

# TOP1000 Magnetic Tensioning Device for Warping

## Features

- On board microprocessor corrects tension deviation within +/- 1 gram.
- Unique tension wheel eliminates yarn damage and filament breakage.
- Internally geared hysteresis brake structure offers small moment of inertia and higher RPM operation.
- Each unit is calibrated via internal microcomputer
- Control system enables configurable zone tension control.



## Applications and Fiber Types

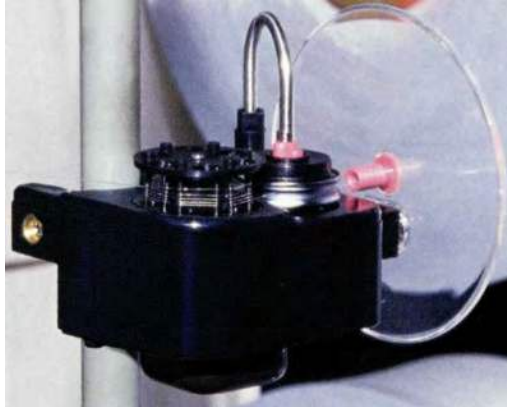
- The TOP1000 is a magnetic type tension device designed especially for fiber glass tensioning on beam warping creels. The unit can also be used for various applications requiring fiber tension control.
- The TOP1000 is the industry standard for warping lightweight glass fibers, with unrivaled tension control accuracy.

## Specifications

Tension Setting Range	0-30 grams, settable in 1 gram increments
Accuracy	+/- 1gf
Yarn Speed	1,000 m/min max.
Pre-Tension Device	Washer weight type disk tensioner
Tension Wheel Diameter	40mm max.
Stopping	Braking system incorporated
Mounting Post	dia17.1mm to dia20mm (fixed with M6 set screw)
Yarn Exit Direction	Left hand or right hand side is available
Yarn Exit Angle	90° -100°
Yarn Inlet	Dia. 100mm ballooning disk
Yarn Inlet Guide	Ceramic Eyelet
Dimensions/Weight	W108 x D91 x H79 300grams
Available Options	(1) Complete framework for creel (2) Stop motion for yarn break (3) Yarn break cancellation feature (for unused positions) (4) Battery type UPS system for blackout
Control System	See following page for details

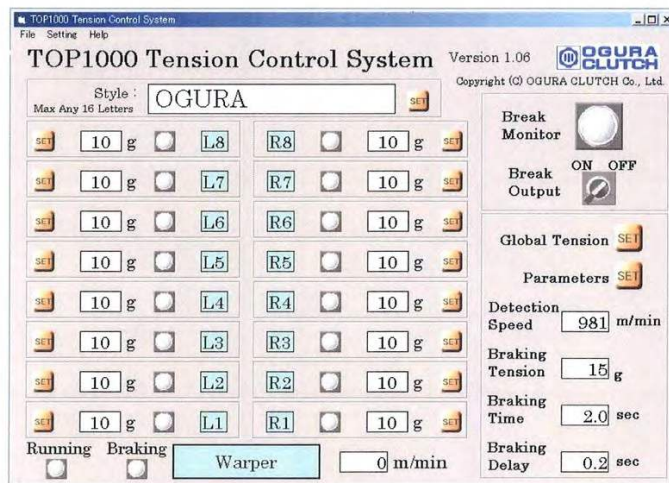
Please contact Izumi International, Inc. for special requirements

## Tensioner Construction



- Special pulley eliminates yarn overlap and any contact between each other
- Parallel connection enables simultaneous remote tension setting
- Stop motion by photo sensor (option)
- Microcomputer corrects deviation between units

## Control System Features



Break Output OFF

- Control System : Windows based PC system or PLC system is available
- Tension Zones : Number of zones is configurable
- Tension Setting : By individual zones or by global setting
- Yarn Break Monitor: Activation speed is settable: Min 5m/min, Max 500 m/min