



Technology Education Concepts

WAZER



The World's First Desktop Waterjet

Able to cut through just about anything, the WAZER Desktop Waterjet is the first affordable, professional desktop waterjet powerhouse of it's kind.

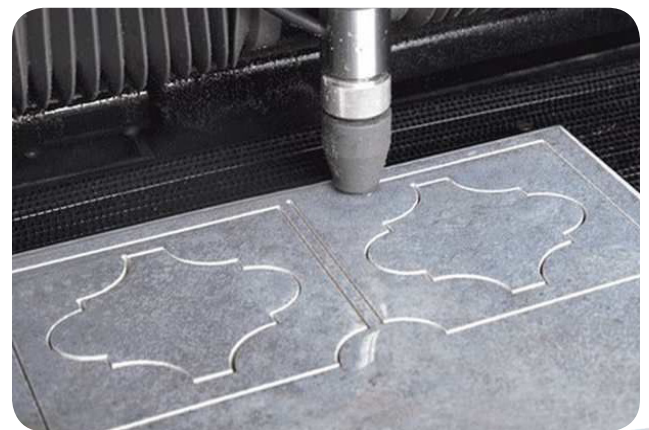
Unlike traditional waterjet systems, the WAZER Desktop Waterjet does not require significant infrastructure and high maintenance.

Its **compact design, affordable price** and **industrial capabilities** make the WAZER an ideal professional subtractive manufacturing solution for secondary and post-secondary Engineering Labs, Metal Fabrication Labs, any Advanced Manufacturing program, maker spaces, and small businesses.



Why WAZER?

- Professional-grade, industrial capabilities
- Small footprint, compact and contained
- No special electrical or ventilation requirements
- Fully enclosed, will not run if the cover is open
- Unbeatable price tag!
- Very low maintenance costs
- Ask us about cost-saving bundles available!
- Can cut through a huge variety of materials including:



<i>Neoprene</i>	<i>Tool steel</i>	<i>Copper</i>
<i>Polycarbonate</i>	<i>D2 tool steel</i>	<i>Titanium</i>
<i>Polyurethane</i>	<i>Low carbon steel</i>	<i>Carbon Fiber</i>
<i>Acrylic Silicone</i>	<i>Stainless steel</i>	<i>Ceramic</i>
<i>HDPE</i>	<i>Marble</i>	<i>Porcelain</i>
<i>Glass</i>	<i>Aluminum</i>	<i>and MORE!!</i>



Optional Leg Stand Kit

Why waterjet vs. Laser or Plasma Cutters?

Waterjet technology works by combining sand-like abrasive particles with a high-pressure water stream to cut a variety of materials with precision and detail. Waterjet technology has significant advantages over other conventional cutting methods such as laser or plasma cutters:

- **More flexible**, cuts just about any material (laser and plasma cutters have material limitations).
- **Better cutting edge quality** giving square cuts and smooth surface finish.
- **Better cut part precision**, able to cut intricate details.
- **Requires no ventilation!**
- **No heat-induced material warping or distortion.**

Material Thickness and Cutting Speed

Material	Thickness (in.)	Cut Speed (in./min.)
Metal		
Aluminum	1/16"	2.8 IPM
Aluminum	1/8"	1.8 IPM
Aluminum	1/4"	1.0 IPM
Mild Steel	0.051"	1.2 IPM
Mild Steel	3/16" (max)	0.4 IPM
Stainless Steel	0.058"	1.0 IPM
Stainless Steel	1/8" (max)	0.7 IPM
Titanium	1/16"	1.4 IPM
Titanium	3/16" (max)	0.6 IPM
Copper	1/16"	1.2 IPM
Copper	3/16" (max)	0.6 IPM
Nickel Silver	0.037"	1.8 IPM
Ceramic and Stone		
Glass (soda-lime)	1/8"	11.8 IPM
Glass (plate)	3/8"	1.6 IPM
Granite	3/8" (max)	0.8 IPM
Marble	3/8"	1.6 IPM
Ceramic Tile	3/8"	2.0 IPM
Other		
Polycarbonate	1/4"	1.8 IPM
Polycarbonate	1/2" (max)	0.6 IPM
Carbon Fiber	1/8"	8.9 IPM
Garolite (g10)	1/16"	15.7 IPM



Integrated Abrasive Storage



Onboard Controls



Convenient Abrasive Removal



Easy Height Adjustment

Technical Specifications

Size and Weight	
WAZER Machine Size	34" x 25" x 21" (864mm x 635mm x 534mm)
WAZER Standup Size	34" x 25" x 45" (864mm x 635mm x 1143mm)
WAZER Empty Weight	110 lbs (50kg)
WAZER Fully-Loaded Weight	300 lbs (136kg)
Pump Box Size	27" x 14" x 12" (686mm x 356mm x 305mm)
Pump Box Weight	45 lbs (21kg)
Cutting	
Cutting Area	12" x 18" (305mm x 460mm)
Bed Size	13" x 19" (330mm x 485mm)
Maximum Material Thickness	1" (25mm)
Cut Width (kerf)	1/16" (1.5mm)
Water	
Water Source	Tap Water
Water Draining	Standard Water Drainage
Input Water Filter	100 mesh
Water Recirculation	Not Recommended
Abrasive	
Abrasive Flow Rate	0.33 lb/min
Dry Abrasive Hopper Capacity	40 lbs (18kg)
Wet Abrasive Container Capacity	30 lbs (14kg)
Abrasive Type	Garnet 80 mesh
XY Motion System	
Max Feed Rate	75 IPM (1905mm/min)
Gantry Positional Precision	0.003" (0.8mm)
Miscellaneous	
Power	Machine: 110-120V AC 250W Pump: 110-120V AC 1500W
Compatible File Types	DXF, SVG
Connectivity	USB
Operating Systems	Windows and Mac