

# Pump Systems

WARDJet P-Series waterjets are powered by Hypertherm's Advanced Intensifier Technology. P-Series intensifier pumps are reliable and easy to service. They offer long life for consumable parts and the lowest cost of operation.



**Pump Capabilities**  
Pumps range from 30hp to 150hp and operate at 60,000 psi.

# Controllers

Single or double touch-screen controllers include a direct internet connection for live video support, waterjet analytics, online training materials, automatic updates, and much more. Each controller is also equipped with a physical panel of hardware controls and a set of four casters that allow for greater maneuverability while cutting.



# Specifications and Details

Model	J-106	J-128
Footprint	x	20.125' x 11.75' / 6.13m x 3.58m
1or 2 Carriage X-Y Cutting Area	10' x 6' 12' x 8' / 3.66 m x 2.44 m	10' x 6' 12' x 8' / 3.66 m x 2.44 m
Software	Ikuhlu, WARDJCAM, IGEMS	Ikuhlu, WARDJCAM, IGEMS
Power Requirements (Gantry Only)	230V, 30 amps, 3 Phase	230V, 30 amps, 3 Phase
Air Requirements	80 psi, 2 cfm	80 psi, 2 cfm / 5.52 bar, 0.06 cmm
Max Number of Z-Carriages	4	4
Drive Mechanism	High precision rack and pinion (X&Y) Ball screw Z	High precision rack and pinion (X&Y) Ball screw Z
Linear Positional Accuracy	± 0.010" / ± 0.25 mm per axis	± 0.010" / ± 0.25 mm per axis
Repeatability	± 0.005" / ± 0.01 mm per axis	± 0.005" / ± 0.01 mm per axis
Speed	0.01"-2500" / 0.25 mm-63500 mm based on 230 volts	0.01"-2500" / 0.25 mm-63500 mm based on 230 volts

J-SERIES



TAILORED WATERJET SOLUTIONS

# J-Series

Engineered to be Durable, Effective, and Easy to Maintain



J-Series with Load and Off Load Table

# J-Series

The J-Series waterjet line is a lightning-fast, water-only system designed for high production runs of soft goods. Engineered to be durable, effective, and easy to maintain, the J-Series is capable of massive throughput while keeping manufacturing costs low.



### SPEED & ACCURACY

High acceleration and deceleration values for quick positioning and cutting.



### ACCESSIBILITY

Material can be fed through the machine from the front, back, and sides.



### ROLLS & SHEETS

Both large rolls and sheets of material can be fed into the waterjet system.

## Water-Only Cutting

Water-only waterjets are a relatively new concept for a lot of companies, but WARDJet has been developing systems for water-only applications for years. Our trademark water-only waterjet systems have been tested and proven to perform for many unique applications.



### Water-Only Cutting Heads

Ideal for cutting a wide variety of materials, water-only heads have a narrow kerf that does not alter the intrinsic properties of the material.

High acceleration at speeds of 2500 inches per minute or 50 inches per second allow small parts to be cut quickly.

Add 5-Axis Cutting to program and cut complex 3d shapes that eliminates the need for secondary finishing.



## Easily Collect Waste Water

Lined with stainless steel, the sloped tank is designed specifically for water-only cutting. The slope along with the assistance of washdown valves focuses water to a central point at the back of the tank where waste water can be easily collected and fed to a drain.

The tank of this J-Series water-only waterjet also features steel supports to hold water brick trays. These steel supports can be fine-tuned to keep materials flat and level in relation to the cutting head, which is important for accurate 5-Axis cutting.

