

WATERJET CUTTING PRECISE & FAST

ZAPP



YOUR ADVANTAGES AT A GLANCE



Optimal Material Utilization

By individually nesting your parts, we maximize sheet usage and offer cost-efficient pricing.



Fast Processing

Two waterjet systems ensure quick delivery, even for complex parts, within 3 to 5 working days.



Express Service

24-hour shipping available upon request.



Certification and Test Reports

Our materials are sourced according to the highest quality standards. Many specifications, such as VdTÜV sheets, are available from stock. Additionally, a large portion of our sheets already meets 3.2 certification according to EN 10204.



Extensive Product Portfolio

With over 50 materials, we offer a broad range of corrosion- and heat-resistant materials. Depending on the material, we stock sheets from 0.50 mm up to a maximum thickness of 50.8 mm.



One-Stop Shopping

Your all-in-one partner! Upon request, we can handle certain project packages in pre-production. With approximately 1,200 tons of stock, we offer not only sheets and waterjet-cut parts but also bars, tubes, and welding consumables. Other semi-finished formats such as forgings, foils, and strips are available upon request.

WATERJET CUTTING

Waterjet cutting is a cold, highly precise, and environmentally friendly process. Our sheets and plates made of titanium, nickel, and cobalt can be processed without heat or deformation and with minimal burr formation. The fine waterjet enables intricate and complex contours – tailored precisely to your needs and requirements. Two cutting heads allow for high production volumes with precision and speed.

What this means for you

- _ Minimal burr formation
- _ No thermal damage to the material
- _ Extremely narrow kerf for detailed cutting
- _ Efficient and sustainable material usage through optimized nesting plans



FACTS

Technical Data

- _ Cutting with a water-sand mixture
- _ Waterjet thickness: approx. 0.8 mm
- _ Two waterjet cutting systems with a working area of 2,500 x 6,500 mm
- _ Waterjet pressure: 3,200 bar
- _ Maximum material thickness: 155 mm (stock up to 50.8 mm, larger sizes upon request)
- _ Tolerances:
 - Standard: Separation cuts up to max. 2.0 mm

Upon request

Precision cuts from ± 0.5 mm with extremely high cutting accuracy (Tolerances depend on cutting speed and quality)



----- ± 0.5 mm precision cuts



155 mm material thickness



3,200 bar waterjet pressure

MATERIALS – READILY AVAILABLE

Nickel-Based Alloy¹

- Alloy 201
- Alloy 400
- Alloy 600
- Alloy 601
- Alloy 625
- Alloy 718
- Alloy 825
- HASTELLOY® B-3® alloy
- HASTELLOY® C-4 alloy
- HASTELLOY® C-22® alloy
- HASTELLOY® C-276 alloy
- HASTELLOY® C-2000® alloy

Titanium¹

- Titanium Grade 1
- Titanium Grade 2
- Titanium Grade 5
(AMS 4911/ASTM B 265)

¹ Depending on the manufacturer, the trade names of the products may differ from the names listed here

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Available in sheets, tubes, bars, forgings, wire, billets, and welding consumables.

Processing options include waterjet cutting, laser cutting, sawing, shearing, and grinding.

Many other nickel, cobalt, and titanium alloys are available in stock.

Feel free to check our line card:



Available in
stock in
Germany/Unna



CONTACT

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Further information regarding our products and locations are available in our image brochure and under www.zapp.com.

The illustrations, drawings, dimensional and weight data and other information included in this flyer are intended only for the purposes of describing our products and represent non-binding average values. They do not constitute quality data, nor can they be used as the basis for any guarantee of quality or durability. The applications presented serve only as illustrations and can be construed neither as quality data nor as a guarantee in relation to the suitability of the material. This cannot substitute for comprehensive consultation on the selection of our products and on their use in a specific application.

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