

# Mascon Controls

## The most forgiving and user friendly type loop control on the market . . .

### Antenna-Tracker™ Antenna Loop Control Systems

The O/F Antenna Tracker™ Loop Controller is a basic method of loop control using antennas. The O/F Antenna Tracker™ Loop Controller allows On/Off control by the simple touch of an antenna! Set point adjustments are as simple as raising or lowering the Off & On Antennas.

#### Standard Features:

- 30" High Antenna Stand with 24" long adjustable antennas.  
(Please specify when using Non-Metallic or Non-Conductive materials.)

The VS Antenna Tracker™ Loop Controller is the most forgiving and user friendly type loop control on the market today. When a loop of material is bouncing up and down because of long feed lengths or intermittent press cycles, it causes the equipment to cycle fast and slow leading to physical wear and tear to the equipment. The VS Antenna Tracker™ Loop Controller allows the material to bounce between the antennas (set points) providing a smooth and stable output. Increasing and decreasing line speeds or an increasing and decreasing roll diameter change will increase and decrease the output on demand by a simple touch of an antenna! Speed set point adjustments are as simple as raising or lowering the zero speed and advance speed antennas.



ANTENNA TRACKER™ LOOP CONTROLLERS			
Model	Description	Input	Output
MCA-1000	Basic system to control an AC Motor Starter (On/Off)	115vac	On/Off 115 vac
MCA-1003	Basic analog system to control a D.C. or A.C. Drive	115vac	0-10vdc
MCA-1004	Includes 1hp D.C. Drive	115vac	0-90vdc
MCA-1005	Same as above w/regen Drive & Operator Push buttons	115vac	0-90vdc
MCA-PHOTO	Photo eyes are available in place of antennas	***	***
MCA-TS	Optional Emergency Top Stop Feature	***	Form C Relay Contact

#### Standard Features:

- 48" High Heavy Duty Antenna Stand with 24" long adjustable stainless steel antennas & oil tight enclosure.  
(Please specify when using Non-Metallic or Non-Conductive materials.)



### Sonic-Tracker™ Ultra Sonic Sensing & Control Systems

The VS Sonic-Tracker™ Sensing Controller is a versatile user friendly micro-processor based sensing system pre-programming for today's demanding requirements. The VS Sonic-Tracker™ Sensing Controller is a must when controlling equipment with loops or distances (up to 10ft) and non-contacting of material is required. Adjustments are as simple as setting a zero output set point and a full output set point. The output will vary proportionally between those settings.

#### Standard Features:

- An adjustable Analog Output
- Emergency Tight & No Loop relay contacts
- Oil Tight Enclosure
- Sensor with Dust Filter)

The AO Sonic-Tracker™ Sensing Controller is a versatile user friendly micro-processor based sensing system pre-programmed for today's demanding requirements. The AO Sonic-Tracker™ Sensing Controller is a must when controlling roll tension via an air operated brake. Constant tension is maintained by varying air pressure proportional to roll diameter. Adjustments are as simple as setting a zero output set point (center of core) and a full output set point (full roll). The output will vary proportionally between those settings.

SONIC-TRACKER™			
Model	Description	Input	Output
MCS-1003	Basic analog system to control a D.C. or A.C. Drive	115vac	0-10vdc
MCS-1004	Includes 1 hp D.C. Drive	115vac	0-90vdc
MCS-1005	Same as above w/Regen Drive & Operator Push buttons	115vac	0-90vdc
MCS-1006	Air Output System less Ultra Sonic Sensor	0-10vdc	0-100psi
MCS-1007	Air Output System with Ultra Sonic Sensor	115vac	0-100psi
STD-1000	Adjustable Sensor & Controller Stand (Optional)	***	***

#### Standard Features:

- An adjustable Filtered Air Output
- Full Roll & Empty Roll independently adjustable relays
- Oil Tight Enclosure
- Sensor with Dust Filter
- Air Pressure Gauge

(Note: To control tension using an electric brake or clutch, see the VS models above.)



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## Dancer-Tracker™ Electronic Dancer Arm Position Control Systems

The Dancer-Tracker™ Electronic Dancer Arm Controller is a versatile user friendly system that can be calibrated while the machine is still in operation. Timely and costly mechanical disassembly is not necessary to set your equipment proper operating set points. Adjustments are as simple as setting a Zero (0vdc) set point and a Full Speed (10vdc) set point with the turn of a pot. The output will be proportional between those settings.

### Standard Features:

- Adjustable Tight Loop Alarm Relay
- Adjustable No Loop Alarm Relay
- Oil Tight Enclosure
- Electronic Dancer Position Card with a 0-10vdc analog output



DANCER-TRACKER™			
Model	Description	Input	Output
MCD-1003	Basic analog system to control a D.C. or A.C. Drive Controller only	115vac	0-10vdc
MCD-1004	Includes 1 ph D.C. Drive Controller only	115vac	0-90vdc
MCD-1005	Same as above w/Regen Drive & operator push-a-button Controller only	115vac	0-90vdc
MCD-DA	Complete Dancer Arm only	***	***
MCD-1006	Dancer module w/ 1/2 inch shaft & potentiometer	***	5K, 10K, or 20K ohm pot.
PP-PB-1000D	Dancer position card only	potentiometer or sensor	0-10vdc

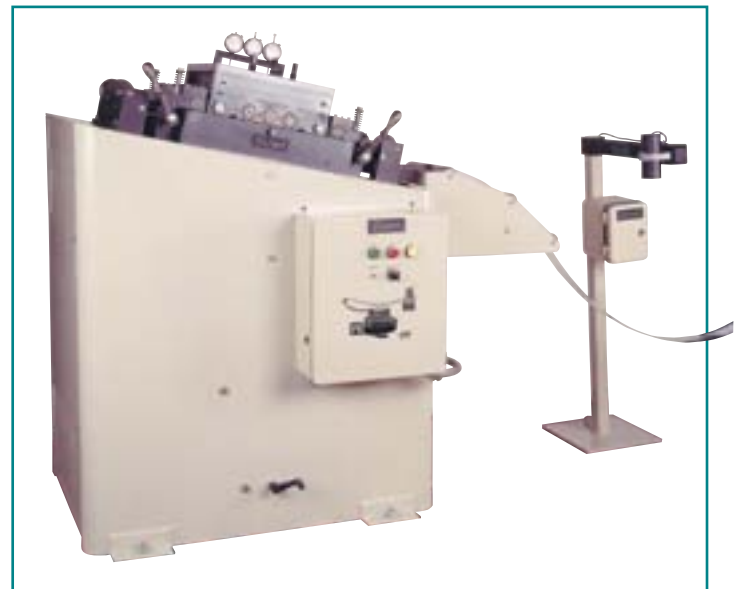
## Complete Straighteners / Stock Reel Electronic Loop Control Packages

Complete Turn Key Electronic Control Package specifically designed for medium and heavy duty Straightener / Reels are available as retrofit packages to End Users who rebuild and upgrade their own equipment. Rebuilds and upgrades to your equipment are available in our Mascon Systems, Inc. facility. Custom Electronic Control Packages with logo's are offered to our OEM customers for their own product lines.

### Standard Features:

- Antenna-Tracker™, Sonic-Tracker™, or Dancer-Tracker™ Loop Controller
- Emergency Tight Loop (Top Stop) relay contacts
- NEMA 12 Enclosure w/Main Disconnecting means & Line Fuses
- 3-5 hp Regenerative D.C. Drive, Start, Stop, Forward/Reverse, Auto/Manual, Jog & Speed Pot.
- Push buttons are mounted on the cover

COMPLETE STRAIGHTENER / STOCK REEL			
Model	Description	Input	Output
MCA-1047	Straightener/Reel Control Package w/Antenna-Tracker™	220vac	0-180vdc
MCS-1047	Same as above w/Sonic-Tracker™	220vac	0-180vdc
MCD-1047	Same as above w/Dancer-Tracker™	220vac	0-180vdc



*Other options, H.P. & voltages available upon request!*

***Several Models & Options are available to meet your application needs!***