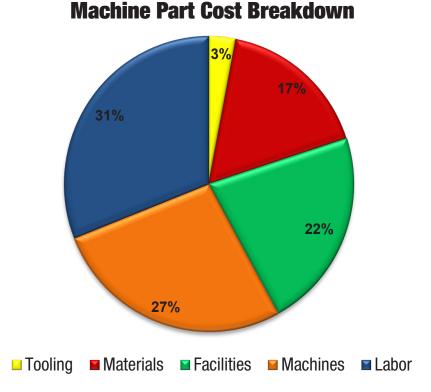


INDUSTRIES *is providing practical product solutions.*

The REAL cost of cutting tools



Did you know?

- 1. Tooling contributes a very small portion of the overall cost.
- 2. Facilities and materials categories are generally subject to market forces beyond the control of the manufacturer.
- 3. Nearly 60% of the cost associated with manufacturing a part can be attributed to labor and machining costs.











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9 Ways for Saving Money

1. Recommend a split point drill

· Drill faster - no "walking" and requires less pushing force

2. On hard materials, see a cobalt drill

- Cobalt resists heat allowing drill to last longer
- Always recommend for stainless steel

3. Use a spiral point tap in through holes

- · Forward-exiting chips don't clog flutes
- Tap up to 40% faster, increasing productivity

4. Upgrade to a coated drill

· Increase tool life 5-6 times, and double drilling speed with high-performance coatings - TiN, TiCN, TiAIN

5. Offer a parabolic flute drill for deep holes

- No pecking up to 12x drill diameter for faster drilling
- Wide flute spacing means a cooler-running drill

6. Suggest a high performance tap to increase productivity

- Double tap life and double machine speeds
- Designed for tapping hard materials and stainless steel

7. Recommend a shorter length drill

- More rigid for less breakage
- More accurate holes better concentricity

8. Carbide end mills

- · Carbide substrate for longer life and increased machining speeds and feeds
- Available in standard helix and 4, 5 & 7 flute variable index design
- · Use high helix design for Aluminum applications
- Also available in a powdered metal material for Aluminum applications

























