

Drawing Checklist for Metallic Parts

This comprehensive checklist serves as a quality control tool for reviewing technical drawings of metallic parts before release. It ensures that all necessary information is included and properly documented, reducing the likelihood of manufacturing errors and revision cycles.

The checklist is organised into five main sections covering general drawing information, dimensions and tolerances, views and sections, material specifications, and final verification steps. Each item should be carefully reviewed and checked off to maintain consistent drawing standards and manufacturing requirements.

Remember to consult with the respective manufacturing team for any specific requirements they may have for their processes.

General Drawing Information

- Drawing number and revision clearly indicated
- Part description appropriate
- Designer name and date included
- Sheet size and drawing scale suitable for part complexity

Dimensions and Tolerances

- All critical dimensions included
- A clear and functional datum structure has been applied to enable inspection
- Geometric and dimensional tolerances specified where needed
- Part features comply with relevant standards (BS/ISO/ASME) and are checked against mating parts
- Surface finish requirements indicated
- No redundant or conflicting dimensions

Views and Sections

- All views up to date with latest 3D geometry
- Sufficient views to fully define the part
- Section views properly labeled and hatched
- View orientation follows standard conventions (3rd angle protection)
- Hidden lines used appropriately
- Detail views included for complex features

Material, Processes and Notes

- Material specification clearly stated
- Heat treatment requirements defined (if applicable)
- Surface treatment/coating specifications
- Relevant engineering standards are correctly defined and referenced
- Edge break/chamfer requirements specified
- All processing notes have been added, including but not limited to: part marking or labelling, packing, protection and part mass.

Final Checks

- All text is legible and appropriately sized
- Peer review completed

