**Selection Guide** 

as important as selecting the proper tension clutch or brake. As the control is the heart of the system which provides the necessary controlling function in the application, selecting the wrong control or inadequate control can be as bad as incorrectly sizing the mechanical portion of the system.

Normally control selection can be very simple if a few simple questions can be answered regarding the application. By doing so, selection can be very easy and painless.

## Selecting the Correct Tension Control DIST. AUTORIZADO MEX (55) 53 63 23 31 MTY (81) 83 54 10 18 QRO (442) 1.95 72 60 ventas@industrialmagza.com Mechanical Elements

The following steps outline a simple way of selecting the proper control system for the application.

- 1. Determine the type of system that is to be used. Will the system be load cell, dancer, or open loop analog control?
- 2. Next, determine the type of brake or clutch system that the control will be used with. Will this be an electric or pneumatic system?
- 3. Using the Quick Selection Chart, determine which models may be suitable for the application.

Once the determination of the control/controls has been made for the application, review the specifications for the various controls to determine the characteristics and features that best suit the application and your requirements.

Once the control has been selected, be sure to check that it will work with the brake or clutch previously selected. This can be determined from the specific technical specification for the control selected. Remember. not all controls will work with all clutches and brakes.

If the control selected will not operate the controlling device selected, i.e., clutch or brake, then a different control must be selected.

	_	System Type				_	
		Open Loop		Closed Loop			
Model Number	Output Voltage	Manual Adjust	Analog Input Adjust	Dancer	Load Cell	Air or Electric	Page
MCS2000	0±10 (2 channel) (0-20mA)	•	٠	•	•	Air/Electric	46
*TCS-200	0–24	•	•			Electric	56
TCS-200-1	0–24	•	٠			Electric	56
TCS-200-1H	0–24	•	•			Electric	56
MCS-203	0–24			•		Electric	61
MCS-204	0–24	•	•			Electric	57
MCS-207	0–10 (1–50mA)			٠		Air	63
MCS-208	0–10 (1–50mA)	٠	٠			Air	59
TCS-210	0-24 (48)			٠		Electric	62
TCS-220	0–24 (48)	٠	٠			Electric	58
TCS-310	0–24 (48) (2 channel)			•		Electric	64
TCS-320	0–24 (48) (2 channel)	•	٠			Electric	60

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\*For new applications, we recommend the TCS-200-1 or TCS-200-1H.

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Control	Description	Page Number
MCS2000	Fully digitation for the second secon	com 46
TCS-200	Inexpensive analog control with manual or remote follower adjust for electric brakes. Also accepts roll follower potentiometer input. Requires 24-30 VAC input. For use with MTB Series electric brakes (page 68).	56
TCS-200-1 TCS-200-1H	Extremely versatile and economical open loop control for all 24V electric brakes and clutches. Can be used for manual adjust, or will follow an analog (0–10V, 4–20mA) input, such as from an ultrasonic sensor or PLC. For use with MTB, TB and ATTB Series and magnetic particle electric brakes. (page 68)	56
MCS-203	Closed loop dancer control for 24V electric clutches and brakes. For use with TB Series, ATTC and ATTB Series and Magnetic Particle clutches and brakes (page 68).	61
MCS-204	Analog control for 24V electric clutches and brakes. Manual control, or analog (0–10V or 4–20mA) signal. For use with TB Series, ATTC and ATTB Series and Magnetic Particle clutches and brakes (page 68).	57
MCS-207	Economical closed loop dancer control especially configured for air brakes. Provides a 0–10V or 4–20mA output to E/P transducers. For use with Pneumatic brakes (page 68).	63
MCS-208	Economical open loop analog control especially configured for air brakes. Provides manual control, or accepts analog input (0–10V or 4–20mA). Same output as MCS-207. For use with Pneumatic brakes (page 68).	59
TCS-210	Economical closed loop dancer control for all 24V brakes and clutches. Has reserve 48V supply for enhanced E-stop torque with certain brakes. For use with MTB Series electric brakes (page 68).	62
TCS-220	Analog control for 24V electric clutches and brakes. Manual adjust, or follows analog (0–10V or 4–20mA) input. Reserve 48V overexcite for E-stops. For use with MTB Series electric brakes (page 68).	58
TCS-310	Dancer splicer control (two output channels) for 24V electric brakes. Full splicing logic, and 48V overexcite for E-stops. For use with MTB Series electric brakes (page 68).	64
TCS-320	Analog splicer control (two output channels) for 24V electric brakes. 48V overexcite for E-stops. For use with MTB Series electric brakes (page 68).	60