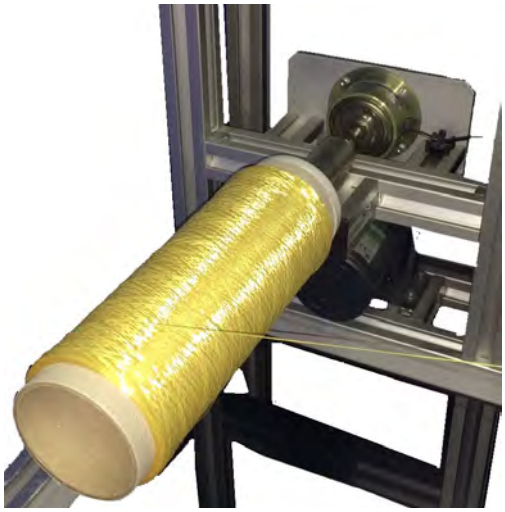
BDT-X Bi-Directional Feedback Tension Control System

Features

- Bi-directional tension control for applications requiring let-off and take-back
- Both positive feed and negative clutch systems available
- Motor-clutch system for slower speeds, servo-dancer system for higher speeds
- Precision mechanical chuck for accurate centering and firm hold
- Data monitoring/logging software for tension available



Applications and Fiber Types

- Filament winding, laboratory use, high precision creels
- Carbon fiber, glass fiber, aramids, etc.

Specifications

Model	BDT-CTF	BDT-SD
Type	Negative feeding type	Positive feeding type
Applications	For lower acceleration/decelerations, lower overall cost	For higher acceleration/decelerations
Configuration	Motor and electromagnetic particle clutch	Servo motor and tension dancer
Control	Via CTF tension controller	Via servo drive PID
Tension sensor	DTH type (*)	Optional DTH can be supplied (*)
Tension control range	Max 10,000 grams	
Package chuck	Precision mechanical chuck for non-slip	
Tension monitor	Can be equipped with tension monitoring and logging via PC	
(*)	See DTH brochure for detailed information	

Please contact Izumi International, Inc. for special requirements

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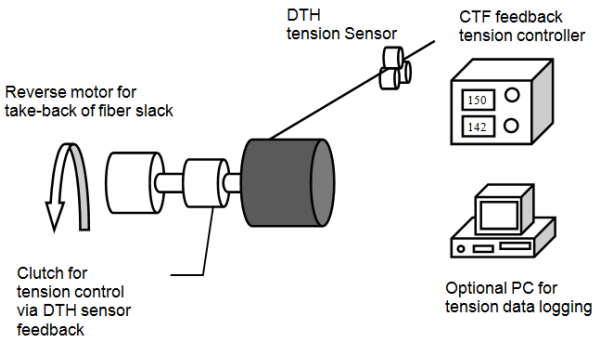
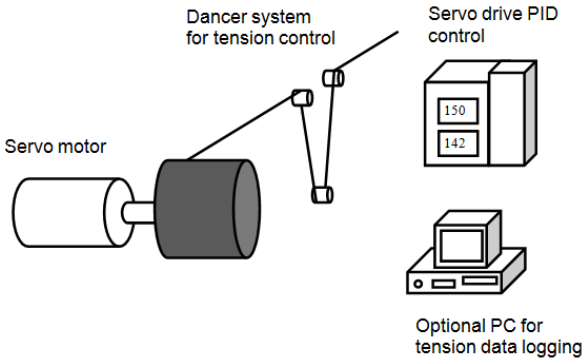
BDT-X Bi-Directional Feedback Tension Control System

System Configuration



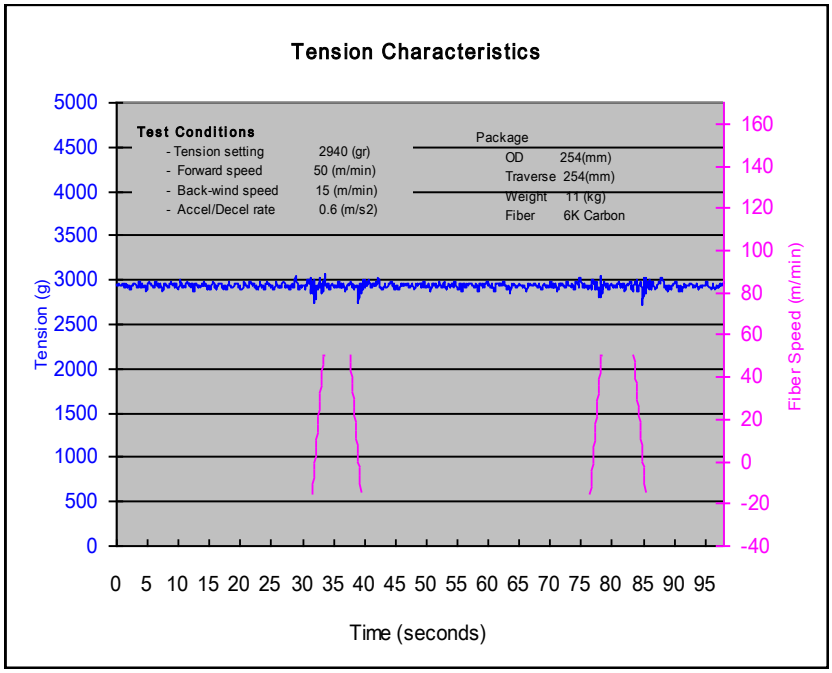
BDT-CTF Configuration



BDT-SD Configuration

Tension Data Example for BDT-CTF

Stable tension control at both forward winding and backward winding can be observed.
Little deviation at rotation direction change-over.



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