

## ***Pushing the Envelope!***

It's proven that, technology and knowledge drive manufacturing, also true is that the metalworking industry is experiencing extreme pressure in order to meet the faster, better, cheaper mantra of today's economy. Manufacturers need to look for new ideas, designs and methods, examining every aspect of production. Re-invention can occur in various ways, but, fundamentally, it results from incorporating serious improvements in day-to-day processes resulting in bottom-line cost reduction by "thinking out of the box".

As milling specialist, we find that most of our customers are entertaining a 2 or 3 step milling process incorporating a **rough | pre-finish | finish** routine. Breaking that down even further, we are finding that the rough milling portion encompasses the majority of time spent on a part. We would like to introduce you to some aspects, techniques and solutions helping to optimize cutter performance while reducing this "roughing" cycle time - we like to call it ***PUSHING THE ENVELOPE!***

### **Topics that will be discussed in this session will be:**

- **High performance milling**
  - **Defying conventional milling wisdom...***your competitor is.*
  - **Metal removal rate (MRR)...***your friend or foe?*
- **Multi-Fluted Tools...***and their increasing popularity.*
- **Edge prep...** *it's a science you might say.*
- **Tool Engagement...***and its detriment.*
- **Chatter Reduction...***techniques that help.*
- **Chip Thinning...***and its importance.*
- **HP Milling, It's a symphony...** *all the instruments and their important roles.*
- **Q&A**