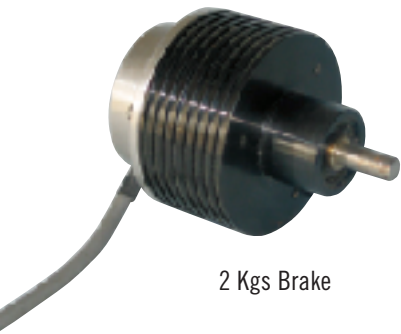
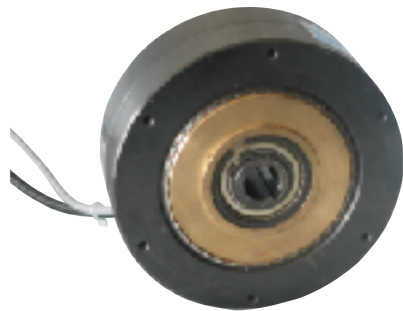


Brakes and Clutches for Web Tension Control



2 Kgs Brake



20 Kgs Brake



Web Tension Control System

The TSC Tension Control systems employ magnetic particle brakes which produce a very accurate and stable web tension which is unaffected by the speed of rotation.

The braking force is created by an electrical current flowing through coils producing a magnetic field, this increases the viscosity of chromium plated iron particles situated between the stator and rotor of the clutch or brake proportional to the change in input current.

The rotor is a very low inertia component which allows for a rapid response to tension changes, creating accuracy and consistency of control.

The brakes are available in a range of sizes from 2Kgs, 5Kgs, 10Kgs and 20Kgs FSD, allowing for web tension control over a wide range of materials and products.

Overtemperature detection with automatic overload protection is fitted as standard.

Applications

Input unwind, intermediate and rewind of web tension for rotary die cutting and setting of web tension for the laminating and print registration in label manufacture, medical and automotive products. Dynamometers for motor testing, connection and control in mechanical drives, dynamic braking and programmable loads.

Features

- * Precise Control of Web Tension
- * Smooth and Quiet Operation
- * Low Input Power for Maximum Braking Force
- * Low Inertia giving Rapid Response
- * Linear Output Proportional to Input Current
- * Output Load Independent of RPM
- * Wide Range of Mounting Options
- * For Input, Intermediate and Rewind Operation

Specifications

Accuracy:	±5% of FSD
Temperature Ranges:	2 Kgs FSD to 20 Kgs FSD
Brake Drive:	0-24v DC @ 1 Amp constant current
Temperature Range:	0-50°C
Maximum RPM:	Upto 2000 RPM Dependant on power dissipation

We reserve the right to change specifications as deemed necessary with continuous improvement

NAMAS Calibration Traceability on all Products and Services



Timesync Controls Ltd

Torque Systems

Calibration Services

Electronic Manufacture

Web Tension Control

Unit 6, Beaumont Business Centre, Beaumont Close, Banbury, Oxon OX16 1TN
Telephone: 01295 273994 facsimile: 01295 269695
e-mail: ctimesync@aol.com www.timesynccontrols.co.uk