



ENGINEERING TECHNOLOGY CORP.

Toray Group



GLOBAL  
EXPERT IN  
FILAMENT  
WINDING &  
COMPOSITE  
SOLUTIONS

FAST-SPEED WINDING EQUIPMENT  
FOR HIGH-RATE PRODUCTION

**NEW!**

**MORE THAN MACHINES**

Toray Group



DESIGNED & MADE IN THE USA

**ZOLTEK**  
Toray Group



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## FAST-SPEED WINDING EQUIPMENT FOR HIGH-RATE PRODUCTION

### **CXG Filament Winder and ST2 Servo Tensioning Creel for High Production Rate of COPVs**

- Developed specifically for high-speed winding
- Unsurpassed accuracy at high payout speeds
- Ideal for high-volume CNG and CHG applications

### **Winding speed for 600 mm × 300 mm diameter CHG tank with CXG Filament Winder and ST2 Servo Tensioning Creel**



Fiber speed  
at angles:  
10° angle =  
800 mm/sec  
45° angle =  
2000 mm/sec  
90° angle =  
5000 mm/sec

### **CXG Filament Winder**

Designed specifically for high-speed CNG and CHG tank production for the automotive industry. Driven by dual motors, the lightweight carriage design is capable of applying towpreg or slit tape at speeds of up to 5 m/sec.

### **ST2 Servo Tensioning Creel**

An innovative and compact tensioning creel developed to provide accurate tension at high payout speeds. The unique guide roller configuration minimizes fuzz and reduces stringer wrap-ups.