

## 17. Automatic Brazing Setup

### Purpose:

- Automatic brazing setup to explore the effect of surface modifications on the joint strength of brazed tubes and plates.
- Oxy-propylene torch mounted on a numerically controlled XYZ stage.
- Samples can be mounted on precise 3-axis stages.
- Shielded test section allows for imaging of braze flow. Custom sample holders accommodate tubes (upto 1/2" diameter) and plates.

### Specifications:

- Imaging: Pentax K-50, FLIR A655sc (IR).
- XYZ stage: Zaber motion control.
- Brazing torch: Oxy-propylene torch with flashback arrestors. Interchangeable torch tips.

