

Chart 1: Speed vs. Surface Finish

Key Factor	High-Speed Tools	High Surface Finish Tools
Primary Goal	Maximize machining speed	Optimize surface quality
Advantages	Higher productivity	Reduces need for post-polishing
Drawbacks	Heat buildup risks material damage	Slower machining speeds
Application Scenarios	Rough machining, mass production	Precision parts, aesthetic components

Chart 2: Cost vs. Longevity

Key Factor	Low-Cost Tools	Long-Lifespan Tools
Initial Cost	Budget-friendly	Higher unit price
Long-Term Cost	Frequent replacements and downtime	Lower total cost of ownership
Efficiency Impact	Reduced precision due to wear	Consistent performance over time
Application Scenarios	Short-term projects, low-intensity tasks	High-precision or continuous production

Chart 3: Quality vs. Price

Key Factor	High-Cost High-Quality Tools	Low-Cost Standard Tools
Direct Benefits	Reduced scrap and rework rates	Lower upfront procurement costs
Hidden Costs	Higher initial investment	Potential waste and secondary processing costs
Added Value	Enhanced brand reputation, extended tool life	Suitable for simple, standardized tasks
Application Scenarios	High-end manufacturing, tight tolerance requirements	General-purpose parts, short-term orders