

## DualBeam TEM Sample Prep Workflow

Let our 30+ years of sample preparation innovation accelerate your TEM research

A DualBeam instrument with AutoTEM Software automates sample prep, making formerly manual, error-prone procedures much faster and reproducible, resulting in more accurate results.

### Increase your research capacity

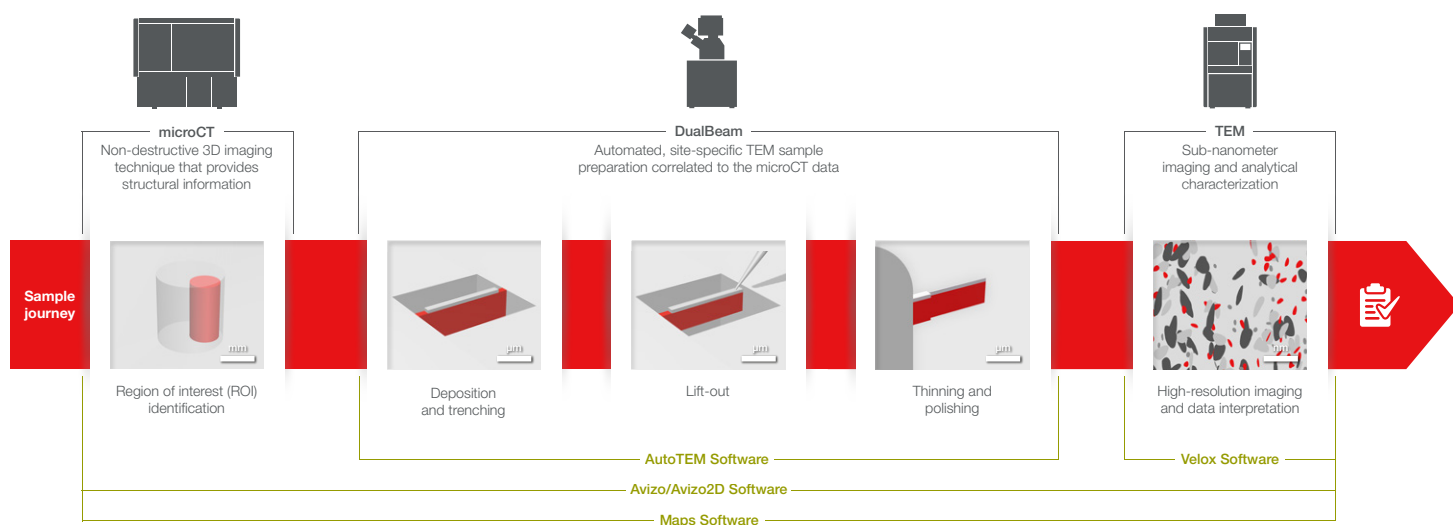
TEM sample prep is part of a multi-scale, multi-modal workflow that includes microCT, plasma-focused ion beam (PFIB) DualBeam, and (S)TEM. Data is acquired by microCT, followed by reconstruction and analysis using Thermo Scientific™ Avizo™ Software. Data is visualized for precise location of suitable regions of interest (ROI) for further exploration. Higher-resolution imaging and sample prep with a PFIB is followed by atomic-scale analysis in a transmission electron microscope (TEM). When combined, these technologies provide a complete understanding of sample structure and composition, accelerating development of novel materials.

### Save time and increase sample quality

The DualBeam TEM Sample Prep Workflow automates the most time-consuming and error-prone steps. Our novel workflow combines DualBeam™ instruments with Thermo Scientific AutoTEM™ Software to enable fully automated, unattended, *in situ* lamella preparation and lift-out. Using this workflow, even novice users can reliably and repeatedly produce quality samples in 45 minutes instead of hours or days.

### More time for more innovations

Our DualBeam TEM Sample Prep Workflow enables full automation, allowing unattended sample preparation. As a result, you don't need to spend as much time behind a microscope; you can spend more time on more useful endeavors, like true innovations, analysis, and being more productive.



TEM sample prep workflow.

Learn more at [thermofisher.com/tem-sample-preparation](https://thermofisher.com/tem-sample-preparation)

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