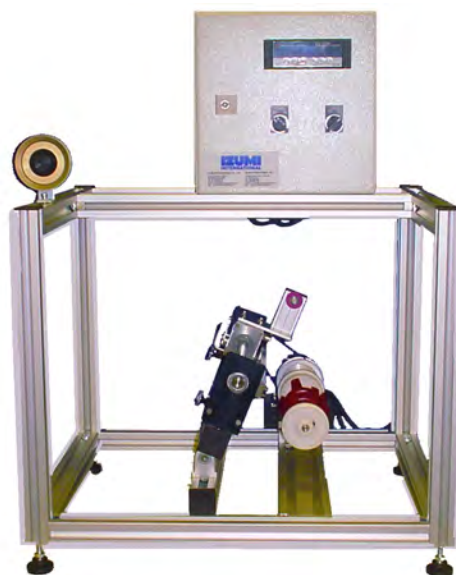


TTW *Tabletop Winder for Lab-Scale Winding*

Features

- Compact tabletop winder, convenient for laboratory and pilot scale processes.
- Tabletop winders feature adjustable traverse.
- The winders are available in the following configurations: constant RPM, constant speed, constant tension, constant torque.
- Suitable for carbon fibers and other high performance fibers.



Specifications

Model	TTW-RPM	TTW-CS	TTW-CTN	TTW-CTQ
Description	Constant RPM control	Constant speed control	Constant tension control	Constant torque control
Max. speed ratio	Std.: 1:100 High: 1:1000	1:100	1:25	1:25
Possible speed	Min 0.1mm/min Max 50m/min (*1), (*2)	Min 0.1mm/min Max 50m/min (*1)	Min 0.1mm/min Max 50m/min (*1)	Min 100mm/min Max 100m/min (*1)
Speed accuracy	+/- 10% to 20% depending on diameter	+/- 0.1% to +/- 1% depending on drive	Controlled by process	Controlled by process
Traverse system	Mechanical auto traverse	Mechanical auto traverse	Mechanical auto traverse	_____
Traverse length	Adjustable 50mm-250mm	Adjustable 50mm-250mm	Adjustable 50mm-250mm	Adjustable 50mm-250mm
Tube size	ID Ø 76mm, Ø 94mm	ID Ø 76mm, Ø 94mm	ID Ø 76mm, Ø 94mm	ID Ø 76mm, Ø 94mm
Max. package size	Approx. Ø 120mm	Approx. Ø 120mm	Approx. Ø 120mm	Approx. Ø 120mm
Winding tension	Depending on process	Depending on process	Constant tension Min 10grams Max 5000 grams	Tension varies with diameter Min 100grams Max 5000 grams
Traverse guide	Groove roller type or ceramic guide	Groove roller type or ceramic guide	Groove roller type or ceramic guide	Groove roller type or ceramic guide
Speed encoder	No	Yes	Yes	Yes
Yardage counter	Optional	Yes	Optional	Optional
Drive	Constant RPM drive	Servo motor	Servo motor or AC drive	AC drive + clutch

(*1) Must comply with max speed ratio (*2) Speed is not constant, varies with diameter change

Please contact Izumi International, Inc. for special requirements

TTW *Tabletop Winder for Lab-Scale Winding*

Winder Type Details



TTW-RPM

- For use in applications where speed accuracy is not critical, and winder controls the fiber speed.
- Winder pulls fiber through process.
- Low cost winder.



TTW-CS

- For use in applications where speed control is critical and winder controls the fiber speed.
- Length control and monitoring of the fiber is possible.
- Winder pulls fiber through process.



TTW-CTN

- For use in applications where tension control is critical and fiber speed is controlled by other means in the process.
- Other drive rollers will drive the fiber: this winder acts as a take up winder.



TTW-CTQ

- For use in applications where fiber speed is relatively high and fiber speed is controlled by other means in the process.
- Other drive rollers will drive the fiber: this winder acts as a take up winder.

Basic Dimensions

