

WATER-ONLY WATERJETS

A comprehensive guide to WARDJet pure water waterjet cutting systems and how they can improve your production.



Tel. 55 2121 9181
y 55 2121 9194

Soporte & Desarrollo
en Maquinaria

LETTER FROM RICHARD WARD



Greetings from WARDJet headquarters in Tallmadge, Ohio! We are excited to offer you a revolutionary opportunity to optimize production by using a water-only WARDJet waterjet.

Water-only waterjets can substantially improve production for cutting materials like rubber, plastic, foam, insulation, food, cloth, flooring, and more. Our systems are unlike any other waterjets and offer full automation from loading to unloading of material to save you time. WARDJet waterjets are also designed to be easily customized with features like pinch feed rollers to manage bulky material and encoder wheels to index how much material is entering the cutting area. Imagine the difference that such a system could have on your everyday production! Let WARDJet help your company take the next step to improved production and better yields.

Here is a list of some of the materials that are great candidates for water-only waterjet cutting:

- Rubber
- Foam
- Insulation
- Cloth
- Poultry
- Carrots
- Carpet
- Fabric
- Plastic
- Sponge
- Cake
- Flooring
- Diapers
- Fiberglass
- Wood
- Cardboard
- Lettuce
- Paper
- Deli Meat
- Bread
- Acoustic Foam
- Corn
- Mouse Pads
- Cork
- Sheet Rock
- Ceiling Panels
- Felt
- Plastic Bags
- Wax
- Candy Bars
- Aluminum Foil
- Cellophane
- Styrofoam
- Vinyl
- And more!

Water-only waterjets are a relatively new concept for a lot of companies, but WARDJet has been developing systems for custom water-only applications for years. Many other waterjet brands try to convince business owners that they can enjoy the same advantages of water-only waterjet cutting by purchasing an abrasive waterjet system and running it abrasive-free, but don't be fooled! Our trademark water-only waterjet systems have been tested and proven to perform for many unique applications. The J-Series and L-Series water-only waterjets are specifically designed with very high acceleration and deceleration values as well as high speeds of up to 7000 inches per minute or 116 inches per second!

Waterjets are ideal for many applications because there is no heat affected zone (HAZ) and the intrinsic properties of the material are not disturbed by the high pressure stream. In fact, water-only waterjets are often used in applications where the material cannot get wet during production — the narrow kerf of a waterjet nearly eliminates the contact of the water and the material. Water-only waterjet cutting also allows operators to closely nest shapes together to optimize use of material. Our J-Series and L-Series waterjets are excellent for prototyping because there is no need for an expensive die or other specialized tooling! Simply load your program to the WARDJet controller and hit start, and your part will be cut in moments.

Please feel free to call our offices with any questions. We look forward to hearing from you!

Cheers,



CUSTOMER FEEDBACK

Here is some customer feedback freely given about WARDJet. We are truly thankful for partnerships we have created over the years.

"I have been in manufacturing for a while and I can honestly say that **your company is the best company I have ever worked with.** WARDJet is truly a company that stands by their product and provides outstanding support after the sale. Thank you all again."

C.M.
Armstrong World Industries
\$2.6 billion in sales 2012

"...performs excellently because of the flawless install. We did a test run that exceeded my expectations. Calibrations to square were .00033 degrees. Circles had similar demanding figures."

G.C.
Envision Rapid Cutting

"I am glad to say we have been in business 5 years this month and are debt free. **We have everything paid for; machines, cars, house** and we are cutting for people that their machines have broken down. I tell them you should get a "WORK-HORSE" like yours. **I'm so glad I have your machine, it is the top of the line.**"

G.B.
South-East America
Reference available on request.

"Every aspect from shipping to installation to training and service promised has been more than met. It is amazing that we were literally cutting parts and in production the week of our installation. **We love our WARDJet waterjet and look forward to getting another one as soon as possible.** The WARDJet team met all our expectations!"

P.M.
CML Alloys UK

"I want to thank you for taking the time to come here to our facility and make things right. **I am looking forward to many years of using this machine and a great continued relationship with WARDJet.** Thanks again for your professional attention to our issues."

C.D.
K-Line Industries

"Being a part of the installation and learning all about the machine and how it is made has given me tremendous insight into its capabilities and ruggedness. I still can't believe **we were able to set up the machine and get trained to operate it in just one week.** That fact is a testament to the quality and knowledge of your employees and the quality and design of your machines."

D.Y.
Crest Foods Co., Inc.

For more feedback visit:
wardjet.com/customer-feedback



TABLE OF CONTENTS

01	LETTER FROM RICHARD WARD
02	CUSTOMER FEEDBACK
04	INTRO TO WARDJET
05	YOUR TOTAL WATERJET SOLUTION
06	L-SERIES
08	TANK DESIGN FEATURES
10	L-3025
12	L-3018
14	J-SERIES
16	TANK DESIGN FEATURES
18	J-138
20	J-108
22	WATER-ONLY SLITTERS
23	ACCESSORIES & OPTIONS
24	LOADING TABLES
	WARDJet ANALYTICS
25	CONTROLLERS
	CELLPHONE PENDANT CONTROL
26	QR CODES
	CIRCUIT BOARD ASSEMBLY



180 SOUTH AVE. PO BOX 517
TALLMADGE, OHIO 44278

EMAIL: sales@wardjet.com

PHONE: (330) 677-9100

FAX: (330) 677-9121

www.wardjet.com

INTRODUCTION TO WARDJet



Richard Ward is the founder and president of WARDJet, which has been operating in the waterjet cutting industry since 1995. WARDJet offers over 15 different models of waterjets from small ballscrew driven waterjets to linear motion units with high accuracy that cut at 7,000 inches per minute. No matter what your waterjet need, we have a system that will work for you. WARDJet is also known for building custom engineered systems to meet unique needs.

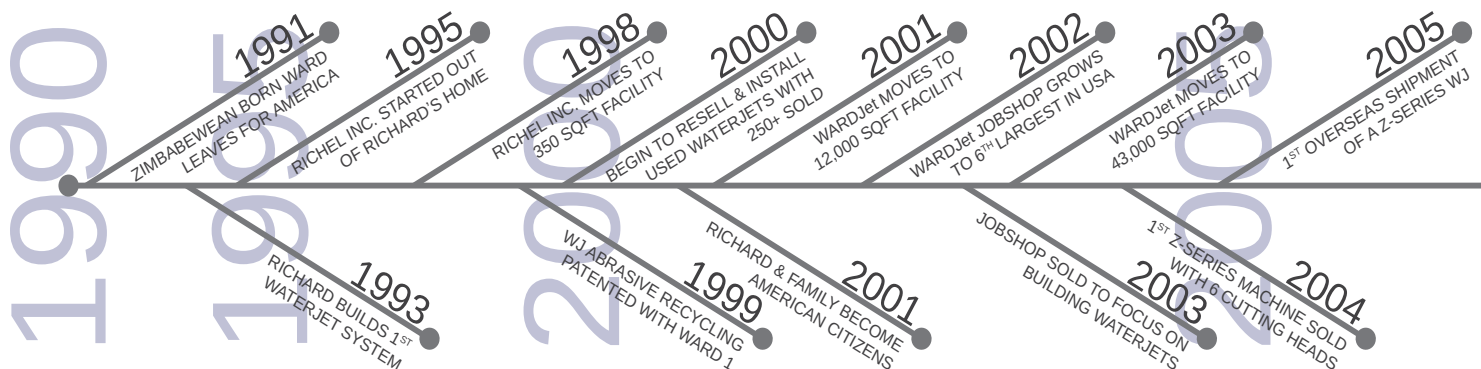
WARDJet takes a different approach to much of what we do. In fact, up until 2003 we were one of the largest capacity waterjet job shops in the USA when the company elected to switch gears and focus on building new waterjets for the industry. In the years following, WARDJet has gained a strong worldwide presence with many machines exported annually. WARDJet also builds a number of products to improve waterjet cutting and reduce consumable costs, including the patented WARD Pro, a waterjet abrasive recycling system.



Born and raised in Zimbabwe, Richard Ward attended the University of Cape Town and began his career as a Civil Engineer. In 1991, he had the opportunity to come to the USA on a 2 year contract to manage a company so he moved his wife and two young children across the globe with only a suitcase each. After the contract was completed, Richard started his first company in his garage—one mile from where the present 220,000 square foot facility WARDJet operates. Richard holds several patents, and is actively involved in the business.

“ I am having the time of my life at WARDJet, building waterjets alongside the most fantastic team of people anyone could wish for. **Every single day we innovate, create, open doors and discover opportunities.** We think outside the box. We keep excelling where others stop, sometimes because no one told us that it couldn't be done! But words are never enough. Come and visit us and see why our customers trust us to partner with them as they grow in the waterjet world. ”

-Richard Ward



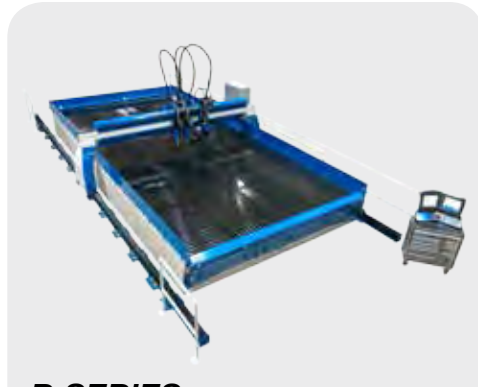
YOUR TOTAL WATERJET SOLUTION

WARDJet builds quality waterjet cutting systems that have earned the respect of thousands of people, companies and customers all over the world. As “Your Total Waterjet Solution”, WARDJet can help you make educated purchasing decisions when it comes to buying the right equipment. Our greatest reward is to see you succeed!

WARDJet currently offers six distinct series of waterjets as standard models. Each series has features and advantages to make it the perfect waterjet cutting solution for specific applications. Whether you are cutting rubber gaskets or composite aerospace parts, WARDJet has a waterjet that will suit your purpose. Explore the entire WARDJet catalog by visiting our website at www.wardjet.com.



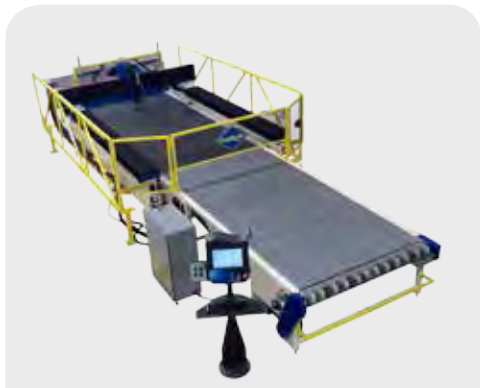
G-SERIES
 ABRASIVE or WATER-ONLY
 Sizes up to a 48' x 16' cutting envelope



R-SERIES
 ABRASIVE or WATER-ONLY
 Sizes up to a 40' x 13' cutting envelope



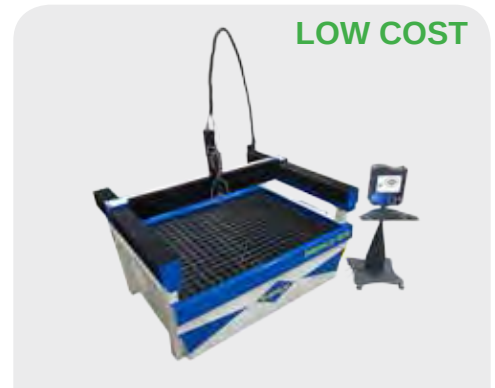
Z-SERIES
 ABRASIVE or WATER-ONLY
 Sizes up to a 15' x 8' cutting envelope



L-SERIES
 WATER-ONLY
 Sizes up to a 10' x 8' cutting envelope

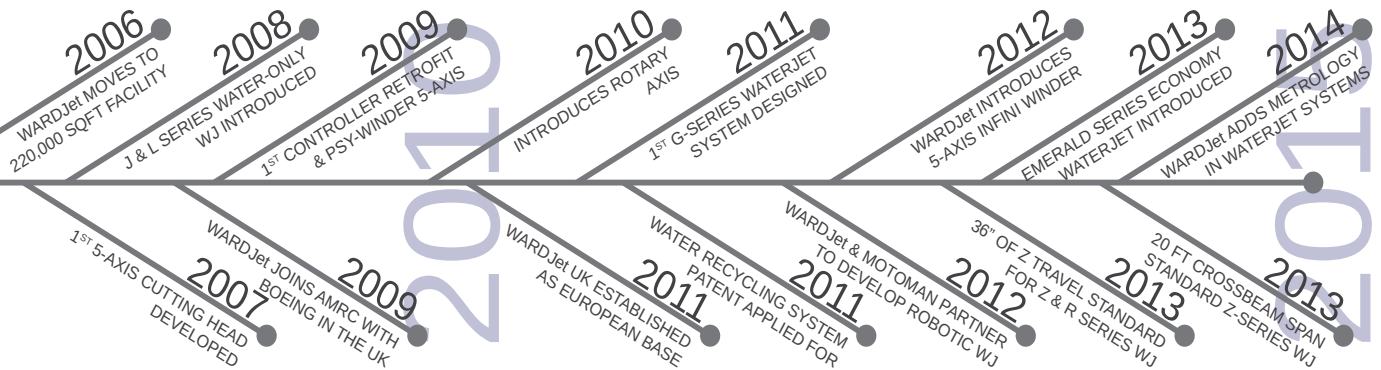


J-SERIES
 WATER-ONLY
 Sizes up to a 12' x 8' cutting envelope



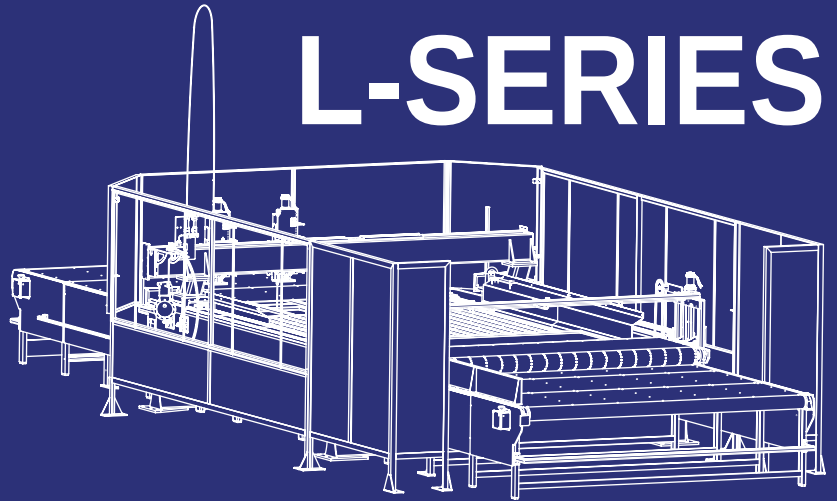
EMERALD SERIES
 ABRASIVE or WATER-ONLY
 Sizes up to a 10' x 5' cutting envelope

LOW COST





L-SERIES



	L-3025	L-3018	CUSTOM
CUTTING ENVELOPE (FT)	10' x 8'	10' x 6'	made to order
CUTTING ENVELOPE (M)	3m x 2.5m	3m x 1.8m	made to order
INCHES PER MINUTE	7,000ipm	7,000ipm	up to 7,000ipm

L-SERIES TANK DESIGN FEATURES

The L-Series waterjets feature tanks specifically designed for the water-only application. Since cutting with water only is typically high volume at an ultra-high speed, the tanks of the L-Series are engineered to be extremely durable and designed for easy water drainage, collection and clean up.

Some of the main features include:

- Stainless steel lined tank
- Chain external to the tank
- Easy to tension chain with no tracking
- Drain sump external to tank
- Easy to clean
- Automatic washers inside tank available as an option
- Stainless deflectors under chain available as an option



Tensioner outside of tank for easy access



L-3025 waterjet with stainless steel lined tank



Stainless steel splash guards along rails inside tank



L-3025 chain integrated with tank of waterjet

CUSTOM L-SERIES WATERJET

WARDJet also specializes in custom waterjets. Many of the standard WARDJet machines have been conceptualized and produced based on the needs of a specific customer looking for a waterjet solution for a unique application. Contact WARDJet if the L-3025 or L-3018 water-only waterjets are not the perfect fit for your application and we'll work together to design a waterjet that meets your needs.

L-SERIES SPECIFICATIONS

	L-3025	L-3018
Cutting Envelope	10' x 8' (3m x 2.5m) with one standard head 10' x 8.5' (3m x 2.6m) with two standard heads	10' x 6' (3m x 2.5m) with one standard head 10' x 6.5' (3m x 2.6m) with two standard heads
Z-Axis	12" (300 mm)	12" (300 mm)
Drive System	Linear motors (X, X2, Y); Acme ball screw on Z	Linear motors (X, X2, Y); Acme ball screw on Z
Traverse speed	Up to 7,000 ipm (177,800 mm/min)	Up to 7,000 ipm (177,800 mm/min)
Lineal Positioning Accuracy, per axis	+/- 0.003" (+/- 0.075 mm)	+/- 0.003" (+/- 0.075 mm)
Repeatability	+/-0.001" (+/- 0.025 mm)	+/-0.001" (+/- 0.025 mm)
Encoder	5 micron (1 micron optional)	5 micron (1 micron optional)
5-Axis	Optional, multiple 5-axis also available	Optional, multiple 5-axis also available
Material Handling Options	Programmable chain conveyors, Photo eyes, Pinch feed roller (integrated or moveable), Extended loading and unloading areas, Squaring guides for loading, encoder wheels, Alternate materials for conveyor based upon application	Programmable chain conveyors, Photo eyes, Pinch feed roller (integrated or moveable), Extended loading and unloading areas, Squaring guides for loading, encoder wheels, Alternate materials for conveyor based upon application
Cutting media	Water-only or abrasive	Water-only or abrasive
Options	Multiple heads 5-Axis heads Ink jet printer Alignment camera Android Remote Pendant CE-Compliant Wired Remote Pendant CE-Compliant Wireless Remote Pendant CE-Compliant system	Multiple heads 5-Axis heads Ink jet printer Alignment camera Android Remote Pendant CE-Compliant Wired Remote Pendant CE-Compliant Wireless Remote Pendant CE-Compliant system
Controller	WARDJet XL Optional WARDJet X-Classic	WARDJet XL Optional WARDJet X-Classic
Pump Options	60,000 PSI with 30, 50, 60, 75, 100, 150 HP Or supply your own pump Air-Over-Oil Coolers Chillers Redundant intensifiers	60,000 PSI with 30, 50, 60, 75, 100, 150 HP Or supply your own pump Air-Over-Oil Coolers Chillers Redundant intensifiers
Diagnostics	Remote Control/Remote Diagnostics with internet connection to the controller	Remote Control/Remote Diagnostics with internet connection to the controller
Programming Software	WARDJet Analytics to track daily usage	WARDJet Analytics to track daily usage
Options	WARDJCAM included IGEMS CAD/CAM optional Or use your own CAM software	WARDJCAM included IGEMS CAD/CAM optional Or use your own CAM software

L-3025 WATER-ONLY WATERJET



The L-3025 waterjet features the highest cutting speed of any water-only waterjet at WARDJet, Inc. With an extremely robust frame, the L-3025 allows for the addition of many heavy duty options, such as 5-axis cutting heads, cameras, and height sensors. Increase water-only production on your L-3025 waterjet even further by including one of the many material handling options listed below.

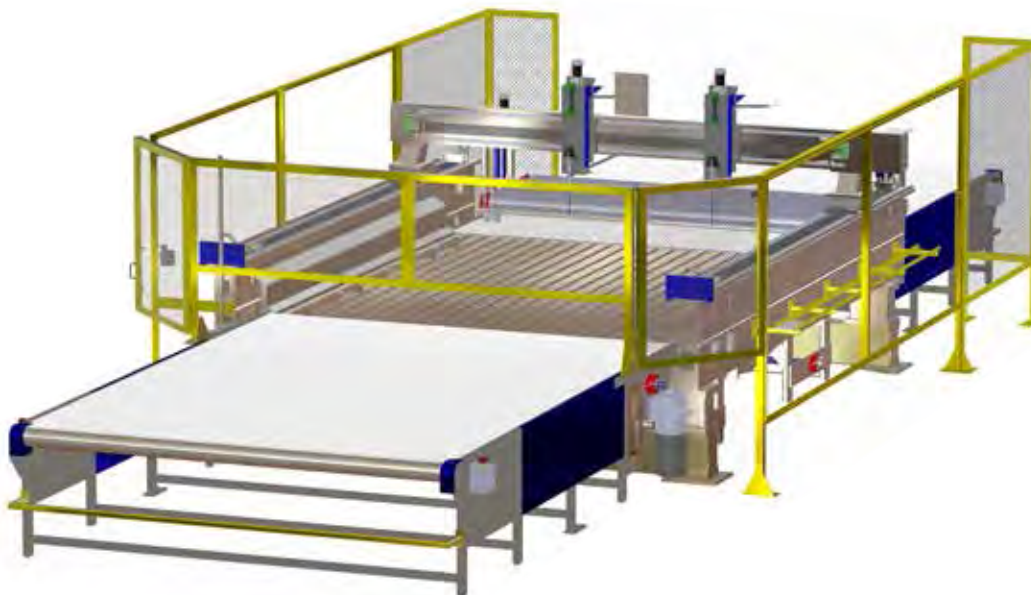
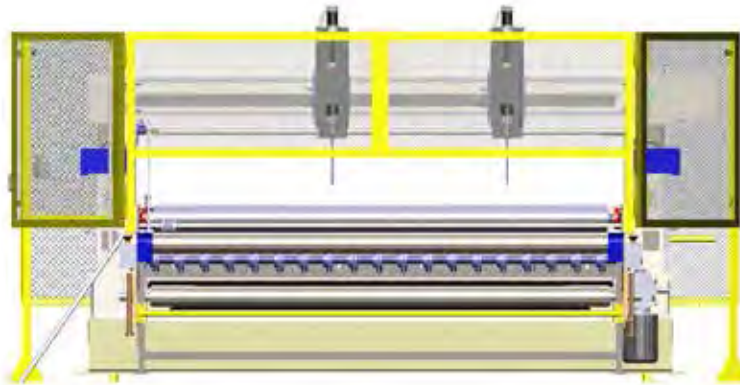
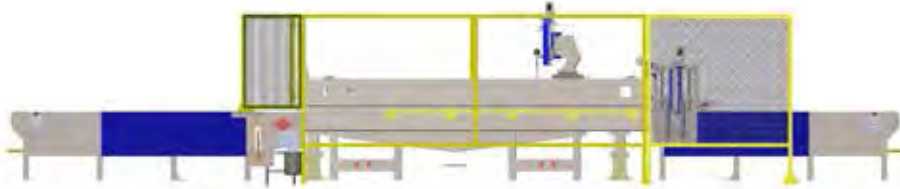
MATERIAL TO CUT ON AN L-3025

The L-3025 is recommended for cutting rubber, foam, plastics, insulation, sheet rock, cloth, leather, food, fiberglass, cardboard, acrylics, wood, gaskets, paper, bags, sponges, wallpaper, and many more.

L-3025 WATERJET SPECS	
Cutting Envelope	8' x 10' (2.5m x 3m) with one standard head 8.5' x 10' (2.6m x 3m) with two standard heads
Z-Axis	12" (300 mm)
Drive System	Linear motors (X, X2, Y); Acme ball screw on Z
Traverse speed	Up to 7,000 ipm (177,800 mm/min)
Lineal Positioning Accuracy, per axis	+/- 0.003" (+/- 0.075 mm)
Repeatability	+/-0.001" (+/- 0.025 mm)
Encoder	5 micron (1 micron optional)
5-Axis	Optional, multiple 5-axis heads also available
Material Handling Options	Programmable chain conveyors, Photo eyes, Pinch feed roller (integrated or moveable), Extended loading and unloading areas, Squaring guides for loading, Encoder wheels, Alternate materials for conveyor based upon application



L-3025



Scan code to watch
videos of the
L-Series waterjets

L-3018 WATER-ONLY WATERJET



The L-3018 water-only waterjet boasts the same astonishing cutting speed as the L-3025 at a slightly reduced cutting envelope and footprint. The L-3018 is also capable of handling multiple cutting heads or 5-axis cutting heads on the same cross beam. Add other features like optical eyes, guillotine doors, and chain-fed loading tables to make the L-3018 a fully automated system.

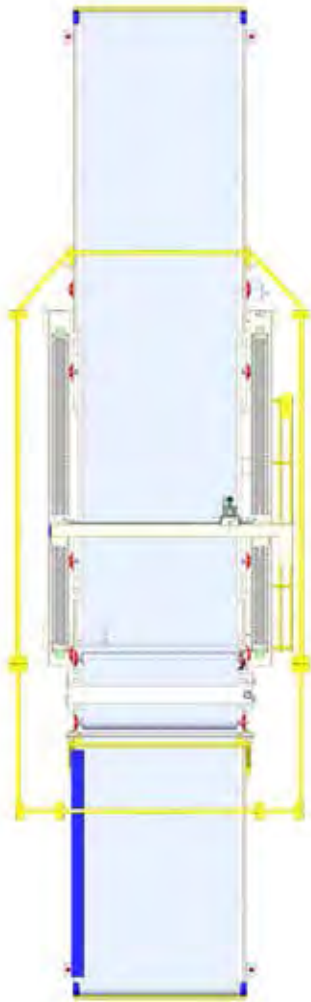
MATERIAL TO CUT ON AN L-3018

The L-3018 is recommended for cutting rubber, foam, plastics, insulation, sheet rock, cloth, leather, food, fiberglass, cardboard, acrylics, wood, gaskets, paper, bags, sponges, wallpaper, and many more.

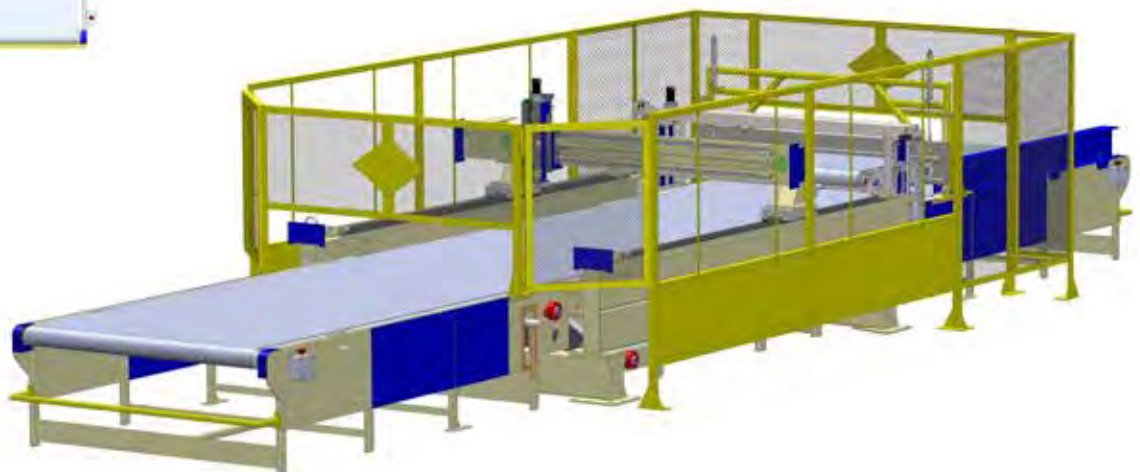
L-3018 WATERJET SPECS	
Cutting Envelope	10' x 6' (3m x 1.8m) with one standard head 10' x 6' (3m x 1.8m) with two standard heads
Z-Axis	12" (300 mm)
Drive System	Linear motors (X, X2, Y); Acme ball screw on Z
Traverse speed	Up to 7,000 ipm (177,800 mm/min)
Lineal Positioning Accuracy, per axis	+/- 0.003" (+/- 0.075 mm)
Repeatability	+/-0.001" (+/- 0.025 mm)
Encoder	5 micron (1 micron optional)
5-Axis	Optional, multiple 5-axis heads also available
Material Handling Options	Programmable chain conveyors, Photo eyes, Pinch feed roller (integrated or moveable), Extended loading and unloading areas, Squaring guides for loading, Encoder wheels, Alternate materials for conveyor based upon application



L-3018

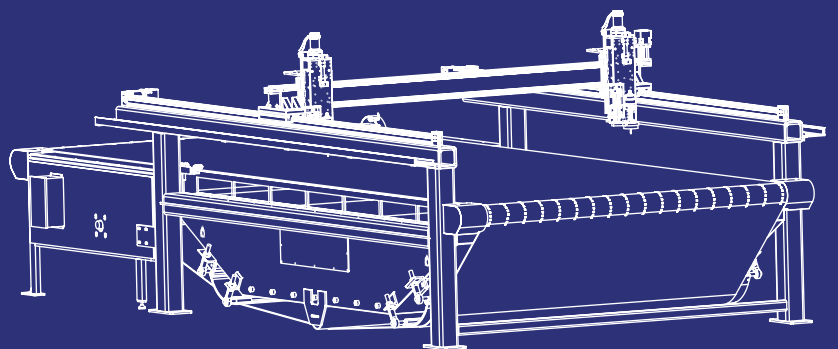


Scan code to watch
videos of the
L-Series waterjets





J-SERIES



	J-138	J-108	CUSTOM
CUTTING ENVELOPE (FT)	12' x 8'	10' x 8'	made to order
CUTTING ENVELOPE (M)	4m x 2.4m	3m x 2.4m	made to order
INCHES PER MINUTE	2,500ipm	2,000ipm	up to 2,000ipm

J-SERIES TANK DESIGN FEATURES

The J-Series waterjets also feature tanks specifically designed for the water-only application. Since cutting with water only is typically high volume at a higher speed than cutting with abrasive, the tanks of the J-Series are engineered to be durable, effective and easy to clean out.

Some of the main features include:

- Stainless steel lined tank
- Chain external to the tank
- Easy to tension chain with no tracking
- Drain sump external to tank
- Easy to clean
- Automatic washers inside tank available as an option
- Stainless deflectors under chain available as an option



Side view of the J-138 Tank



Quiet Ride™ chain guides to reduce sound emission



Chain tensioners outside of tank for easy access



J-108 stainless steel tank

CUSTOM J-SERIES WATERJET

WARDJet also specializes in custom waterjets. Many of the standard WARDJet machines have been conceptualized and produced based on the needs of a specific customer looking for a waterjet solution for a unique application. Contact WARDJet if the J-138 or J-108 water-only waterjets are not the perfect fit for your application and we'll work together to design a waterjet that meets your needs.

J-SERIES SPECIFICATIONS

	J-138	J-108
Cutting Envelope	12' x 8' (3.6m x 2.4m) 12' x 8' (3.6m x 2.4m)	10' x 8' (3m x 2.4m) 10' x 8' (3m x 2.4m)
Z-Axis	12" (300 mm)	12" (300 mm)
Drive System	Belt drive (X, X2, Y); Acme ball screw on Z	Belt drive (X, X2, Y); Acme ball screw on Z
Traverse speed	Up to 3,000 ipm (76,000 mm/min)	Up to 3,000 ipm (76,000 mm/min)
Lineal Positioning Accuracy, per axis	+/- 0.010" (+/- 0.25 mm/min)	+/- 0.010" (+/- 0.25 mm/min)
Repeatability	+/-0.005" (+/- 0.13 mm/min)	+/-0.005" (+/- 0.13 mm/min)
Encoder	Rotary	Rotary
5-Axis	N/A	N/A
Material Handling Options	Programmable chain conveyors, Photo eyes, Pinch feed roller (integrated or moveable), Extended loading and unloading areas, Squaring guides for loading, encoder wheels, Alternate materials for conveyor based upon application	Programmable chain conveyors, Photo eyes, Pinch feed roller (integrated or moveable), Extended loading and unloading areas, Squaring guides for loading, encoder wheels, Alternate materials for conveyor based upon application
Cutting media Options	Water-only Multiple heads Ink jet printer Alignment camera Android Remote Pendant CE-Compliant Wired Remote Pendant CE-Compliant Wireless Remote Pendant CE-Compliant system	Water-only Multiple heads Ink jet printer Alignment camera Android Remote Pendant CE-Compliant Wired Remote Pendant CE-Compliant Wireless Remote Pendant CE-Compliant system
Controller	WARDJet XL Optional WARDJet X-Classic	WARDJet XL Optional WARDJet X-Classic
Pump Options	60,000 PSI with 30, 50, 60, 75, 100, 150 HP Or supply your own pump Air-Over-Oil Coolers Chillers Redundant intensifiers	60,000 PSI with 30, 50, 60, 75, 100, 150 HP Or supply your own pump Air-Over-Oil Coolers Chillers Redundant intensifiers
Diagnostics	Remote Control/Remote Diagnostics with internet connection to the controller	Remote Control/Remote Diagnostics with internet connection to the controller
Programming Software Options	WARDJet Analytics to track daily usage WARDJCAM included IGEMS CAD/CAM optional Or use your own CAM software	WARDJet Analytics to track daily usage WARDJCAM included IGEMS CAD/CAM optional Or use your own CAM software

J-138 WATER-ONLY WATERJET



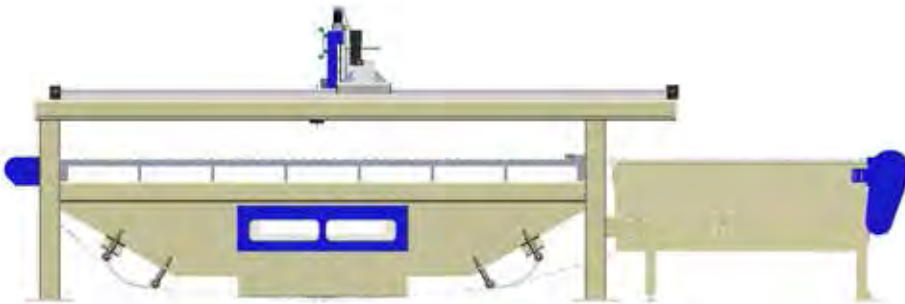
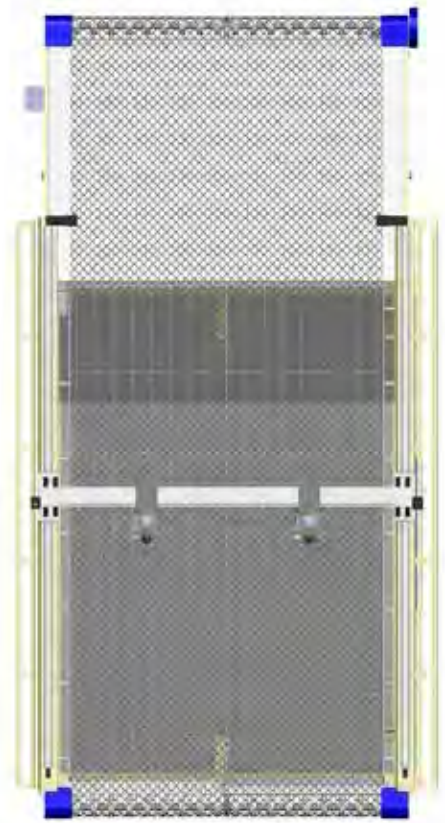
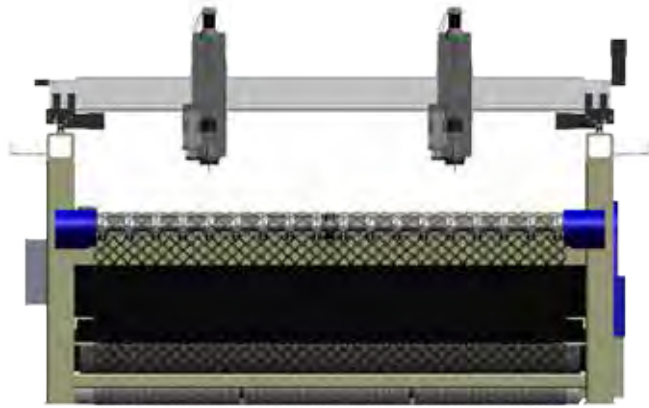
The J-138 water-only waterjet is excellent for shops where yields are high and tolerances are more forgiving. The J-138 waterjet has increased cutting speeds from traditional abrasive waterjets and features a chain belt to maximize production. The J-Series are WARDJet's economy water-only systems and are capable of many upgrades to automate production.

MATERIAL TO CUT ON AN J-138

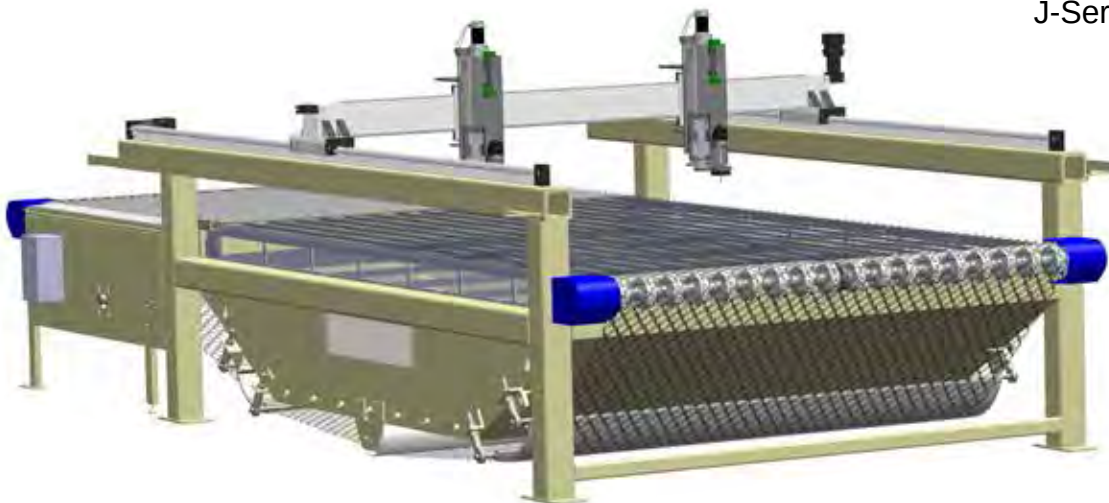
The J-138 is recommended for cutting rubber, foam, plastics, insulation, cake, sheet rock, cloth, leather, food, fiberglass, cardboard, acrylics, wood, gaskets, paper, bags, sponges, wallpaper, and many more.

J-138 WATERJET SPECS	
Cutting Envelope	12' x 8' (3.6m x 2.4m) with one standard head 12' x 8' (3.6m x 2.4m) with two standard heads
Z-Axis	12" (300 mm)
Drive System	Belt drive (X, X2, Y); Acme ball screw on Z
Traverse speed	Up to 3,000 ipm (76,000 mm/min)
Lineal Positioning Accuracy, per axis	+/- 0.010" (+/- 0.25 mm/min)
Repeatability	+/-0.005" (+/- 0.13 mm/min)
Encoder	Rotary
5-Axis	N/A
Material Handling Options	Programmable chain conveyors, Photo eyes, Pinch feed roller (integrated or moveable), Extended loading and unloading areas, Squaring guides for loading, Encoder wheels, Alternate materials for conveyor based upon application

J-138



Scan code to watch
videos of the
J-Series waterjets



J-108 WATER-ONLY WATERJET



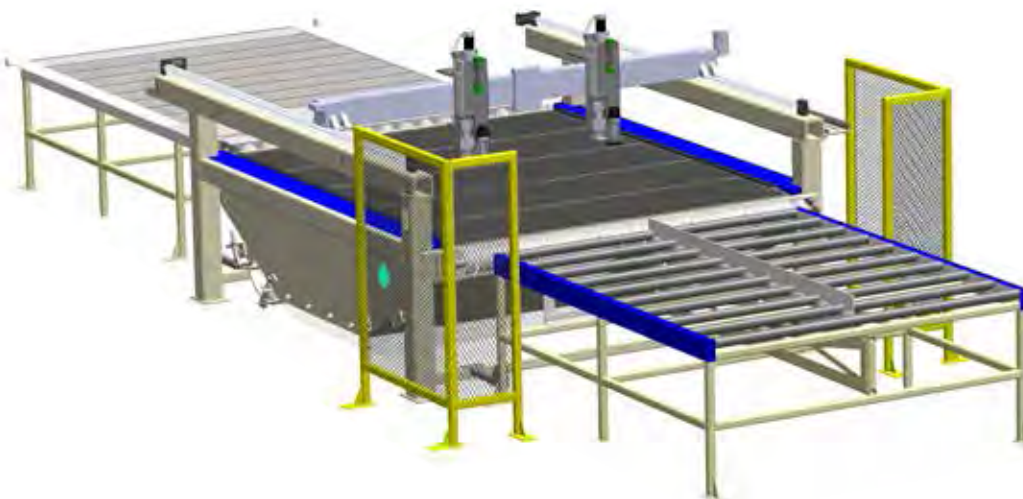
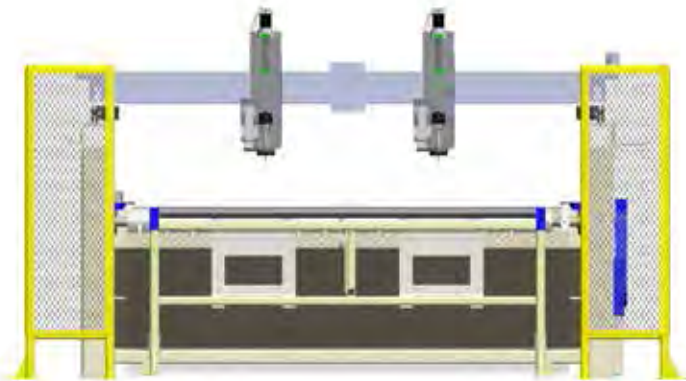
The J-108 waterjet can increase production on your floor by including on-loading and off-loading tables and a chain belt system. A unique baffle grate helps to eliminate wear on the stainless steel lined tank and expels mostly steam instead of collecting water. With a slightly reduced cutting envelope compared to the J-138, this machine offers outstanding automation of processes for any company.

MATERIAL TO CUT ON AN J-108

The J-108 is recommended for cutting rubber, foam, plastics, insulation, cake, sheet rock, cloth, leather, food, fiberglass, cardboard, acrylics, wood, gaskets, paper, bags, sponges, wallpaper, and many more.

J-108 WATERJET SPECS	
Cutting Envelope	10' x 8' (3m x 2.4m) with one standard head 10' x 8' (3m x 2.4m) with two standard heads
Z-Axis	12" (300 mm)
Drive System	Belt drive (X, X2, Y); Acme ball screw on Z
Traverse speed	Up to 3,000 ipm (76,000 mm/min)
Lineal Positioning Accuracy, per axis	+/- 0.010" (+/- 0.25 mm/min)
Repeatability	+/- 0.005" (+/- 0.13 mm/min)
Encoder	Rotary
5-Axis	N/A
Material Handling Options	Programmable chain conveyors, Photo eyes, Pinch feed roller (integrated or moveable), Extended loading and unloading areas, Squaring guides for loading, Encoder wheels, Alternate materials for conveyor based upon application

J-108



Scan code to watch
videos of the
J-Series waterjets

ADJUSTABLE SPREADER BAR / SLITTER

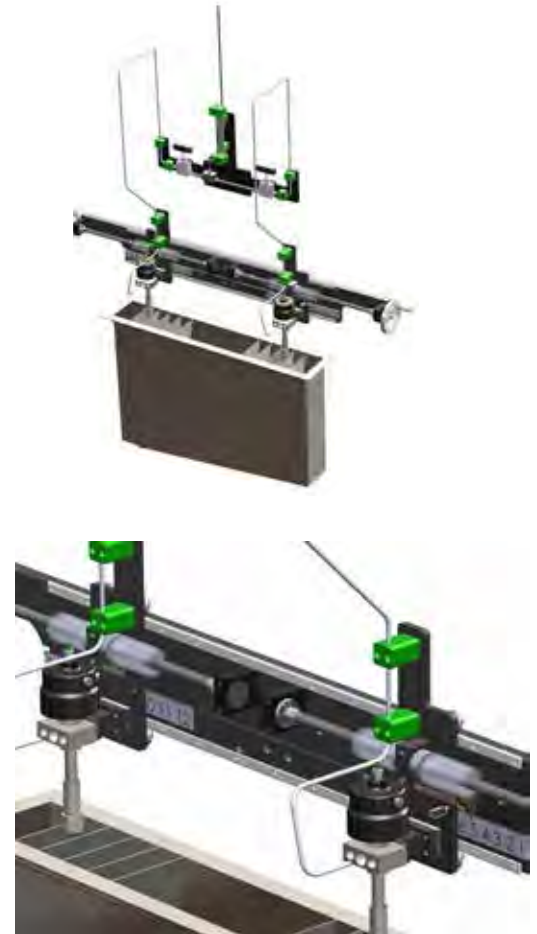
WARDJet offers more than just large-scale standard systems. Many of the quality products designed by WARDJet engineers are customized systems designed to offer a unique solution for the application and requirements of the customer.

This custom adjustable spreader bar system features two water-only cutting heads positioned over a slim, baffled waterjet tank. This adjustable spreader bar system was designed to provide our customers with water-only slitting capabilities at a reasonable size and affordable price tag.

WARDJet understands that a large water-only waterjet is not practical for every application, and we are happy to provide alternatives that allow customers enjoy the benefits of waterjet cutting.

ADJUSTABLE SPREADER BAR / SLITTER

Cutting Envelope	Independently adjustable 9"
Maximum Head Spacing	Cutting heads must be < 30" apart
Cutting Head Shuttles	0.20" of linear position per hand-wheel revolution (positive locking mechanisms)
Traverse speed	Up to 3,000 ipm (76,000 mm/min)
Lineal Positioning Accuracy	+/- 0.010" (+/- 0.25 mm/min)
Repeatability	+/-0.005" (+/- 0.13 mm/min)
Material Handling Options	Stationary cutting heads, Roll-to-roll material feed for slitting operations.



2-AXIS CUTTING STATION

Another custom water-only cutting system option is the 2-axis cutting station. This unique system is similar to the adjustable spreader bar in that it also provides the advantages of larger water-only waterjets through the addition of Y-axis movement and takes up only a fraction of the space on your shop floor.

The 2-axis cutting station is excellent for small runs of simple parts, test cuts, and slicing off large pieces of material. Similar to the adjustable spreader bar, this machine features water-only cutting heads fixtured over a small length of tank. Both machines are capable of producing rapid straight cuts and are particularly helpful when slitting lengths of material on a roll.

2-AXIS CUTTING STATION

Cutting Envelope	120" Linear axis
Z-Axis	3" of travel
Drive System	Belt drive, Acme ball screw on Z
Traverse speed	Up to 3,000 ipm (76,000 mm/min)
Lineal Positioning Accuracy	+/- 0.010" (+/- 0.25 mm/min)
Repeatability	+/-0.005" (+/- 0.13 mm/min)
Encoder	Rotary



ACCESSORIES & OPTIONS



INFINI WINDER 5-AXIS CUTTING

5-axis CNC waterjet cutting is now available on both abrasive and water-only waterjets. Where the normal axes on a waterjet are named X (forward/backward), Y (left/right) and Z (up/down), a 5-axis system will add an additional A-axis (angle from perpendicular) and C-axis (rotation around the Z-axis). 5-axis cutting opens up a wide range of applications such as bevel cutting and full 3D part cutting.



INDEPENDENTLY DRIVEN CUTTING HEADS

Each cutting head is independently controlled by its own AC servo motor which allows for independent movement as well as easy to set up mirror cutting. Cut your parts in half the time without sacrificing edge and cut quality!



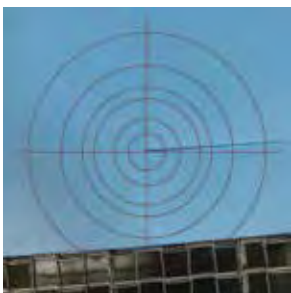
ADJUSTABLE CUTTING HEAD SPREADER

The adjustable spreader option allows for incredible flexibility in cutting multiple parts at the same time. Simply slide the heads to your desired spacing and lock them in place. Cut with multiple heads at one time or cut with one head by removing water to the other heads via individual water shutoffs.



HEIGHT SENSOR

This feature can dramatically reduce the potential for broken nozzles by automatically adjusting the height of the cutting head to maintain a fixed distance between the nozzle and the material regardless of variances in the material.



LIVE REMOTE PROGRAMMING CAMERA

This device can be used to accurately and quickly:

- line up the cutting head to the edge of a sheet to minimize scrap
- locate off of the center of a hole or other feature if you are cutting geometries in a pre-cut part
- locate off of two holes in a large sheet if you are indexing a plate that is larger than the cutting area through the machine



WATERJET MOUNTED PRINTER

With a waterjet mounted printer running along side your cutting head, you can print part numbers and critical information directly onto your material. This printer is mounted on the Z-carriage next to the waterjet cutting head. This way you can cut and print in one complete, streamlined process.

LOADING TABLES

Improve the high production capacity of the J-Series and L-Series water-only waterjets with self-loading tables to make the waterjet a fully automated system. Self-loading tables often work in conjunction with elements like optical eyes, linear encoder wheels, and guillotine doors to further automate production. WARDJet offers many different types of loading tables to allow for complete machine customization.



One option features a standard UHMW abrasion resistant plastic on top of a sturdy machined steel frame that is secured to the front or back of the waterjet. This option allows operators to load material on the table while the waterjet is simultaneously cutting over the tank. The UHMW tables can also be incorporated on the back side of the machine to catch material that is already cut for easy off-loading.



The second option is a mechanized roller table which allows the operator to pre-load material prior to cutting. This type of loading table is recommended for use with rigid materials that do not require the support of UHMW to move onto the cutting table. Mechanized roller tables can also be integrated at the back of a waterjet system as off-loading tables.



A third option is the self-loading mechanical table. This type of table is integrated into the system to automatically feed material from the front to the back of the machine, making part cutting more efficient and ergonomic. In this instance, the cutting table will communicate with the control system to feed material upon completion of cuts. As a result, your production experiences reduced set up time and increased efficiency.

Often off-loading tables are paired with one of these types of loading tables in order to support high production functionality. Incorporating an on-loading and off-loading table into your water-only waterjet system provides the ideal environment for the speed and accuracy of the machine to be harnessed.

WARDJet ANALYTICS

With WARDJet Analytics, you can easily see the number of parts that have been cut on your machine and minutes of cutting per day for a specified time period. If you click on a bar for a particular day, you can see the programs that were cut and the time for each program. This information is stored “in the cloud”, so it can be accessed over the internet from any internet connected device.

For your security, a login and password are required to see this information. This service is currently provided free of charge.



CONTROLLERS

X-CLASSIC CONTROLLER

WARDJet has developed a motion control system that can take your waterjet cutting business to the next level. Just some of the features available include internet connection at your waterjet controller for instant automatic updates, direct communication link to technical support, dual touch screen controller, and simultaneous multiple head 5-axis capability!

XL CONTROLLER

WARDJet's XL controller is an affordable, easy-to-use option with many of the same advanced features and functionality of the X-Classic. One of the best things about the XL is that it was designed specifically with all existing waterjet owners in mind. Nearly every waterjet in the world can be upgraded to have the full capability of a WARDJet XL Controller.

CONTROLLER RETROFITS

In order to provide ongoing service and support to users of ALL waterjet systems, WARDJet offers retrofits of our XL Controller to nearly any waterjet machine. Our controller allows you to extend the capabilities of your waterjet system more than you have ever dreamed possible.

Automatic updates are available as new features are added. Your installation can be configured to automatically check the web for updates and upgrades and automatically install them, keeping you on the cutting edge of controller technology. There is no additional charge for these upgrades.



CELL PHONE PENDANT CONTROL

Control jog, Z height, feed rate, and cutting speed all from your Android device. Setup of the pendant and linking it to your machine is as easy as taking a picture with your phone. Once installed, you can start and stop programs right from your phone or tablet. WARDJet is continuing to add features to the software and these updates will make sure you are getting the most out of your WARDJet waterjet!

Contact WARDJet to learn how to add this functionality to Ikuhlu and your waterjet, then download the app to as many Android devices as you would like from the Android Market.



QR CODES

WARDJet is dedicated to providing you the best service possible. In addition to our technical support team and website-based technical support documentation and videos, we have developed a way to bring technical support information directly to your mobile phone, tablet, or Android wireless pendant. Our QR Code Mobile Support means that answers to common maintenance and troubleshooting questions are at your fingertips!

What is a QR Code?

A QR Code is a type of barcode that can be read universally by all smart phones and tablets that are outfitted with a camera and a QR Code reader app.

How Do I Use QR Codes?

Download a free QR Code reader from your device's app store or marketplace. When you open the app, your device will activate the camera. Align the QR Code in the box on your screen. You'll be immediately directed to a page of information about the component in which you are interested.

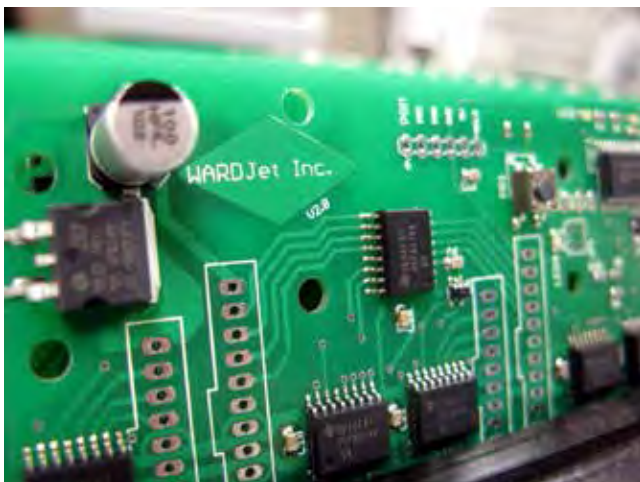
How Does This Benefit Me?

Whether you place the stickers around your machine or just keep the master list at the controller, the use of these QR Codes will provide many benefits:

- Immediate answers to specific questions
- Immediate assistance 24/7, all year long
- No need to sift through unrelated documents to get to what you need
- Guides, videos, parts lists, and manuals specific to the component you're working on
- Send a parts purchase request to any email address
- Order parts from WARDJet directly from your phone
- Additional content constantly being added!



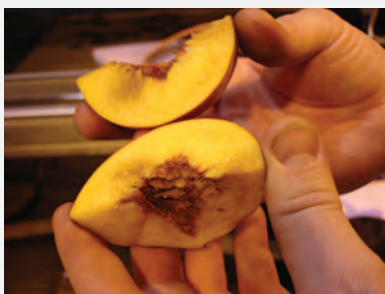
CIRCUIT BOARD ASSEMBLY



WARDJet operates our own microchip pick and place and surface mount circuit board process with wave soldering and ovens. By including the accompanying electrical and electronic hardware, WARDJet is able to make most circuit boards backwards compatible. This ensures your machine can be updated with the newest developments, R&D and technology as time passes.

WARDJet's team of electrical engineers is always working to update software and controllers to help aid your waterjet operation. Automatic updates are available as new features are added. Your installation can be configured to check the web for updates and upgrades

and automatically install them, keeping you on the cutting edge of controller technology. There is currently no additional charge for software upgrades.



WARDJet

NOT JUST A WATERJET...

180 SOUTH AVE - TALLMADGE OH, 44278
PHONE: (330) 677-9100 - FAX: (330) 677-9121
EMAIL: sales@wardjet.com - WEB: <http://www.wardjet.com>

WARDJET WATER ONLY WATERJETS © 2013
Specifications subject to change at any time without notice.