

Carbide End Mill Blank Specification Checklist

Use this checklist to prepare an unfinished solid or coolant-hole blank request for end mills, drills, reamers, and rotary tools.

Version 1.0 | Reviewed August 15, 2026

Engineering review required

This checklist organizes the request. It does not calculate a grade, confirm capability or inventory, set price, or promise delivery.

1. Finished tool and buyer context

Field	Specification or notes
Company and contact	Company: _____ Name: _____ Email/phone: _____
Tool type	☐ End mill ☐ Drill ☐ Reamer ☐ Rotary tool ☐ Other: _____
Finished tool diameter	Value and units: _____ Functional tolerance: _____
Work material	Material/alloy being cut: _____
Cutting conditions	Speed, engagement, interrupted cut, coolant, heat, chip evacuation, or other context: _____
Coating plan	☐ Known coating: _____ ☐ Uncoated ☐ Open for review

2. Blank dimensions and delivery condition

Field	Specification or notes
Requested blank diameter	Starting diameter, units, and tolerance: _____
Requested blank length	Length, units, cut tolerance, and usable length: _____
Straightness	Maximum deviation and inspection basis: _____
Finish	☐ Unground ☐ Ground Surface finish and inspection note: _____
Grind allowance	Starting size versus finished size: _____
End condition	☐ As-cut ☐ Chamfered ☐ Center feature ☐ Drawing-defined: _____

3. Solid or coolant-hole construction

Field	Specification or notes
Configuration	☐ Solid ☐ Straight coolant hole(s) ☐ Helical coolant holes ☐ Custom
Hole details	Count: _____ Diameter: _____ PCD/location: _____ Helix angle: _____ Units: _____
Hole relationship	Describe outlet, indexing, finished flute relationship, or drawing callout: _____

4. Grade and application review

Field	Specification or notes
Named or current grade	Grade/specification: _____ Data sheet attached? ☐ Yes ☐ No
Grade alternates	☐ Exact grade required ☐ Approved equivalent permitted ☐ Open for application review
Application limits	Edge geometry, coating, grinding risk, shock, corrosion, temperature, or other limits: _____
Current failure mode	☐ Wear ☐ Chipping ☐ Breakage ☐ Runout ☐ Other: _____

5. Commercial, quality, and timing details

Field	Specification or notes
Quantity	Prototype: _____ Production: _____ Forecast or repeat timing: _____
Requested due date	Date: _____ Is a partial shipment useful? ☐ Yes ☐ No
Documentation	☐ Material cert ☐ Inspection report ☐ Certificate of conformance ☐ Traceability ☐ Other: _____
Drawing and revision	Drawing number: _____ Revision: _____ File attached? ☐ Yes ☐ No
Other notes	_____ _____

Before sending

- ☐ Starting and finished dimensions are identified separately.
- ☐ Coolant-hole geometry matches the finished-tool drawing.
- ☐ Grade requirements and permitted alternates are clear.
- ☐ Tolerance, finish, inspection, quantity, documentation, and timing are included.

Submit: <https://extramet.net/rfq/> | Product page: <https://extramet.net/products/cutting-tool-blanks/> | Weight tool: <https://extramet.net/tungsten-carbide-density-and-weight-calculator/>

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