

# DRAW CURTAIN MACHINES: VARIABLE

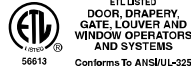


SILVER SERVICE® Model 2904-TV  
HERCULES® Model 6504-TV

Model 2904-TV



4-button  
RCS



Models 2904-TV and 6504-TV combine maximum versatility with the power needed to operate small to medium sized draw curtains. Equipped with electronic frequency drives, the TV series machines are the most versatile in the ADC line. Designed for draw applications these machines offer a multitude of parameters that can be programmed in the field to meet a variety of applications. Parameters such as run speed, maximum obtainable speed, minimum obtainable speed, acceleration ramp time and deceleration ramp time are easily changed at the drive. Each machine is provided with deceleration limit switches which allow the machine to decelerate to a stop rather than abruptly stop at the end of its travel. These machines also feature emergency overtravel limit switches and push buttons which bypass the deceleration ramp time and shut the machine off immediately. The operation of these machines is Start/Stop/Reverse from any point of travel and low voltage control is standard. If versatility is a project requirement, this series of machines is the best option.

**OUTSTANDING FEATURES:**

**GROOVED CABLE DRUM**

Assures positive drive without cable slippage. Constructed of aluminum 10" diameter x 5" long. Coated wire-center cable must be used. Drum must be at least 10' from track live end pulley, or last pulley in system to allow cable to wind properly on drum.

**EMERGENCY HAND CRANK**

Facilitates hand operation of curtain in case of mechanical or power failure. Not supplied when cable tension device is furnished.

**VARIABLE SPEED** (0-72 RPM) Speed cannot be adjusted while machine is operating without effecting limit positions.

	Model No.	
	2904TV	6504TV
Horsepower	1/2	3/4
Input Voltage/(Phase)	120/220 (1) 208/230 (3)	120/220 (1) 208/230 (3)
Cable Speed (fpm)	0 to 86	0 to 86
Curtain Separation Speed (fps)	0 to 3	0 to 3
Number of Remote Wires	6	6
Control Voltage (Plus Ground)	24 VAC	24 VAC
(No Speed Control at Remote)		
Length With Guard	18	18
Width With Guard	20	20
Height With Guard	27	27
Length Without Guard	13	13
Width Without Guard	16	16
Height Without Guard	27	27
Shipping Weight With Guard	175	175
Shipping Weight Without Guard	120	120

**CONTROL STATIONS**

Four-button type and marked Open, Close, Stop and Fast Stop. No limit to number of control stations that can be used with this type of machine. Two supplied with each machine, one on the machine and one to be used as remote control station. Speed dial at remote control available upon request.

**ROTARY LIMIT SWITCH**

Allows for user defined decelerated pre-set stops for the "Full Open" and "Full Close" positions. The limit assembly is also supplied with emergency overtravel limit switches which bypass the deceleration ramps and shut the machine off immediately.

**DISCONNECT SWITCH**

Toggle switch which removes power to machine's internal circuitry.

**Power will still be active at the machine terminal strip and on one side of the disconnect switch. To completely remove power from the machine for servicing, power must be shut off at its source and locked out according to OSHA regulations.**

**OVERLOAD PROTECTIVE BREAKER**

Automatic type helps protect machine, track and curtain against effects of accidental overload. Must be manually reset.


**FREQUENCY CONTROL DRIVE**

Provides user definable parameters of operation. Examples are: run speed, maximum obtainable speed, minimum obtainable speed, acceleration ramp time and deceleration ramp time.

**SUGGESTED SPECIFICATIONS FOR MODELS 2904-TV OR 6504-TV**

Curtain machines shall be fully automatic type with ... HP motor connected through V-belt drive to gear unit, on the output drive shaft of which shall be mounted elevator-type grooved cable drum delivering a cable speed of 0 to 86 feet per minute equivalent to curtain separation speed of 0 to 3 feet per second. Mechanism shall include electronic frequency drive to provide reversing, variable speed, and other actions and shall include a four-button control station mounted on unit and one for remote control. Control switch wiring shall be accomplished through low voltage system running from the machine's control box to the remote control station. Limit switch assembly shall be mounted integrally with gear unit. Safety guard shall be provided over V-belt drive and limit switch chain drive. Machine shall be equipped with disconnect switch, automatic overload protective breaker, and emergency hand crank for conversion to manual operation unless equipped with cable tension device. The entire mechanism shall be mounted on steel base. Model ... as manufactured by Automatic Devices Company of Allentown, PA.

Machines



## Variable Curtain Motor

Project:	Date:
Drawing #:	Scale: Not to Scale

Theatrical Stage Curtains, LLC.

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