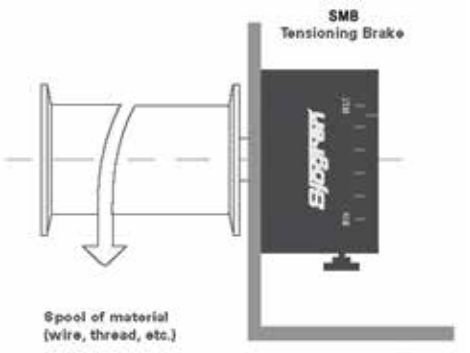
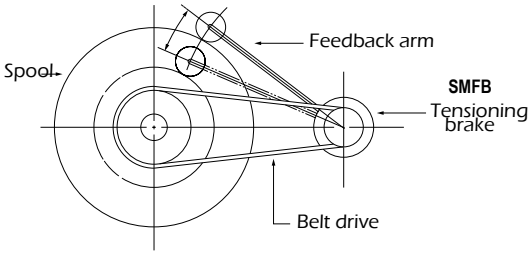
HYSTERESIS BRAKES



Usual set-up for tensioning wire, film, etc. on pay-off.
Note: Tension will vary as material diameter changes.



DESCRIPTION

The Sjogren hysteresis brakes are used to provide controlled tension or torque during spooling, unwinding, tightening or other similar machine operations. The rugged brakes provide constant torque regardless of the rotation speed. They ensure smooth startup and uniform movements even as the diameters change. The brakes operate according to the principle of permanent magnetic dual disks hysteresis. Units can be used for powertrain overload protection. This magnet technology does not require an external power supply and is virtually maintenance and wear-free.

An integrated scale makes it easy to adjust and repeat the settings. Custom designed models are possible. The hysteresis brakes are available with and without feedback control. The feedback control operates via a rocker arm which follows the unwinding spool for changes to its diameter and thereby automatically decreases the torque setting. Reducing the torque setting automatically will maintain a constant line tension from full to empty spool during payoff.

TECHNICAL SPECIFICATIONS

MODEL	TORQUE RANGE	MAX. RPM AT MIN. TORQUE	MAX. RPM AT MAX. TORQUE	MAX. MOMENT ON SHAFT
SMB-0.75	.13-.75 in-lb	3000 rev/min	1350 rev/min	2 in-lb
SMB-1.25 M	0.6-1.25 in-lb	2000 rev/min	800 rev/min	40 in-lb
SMB-12 M	1-12 in-lb	1000 rev/min	175 rev/min	80 in-lb
SMB-12 HDM	1-12 in-lb	1000 rev/min	175 rev/min	300 in-lb
SMB-12 HDSM	2-12 in-lb	1000 rev/min	175 rev/min	600 in-lb
SMB-25 M	2-22 in-lb	1000 rev/min	250 rev/min	200 in-lb
SMB-60 M	5-60 in-lb	1000 rev/min	200 rev/min	1000 in-lb
SMB-120 M	10-120 in-lb	1000 rev/min	200 rev/min	1000 in-lb

SMB models without feedback control; SMFB models with feedback control