

# LIFT CURTAIN MACHINES: HEAVY DUTY



Model 9507-TV



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

NOTE: Guard not shown. Required for ETL compliance.

ETL LISTED DOOR, DRAPERY, GATE, LOUVER AND WINDOW OPERATORS AND SYSTEMS 56613 Conforms To ANSI/UL-325	Model No.
	9507TV
Horsepower	5
Maximum Cable Pull	1200 lbs.
Input Voltage/Phase	208/230/3
Cable Speed (fpm)	0-54
Number of Remote Wires	6
Length	47"
Width	33"
Height	40"
App. Shipping Weight (lbs.)	350 lbs.

Hercules® Model 9507TV is the most powerful lift machine of the ADC line. Equipped with electronic frequency drive control, this machine provides versatility and protection for the most demanding lift applications. The 9507TV machine offers a multitude of parameters that can be programmed in the field to meet almost any project requirement speed, maximum obtainable speed, acceleration ramp time and deceleration ramp time are easily changed right at the drive. The machine is also equipped with deceleration limit switches which allow the machine to gradually decelerate to a stop, dissipating inertial energy rather than abruptly stopping at the end of its travel. The machine does feature emergency overtravel limit switches and fast stop push buttons which bypass the deceleration ramp and shut the machine off immediately in the event of a problem during operation. The operation of these machines is Start/Stop/Reverse/Fast Stop from any point of travel and low voltage controls is standard. If versatility and power are a requirement, the Model 9507TV is an excellent choice.

### OUTSTANDING FEATURES:

#### GROOVED CABLE DRUM

Assures accurate travel and eliminates problems associated with pile-on type drums. Constructed of painted steel 6" diameter x 14" long, grooved for 1/4" cable. Output support flange bearing eliminates shaft deformation under maximum rated load. Provides 55 feet of cable travel.

#### MAGNETIC FRICTION BRAKE

Furnished as an integral part of the motor (brakemotor) this device helps provide precise stopping in both directions of travel. Brake is mechanically engaged at zero voltage (power off).

### CONTROL STATIONS

Four-button type. Provide Stop/Start/Reverse/Last Stop control from any point of travel. No limit to the number of remote control stations that can be used. Two supplied with each machine, one fixed to the machine and one for use as a remote control. 24VAC.

### FREQUENCY CONTROL DRIVE

Provides electronic control of the 3 phase inverter duty motor used to power the machine. The drive allows for user definable parameters of operation such as: run speed, maximum obtainable speed, minimum obtainable speed, acceleration ramp time and deceleration ramp time. The drive also provides protection for overcurrent, undervoltage, loss of phase, etc conditions. Drives can be programmed via the inputs on the face of the drives.

### ROTARY LIMIT SWITCH

Rotary cam type mechanical limit switches allow for user defined pre-set stops (decelerated) for the "Full Raise" and "Full Lower" positions. The limit assembly is also supplied with emergency overtravel limit switches which bypass the control's deceleration ramps and shut the machine off immediately.

### OVERLOAD PROTECTIVE BREAKER

This device automatically protects the machine, track and curtain against effects of accidental overload due to mechanical or amperage overloading of the machine. This device is also used to remove power from the machine. This device must be manually reset.

**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.**

### SUGGESTED SPECIFICATIONS FOR MODELS 9507-TV

Lift machine shall be fully automatic type equipped with 5 HP motor, with magnetic friction brake, right angle gear reducer on the output drive shaft of which shall be mounted elevator-type grooved cable drum and outboard bearing to support and align extended shaft. Drum shall deliver a variable cable speed of 0 to 54 feet per minute. Machine shall be direct drive with no couplings, belts, or chains on the drive section of the machine. Brakemotor shall be mounted directly to the gear reduction unit which shall incorporate a single solid steel shaft on its output to which the grooved steel drum shall be affixed. The solid steel shaft shall be supported by the gear reduction unit on one end and a flange bearing on its remaining end. Mechanism shall include an electronic frequency drive to provide variable speed and reversing action at any point along the travel and shall include four-button control station mounted on unit and one for use as a remote control. Control switch wiring shall be accomplished through a low voltage system running from the control box on the machine to the remote control station. Integral rotary limit switches shall be driven from output shaft of gear reduction unit. Machine shall be equipped with overload protective and electronic frequency drive protection. The entire mechanism shall be mounted on heavy steel base. Model 9507TV as manufactured by Automatic Devices Company of Allentown, PA.