

# 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

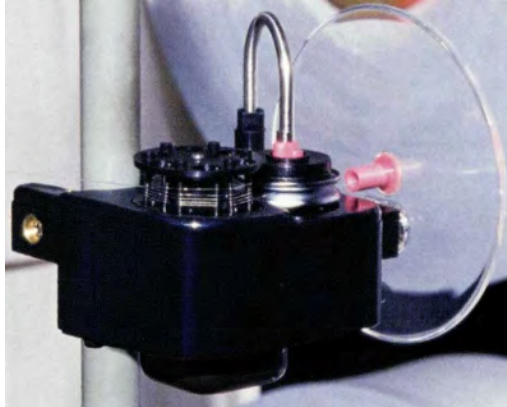
- The TOP1000 is a magnetic type tension device designed especially for fiber glass tensioning on beam warping creels. The unit can also be used for various applications requiring fiber tension control.
- The TOP1000 is the industry standard for warping lightweight glass fibers, with unrivaled tension 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<br>(2) Stop motion for yarn break<br>(3) Yarn break cancellation feature (for unused positions)<br>(4) Battery type UPS system for blackout |
| Control System         | See following page for details   |

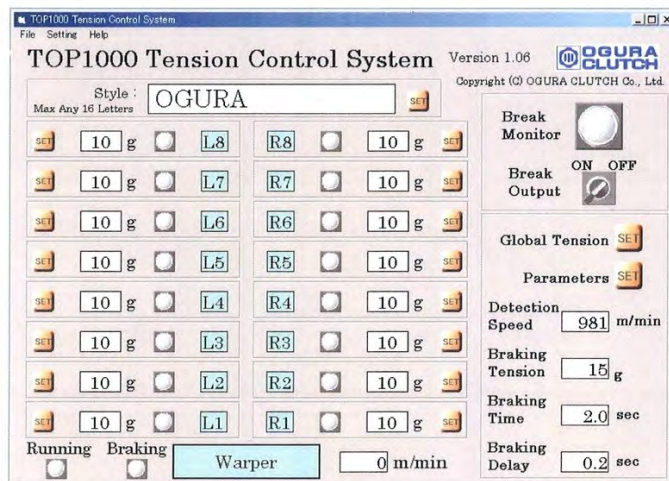
Please contact Izumi International, Inc. for special requirements

## 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