



## Cutrite 3398 Case Study #1

### Improved carbide band saw blade life

#### The Customer's Situation

- The customer is a manufacturer of dimensionally precise flat stock plates made of D2 steel, stainless steel and carbon steel.
- Plates range in size from 2" to 4" thick by 4 feet wide and 6 to 12 feet in length. They are banded together to form a stack that is between 2" to 12" tall and then sawed length wise to the proper width with each cut can take up to 1 hour to perform.
- Friggi and Behringer saws using 31' to 37' carbide tipped Wikus saw blades. Each blade costs between \$500 and \$700.
- The customer was using a semi-synthetic fluid and experiencing a range of problems including poor blade life, rust on the machinery, poor coolant life and strong bacterial odors.

#### Coolant Control at Work

- Coolant Control recommended our Cutrite 3398. This highly engineered fluid is designed to provide excellent lubrication and extended sump life.
- Working closely with plant engineering, a 6 month evaluation was performed comparing the Cutrite 3398 against the current product.
- Tool life, fluid consumption and operator acceptance were monitored for the duration of the trial.

#### Successful Data Driven Outcomes

- Increased blade life by 20%.
- Reduced coolant cost by 11%, due to reduced consumption and elimination of disposal costs of the in-use fluid.
- Eliminated all odor complaints.
- Eliminated all rust issues with in-process parts.
- The equipment was clean. No greasy deposits or rust.
- Improved dimensional proportions on the cut sheet minimizing grinding requirements in subsequent operations.