, Delrin®, and PEEK. There are few materials that cannot be cut by Micro Waterjet. With minimal setup costs, the technology is suitable for both prototyping and low-volume production.

Please contact RepExact for further information or e-mail us your drawing for a quote from Micro Waterjet LLC. Visit the Micro Waterjet pages at repexact.com for a gallery of application images.

Micro Waterjet's unique equipment is also offered for sale.



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Maximum Sheet Stock Dim.	600 x 1'000 mm (just under 24" x 40")
Minimum Width of Cut (Kerf)	Down to 200 µm (0.008")
Cutting Accuracy	10 µm (0.0004")
Positioning Accuracy	3 µm (0.0012")
Maximum Mat'l Thickness	Varies widely with material - some draft at increasing thicknesses
Minimum Mat'l Thickness	Varies with material
Suitable Volumes	Prototypes to short runs (1,000's), depending on part size and complexity
Achievable Finish on Cut	N6 (32 µin, 0.8 micrometers) on stainless
Suitable Materials (Max. thickness varies by material - please ask)	A2 tool steel (pre hardening), acetal (POM, Delrin®), beryllium Cu, beryllium Ni, brass, carbon fiber, felt, glass, Inconel, Kapton, Miro silver, Most Ceramics, Nickel, Nitinol, PEEK, Phosphor Bronze, Hiperc-50, polycarbonate, precious metals, PTFE (Teflon®), Radel®, rubber (including silicone and Neoprene), stainless, tantalum, Ultem®, Vespel®, and many more - subject to testing.
Unsuitable Materials	Acrylic, carbide, diamond, silicon, silicon carbide
Applications	R&D, Prototyping, Electronics, Medical Device Components (including implantables), Aerospace, etc.
Preferred CAD formats	.dxf / .dwg / .igs (can also work from other formats)
Micro Waterjet Web Site	www.microwaterjet.com



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