



### CRS FLEXIBILITY

CRS designs, creates, installs, operates and maintains on-site processing solutions for flat rolled products to improve productivity while reducing costs.

## A GLOBAL LEADER IN COOLANT RECLAMATION

In CRS you have a team dedicated to increasing the quality and recovery of coolants that directly impact your bottom line. Comprised of reprocessing experts with long experience, CRS provides effective and efficient management of the fluid recycling process.

### A PROVEN PROCESS

CRS has provided turnkey rectification and reprocessing services for over 30 years. Having perfected the process, we handle every step from start to finish, achieving new levels of competency for customers around the world. Having developed and employed a number of filtration and distillation technologies, we have a track record of establishing the best solution for each customer's needs, whether that solution is batch dump, 100% rolling mill flow or kidney loop.

Our success is proven—all on-site programs CRS currently manages have completed their initial contracts, and have renewed them.

Our custom-designed solutions are flexible to meet your needs, and we currently handle volumes ranging from one liter per minute to over 1000 liters per minute. A recovery rate for oil and additives that, on average, exceeds 95% speaks for itself. In the end, this proven process results in better quality reprocessed rolling oils and significant cost savings.



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*CRS owns and operates 80% of the aluminum cold-rolling reprocessing installations in the U.S. and offers solutions globally.*



\_ Our turnkey process produces recovery rates that often exceed 95%.

## \_ QUALITY CONTROL AND TESTING

For the flat rolled products industry, CRS maintains the highest quality standards through detailed analysis and reporting conducted by our on-site technicians. Our operational support is further enhanced by 24/7 remote monitoring from our headquarters. Additional analysis is provided by our off-site laboratories, staffed with full-time chemists who are available for immediate response and monitoring to ensure optimal reclamation.

## \_ OUR ADVANTAGE

At CRS, we're experienced in handling the entire process of coolant reclamation for the flat rolled products market. CRS' on-site service requires no capital investment, freeing working capital and eliminating large unscheduled maintenance bills. We design the process that is best suited for your mills, taking into account the specific attributes of your company and the site. Our design experience gives us insight into working within space constraints, reducing waste, eliminating expensive DE filters—or working in combination with them—and maintaining an average recovery rate of 95%. Once the solution is installed, a dedicated team is focused on optimizing process efficiency. Our lab facility provides detailed analysis and our on-site operating technicians insure extensive quality control and maximum up-time.

## CASE STUDY

### CHALLENGE

A fabricated aluminum manufacturer in Washington State was unable to handle high volumes of waste, posing environmental and financial risks. They required process optimization and wanted to reduce the cost of rolling oil while minimizing fluid waste to improve profitability.

### SOLUTION

Ultimately, CRS designed, fabricated and installed a fixed, on-site, twenty-liter-per-minute reprocessing unit and took sole source responsibility for recycling the entire inventory of rolling oil and solvents. CRS also provided total technical support including lab assistance and analysis, inventory monitoring, maintenance support and ad hoc resource coverage.

### RESULTS

Currently reprocessing up to 265,000 liters per month, the facility has eliminated off-site waste shipments.

CRS' Optimized Reprocessing Management (ORM) has resulted in a \$1.5 million USD annual cost savings and a higher quality of reusable rolling oil. CRS has also helped this customer:

- achieve a waste fluid minimization target of 95%
- realize an additive recovery level of 95%
- eliminate staining on production material
- get rid of off-site transportation costs
- reduce CO<sub>2</sub> emissions
- provide a cleaner operation for the health and safety of plant employees
- realize a reduction in overhead
- give more attention to the core business