

Benefits of High Pressure Coolant Systems



What Can you Expect When Using High Pressure?

Optimal Chip Control

High pressure coolant penetrates the vapor barrier between the cutting tool and the work piece to provide rapid chip quenching. This makes chips brittle, causing them to immediately break into much smaller pieces that are quickly flushed away. There are no long, stringy chips that can wrap around the work piece and chuck. When operators don't have to stop the machine to clear chips and conveyor clogs, they can run the machine unattended and achieve "lights out" manufacturing.

Longer Tool Life

High pressure coolant lubricates tools and reduces heat, which results in significantly longer tool life. It's common for HPCS users to find that their cutting tools last five times longer.

Improved Surface Finishes

High pressure coolant evacuates chips from the work area before the cutting tool has a chance to re-cut them. This prevents marring of the work piece, resulting in smoother surface finish.

Increased Machine Tool Capabilities

Machine tools that previously couldn't efficiently perform gun drilling or deep-hole drilling can easily perform these operations when running with high pressure coolant.

Reduced Cycle Times & Increased Production

Machine operators can typically increase speed and feed rates by a minimum of 20 to 30 percent, resulting in much faster cycle times.



They Literally Pay for Themselves

Adding a high pressure coolant system to a machine tool is a financially smart move. The investment is recovered within months due to the immediate cost savings resulting from longer lasting cutting tools, faster cycle times, fewer work stops, and the ability to run the machine unattended.

Demand Quality. Insist on MP Systems.

Built to Last

It's typical for MP Systems' high pressure coolant systems to run for more than a decade with very little maintenance. Our products are thoughtfully engineered and built with high quality components to ensure they're robust and long lasting. They're designed to perform well in harsh machining environments and endure the test of time. Almost all of our products include our "no hassle" 2-year parts warranty.

Proprietary Abrasive Duty Upgrade

MP Systems worked with companies that routinely machine very abrasive materials to develop proprietary, optional upgrades that can withstand the challenges of metals like cast iron, cast aluminum, and steels coated with mill scale.

Exceptional Service & Support

When you call MP Systems during regular business hours, you're quickly connected with a live person who has the expertise to help you.

Because our products are designed and built on site at our East Granby, CT location, all of our service engineers have in-depth knowledge of how they function. They can quickly and accurately answer even your most challenging technical questions.

Need parts? Our facility is only 2.3 miles from Bradley International Airport. We stock all consumable parts and they typically ship the same day.

One Stop Shop

In addition to high pressure coolant systems and chillers, MP Systems also offers mist collectors, wash down systems, coolant filtration systems, and other machine tool accessories. All products are backed with MP Systems' exceptional service and support.

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Made in the
USA