CNCTAL CNC Machining CAD Checklist

Prepare Complete Information for Faster and More Accurate CNC Quotes

This checklist helps engineers prepare CAD files, technical drawings and project information before requesting a CNC machining quotation.

Complete information allows CNCTAL to review your project faster, recommend suitable manufacturing methods and provide more accurate pricing.

Provided by CNCTAL
Precision CNC Machining From Prototype to Production

1. CAD File Requirements

Recommended CAD Formats

■ STEP (.step / .stp)

■ IGES (.igs / .iges)

■ Parasolid (.x_t)

■ SolidWorks (.sldprt)

■ DXF / DWG for 2D profiles

Before Submission Check

■ Correct final design version

■ All features are included

■ Assembly files include related components

■ No missing references or external links

■ Units are clearly defined (mm or inch)

Recommended Practice

STEP format is preferred because it is compatible with most CAD systems and allows faster engineering review.

2. Technical Drawing Requirements

Drawing Information

■ Part number and revision

■ Overall dimensions

■ Critical dimensions

■ General tolerances

■ Datum references

Manufacturing Details

■ Thread specifications

■ Hole sizes and depths

■ Surface finish requirements

■ Heat treatment requirements

■ Special inspection requirements

Important Note

Missing tolerance information may affect quotation accuracy and manufacturing planning.

3. Material and Production Requirements

Material Information

■ Aluminum (6061-T6 / 7075-T6)

■ Stainless Steel (304 / 316)

■ Steel (1018 / 4140)

■ Engineering Plastics (POM / PEEK / Nylon)

Production Information

■ Prototype quantity

■ Production quantity

■ Target delivery date

■ Surface finishing requirements

■ Packaging requirements

■ Shipping destination

4. Final RFQ Submission Checklist

Before Sending Your CNC Machining Request

■ 3D CAD model attached

■ 2D drawing attached

■ Material specified

■ Quantity confirmed

■ Surface finish defined

■ Delivery requirements provided

Complete Information Helps CNCTAL Provide

✓ Faster quotation response

✓ Better manufacturing recommendations

✓ More accurate pricing

✓ Reduced communication delays

Contact

Upload your CAD files and drawings to start your CNC machining project review.