Technical Specification– Winding Guru.
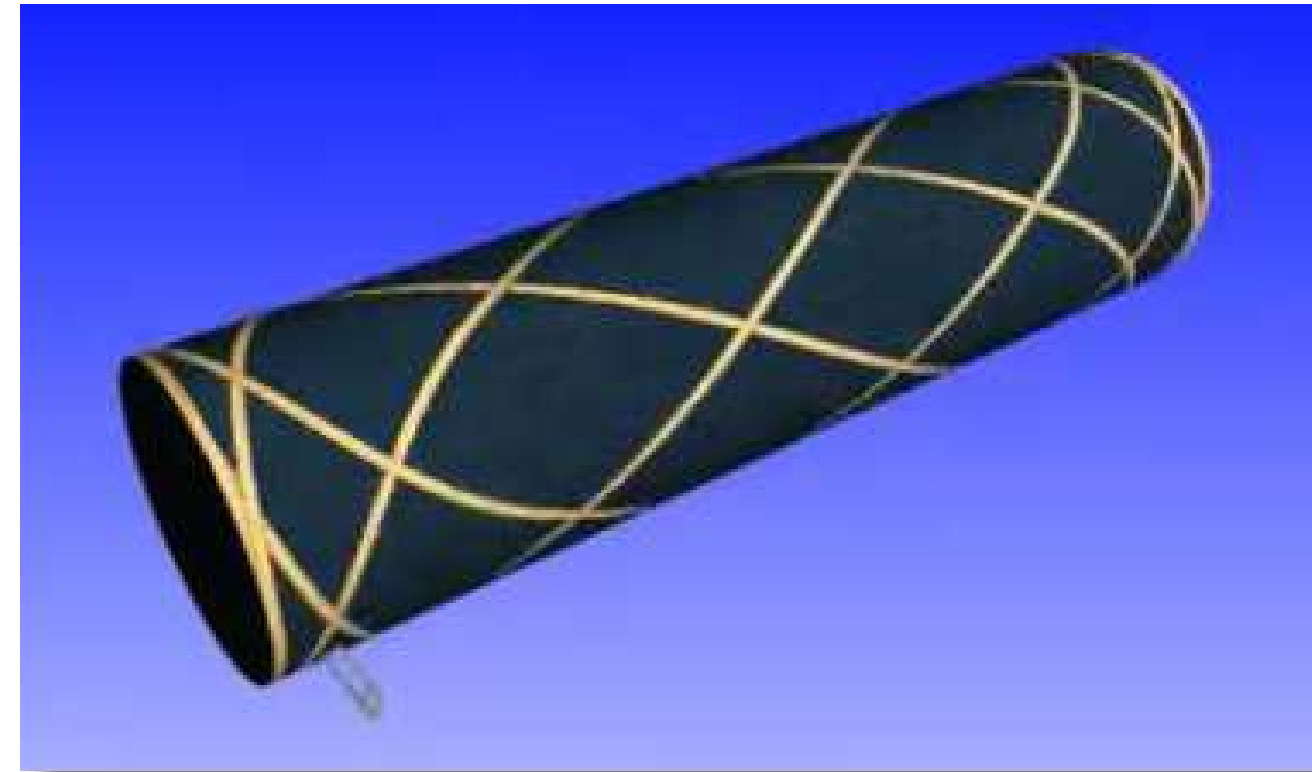
4 Axis Filament Winding Software

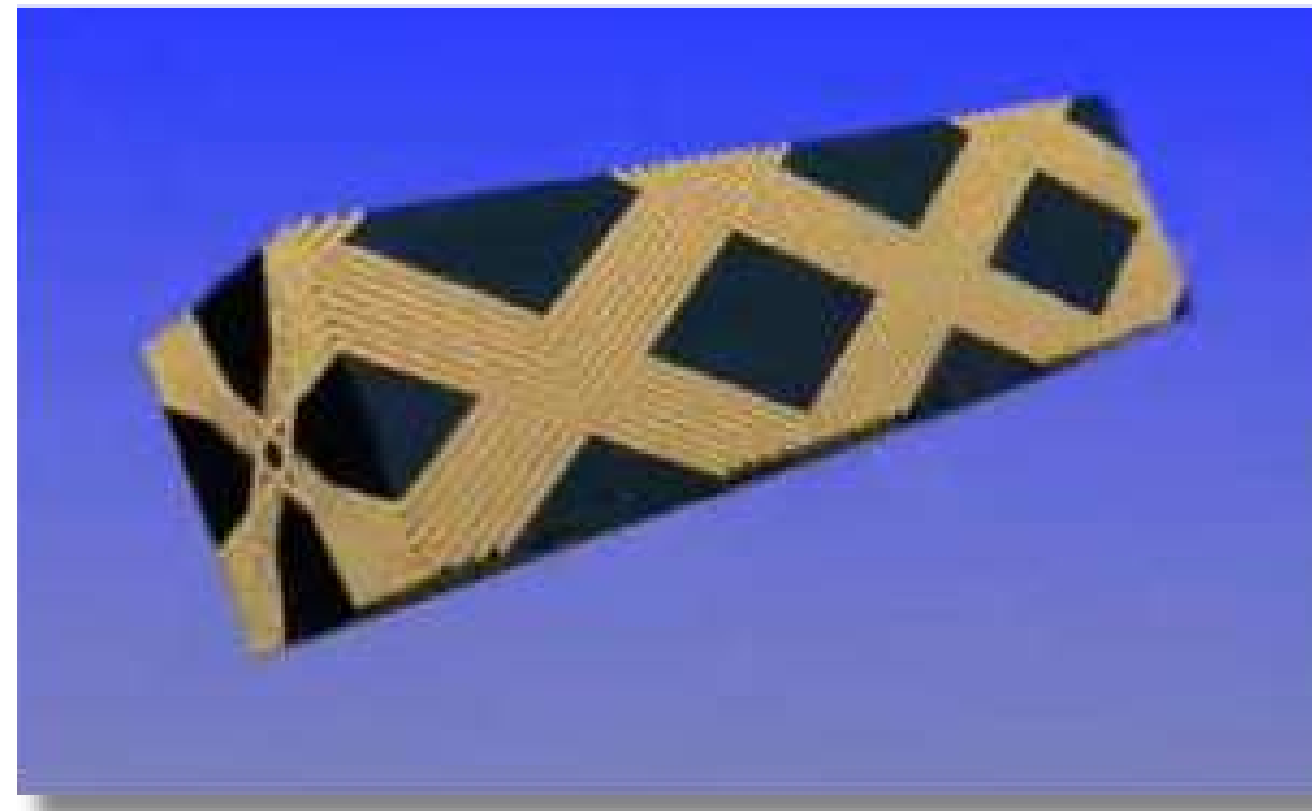**Winding Guru - Features**

Features of Winding Guru Software:

- Helical Winding on cylindrical parts, e.g. pipes, drive shafts
- Hoop winding and multi-stage hoop winding on cylinders parts
- Helical winding on cylinders with dome ends. (Dome, Elliptical, Tori-spherical)
- Mandrel Model Generator (Circular cross section mandrels)
- Winding simulation and pattern calculations –
  - Physical modeling
  - List of all possible winding angles
  - Variable winding angle
  - Friction modeling
- Filament path generation and Feed Eye Path generation
- Output for control system in G-Code format
- G-code optimization for filament winding machine
- **The computer to run the software is not included with the machine.** A copy of the filament winding software and a dongle used to authenticate the system will be provided.

Dome Geometries : Hemisphere, Elliptical, Tori-spherical, Disc

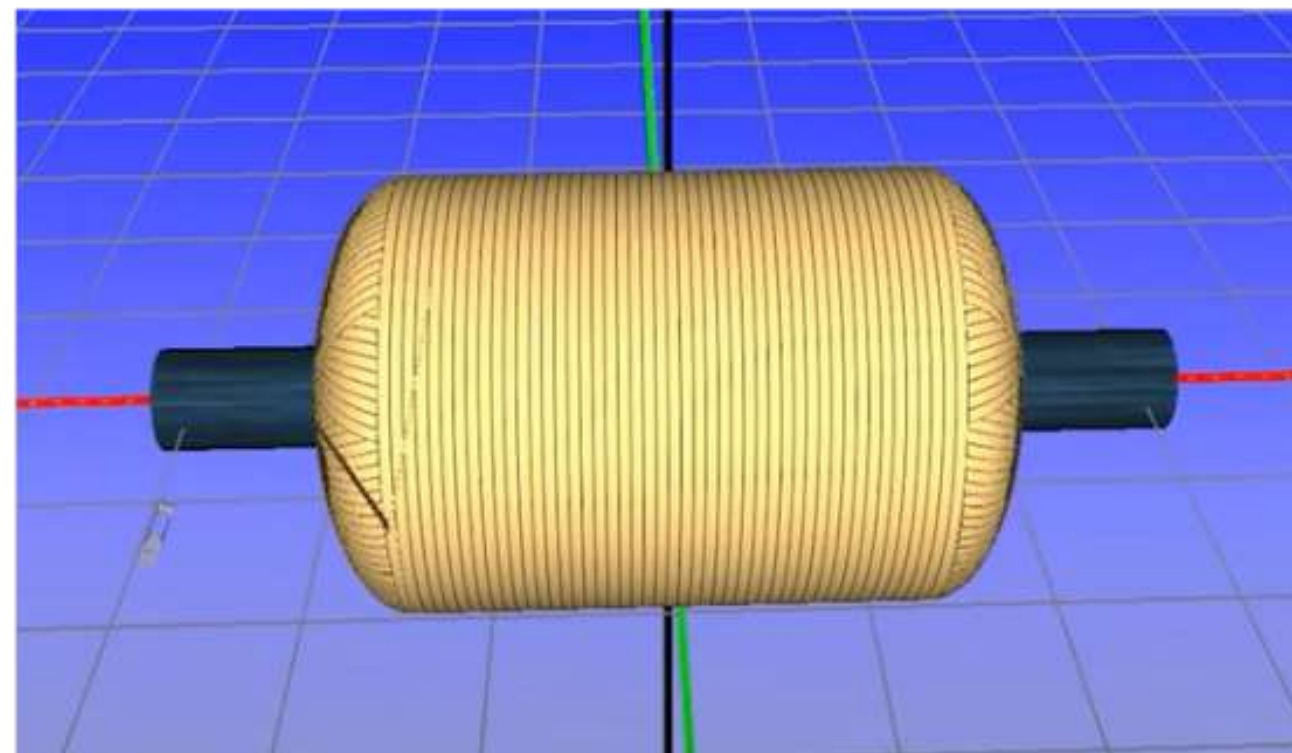**Supported Geometries : Cylinder with Dome.**

Cylindrical Pipes

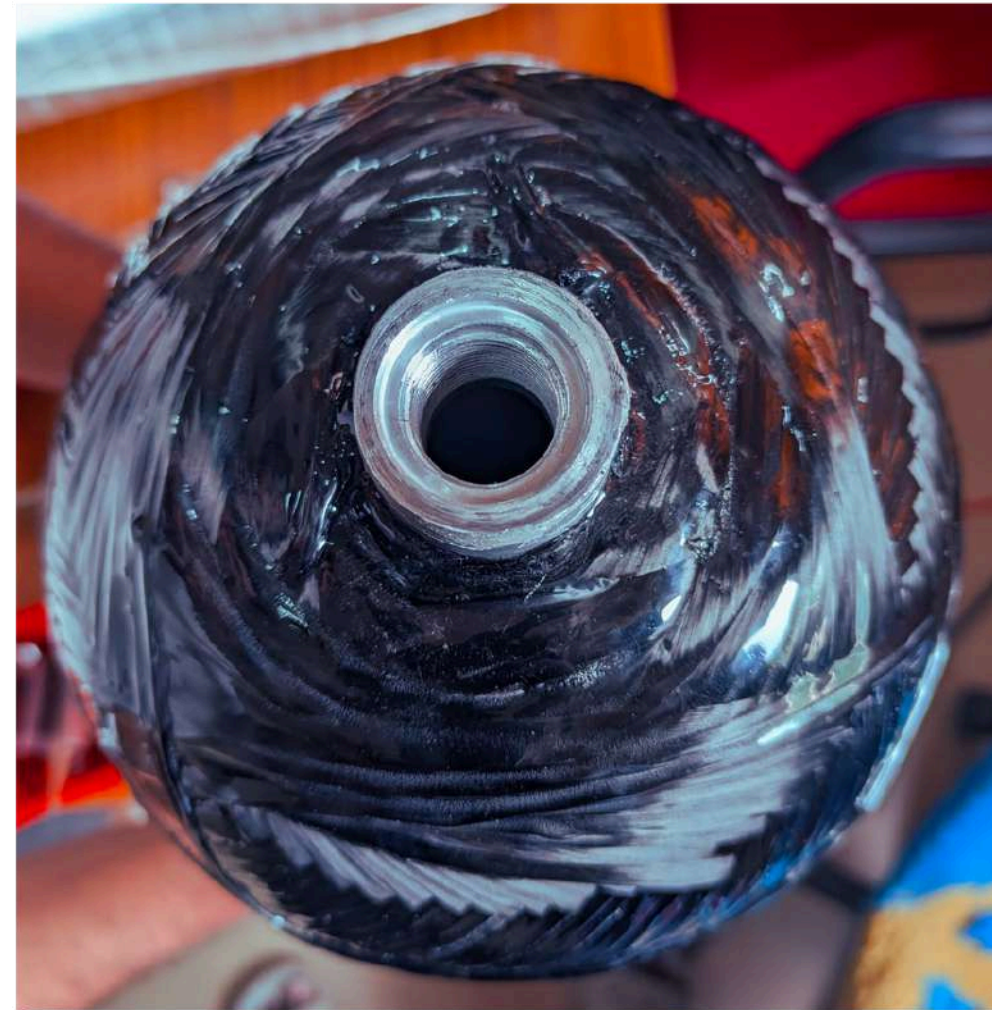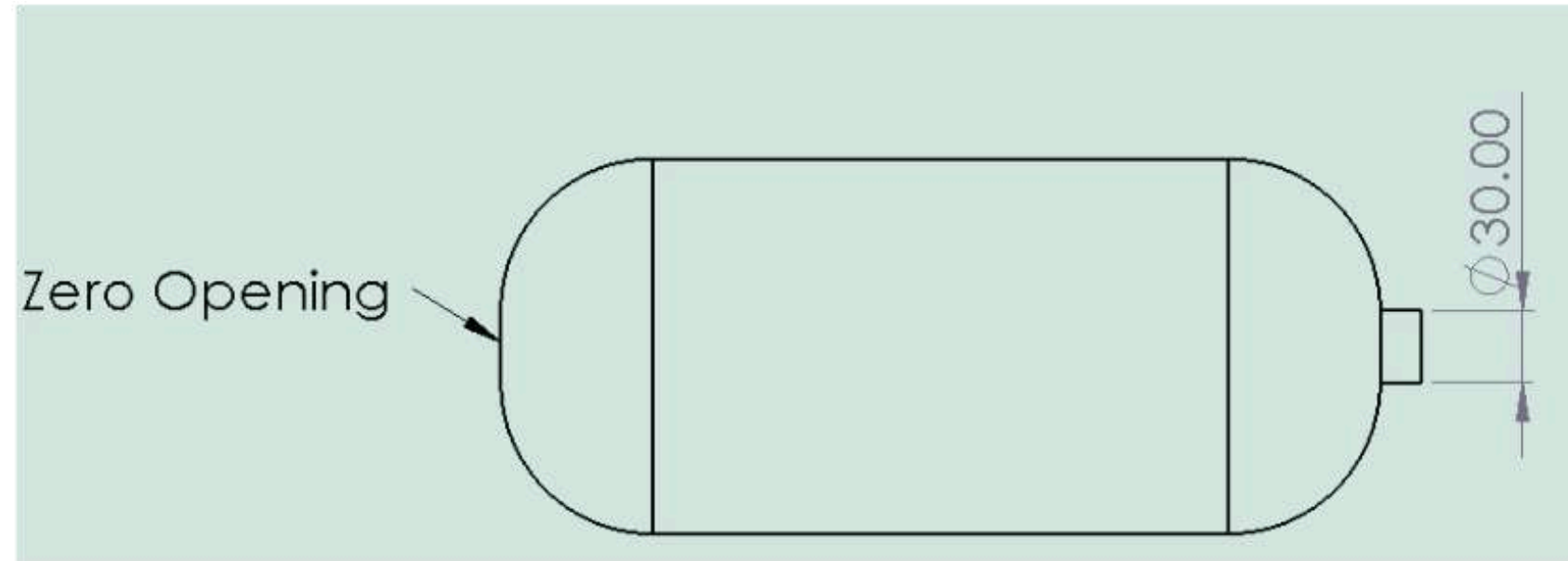
Rectangular Pipes

Equal opening on both sides.

Supported Geometries
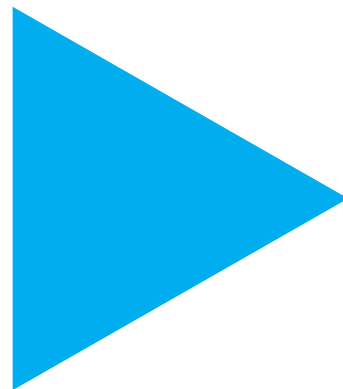
Unequal opening on both sides.

Supported Geometries

Zero Opening

⌀30.00

- **IIT JAMMU, India**
- **CIDETEC, Spain.**
- **DATUM Composites, India.**
- **Shapoorji Pallonji, India**
- **TC Rolls and Covers Spain.**
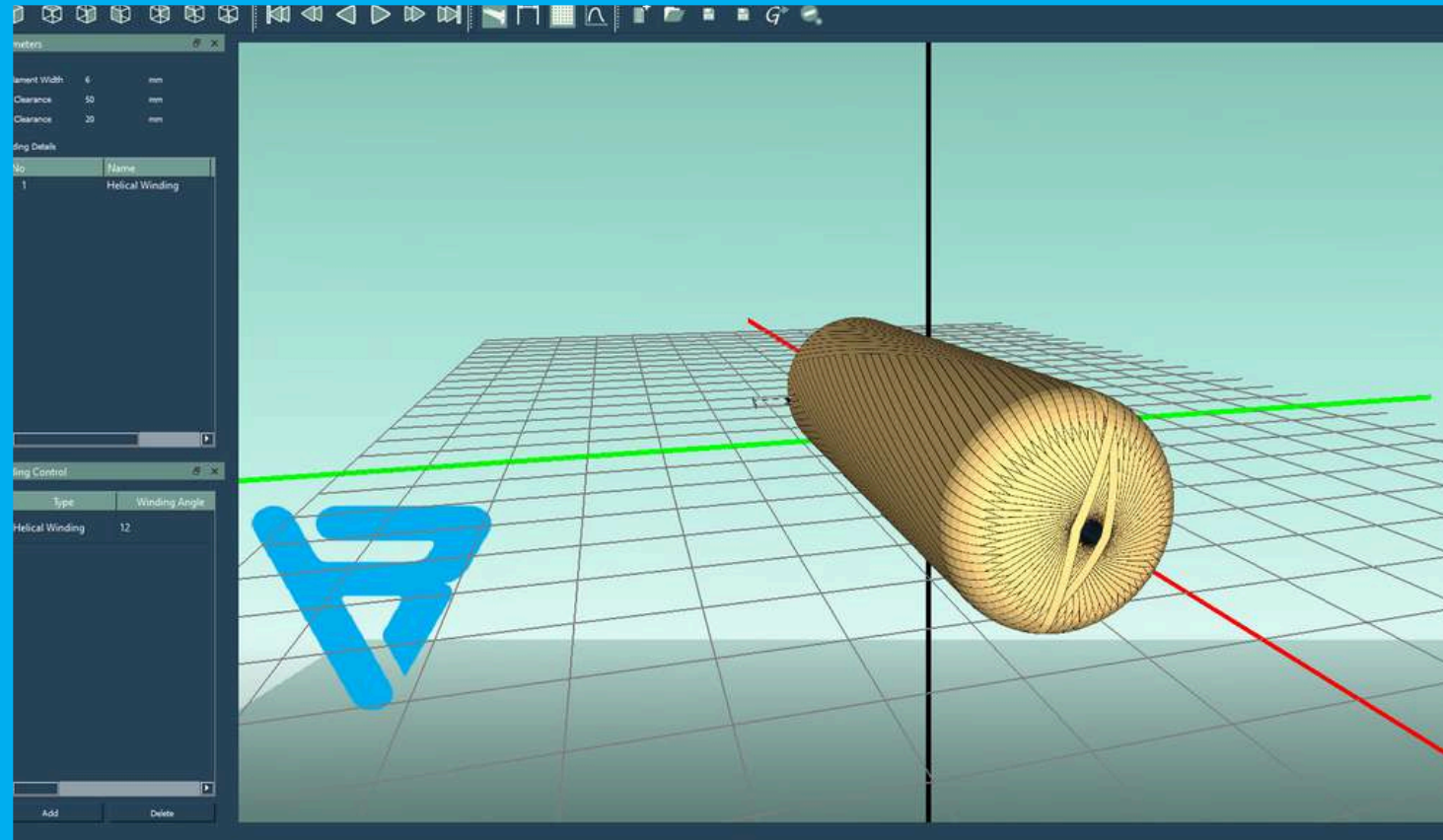
Our Past Installations

Vashishtha Research

- **Click here** for filament winding of Cylindrical tubes.
- **Click here** to see filament winding of **Type IV** pressure vessel.
- **Click here** to see filament winding of **Type III** pressure vessel.

CARBON CHAKRA
&WINDING GURU ▶ Click here

THANK YOU

Vashishtha Research