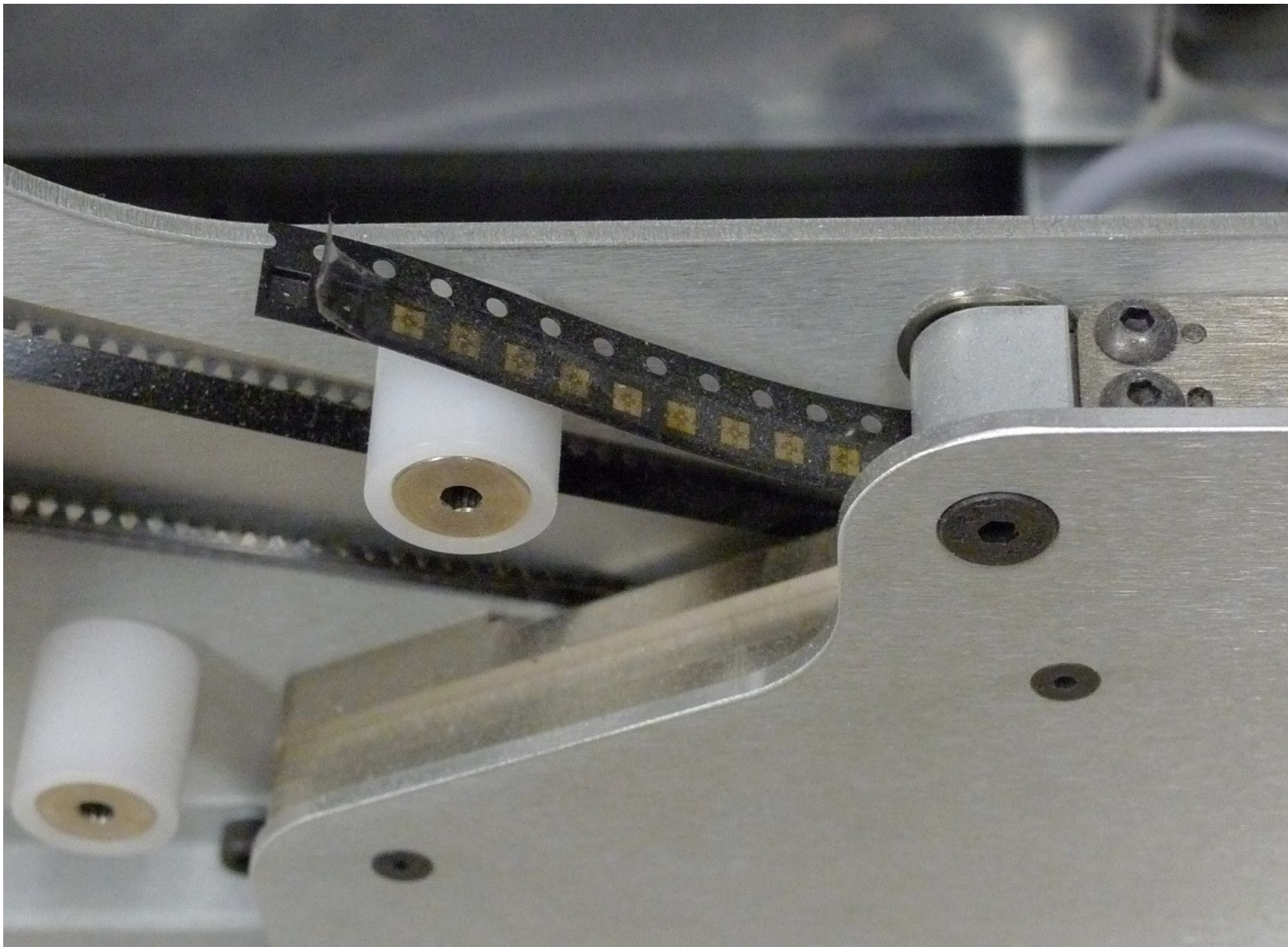
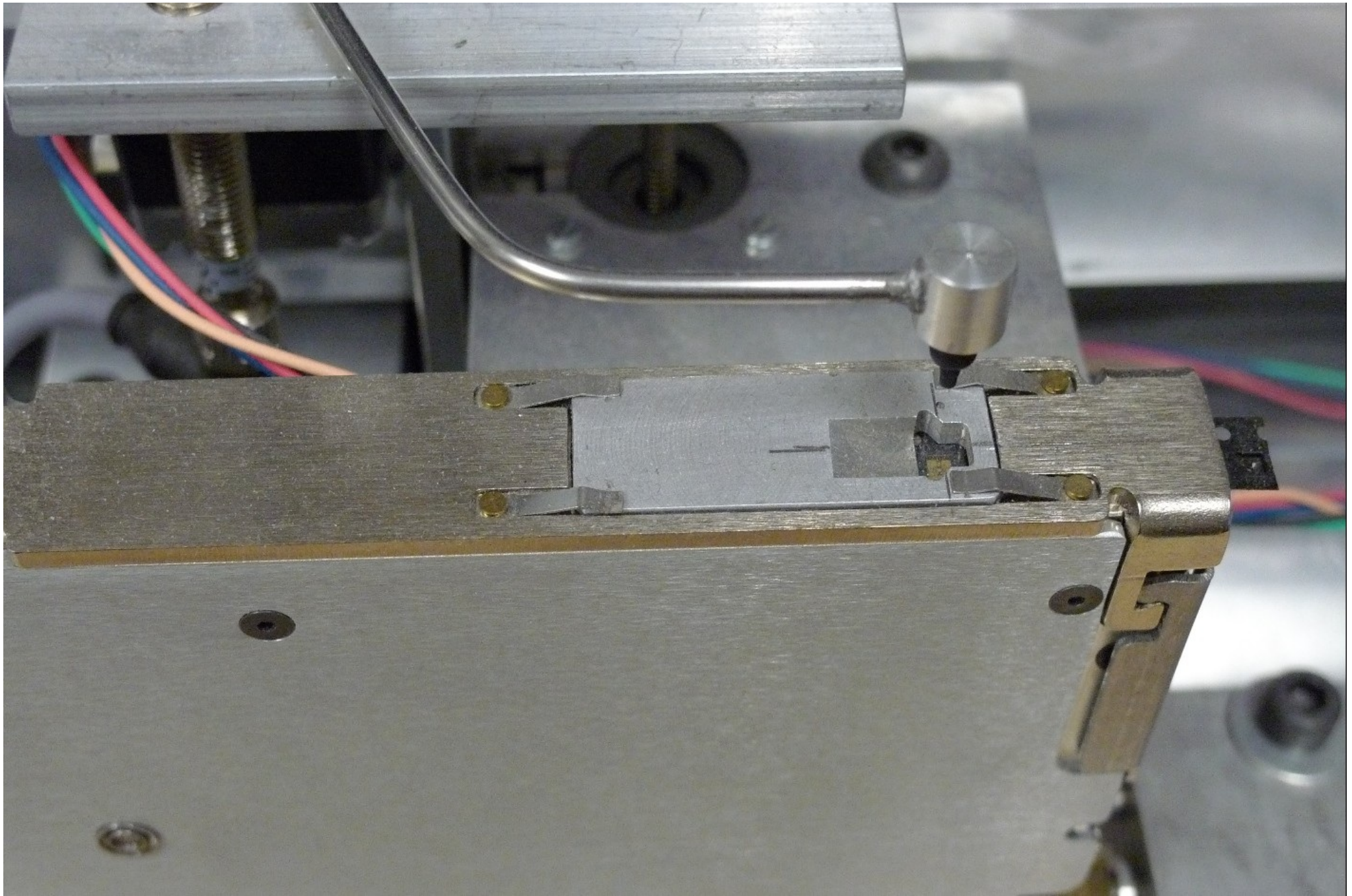
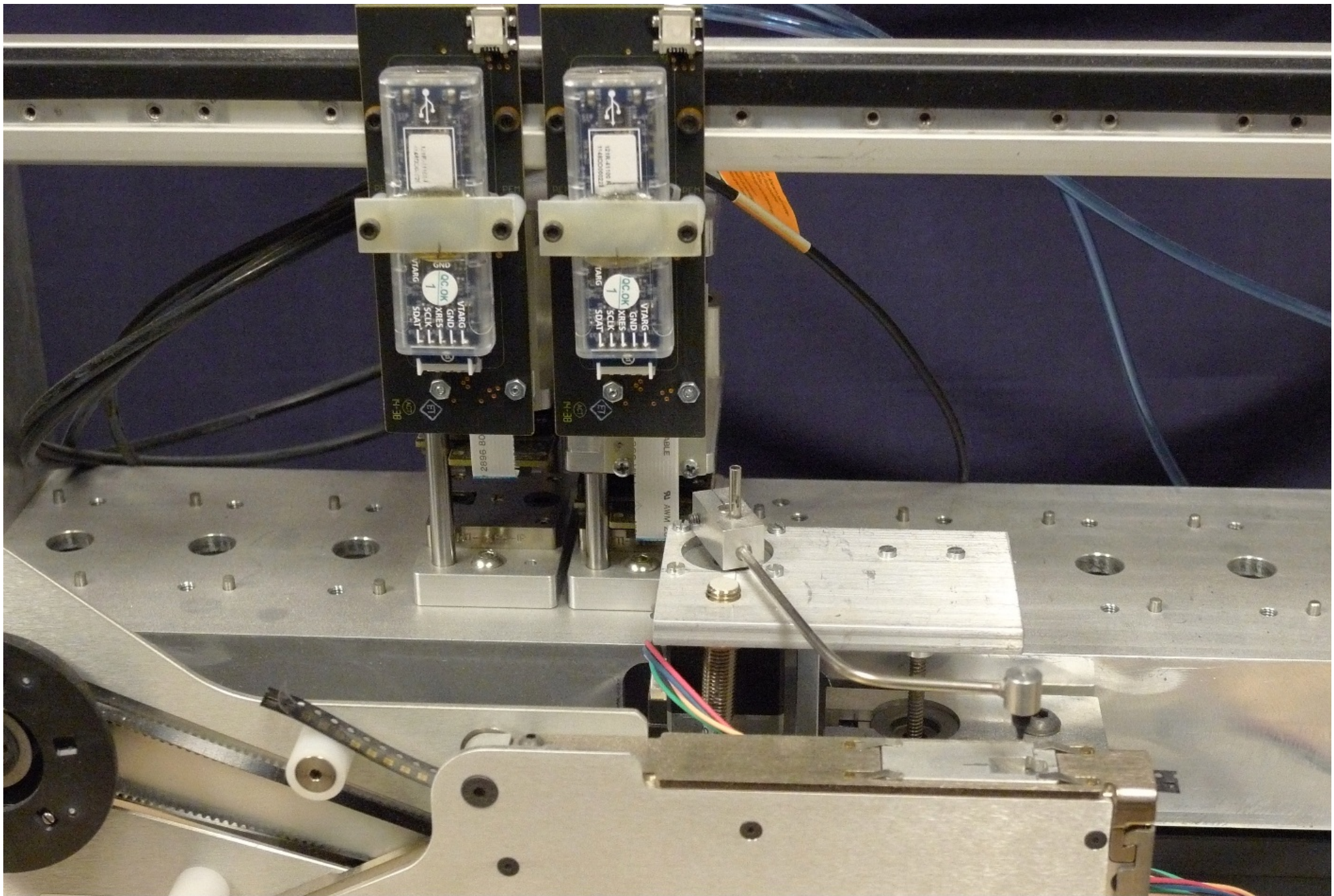


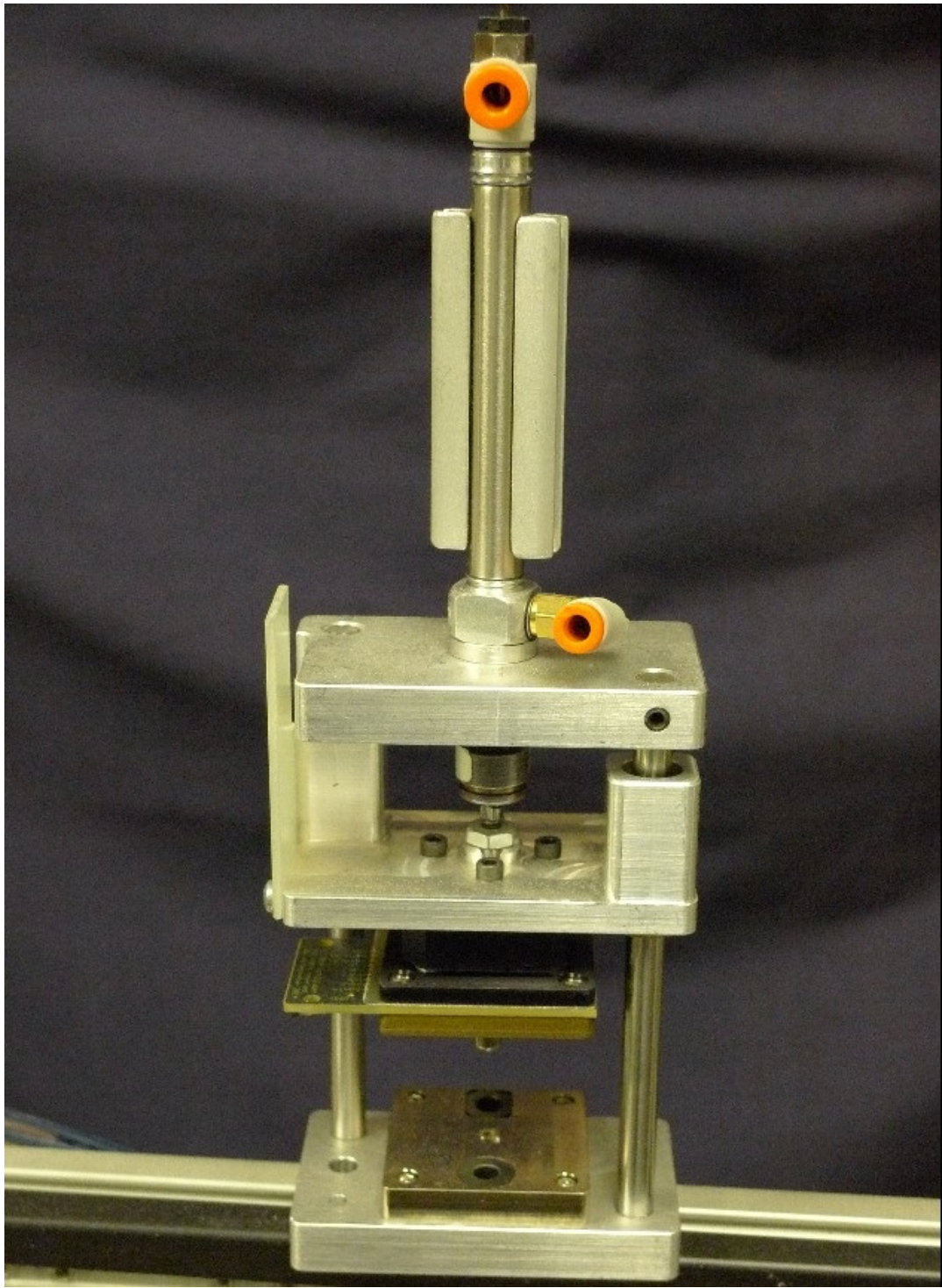
**Figure 1**

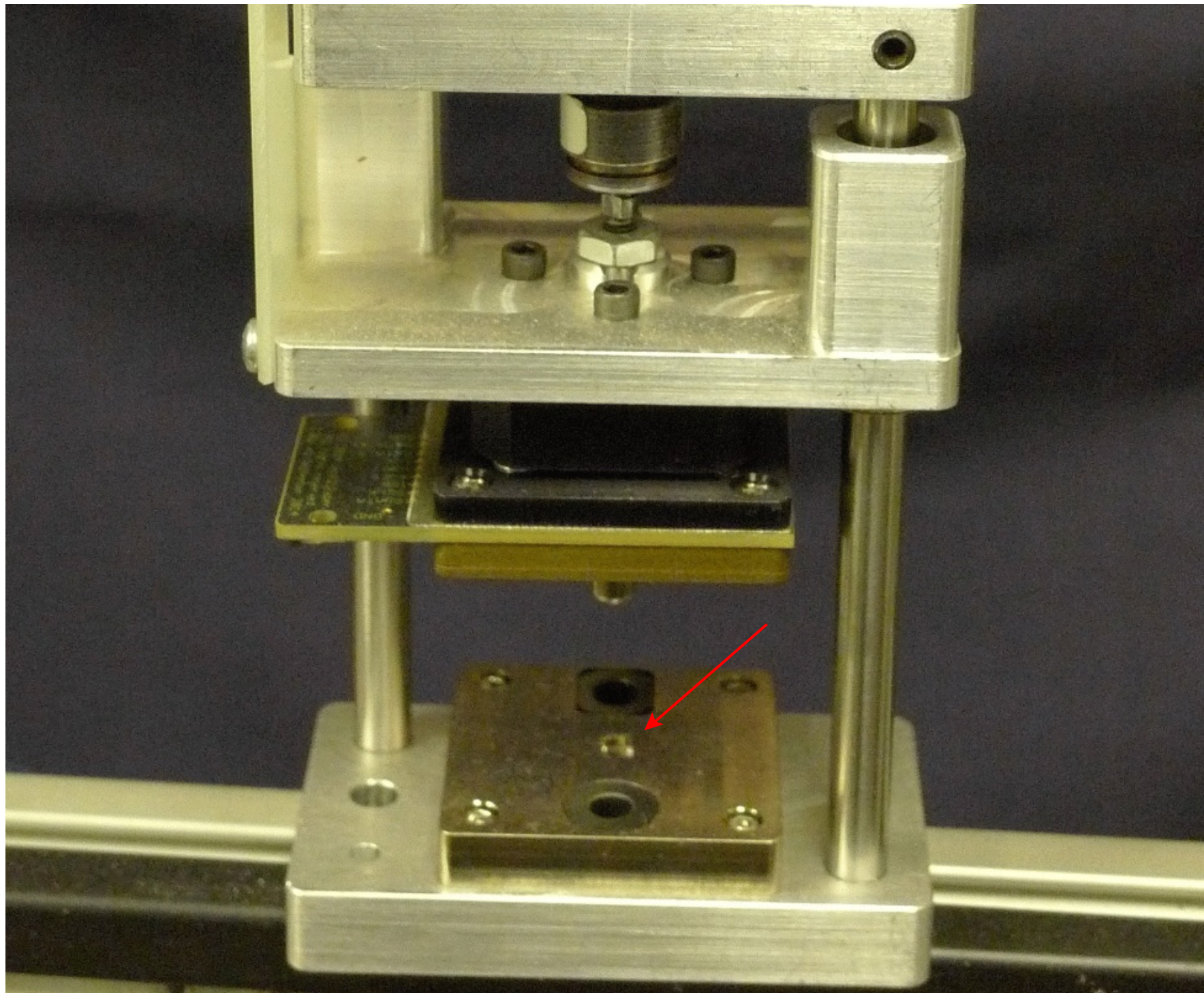
Automated die tester











## Project Tasks

- Design and implement automation routines
  - control pneumatic valves for vacuum and pressure
  - control stepper motors
- Test picking up and placing die in the test fixture
- Design a mechanism to remove tested die and place in storage container
- Test removing die from the fixture and placing them in a storage container

## Microphone Amplifier

Design a high quality microphone amplifier, powered by what is known as phantom powering (meaning that power is supplied over the same wires used to connect the audio output to other equipment) for a DPA-4060 miniature professional microphone. The microphone has an unbalanced output that would connect to the amplifier input while the amplifier would produce a balanced output capable of driving a cable 300 feet or more in length,

A key feature is high quality, i.e. low distortion, audio design.

This is an EE project.

Funding available to construct a prototype.