

Training

Workholding Tips

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Workholding includes any device used to grip and present a workpiece to a cutting tool on a machine tool. To provide an understanding of workholding as a fundamental issue in the machining process, this short video, part of the Fundamental Manufacturing Processes Video Series, examines the principles of workholding.

Video Highlights

- Workholding should allow as many operations as possible to be done in a single clamping.
- When the workpiece is moved, the location of the workpiece in relation to the machine tool is lost which compromises the accuracy of the part.
- The time to set up a part for machining due to reclamping is non-value-added time, adding costs and waste to an operation.
- Workholding must grip the workpiece strongly enough to prevent deflecting from the cutting forces of machining.