

# Q2 Report - Robotic Collaboration for Particulate Free SRF Assembly

## • Progress

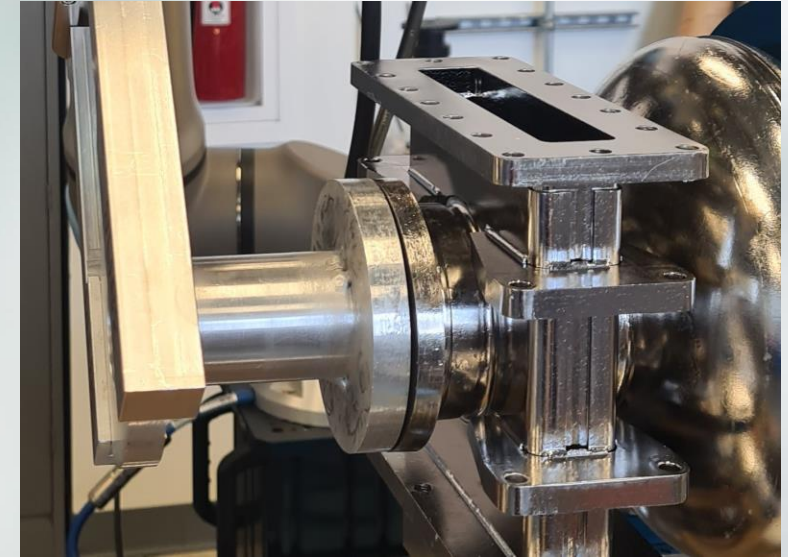
- improved on positioning accuracy
- improved vision system handling of reflective surfaces
  - optimization of lightning conditions to improve image quality
- training engineer on robot programming

## • Issues

- low in personnel resources due to CEBAF maintenance work
- used gripping method might not be optimal due to flex nature of inner adapter

## • Next Steps

- start process for cleanroom integration
  - stanchions for robot & assembly table (\$\$\$)
- test a different gripping method, different fingers
- develop process for waveguide-pair installation
- training cleanroom personnel



# Q1 Report - Robotic Collaboration for Particulate Free SRF Assembly

WBS 1.04 Accelerator LDRD Projects  
FY25 Period 06 - March 2025

## Robotic Collaboration for Particle Free SRF Assembly-2 Roger Ruber - LD2504 - WBS 1.04.LD.012.002 FY25 Budget: \$195.0 Loaded K\$

