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## NEWS RELEASE

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### **Master Chemical Corporation Chronicles Success of Premier Distributor, Illini Coolant Management in Recent Case Study**

#### **Illini Coolant Management's Process Improvements Yield Daily Savings of \$2400 for Addison, Illinois-based manufacturer, Suruga USA Corp.**

Perrysburg, Ohio, May 21, 2008—Master Chemical Corporation has released a case study ([http://www.masterchemical.com/db-docs/case-studies/2008-05-21\\_Suruga.html](http://www.masterchemical.com/db-docs/case-studies/2008-05-21_Suruga.html)) detailing the success of one of its Premier Distributors, Illini Coolant Management, considered to be the Chicago Metro area's complete coolant management resource. Process improvements and a change in coolant are helping the metal-forming manufacturer pick up more than 2.5 hours per machine, per shift—for a savings of about \$2400 per day.

Addison, Illinois-based Suruga USA Corp. manufactures metal forming machinery and accessories, and special mechanical parts for factory automation. As sister company and sole distributor to Misumi USA, a subsidiary of the Misumi Corporation of Japan, Suruga's mission is to provide highly original products with high quality, competitive prices and short delivery times.

Suruga was spending more than 2 ½ hours every day shutting down machinery in order to manually apply and re-apply tapping compound and were not getting the expected tap life. The tapping fluid was polluting the cutting fluid in the machine, degrading the coolant, and causing rancidity.

Illini Coolant Management was brought in to run tests and assess the situation. At this point—while using a tapping compound that had to be applied manually—the tapping operation was averaging four parts per tap at a cost of approximately \$23 each. Stopping to change taps and apply tapping compound was costing Suruga an average of 2.5 hours per machine, on ten machines, running two shifts. “Solving cutting fluid problems can seem pretty straight forward,” said Max Bailey. “But the process is complex. Machining coolants come in a range of chemical compositions and you need to match the properties of the fluid with the demands of the job,” he concluded.

After reviewing test results, Mr. Bailey proposed a different solution. “We elected to proceed with a high-lubricity, low-foam synthetic, because it had the potential to be used across the board—eliminating the need to manage three different fluids,” said Plant Manager, Wally Campbell.

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Release—Add One

“We chose a TRIM<sup>®</sup> synthetic coolant that approaches the machining performance of premium soluble oils. Even with its very high performance, the coolant meets or exceeds the most stringent environmental standards,” he stated. As soon as the product had been chosen, Illini Coolant Management technicians cleaned a machine to conduct a trial and recharged with the new TRIM fluid.

More than a year later, Mr. Campbell is still pleased with the solution. Eliminating the noncompatible tapping compound has saved time and increased productivity as well as extending the sump life and reducing fluid contamination. Suruga has standardized using the TRIM product. “The TRIM coolant is about 15% more expensive on average than the products it replaced,” observed Mr. Campbell. “However, we use about 40% fewer gallons and the machines are running cleaner with less odor,” he concluded.

Illini Coolant Management continues to identify changes to further improve processes for future cost savings. Suruga has added eight small, inexpensive coalescing units designed for sump-side use with a flow rate of 1.5 U.S. gpm (5.6 l/m). The Sump Side Coalescer<sup>™</sup> was developed by Master Chemical Corporation (the originators of coolant recycling) to meet the needs of any metalworking plant for a simple, effective, low-cost tramp oil separator. The Sump Side Coalescer<sup>™</sup> will process machine tool coolants to remove tramp oils and fines and provide clean, reusable coolant.

Illini Coolant Management is so confident in the quality of its products and services that it offers a no-risk guarantee. “We will come in and do all the work,” said Max Bailey. We guarantee the product and if the product doesn’t work we’ll remove it so you risk nothing.” According to Mr. Bailey, this customer-focused approach combined with the high quality Master Chemical TRIM fluids and XYBEX recycling equipment has been spectacularly successful.

Wally Campbell can list the benefits of the fluid change. They include longer tool life, improved part quality, reduced rejects and scrap, less machine downtime, and improved work environment. Suruga’s average tap life is up from four parts to more than 30. The cost per tapped hole has gone from \$5.75 to \$.77 per hole. As a result of not stopping as frequently to change tools and brush on tapping compound, the company has picked up more than 2.5 hours per machine per shift, for a savings of about \$2400 per day. “Using this TRIM<sup>®</sup> product has resulted in finding the equivalent of three new machining centers worth of capacity without spending a dollar in capital,” stated Mr. Campbell.

To read the entire case study visit:

[http://www.masterchemical.com/db-docs/case-studies/2008-05-21\\_Suruga.html](http://www.masterchemical.com/db-docs/case-studies/2008-05-21_Suruga.html)

#### **About Master Chemical Corporation**

Master Chemical Corporation was founded on November 13, 1951. Since then, working closely with the worldwide metalworking community, Master Chemical Corporation has developed and marketed a full line of specialty cutting and grinding fluids, cutting oils, concentrated washing and cleaning compounds, and rust preventives all under the TRIM Brand trademark. These products are both environmentally sound and when used in conjunction with Master Chemical’s XYBEX<sup>®</sup> Coolant Recycling and Filtration Systems, are the most durable and stable products available anywhere today. Master Chemical has always been committed to the safety of the people who use our products, the protection of our planet and the environment we live in, and the overall impact on our customers’ profitability. For further information please contact a Distributor near you ([http://www.masterchemical.com/na\\_en/distributors/index.php](http://www.masterchemical.com/na_en/distributors/index.php)), visit [www.masterchemical.com](http://www.masterchemical.com), or call us at 419-874-7902.

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