



OMAX®

A Hypertherm Associates Brand

EnduroMAX 100HP Pump

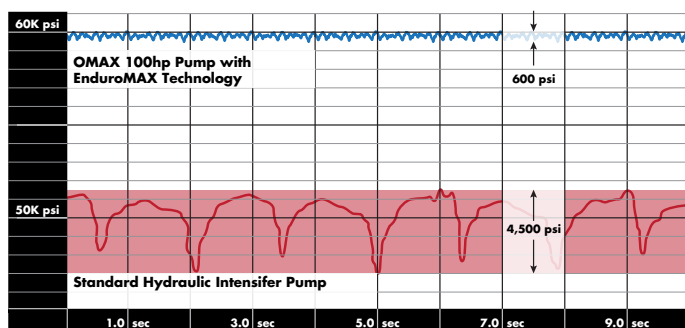


EnduroMAX pump technology is exceeding standards in abrasive waterjet cutting, with high JetPower and low operating cost. Our engineers still were not satisfied, though, so they pushed the limits once again. The result is the perfectly tuned 100HP Pump with EnduroMAX technology, a bold, new approach that delivers more power and a smoother jet than any other pump. Newly developed from proven technology, the OMAX 100HP Pump promises exceptional power that pushes the boundaries of what is possible.

Superior power delivery

The laws of physics are fixed, we cannot change them. But we can use them. To provide more cutting power for less energy. This sounds like a paradox, but it is simple, if you challenge the norm. Intelligent EnduroMAX technology and engineering adapted the laws of physics to deliver the highest JetPower available. Delivering 30% more JetPower to the cutting head compared to the best intensifier pump designs, the EnduroMAX 100HP Pump cuts faster, smoother, and more efficiently than any other 100HP pump at any pressure. OMAX designed their direct drive technology to deliver the maximum cutting potential to the cutting head. More power to the cutting head means faster cutting and lower operating costs, resulting in exceptional productivity.

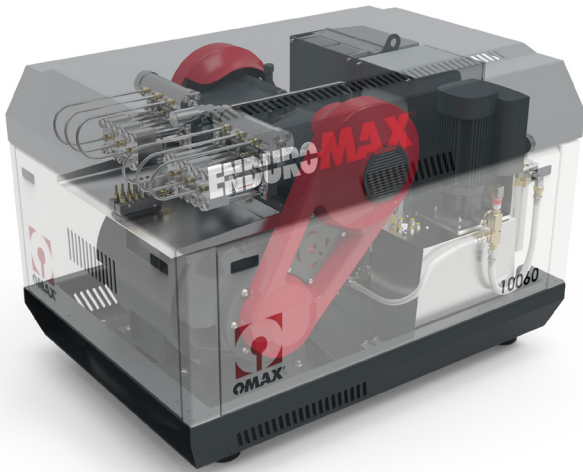
Low ripple = low maintenance



Based on actual testing and published data.

Features & benefits

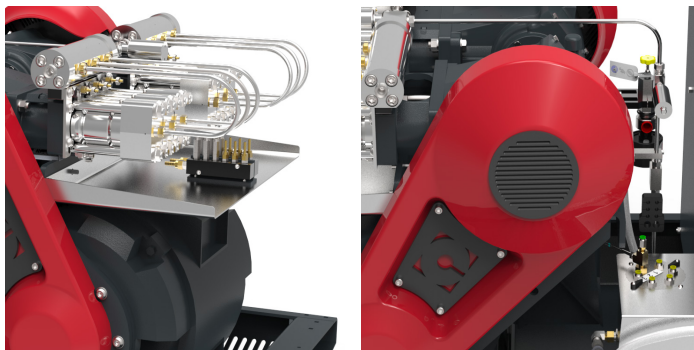
- The industry's first reliable 60,000psi 100hp ultra-high pressure direct drive pump design
- Variable Frequency Drive eliminates in-rush current peaks and maximizes operating flexibility
- Maximizes production with the longest maintenance intervals in the industry
- EnduroMAX pump technology delivers the highest JetPower per installed electric horsepower for faster and more efficient cutting
- Continuous 60,000 psi operation for faster part processing
- Provides 30% more cutting power at the nozzle, comparable to today's 135hp intensifier design
- Synchronized cylinders provide smoothest jet flow
- 5th Generation direct drive pump technology enables the highest efficiency and reliability of any 100hp pump
- Independent cylinders for easy modular maintenance
- Twice the power for only a 5% increase in footprint
- Continuously adjustable VFD technology significantly expands capabilities by controlling output flow rate and pressure
- Lower overall energy costs compared to intensifier technology
- Uses significantly less water than leading intensifier pump designs with the same JetPower
- Environmentally "green" system with quiet and clean operation



	Motor power	Maximum JetPower ¹	Output pressure	Orifice & flow rate ²	Dimensions
10060V	100 HP (74 kW)	85 HP (63 kW)	60,000 psi (4,100 bar)	0.022" / 2.25 gpm (0.56 mm / 8.52 Lpm)	44" x 62" x 44" (1,118 mm x 1,575 mm x 1,118 mm)

¹JetPower is directly proportional to the water pressure at the nozzle times the volume flow rate of the waterjet stream.

²Recommended maximum orifice size. Smaller orifice sizes have a corresponding lower flow rate.



World-class service, support and innovation for advanced abrasive waterjet systems

OMAX, part of Hypertherm Associates, sets the standard for service and support in the waterjet machine tool industry. It starts with a rigorous certification program at OMAX in Kent, Washington where OMAX direct and distributor technicians are trained to install, operate and maintain OMAX abrasive waterjet systems. OMAX engineers continue to innovate technology for abrasive waterjet machining, from proven 4th generation pump designs to cutting edge drive systems with micron-level accuracy. Customers have a number of contact options to suit their schedules and needs, including an extensive library of online resources. With the largest abrasive waterjet support network in the world, OMAX continues to shape the future of waterjets.

To see how an OMAX abrasive waterjet system can save you time and money, call or visit our website and request a free part analysis today.



UL 508A, CAN/CSA C22.2 No. 14,
CAN/CSA C22.2 No. 73
ISO 9001:2015 Certified

For more information, visit: www.omas.com

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MKT126



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