

Digital Water Jet Cutting



Fabrico's water jet cutting system handles intricate designs with no distortion of the material.

Fabrico now offers water jet cutting services for rapid turnaround of intricate designs on a wide variety of materials and widths. Strategic alliances with world-class vendors enable extensive sourcing capabilities. ISO-9001:2008 processes ensure high quality of output.

Advanced Cutting Capabilities

Water jet technology has little to no adverse effects on the material, eliminating the need for final finishing steps. A thin, ultra high-powered jet stream pressurized at 60,000 psi cuts a variety of material types with no mechanical or thermal influence on the material. Furthermore, minimal lateral force is applied during the cutting process to reduce harmful effects on the edges of the material.

The use of water means there are no blades that need to be sharpened, reducing maintenance and set-up costs. The water jet cutter also allows the operator to adjust for process variables, such as operating pressure, material feed rate, abrasive particle size, and flow rate. All designs are created digitally, eliminating costly tooling associated with multiple modifications.

Materials can be as thick as 6", with sizes up to 48" x 96".
Materials include tapes, foams, rubbers, and laminates.

Materials

Fabrico has long-standing relationships with world-class providers of innovative materials. These relationships ensure the widest selection of materials at the lowest cost. On the next page are some of the suppliers whose materials can be cut using a water jet cutter at Fabrico:

Laminates	Tapes	Films	Papers	Foams	Rubber	Coated Fabrics and Mats	Rigid Materials
3M™ IPT Arlon™ DuPont® Fibertek™ Isovolta Von Roll®	3M™ Adchem® Avery Dennison® Covalence™ Flexcon Intertape Polymer Group™ MacTac™ Nitto Denko Permacel® PPI Saint-Gobain Tyco	DuPont DuPont-Teijin® ITW Formex™ Mobil™ Pall Venting Media Sabic Sumitomo	3M™ IPT Avery Dennison Bedford Cottrell Paper Co. Inc. DuPont Nomex® EHV Weidmann Oliner Pucaro Toyo	E-A-R Specialty Composites™ Foamex Hickory Springs Innofoam™ Qycell™ Rogers Saint-Gobain	E-A-R Specialty Composites Rogers Corporation Saint-Gobain	3M™ Berquist Chomerics™ CHR Furon Isovolta Saint-Gobain Thermagon Von Roll	Aluminum Ceramic Granite Stainless Steel Steel Stone Tile Wood

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Knowing When to Use Fabrico's Water Jet Services

Q) Do you need rapid production of intricate geometries?

Fabrico's Water jet cutter features AquaVision, a PC-based program that uses SigmaNest software to interface with the cutter and enable precise production of intricate designs, including those with very small apertures.

Q) Do you need repeatable accuracy?

The cutter has a repeatability of +/- 0.001" and an accuracy of +/- 0.005".*

*Tolerances vary with materials and application parameters.

Q) Are you cutting materials that require precise edge definition?

Fabrico's water jet cutter is ideal for even the most challenging materials, including foam and soft rubber, which are difficult to cut with conventional cutting equipment.

Q) Do you need to minimize production costs?

Fabrico's water jet cutter uses digital programming to reduce set-up time and tooling required with other cutting systems. It also has the capability to cut using a 0.003" – 0.030" incision width, minimizing material waste.

Business Development Representatives

For more information on die cutting services or a complete list of available materials, call 800-351-8273, or contact a Fabrico Business Development Representative near you.

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