

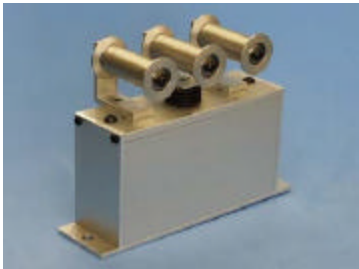
# TENSION

## *Control and Monitoring*



IZUMI offers various selections for tension control and monitoring, aimed at tensioning tapes, fibers, films, etc..

### TENSION SENSORS



DTH2100	50 gf range
DTH3100	100 gf range
DTH4100	200 gf range
DTH5100	500 gf range
DTH6100	1000 gf range
DTH7100	2000 gf range

Contact IZUMI for different roller types to meet your application

### TENSION CONTROLLER

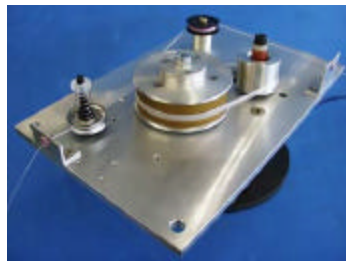


**CTA-Type Constant current controller**  
Open loop tension control

**CTP-Type Pulse counting controller**  
Pulse counting open loop tension control with calculated tension compensation

**CTF-Type Feed-back controller**  
Feed-back tension control via tension sensor

### TENSION DEVICE



**TOP1000 Open Loop Low Tension Unit**  
Equipped with microprocessor, this unit offers high accuracy open loop tension control for up to 60grams.

**ATI Open Loop High Tension Unit**  
Equipped with microprocessor, this unit offers high accuracy open loop tension control for up to 2000grams.

### TENSION ACTUATOR

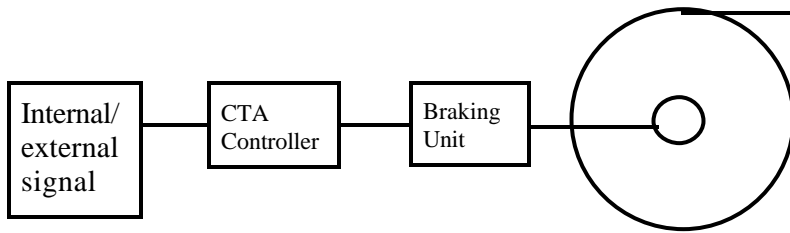


OPB/PB	Powder Brake Actuator
OPC/PC	Powder Clutch Actuator
HB	Hysteresis Brake Actuator
HC	Hysteresis Clutch Actuator

# Tension Controlling Methods

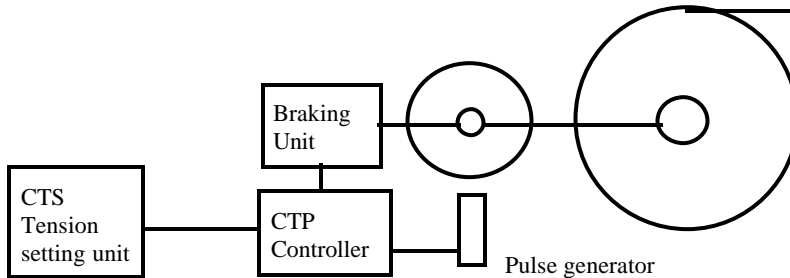
Examples shown below are tension control for let-off via brake actuator

## Constant Current Method: CTA Type Controller



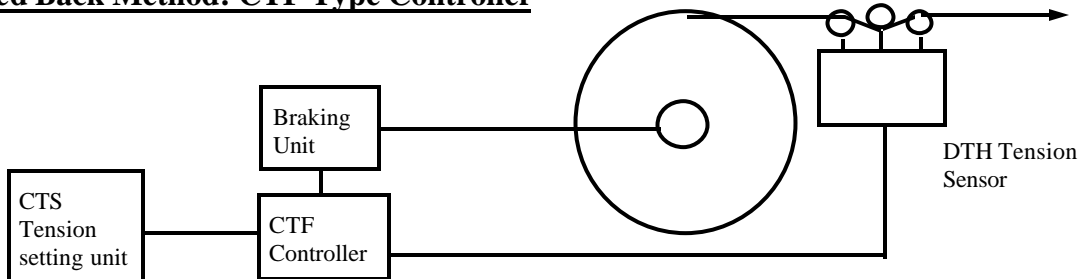
- Simple means of tension control
- Tension varies with package diameter
- Can be used as an amplifier controller via remote control

## Pulse Counting Method: CTP Type Controller



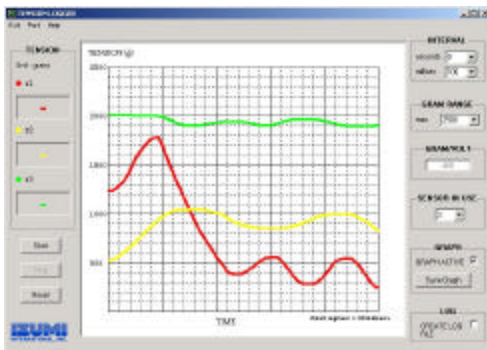
- Braking torque is adjusted proportionally to package (roll) diameter
- Tension varies with package diameter
- Can be used as an amplifier controller via remote control

## Feed-Back Method: CTF Type Controller



- Most accurate method
- Tension is being measured and controlled according to measured value

# Tension Logging Software



- Windows based tension logging software included with tensioning equipment
- Real-time graphical display
- Tension can be logged conveniently to spreadsheet software
- Customized functions can be incorporated upon request



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