



MICRO WATERJET CUTTING

EXTENDED SERVICE - MICRO WATERJET CUTTING

S+D Metals offers micro waterjet cutting services in cooperation with TOVAB. Cutting high-end machine parts in minimal formats demands cutting methods of the utmost precision. Micro waterjet cutting technology enables the precise manufacturing of tiny components for various products.

Watches and Jewelry: Precision in demanding shapes
Micro waterjet cutting enables the production of complex shapes and intricate patterns with a precision of one thousandth of a millimeter. This cutting method is ideal for manufacturing watch components and jewelry, where perfect finishes and minimal material waste are of the utmost importance.

Medical Technology: The ideal cutting method for life-critical components

In the field of medical technology, precision detailing can be a matter of life or death. Micro waterjet cutting offers the versatility and accuracy required to meet these demands. Cold, precise machining for the manufacture of small components in advanced materials is ideal for applications such as medical equipment and implants.

Aeronautics: Building perfect performance with vital components

Waterjet cutting has become a crucial technique for manufacturing components in the aerospace industry. Micro waterjet cutting ensures the exacting results demanded when processing materials for vital structural components. The cold cutting process guarantees the integrity of the material and the performance of the end product.

ADVANTAGES OF WATERJET CUTTING

Micro waterjet cutting of expensive materials and precise prototypes

From soft to extremely hard, micro waterjet cutting makes it possible to cut with tolerances as low as ± 0.01 millimeters, compared to ± 0.2 millimeters offered by conventional waterjet cutting.

One major advantage of waterjet cutting is the maintenance of low temperatures throughout the process, eliminating the risk of heat affecting or distorting the properties of the ma-

terial, such as internal tension, melting, or hardening. This cutting method offers the same precision as a laser but in a cold process ideally suited for expensive and heat-sensitive materials.

Thanks to the new technology that enables micro waterjet cutting, many details previously manufactured using laser cutting can now be produced more cost-effectively and with even better end results. Micro waterjet cutting is also ideal for developing precise prototypes of future products.

TECHNICAL SPECIFICATIONS

Pressure technology	4,000 bar
Maximum piece size	910 x 950 mm
Maximum piece thickness	100 mm
Positioning accuracy	+ - 0.01 mm/300 mm (20°C+ - 2°)
Repetition accuracy	+ - 0.008 mm (20°C + - 2°)
Abrasive cutting	0.2 - 0.4 mm

Our sales person is pleased to help you:

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