

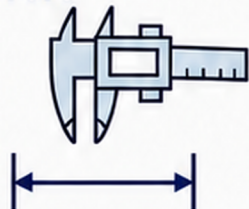
CHECKPOINTS TO AVOID MISTAKES IN MATERIAL CUTTING

Check Before Cutting to Prevent Rework

MATERIAL CUTTING SUCCESS STARTS "BEFORE YOU CUT"

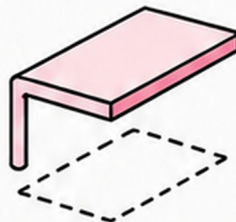
1 Avoid Dimension Errors

- Check the drawing dimensions carefully
- Watch for **misread numbers** and **incorrect mm entries**



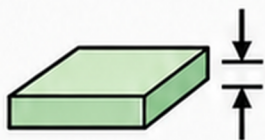
7 Check Developed Length for Bent Parts

- Cutting the outside dimension as-is may cause a **poor fit**
- Check bend R, plate thickness, and number of bends



2 Calculate with Plate Thickness in Mind

- Check inside and outside dimensions
- **Ignoring plate thickness** can cause a **poor fit**



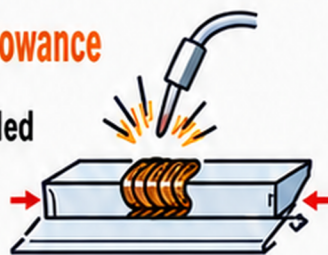
8 Set the Reference Face, Front/Back, and Orientation

- Take special care with **hole positions**, **notches**, and **bend direction**



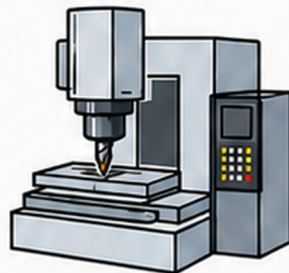
3 Check Shrinkage Allowance

- Material shrinks when welded
- Take special care with **long parts**



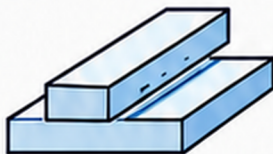
9 Allow for Finishing

- Leave a **finishing allowance** on parts requiring later machining
- Do not cut **exactly to the final dimension**



4 Cut Long Parts First

- **Long stock** may not be available later
- Short parts can often be cut from offcuts



10 Mark Part Numbers After Cutting

- Write the part number, dimensions, and quantity to **prevent mix-ups**

PART NO.
DIMENSIONS
QUANTITY



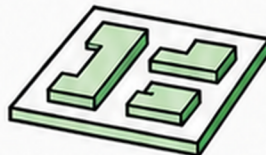
5 Check Material, Thickness, and Quantity First

- Even with correct dimensions, the wrong material, thickness, or quantity **means rework**



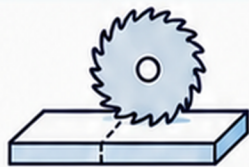
11 Check Whether Offcuts Can Be Used

- Check whether short parts can be cut from offcuts
- **Reduce** material loss



6 Account for Kerf and Blade Thickness

- Cutting creates a **kerf**
- Do not cut with **no margin**



12 Final Check Before Cutting

- | | | |
|-------------------------------------|------------------------------------|--|
| ☐ Dimensions | ☐ Quantity | ☐ Material |
| ☐ Thickness | ☐ Shrinkage | ☐ Cutting allowance |



★ Mistakes in the initial checks lead to material loss, dimensional defects, and rework.
Do not rush. Always check before cutting.