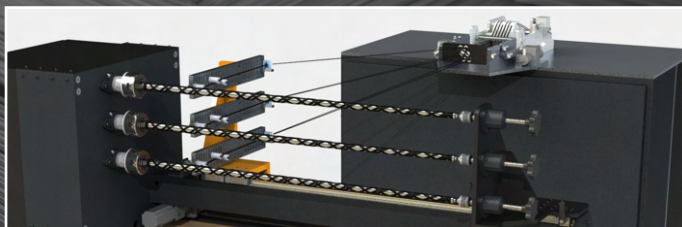




ENGINEERING TECHNOLOGY CORP.

 Toray Group



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

## SC3 FILAMENT WINDER

COMPACT MULTI-SPINDLE WINDER FOR SMALL-SCALE PRODUCTION

# MORE THAN MACHINES

 Toray Group



DESIGNED & MADE IN THE USA

**ZOLTEK**   
Toray Group

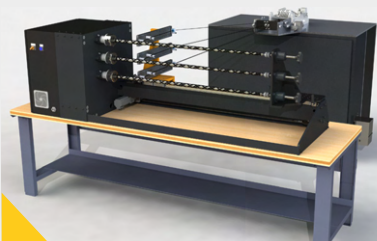


[www.etcwinders.com](http://www.etcwinders.com) | +1 (801) 486-8721 | [sales@etcwinders.com](mailto:sales@etcwinders.com)



# SC3 Filament Winder

## Small-Scale Production



- **Ideal for R&D and production**  
From material testing coupons to small-batch manufacturing
- **Multi-spindle configuration**  
Increased throughput for small composite parts
- **Compact desktop design**  
Maximized productivity with minimal footprint
- **Precision 2-axis motion with adjustable tailstock**  
Consistent, repeatable winding quality
- **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 | 2 |
|----------------|---|

|                    |   |
|--------------------|---|
| Number of spindles | 3 |
|--------------------|---|

|                      |          |
|----------------------|----------|
| Max mandrel diameter | 4 inches |
|----------------------|----------|

|                                   |                     |
|-----------------------------------|---------------------|
| Max mandrel length (incl. shafts) | 44 (64; 84)* inches |
|-----------------------------------|---------------------|

|                                  |        |
|----------------------------------|--------|
| Max mandrel weight (per spindle) | 50 lbs |
|----------------------------------|--------|

|                   |         |
|-------------------|---------|
| Max spindle speed | 150 rpm |
|-------------------|---------|

|                            |                     |
|----------------------------|---------------------|
| Horizontal carriage stroke | 40 (60; 80)* inches |
|----------------------------|---------------------|

|                               |           |
|-------------------------------|-----------|
| Max horizontal carriage speed | 40 in/sec |
|-------------------------------|-----------|

|                         |        |
|-------------------------|--------|
| Max total fiber tension | 50 lbs |
|-------------------------|--------|

|                            |                           |
|----------------------------|---------------------------|
| Basic machine size (L x W) | 72 (96; 120)* x 30 inches |
|----------------------------|---------------------------|

\*Options shown in parentheses

The SC3 multi-spindle filament winder is part of ETC's standardized filament winding portfolio — engineered to deliver reliable performance, optimized pricing, and reduced lead times. Its compact design combines R&D flexibility with increased throughput for small composite parts.

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.

