



DIRECT DRIVE TECHNOLOGY



Maximum Efficiency, Minimum Downtime

OMAX's advanced direct drive technology **delivers the most nozzle horsepower**, or JetPower, of any waterjet pump. More JetPower means **faster and smoother cutting**. Designed for long operating cycles and quick, easy maintenance, these pumps **deliver more time between maintenance intervals** and require **less user involvement**, maximizing abrasive waterjet production.



**30% more
JetPower to
cutting head**



**Longer time between
maintenance intervals**

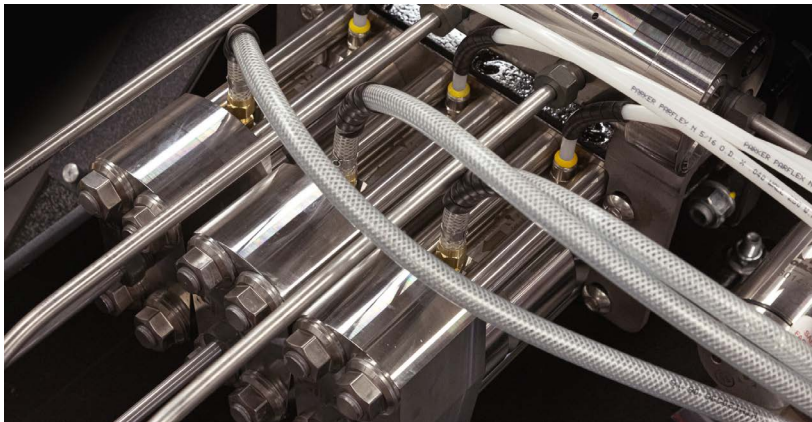


**Exceptional
productivity**



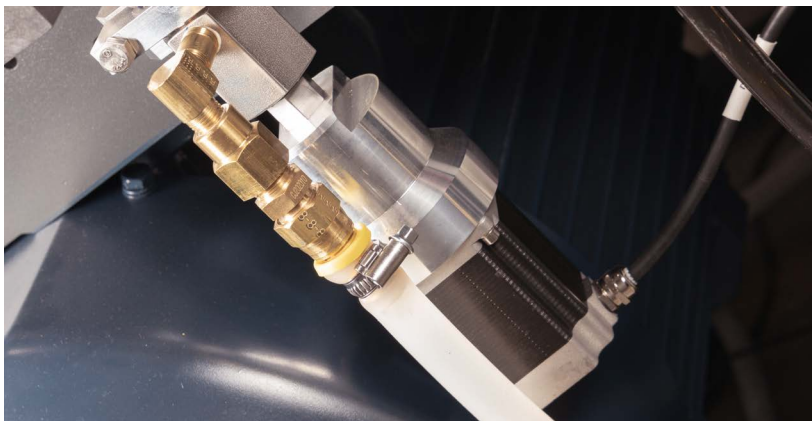
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ENDUROMAX® TECHNOLOGY



With system uptime a critical requirement for waterjet operators, OMAX developed the EnduroMAX technology to **extend pump life and reduce maintenance cycles**. Utilizing advanced materials and innovative engineering while maintaining the tradition of OMAX durability, the EnduroMAX pump simplifies maintenance and reduces downtime.

5-SERIES: BEYOND DIRECT DRIVE



Developed alongside the OptiMAX JetMachining Center, the EnduroMAX 5-Series takes all the benefits of the original EnduroMAX and dials them up. **Designed to further reduce operator involvement**, the EnduroMAX 5-Series features a motorized adjustable dump orifice and complete software control that **automatically adjusts pressure settings, reducing fluctuations and extending pump life**. The result is a highly efficient pump system with reduced dependency on the operator that maximizes production.



ENHANCED TECHNOLOGY

With Variable Frequency Drive technology, **OMAX pumps maximize production potential with substantial energy savings by altering the speed of the motor based on demand**. With the VFD, OMAX pumps can operate throughout a wide range of motor RPMs, resulting in precise pressure control. Varying the speed and torque of the electric motor reduces wear and tear on the motor and pump crankcase, limiting maintenance overhead. Whether adjusting for low pressure piercing of delicate materials or dialing in pump pressure for maintenance longevity, VFD technology provides the user the flexibility to adapt to their specific needs and requirements.



DIRECT DRIVE TECHNOLOGY

FACTORY TESTED, FIELD PROVEN

All OMAX direct drive pumps are extensively tested at the factory, first in a standalone testing rig and then connected to your machine for a final test. With thousands of machines installed and operating worldwide, OMAX direct drive pump technology is the premier abrasive waterjet pump solution for maximum productivity.

	MOTOR POWER	MAXIMUM JETPOWER ¹	OUTPUT PRESSURE	ORIFICE AND FLOW RATE ²
ENDUROMAX 5-SERIES³	30 HP (22 kW)	25.5 HP (18.7 kW)	60,000 psi	0.012" / 0.67 gpm (0.30mm / 2.54 lpm)
	40 HP (30 kW)	34.0 HP (25.5 kW)		0.014" / 0.92 gpm (0.36mm / 3.48 lpm)
	50 HP (37 kW)	42.5 HP (31.5 kW)		0.016" / 1.20 gpm (0.41mm / 4.54 lpm)
ENDUROMAX⁴	30 HP (22 kW)	25.5 HP (18.7 kW)	60,000 psi	0.012" / 0.67 gpm (0.30mm / 2.54 lpm)
	40 HP (30 kW)	34.0 HP (25.5 kW)		0.014" / 0.92 gpm (0.36mm / 3.48 lpm)
	50 HP (37 kW)	42.5 HP (31.5 kW)		0.016" / 1.20 gpm (0.41mm / 4.54 lpm)
	100 HP (75 kW)	85 HP (63 kW)		0.022" / 2.25 gpm (0.56 mm / 8.52 lpm)
MAXIEM	20 HP (15 kW)	17 HP (12.5 kW)	50,000 psi	0.011" / 0.52 gpm (0.28mm / 1.97 lpm)
	30 HP (22 kW)	25.5 HP (19 kW)		0.014" / 0.84 gpm (0.36mm / 3.18 lpm)
	40 HP (30 kW)	34 HP (25 kW)		0.016" / 1.09 gpm (0.41mm / 4.13 lpm)
GLOBALMAX	20 HP (15 kW)	17 HP (12.5 kW)	45,000 psi	0.012" / 0.62 gpm (0.30mm / 2.35 lpm)
	30 HP (22 kW)	25.5 HP (19 kW)		0.015" / 0.96 gpm (0.38mm / 3.63 lpm)
	10 HP (7.5 kW)	7 HP (5.2 kW)	30,000 psi	0.011" / 0.40 gpm (0.28mm / 1.51 lpm)
PROTOMAX⁵	5 HP (3.7 kW)	4.3 HP (3.2 kW)		0.008" / 0.25 gpm (0.2mm / 0.95 lpm)

- 1 JetPower is directly proportional to the water pressure at the nozzle times the volume flow rate of the waterjet stream.
- 2 Recommended maximum orifice size. Smaller orifice sizes have a corresponding lower flow rate.
- 3 EnduroMAX 5-Series pumps are only available on OptiMAX JetMachining Centers
- 4 EnduroMAX pumps are standard on all OMAX JetMachining Centers and optional on MAXIEM systems.
- 5 ProtoMAX pump is only available on the ProtoMAX abrasive waterjet system.

Specifications subject to change without notice. MKT044B © OMAX Corporation Mar 2022



OMAX is the global total solutions provider in advanced abrasive waterjet systems. Our intuitive IntelliMAX® Software Suite simplifies programming and reduces setup times, increasing your productivity. 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. 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.

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