

# Baucor Expands Its Precision Manufacturing Capabilities with Custom Drill and Reamer Solutions

*Driving efficiency and consistency in modern manufacturing through advanced custom drilling and reaming technologies*

IRVINE, CALIFORNIA, CA, UNITED STATES, March 26, 2026

/EINPresswire.com/ -- Baucor, a global manufacturer of Custom CNC Tools, continues to advance its capabilities in [Custom Drill Bits](#) and Custom Reamers, supporting manufacturers that require tighter tolerances, longer tool life, and more predictable machining performance.

Rather than relying on standard tooling, Baucor focuses on application-specific solutions-helping companies reduce cycle times, improve surface quality, and maintain consistency across production runs in industries such as aerospace, medical manufacturing, and automotive engineering.



Custom Cnc Tools

## Why Custom Tooling Matters in Modern Manufacturing

In high-precision environments, standard tools often introduce trade-offs. A tool optimized for speed may compromise surface finish, while a tool built for durability may limit productivity.

Baucor addresses these challenges through its Drill Bit Design Services and Reamer Design Services, where each tool is engineered based on:

- Material properties (e.g., titanium, Inconel, hardened steels)
- Cutting conditions and spindle parameters
- Required tolerances and surface finish specifications

This engineering-first approach enables manufacturers to run more stable and efficient processes with fewer adjustments on the shop floor.

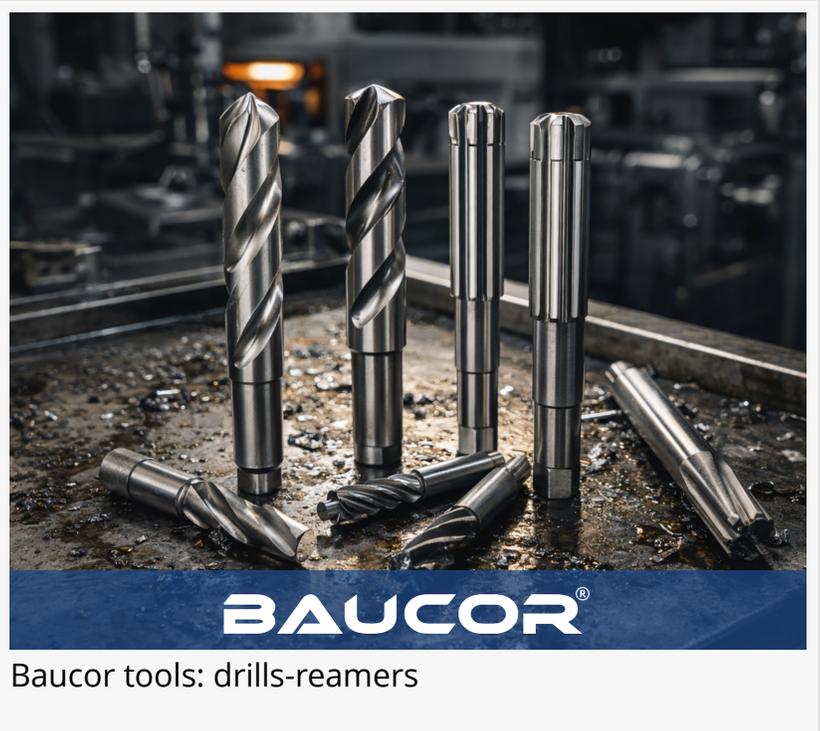
## Engineering That Directly Impacts Performance

Every stage of Drill Fabrication and Reamer Fabrication is optimized for real production conditions.

For example:

- Custom geometries improve chip evacuation, reducing heat buildup
- Optimized cutting edges minimize tool deflection
- Coating selection directly improves wear resistance and tool life

Baucor's High-Performance Drills and High-Speed Drills are designed to maintain stability in demanding CNC environments, while Precision Reaming Tools ensure micron-level accuracy where required.



Baucor tools: drills-reamers

“In precision machining, the difference is rarely the machine—it’s the tool. When a tool is engineered specifically for the application, you eliminate variability, stabilize the process, and unlock measurable gains in both speed and consistency. That’s where custom tooling makes a real impact.”

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In precision machining, the real difference lies in the tool, not the machine. Application-specific tooling reduces variability, stabilizes processes, and improves both speed and consistency.”

*Ed Braun, Chief Technical Officer*

Ed Braun, Chief Technical Officer, Baucor

### Advanced Materials and Coating Technologies

Material selection and coating technology play a critical role in machining performance.

Baucor's Carbide Drill Bits and Carbide Reamers are manufactured using sub-micrograin carbide, providing the strength required for high-speed and high-load

operations.

To further enhance durability and performance, Baucor offers advanced Tool Coating Options, including:

- AlTiN for high-temperature resistance
- TiCN for reduced friction and improved wear resistance
- Diamond-Like Carbon (DLC) for abrasive and non-ferrous applications

These coatings extend tool life, reduce wear, and maintain consistent cutting performance over

extended production cycles.

## Custom Drill Solutions for Diverse Applications

Baucor's drilling portfolio includes:

- Twist Drills – Optimized for accuracy and repeatability across materials
- Step Drills – Enable multi-step operations in a single pass, reducing tool changes
- Specialty Drill Bits – Designed for complex geometries and non-standard applications

Each solution is engineered to match the application, ensuring optimal performance rather than forcing standard tools into specialized use cases.

## Precision Reaming for Final Accuracy

Drilling creates the hole, but reaming defines its final precision.

Baucor's Custom Reamers are developed for applications where dimensional accuracy and surface finish are critical.

The portfolio includes:

- [Machine Reamers](#) and Carbide Reamers for high-volume CNC production
- Adjustable Reamers for flexible sizing
- Hand Reamers for manual finishing and maintenance operations

This range allows manufacturers to maintain consistent hole quality across different production scales.

## Quick Selection Guide: How to Choose the Right Reamer

For High-Volume CNC Production: Choose Carbide Reamers for superior thermal stability and extended tool life.

For Adjustable Sizing Needs: Use Adjustable Reamers to compensate for wear and achieve



Custom drill and reamer by Baucor



Custom CNC tools and industrial blades by Baucor

precise diameter control.

For Tough Materials (Stainless Steel, Titanium): Opt for Cobalt (HSS-E) Reamers to reduce edge chipping and improve durability.

For High Surface Finish Requirements: Select Precision Ground Reamers designed to meet strict Ra specifications.

#### Engineering Note

In precision reaming applications, achieving consistent surface finish (Ra) requirements and tight tolerances such as H7 depends heavily on tool geometry and material selection.

Baucor's reamers are engineered with optimized chip evacuation geometry and manufactured using sub-micrograin carbide to ensure stability, extended tool life, and effective heat-affected zone (HAZ) reduction during high-performance machining.



Precision Cnc tools by Baucor

#### Beyond Drills and Reamers: A Complete Tooling Partner

Baucor's expertise extends beyond hole-making operations.

The company also provides:

- Precision Threading Tools, supported by Tap Design Services and Tap Manufacturing
- Advanced capabilities in Milling Tool Manufacturing
- High-performance [Industrial Knives](#) for cutting and converting applications

By covering multiple tooling categories, Baucor enables customers to simplify their supply chain while maintaining consistent quality and engineering standards.

#### Measured Impact: Speed, Stability, and Efficiency

Baucor's on demand production model allows manufacturers to quickly implement optimized tooling solutions.

Customers typically report:

- Up to 20–30% faster machining cycles
- Reduced tool wear and fewer unplanned stoppages
- Improved process stability and repeatability

These gains are driven by application-specific tool design—not just machine capability.

#### Design Your Tool

Baucor empowers manufacturers to design fully customized tooling solutions tailored to their exact machining requirements. With expert engineering support and on-demand production, customers can quickly move from concept to high-performance tools optimized for precision, durability, and efficiency.

#### About Baucor

Headquartered in Irvine, California, with major operations in Mannheim, Germany, Baucor specializes in Drill Bit Manufacturing, Reamer Manufacturing, and Milling Tool Manufacturing. Founded by Frank Guney, the company delivers application-specific tooling solutions through advanced engineering and on-demand production. Baucor supports global manufacturers with reliable, high-performance tools designed to improve efficiency, accuracy, and production outcomes.

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