



# Tension Brakes

TENSION BRAKES				
Model	Capstan Sheave Diameter	Speed Range FPM / MPM	Tension Range	Wire Size Range
TB-16-HS TB-16R-HS	16" (406 mm)	1000 - 4000 FPM (305 - 1219 MPM)	0 - 15 lbs (0 - 6.8 kg)	10 - 28 AWG
TB-16-LS TB-16R-LS	16" (406 mm)	150 - 3000 FPM (46 - 914 MPM)	0 - 30 lbs (0 - 13.6 kg)	6 - 18 AWG

Tension Brakes are designed to maintain constant tension throughout a vast range of applications and process speeds. The system includes a mini belt wrap capstan, an AC Drive, AC Motor, and a start-stop pushbutton control station with a potentiometer to adjust the running tension.

Tension is adjusted by use of a potentiometer adjustment of the torque reference to the AC drive and motor.

The mini belt wrap capstan system reduces tension spikes without inducing secondary oscillations to the wire exiting the capstan wheel. The system eliminates tension variation due to whipping fluctuations common to dual flyer payoffs.

The machine can be supplied with an optional tension monitoring/readout feature. This feature enables the unit to measure the actual process tension of the wire and displays the value via a meter installed on the machine.



TB-16



TB-16R

## Features

- Isolates tension fluctuations common to dual flyer payoffs
- Polycarbonate window for operator visibility and protection
- Bonded and grounded rubber liner on capstan wheel
- Special composite endless belt
- Wire entry height 30' (760mm)
- Wire exit height 42-1/4" (1070mm)
- Door interlock to prevent access while in run mode
- Manually adjustable tension setting via Potentiometer
- Optional tension monitoring with display
- Remote / Local start / stop capability