



**OMAX Corporation**

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**The OMAX Commitment: Superior care before, during, and after the sale.**

OMAX JetMachining® Centers are sold through a well established and growing network of distributors, both domestic and international, with representation in over 40 countries. Each distributor is carefully selected to provide superior customer care before, during, and after the sale. Additionally, OMAX Service Technicians are available for expert installation, training, maintenance, and repair assistance.

OMAX is strongly committed to innovation in the field of precision abrasivejet machining. Our substantial investment in engineering and R&D enables us to maintain the technology lead through continued product development.

**OMAX  
TECHNOLOGY  
GUARANTEE**

*The OMAX Technology Guarantee entitles you, as the original owner, to free OMAX software upgrades for the life of the machine.*



**DIRECT DRIVE PUMPS**

The OMAX Pump Guide

## Efficiencies of Direct Drive Technology

Compact & Quiet

High Power Efficiency

Lower Water Usage

Easy Maintenance

Low Operating Cost

Designed for Tough Industrial Use

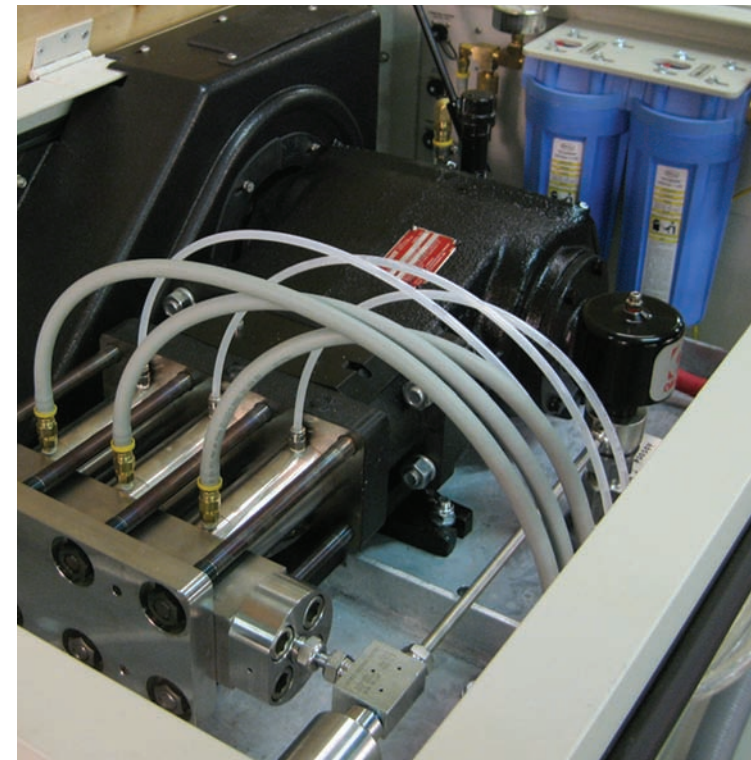
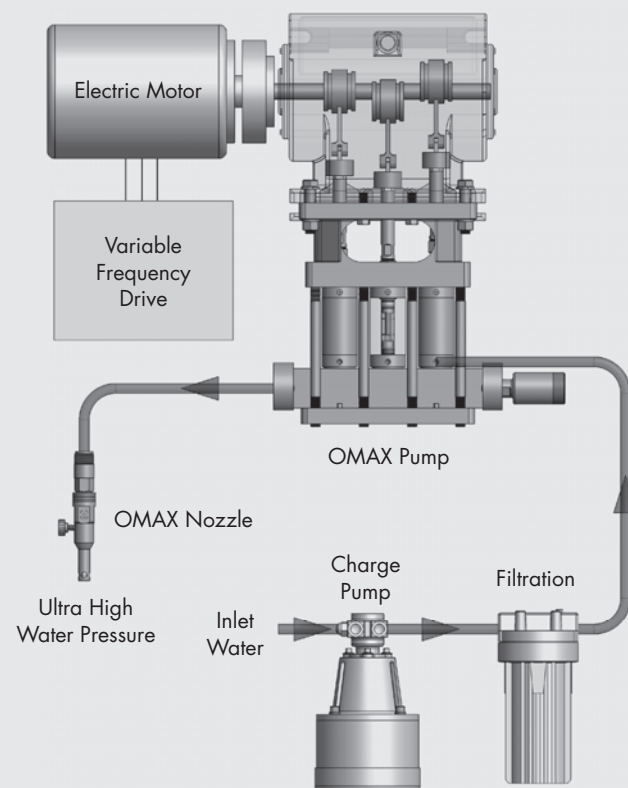
## ADVANCED PUMP TECHNOLOGY

### The future is here.

From the recognized leader in the high-pressure industry comes the latest innovation in direct drive plunger pump technology, the OMAX® V-Series Pump.

Designed for optimal efficiency, the OMAX V-Series Pump delivers more than 90% of the electrical input power to the cutting nozzle. This translates into less water usage, faster cutting speed per unit of input power, and lower cost per finished part than other pump technologies.

In comparison, intensifier pumps deliver less than 70% of the electrical input power to the nozzle. To learn more about the differences between intensifier pumps and direct drive plunger pumps, visit the product section at [www.omax.com](http://www.omax.com) and read "A Comparison Between Intensifier and Crank Drive Pumps," by Dr. John Olsen.



## OMAX V-Series Pumps

### P3050V Specification

Designed for machine shops that cut thick materials or require faster cutting speeds.

Power	30 hp (22 Kw)
Rated Output Pressure	50 ksi (3450 bar)
Rated Orifice Size	0.014 in (0.355 mm)
Rated Flow Rate	0.42 – 0.84 gpm (1.5 – 3.2 Lpm)

### P3055V Specification

Designed for shops that require high precision and primarily utilize MAXJET® 5 MiniJet nozzles.

Power	30 hp (22 Kw)
Rated Output Pressure	55 ksi (3790 bar)
Rated Orifice Size	0.010 in (0.254 mm)
Rated Flow Rate	0.3 – 0.43 gpm (1.1 – 1.6 Lpm)

### P4055V Specification

Designed for shops with high production or multiple nozzle requirements.

Power	40 hp (30 Kw)
Rated Output Pressure	55 ksi (3790 bar)
Rated Orifice Size	0.015 in (0.381 mm)
Rated Flow Rate	0.45 – 1.05 gpm (1.7 – 4.0 Lpm)

### Dual Pump Package Specification

Designed for shops that cut thick materials and have high capacity production or multiple nozzle requirements.

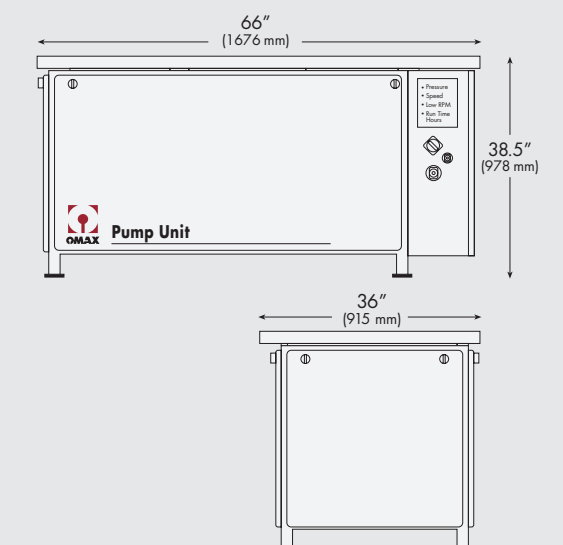
Power*	80 hp (80 Kw)
Rated Output Pressure	55 ksi (3790 bar)
Rated Orifice Size	0.020 in (0.508 mm)
Rated Flow Rate	0.90 – 2.10 gpm (3.4 – 8.0 Lpm)

\* Increase depends on geometry and cutting conditions. Recommended operation of one cutting head with 0.020" orifice and 0.042" mixing tube, or two cutting heads with 0.014" orifice and 0.030" mixing tube.

### Utility Requirements:

Electrical Power	3-Phase, 380 – 480 VAC +/- 10%, 50-60 Hz
Water Supply	1.3 gpm (5 Lpm)

Contact OMAX for detailed utility requirements. Pumps built to meet UL and CE specifications.



### OMAX V-Series Pump Benefits

- Highest efficiency abrasive waterjet pump on the market
- No in-rush current at starting
- With Chiller, cooling water is recycled
- Long lifetime of all components
- Easy access to all components for maintenance
- Low noise levels
- Runs on tap water\*
- Ergonomic design
- Small footprint
- 2-year warranty

### Standard Features

- Variable speed electric motor for different cutting situations
- Automated on/off cycles so pump runs only during part processing
- Automatic latched safety shut-off switch in case of power failure
- Pressure safety blow down valve included
- Charge pump provided
- Inlet filters (0.2 microns) provided
- Auxiliary power supply to operate waterjet machine provided
- Key-pad with digital display
- Variable frequency drive
- 110VAC (220VAC) auxiliary power supply
- On/off and emergency switches
- Remote and local control
- Wooden workbench top

\* Note: For water temperatures in excess of 70° F, a Chiller is recommended. Extreme mineral content or acidity may require treatment.

Robust

Efficient