



ASR Style Rotator

\_\_\_\_\_  
Rotator Model and Serial Number

\_\_\_\_\_  
Pine Technician (sign and date here)

\_\_\_\_\_  
Tachometer Make, Model, and Serial Number

\_\_\_\_\_  
Tachometer Calibration Date

\_\_\_\_\_  
Voltmeter Make, Model, and Serial Number

\_\_\_\_\_  
Voltmeter Calibration Date

### Important Notes Regarding Rotation Rate Calibration for ASR Style Rotators:

- The rotation rate for this style of rotator is certified to within  $\pm 1\%$  of the setting on the control box.
- This calibration is valid only for the specific control box and rotator motor combination with the serial number specified above. Control boxes and motors must be calibrated together as a complete system (*i.e.*, control boxes and rotator motors are not interchangeable, and a recalibration is required if either component is changed).
- This calibration has been performed for both belt settings on the rotator (as indicated below). If the belt is placed on the upper pulleys, then the nominal range of available rotation rates is 50 to 2500 RPM. If the belt is placed on the lower pulleys, then the nominal range of available rotation rates is 200 to 10000 RPM.

Pulley Position	Control Box Setting	Expected Rotation Rate	Tachometer Reading (RPM)	Output Signal (volts)
upper	200	50 $\pm$ 0.5 RPM		
upper	400	100 $\pm$ 1.0 RPM		
upper	800	200 $\pm$ 2.0 RPM		
upper	2000	500 $\pm$ 5.0 RPM		
upper	4000	1000 $\pm$ 10.0 RPM		
upper	8000	2000 $\pm$ 20.0 RPM		
lower	200	200 $\pm$ 2.0 RPM		
lower	500	500 $\pm$ 5.0 RPM		
lower	1000	1000 $\pm$ 10.0 RPM		
lower	2000	2000 $\pm$ 20.0 RPM		
lower	5000	5000 $\pm$ 50.0 RPM		
lower	8000	8000 $\pm$ 80.0 RPM		

### **SAFETY WARNINGS:**

**Each rotating electrode type (shaft and/or tip) offered by Pine for use with an ASR style rotator has a unique Maximum Rotation Rate.**

**Never Exceed the Maximum Rotation Rate for a given rotating electrode.**

**Use Extreme Caution when rotating electrodes above 2000 RPM.**