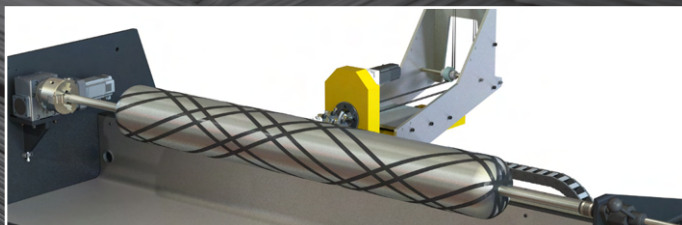




ENGINEERING TECHNOLOGY CORP.

 Toray Group



**GLOBAL
EXPERT IN
FILAMENT
WINDING &
COMPOSITE
SOLUTIONS**

SC+ FILAMENT WINDER

COMPACT MULTI-AXIS FILAMENT WINDER FOR
PRESSURE VESSELS & ADVANCED COMPOSITES

MORE THAN MACHINES

 Toray Group



DESIGNED & MADE IN THE USA

ZOLTEK 
Toray Group



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SC+ Filament Winder

Multi-Axis Winding



- Designed for pressure vessels & COPVs**
 Ideal for bottles, domes, tapered structures, hydrogen storage tanks, compressed gas vessels, and other rotationally symmetric composite parts
- Advanced multi-axis winding**
 Three or four synchronized axes provide accurate fiber placement on complex geometries that require additional motion beyond traditional two-axis winding
- Integrated workstation**
 Integrated table, control cabinet, and storage create a compact, self-contained manufacturing platform that maximizes productivity while minimizing floor space
- From development to production**
 Supports advanced composite R&D, process validation, prototype development, and low-volume manufacturing using the same machine platform
- Flexible processing capability**
 Compatible with wet winding and towpreg systems with optional winding software FiberGrafix®, delivery systems, resin baths, tensioning creels, and other supporting equipment

SPECIFICATION

Fiber system	Wet winding or towpreg
Number of axes	4 (3; 5)*
Number of spindles	1
Max mandrel diameter	12 inches
Max mandrel length (incl. shafts)	48 (68; 88)* inches
Max mandrel weight (per spindle)	50 lbs
Max spindle speed	100 rpm
Horizontal carriage stroke	40 (60; 80)* inches
Max horizontal carriage speed	40 in/sec
Max total fiber tension	25 lbs
Basic machine size (L x W)	65 (85; 105)* x 30 inches

*Options shown in parentheses

The SC+ multi-axis filament winder is part of ETC's standardized filament winding portfolio — engineered to deliver reliable performance, optimized pricing, and reduced lead times. Its compact multi-axis platform bridges laboratory winding and manufacturing, providing an ideal solution for pressure vessel development, advanced composite prototyping, process validation, and small-scale production.

The machine is configurable and can be customized with a wide range of accessories, delivery systems, automation options, and software to meet specific production requirements.

Discuss your application with our sales & engineering team!

Contact Engineering Technology Corporation to explore equipment solutions and services tailored to your composite part manufacturing goals.

