

# Outstanding Saw Blade Life on Steel Tubes

## Situation

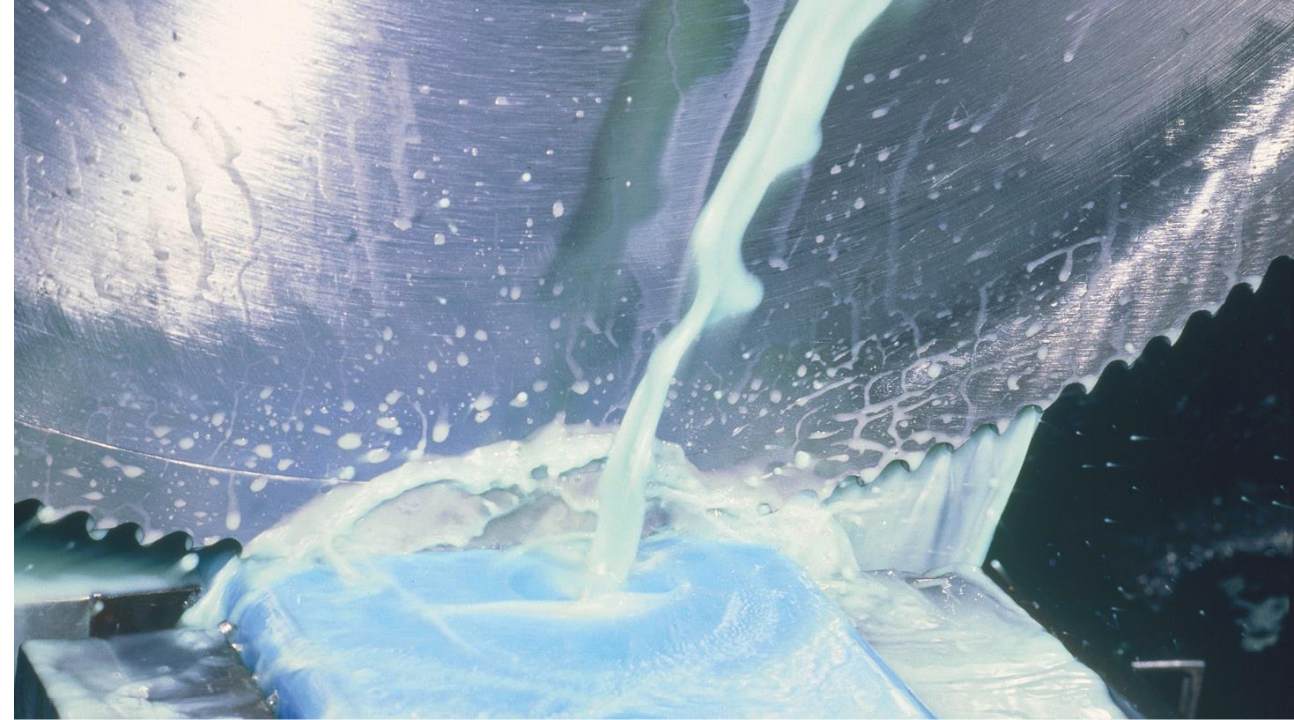
A Southern US tube manufacturer needed to increase saw blade life on HSLA (High Strength Low Alloy) steel tubes being processed with Bewo cutting systems. They planned a controlled test of multiple coolants to determine blade life and overall cost per part.

## Solution

The manufacturer designed a comparison test to measure the saw blade life using seven replacement coolant options. Of the fluids tested, three failed for not meeting the minimum criteria of 15,000 parts per blade. The Hysol MB 50 proved excellent results attaining 60,000 parts per blade, which was 1.7 times greater than the next best fluid tested and 2 times higher than the fluid currently in use. Due to the outstanding blade life performance of MB 50, the customer ceased further testing and converted to the Castrol® fluid.

## Outcome

The customer ran a tool life test and found that Hysol® MB 50 achieved the longest life, correlating to 25% lower cost per part for tooling, as compared to the next best fluid. In addition to the tool life study, the customer also tested the coolants for rust protection. Hysol MB 50 passed their 90-day test with no corrosion while running at a lower concentration than the other fluids.



## Savings

- Longer blade life resulted in few replacements (cost savings \$15,125 per machine)
- Minimized downtime and improved productivity
- Lowered total cost per part