

## TECHNOLOGY READINESS LEVEL: 6

US PATENT PENDING

A MARKET DELIVERABLE HAS BEEN DEMONSTRATED IN RELEVANT ENVIRONMENTS AND IS IN FINAL DEVELOPMENT

## TECHNOLOGY SUMMARY

Sandia has developed an improved grooving tool for Teflon® or other plastic tubing. Grooving tools are used at the end of a tubing section to provide a better seal with compression fittings for connections to equipment. When used with a compression fitting, grooves can significantly increase the pressure rating of the tube to the fitting seal. Current tools can only be used to make grooves at the ends of tubing, while this new technology can make a groove anywhere along the tubing.

This new tool also allows for easy replacement of the tube grooving blades, an advancement from current grooving tools which do not allow for blade replacement once they become broken or have been exposed to corrosive chemicals.



### POTENTIAL APPLICATIONS

- Industrial Equipment
- Construction
- Waste Management
- Oil & Gas
- Chemicals
- Electric Utility

### TECHNOLOGICAL BENEFITS

- Tool can make a groove anywhere along the tubing for a more secure connection
- Allows for easy replacement of the tube grooving blades
- Improves the pressure rating of tubing with use of compression fitting

### TECHNOLOGY INQUIRY?

For more information or licensing opportunities contact us at

[ip@sandia.gov](mailto:ip@sandia.gov)

Refer to SD # 11011

or visit

<https://ip.sandia.gov>