



Fundamentals of Industrial Measurement Technology

Mounting



ProDSP Post Series Nr.23



What is mounting for?

Mounting ensures the **precise positioning** of the inspected object, the camera, and the illumination.





Why is it important?

- Measurement **repeatability** is fundamentally determined by mechanical **stability**
- The effects of **non-uniform illumination** can be **minimized**
- The object is placed in the **exact same position in every cycle**





The issue of angular errors

- Rotation that is not perpendicular to the lens axis **distorts** the image
- This causes **direct measurement** error → it must be minimized
- Angular error along the direction of the lens axis can be **corrected in software**, but every additional algorithm introduces a **new error component** into the system





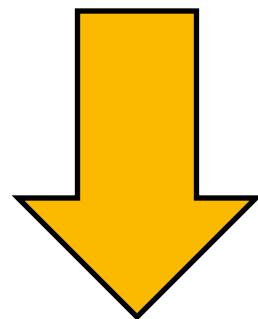
Summary

- Good fixturing is **not optional** – it **ensures** that the measurement produces the same results **day after day**, cycle after cycle.





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