



# DRAW CURTAIN MACHINES: VARIABLE

## SILVER SERVICE® Model 2905-TV HERCULES® Models 6505-TV and 7005-TV

### Model 2905-TV



Close-up of RCS-TV (wall [standard] and flush mount [optional] units shown)

NOTE: Guard not shown. Required for ETL compliance.

Models 2905-TV, 6505-TV and 7005-TV combine versatility with the power and drum capacity needed to operate large 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.

A Cable Tension Device is included as standard equipment. A magnetic brake, for precise stopping, is available as an option.

### OUTSTANDING FEATURES:

#### GROOVED CABLE DRUM

Assures positive drive without cable slippage. Aluminum construction 8" diameter x 12" long. Coated wire-center cable must be used. Drum must be at least 14' from track live end pulley, or last pulley in system to allow cable to wind properly on drum.

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

	Model No.		
	2905TV	6505TV	7005TV
Horsepower	1/2	3/4	1
Input Voltage/Phase	120/220 1 208/230 3	120/220 1 208/230 3	120/220 1 208/230 3
Cable Speed (fpm)	0-72	0-72	0-72
Number of Remote Wires	6	6	6
Control Voltage (Plus Ground)	24 VAC	24 VAC	24VAC
Length With Guard	42	42	42
Width With Guard	30	30	30
Height With Guard	18	18	18
Shipping Weight Without Guard	230	235	245

Frequency drive machines must be used for any motorized system over 100 feet wide. Failure to do so would void the factory warranty.

#### CABLE TENSION DEVICE

Helps eliminate cable slack automatically. Also helps retain cable within drum grooves.

#### EMERGENCY HAND CRANK

Facilitates hand operation of curtain in case of mechanical or power failure.

#### 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 help 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 2905-TV, 6505-TV OR 7005-TV

Curtain machines shall be fully automatic type equipped with ... HP motor connected to gear unit, on the output drive shaft of which shall be mounted elevator-type grooved aluminum cable drum and outboard bearing to support and align extended shaft. Cable tension device shall be provided to help automatically remove slack from cable and retain cable within drum grooves. Drum shall deliver a variable cable speed of 0-72 feet per minute. Mechanism shall include electronic frequency drive to provide variable speed, accelerated starts, decelerated stops and reversing action at any point along the travel and shall include three-button control switch mounted on unit and one for remote control. Control switch wiring shall be accomplished through low voltage system running from control box on the machine to the remote control station. Special limit switch shall be driven from output drive shaft of gear reduction unit. Machine shall be equipped with disconnect switch, overload protective breaker and emergency hand crank for conversion to hand operation. The entire mechanism shall be mounted on heavy steel base. Model ... as manufactured by Automatic Devices Company of Allentown, PA.