



Sonic High Speed Waterjet

System Highlights and Specifications

Single Source Supplier

- All components have specifically been built to optimally work together at “peak performance”
- One point of contact and responsibility for your machine tool makes it easy to do business with FLOW - the world’s leader in the design and manufacture of abrasive waterjet technology

High Speed Design

- Not only does the Sonic have an extremely fast top speed, it also is the quickest waterjet machine ever built. Acceleration is 10x faster than a traditional waterjet machine. These speeds and accelerations are achieved via the rigid machine tool skeleton we’ve designed and the premier linear drive technology we’ve selected.
- Produces parts faster
- Designed to last, the Sonic is a productivity workhorse.

FlowMaster® Intelligent Control System

- Windows-based PC machine and pump control
- No CNC or abrasive waterjet experience necessary: “Trained in a day, proficient in a week.”
- Minimal programming and setup time
- Control both the XY table and the high pressure equipment from the operator station

Advanced Drive System

- Linear Drive technology
- Fully Digital Drive
- 360 degree bellows
- Rennishaw scale feedback
- Dual side drive on the base axis



Material Handling Options

- Your choice of shuttles, conveyors, and simple tanks.
- Manually operated or programmable

Other Options

- Multiple cutting heads
- Part Labelers, Safety curtains or safety mats easily integrated into FlowMaster

Work envelope	Base in 1 meter increments. Bridge in 1, 2, 3, or 4m. Z of 10”
Accuracy (Single Head)	± .003” (.076mm)
Repeatability (Single Head)	± .002” (.051mm)
Contouring Maximum:	0.1 to 3,500 ipm.
Dual Head	Speed during tight geometry may be reduced.
Rapid Traverse Rate	5,000 ipm for the X and Y axis
Pump	11, 25, 30, 50, 75, 100, 150, and 200 horsepower available
Operating Pressure	60,000, 55,000, and 40,000 psi available
Drive System	Linear drive, fully digital system

Flow International Corporation reserves the right to change these specifications should it be necessary to make design improvements in order to enhance the performance of our product.