Since 1982, SM Automatic has been manufacturing and distributing motors, motorized systems and controls for virtually all types of interior window treatments.

From our factory located in the Los Angeles area, our products are available through a national network of interior designs and window covering retailers, as well as architects and home automation integrators.

Please contact any one of these retail channels for pricing.

Importantly, our products should only be installed by a trained and qualified professional installer.
Basic Switching Control Terminology and Information Guide

Low Voltage Modular Switch (recessed wall installation)
Available with drapery motors only. A specially designed three button switch, open-stop-close, which allows direction reversal at any point. Low voltage switching connections are made, using RJ-11 modular cable, from the switching port of the motor to a modular wall jack (phone type); then inside the wall to the junction box containing the switch. Power to the motor is supplied by a 9 foot power cord.

Hard wired (HW)
All motors (except drapery motors and Model 9700) come with a 4 wire, 6 foot pigtail, consisting of a common, two directional wires and a ground. Used for wiring to a powered, SPDT (single-pole, double-throw) 110VAC switch. The motor’s pigtail is connected either by hard wiring or by plug/receptacle to an individual junction box. If more than one motor is controlled by a single switch, isolation (parallel) relays are required.

Hard wired with Isolation Relays (HW/ISO)
This variation of Hard Wiring is used when controlling two or more motors simultaneously from a single SPDT switch. Each motor pigtail (with relay incorporated) is connected either by hard wiring or by plug/receptacle to an individual junction box. The wiring from each junction box is connected from one to the next; with the wiring from the terminal junction box going to the switch.

Radio Frequency Wireless Remote Control (SMA-RF)
A radio frequency controlled system for most motors (except Model 9700). Transmitters are available to control from 1-24 motors, with individual, group and subgroup operation options. For Models 8000 and 9600, the RF receiver is concealed within the head rail, when ordered with the wireless remote control option.

Infrared Wireless Remote Control (SMA-IR)
The system is directional, digital coded and has a maximum range of 50 feet. Infrared systems are not subject to possible interference from outside sources, as is sometimes the case with radio frequency controls, but must have line of sight between the transmitter and sensor (sensors are available within or without a mounting case). Transmitters are available to control from 1-24 motors, with individual, group and subgroup operation options. A wide variety of configurations are possible, allowing for either individual or group operation; as well as auxiliary wall switches and control system interfaces. A receiving eye is plugged into the receiver using a modular cable, and takes it’s signal from the transmitter.

Radio Frequency Wireless Remote Control (RTS)
Radio Technology Somfy, provides a comprehensive method for radio frequency control of motorized systems, with cross platform control system integration. Available both as stand alone, single motor RF control, or as an integrated part of a whole house automated system.

Control System
Provides an interface with a home theater, multi-room control system, or whole-house automation system. For drapery motors interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) momentary dry contacts (switching contacts with no voltage inputted) are required for open-stop-close (two button) operation. Operation initiates with either the “Open” or “Close” contact, and a second action with either contact produces the “Stop” function. All other motors (except model 9700) use two (2) momentary dry contacts. All motors are fully compatible with control systems by AMX, Crestron Electronics, LiteTouch, Lutron Electronics, Phast, Control4 and Vantage Controls.
After 5 years of development, we are proud to bring you the most advanced drapery motors available.

Nothing else even comes close.

We took the award winning muscle of the 300 series drapery motors, and gave them a new brain, with electronics designed in the USA.

Control options include
Wall Switch - RF - RTS® - IR - Timer

Fully Compatible with most Wired and Wireless Home Automation Controls, including Lutron® & Crestron®

Motors assembled in the USA from components manufactured in the USA and Japan.

Powerful New Features:

**QuietSTOP**
In a significant enhancement of previous designs, the motor’s intelligent electronics anticipate limit positions, providing gentle and quiet stopping.

**OSP**
Optimum Stacking Positioning
No settings. No fuss.
Perfect appearance every time.

**REALSPEED**
Moving swiftly and quietly at 10”/second, draperies get to where they need to be, without the wait associated with belt drive motors.

**TRU_Load**
Load capacities of our motors do NOT decrease as the track size increases, as with many DC powered, belt driven motorized tracks.

Contact your Interior Designer or Window Covering Retailer for Pricing. Installation only by Experienced Professional Installers.
Direct Drive Drapery Motors

Direct drive motors are used in conjunction with roller tracks as part of a direct drive system. The motor attaches to the end of the track where a shaft on the motor fits into a pulley, which moves the cable and operates the track components. Available as a straight or curved system, with the operating cable strung on the inside of the track. The motor is flush with the front edge of all tracks. All direct drive drapery motors are Smart Motors, designed with electronic sensor limit switches, thereby eliminating installation adjustment. All motors are available with surface mount or recessed low voltage switches, infrared or radio frequency wireless remote control, or home automation systems. Drapery should be manufactured with a 3.5” return to cover motor projection and a 5” space between the last two pleats on return (motor) side. Drapery should not drag on the floor, or rub against pocket or valance.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Model 455</th>
<th>Model 470</th>
<th>Model 475</th>
</tr>
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<tbody>
<tr>
<td>Dimensions (H)x(W)x(D)</td>
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<td>6.41&quot; x 4.01&quot; x 2.75&quot;</td>
<td>6.41&quot; x 4.01&quot; x 2.75&quot;</td>
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<td>Track Compatibility</td>
<td>30, 90</td>
<td>30, 90</td>
<td>30, 40, 90</td>
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<td>4.6 lbs.</td>
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<td>115 VAC</td>
<td>115 VAC</td>
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<td>80 W</td>
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<td>Maximum Drapery Weight</td>
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<td>90 lbs.</td>
<td>175 lbs.</td>
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<td>Maximum Track Length</td>
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<td>65 ft.</td>
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<td>Traversing Speed</td>
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<td>10 in/sec</td>
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<tr>
<td>Thermal Overload</td>
<td>120°C</td>
<td>120°C</td>
<td>120°C</td>
</tr>
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</table>

Direct Drive Roller Tracks

90 Dual Channel Track

SM Automatic offers the Series 90 Dual Channel Track for pinch pleated draperies, as well as alternative Contemporary pleating styles, often referred to generically as S-fold or Z-fold.

Pinch pleated systems utilize 5/8” roller carriers for minimal stacking (which allows the option to hang the draperies below the track, or head up to conceal the track), while roller carriers (9/16”) have also been designed for Contemporary pleating applications, which guarantees smooth operation.

The aluminum track has a white finish. The maximum length of track without splice: 240”. Available as either ceiling or wall mount.

Contact your Interior Designer or Window Covering Retailer for Pricing. Installation only by Experienced Professional Installers.
Direct Drive Roller Tracks

30-VQ and 40-Z

The 30-VQ (Very Quiet) track is a breakthrough in combining noise reduction, durability and strength. Made from Hishimetal, the 30-VQ is formed by bonding high quality steel with layers of PVC, and coating with acrylic resin.

Assembled direct drive roller tracks include: cut-to-measure track, master carriers, roller carriers (3 per foot are standard, with extra carriers at additional cost), end pulleys, and plastic covered steel cable. Steel tracks are PVC coated inside and out. Roller tracks are also available as cord drawn and hand drawn. Since the draperies hang below the track, a recess or top treatment is strongly suggested. The maximum track width without splice is 226.5”.

30
Steel with white finish
Dimensions: 1.19” x .78” (30mm x 20mm)
Deduction for hanging below track: 1.25”
Plus floor clearance
Capacity: 11 lbs. per carrier

40
Steel with silver gray finish
Dimensions: 1.56” x 1.19” (40mm x 30mm)
Deduction for hanging below track: 1.50”
Plus floor clearance
Capacity: 33 lbs. per carrier

Cross sections of tracks shown actual size

Roller Track Master Carriers

90 Track, which now includes as standard, long arm overlap master carriers
- overlap: 5”
- underlap: 3.5”

30 Track with standard overlap master carriers
- overlap: 3.5”
- underlap: 3.5”

40 Track with standard overlap master carriers
- overlap: 5”
- underlap: 5”

Custom extended arms may be available. If required, call Customer Service for details.
The question we’re most often asked:

“Which is better, your cable drive AC motor, or your competitor’s belt drive DC motor?”

SM Automatic (SMA) offers AC drapery motors. SMA motors are internally driven by gears and windings, which provides strength and torque to the motor. Our drapery motors are assembled in America from components manufactured in America and Japan, by arguably the finest manufacturers of drapery motors and components in the world. AC motors start and finish with the same amount of power and torque. This is the ingredient that provides SMA motors the power to traverse heavy or light draperies, without diminishing capacities based on track length. It’s also the reason our motors offer consistent speed, regardless of track size.

DC motors have different internal mechanics, and therefore you compromise power, torque, speed, and consistency. DC motors do not typically maintain the same torque as a track lengthens. DC motors have confusing specifications, that often times are misleading. The weight capacity of the motor diminishes as the track lengthens. Furthermore, DC motors will often require the use of TWO motors, depending on drapery weight and track length, to match the capability of ONE SM Automatic AC drapery motor.

SMA uses plastic coated, aircraft grade steel cable, rather than a rubberized belt. The first and most important reason, is that our proprietary cable is reliable. SMA cable will stand the test of time, and does not easily break or stretch, similar to that of belts. Since our drapery motors are extremely strong, our direct drive drapery systems require a cable that can tolerate the torque of the motor, while at the same time, withstand the weight of the draperies. A belt does not provide these contingencies. Using an SMA cable driven system offers TRU_Load, and therefore you do not have to contend with the confusing weight capacity charts similar to that of belt driven systems. When our drapery motor spec states a weight capacity, it means it, regardless of the size of the track.

The “noise” of a belt, is typically the only argument against the SMA cable system. With that said, all of our drapery motors are available with the 30-VQ track. The 30-VQ (very quiet) track is a breakthrough in combining noise reduction, durability and strength. Made from Hishimetal, the 30-VQ is formed by bonding high quality steel with layers of PVC, and coating with acrylic resin. The sound decibel difference between belt and cable is virtually indistinguishable to most people, and the reliability of the cable in the long run far outweighs the minor difference in noise. After all, if cable is relied upon to hold up the Golden Gate Bridge, SMA cable can be called upon to traverse you motorized draperies for the long haul.

Another critical example of our system superiority, is found in the track components. We dare you to compare our carriers, pulleys and especially our master carriers, to ANY competitive DC motor, belt drive track. Our components were designed by craftsmen, with decades of drapery hardware experience, rather than lighting control, or other out-of-industry companies, which lack drapery hardware experience.

Maintain peace of mind, and provide your customers with the finest motorization available, by using SMA for all your motorization needs.

A simple visual to further demonstrate our cable vs. belt comparative advantage:

Where steel comes from

Where rubber comes from

Other uses for steel cable

Other uses for rubber

Which one do you think will give greater strength and durability to a motorized drapery track?
Direct Drive Drapery Systems

How to select the correct Direct Drive System for your specific requirements

1. Decide on the direct drive motor which best suits your needs, based on the actual weight of the draperies.
2. Choose the roller track which correlates with your project requirements. Criteria to be considered are: overall track size, stacking requirement, drapery pleating style, drapery weight, pocket or recess dimensions, and whether or not the draperies can hang below the track.
3. Refer to pricing on pages 8-10 to find the system cost according to size requirements.
4. Add control options as listed on pages 15-17, and described on pages 18-23.
5. All systems include motor, track and brackets. Switching controls must be ordered in addition.
6. If track is curved, refer to page 11 for additional information and costs.

Contemporary Pleating Information

- S - fold
  - 120% fullness - carriers spaced at 1.875” (4.25” snap tape)
  - 100% fullness - carriers spaced at 2.125” (4.25” snap tape)
  - 80% fullness - carriers spaced at 2.375” (4.25” snap tape)
  - 60% fullness - carriers spaced at 2.625” (4.25” snap tape)

- Z - fold
  - 120% fullness - 3.75” pleat (7.5” snap tape)
  - 100% fullness - 4.25” pleat (8.5” snap tape)
  - 80% fullness - 5” pleat (10” snap tape)

Draperies using Contemporary pleating must hang below the track.

Direct Drive Drapery Systems

Model 455
44 lb. capacity

System Designation
455/30 - Motor: 455 and Track: 30
455/90 - Motor: 455 and Track: 90

Model 470
90 lb. capacity

System Designation
470/30 - Motor: 470 and Track: 30
470/90 - Motor: 470 and Track: 90

Model 475
175 lb. capacity

System Designation
475/30 - Motor: 475 and Track: 30
475/90 - Motor: 475 and Track: 90
475/40 - Motor: 475 and Track: 40
Curved Direct Drive Drapery Systems

Curved systems are fabricated in the same way as straight systems, with the cable inside the track. Tracks may be either ceiling or wall mounted, and are available as motorized only.

Load capacities for curved systems are listed below. On tracks with acute angles, the minimum distance from the apex of the angle to end of track (motor side) is 24”. Please note that Model 455 is not available with curved tracks.

Maximum load capacities for curved systems using Series 90 Dual Channel Track

<table>
<thead>
<tr>
<th>Motor Load Capacity (lbs)</th>
<th>Motor Load Capacity (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>one curve</td>
<td>two curves</td>
</tr>
<tr>
<td>470</td>
<td>60</td>
</tr>
<tr>
<td>475</td>
<td>120</td>
</tr>
<tr>
<td>typical bay</td>
<td>continuous curves</td>
</tr>
<tr>
<td>470</td>
<td>70</td>
</tr>
<tr>
<td>475</td>
<td>140</td>
</tr>
</tbody>
</table>

Minimum Radius:
- 12 inches at 90 degrees
- 49 inches for continuous curves

Please note that reverse (“S”) bends are not available.

Load capacities shown above are approximate, and intended only as a guide.

Please contact Customer Service with specific dimensional track requirements, to determine which motor would be appropriate. It is also possible that one motor may not be sufficient, and a second motor may be required, thereby changing a center open track into two one way tracks. When applicable, two motors will still operate simultaneously by switch or remote.

Curved tracks consisting of 90 (right angle) or 135 degree (typical bay) angles are fabricated within the factory’s normal production schedule. Any other degree of curvature will require increased delivery time. Call the factory for specific lead times.

A template is required on curved tracks.

Making a template:
1. Piece together 12” wide butcher or craft paper to the width of the window or wall.
2. Tape the paper to the window sill or floor so that it laps up the window or wall a few inches.
3. Fold or crease the paper to match the contour of the curve.
4. Use a compass or scribe to track a line from the edge of the crease to designate the front edge of the track.
5. If there is another track on the same window, trace another line 3.25” from the inner track line to designate the front edge of the outer track.
6. Mark both ends of each track.
7. Mark the end where the motor is to be located.
8. Label the template as “top view” if it is made from the floor, or “bottom view” if it is made from the ceiling.
9. Label the template with your company name and sidemark.
Cord Drive Drapery Motor

The SM Automatic Model 5 motor represents a technological breakthrough in Cord Drive Drapery Motors.

This motor provides for the addition of motorization to existing draperies, as well as to new treatments; with the same advanced control options as our Direct Drive Motors.

When motorization is called for, this model offers an easy and inexpensive way to modernize and add convenience to any environment. Please note that electrical wiring requirements are different than previous SM Automatic Cord Drive Motors.

For light to heavy weight draperies, and designed to be used with cut-to-measure corded rods or track. Typically mounted on a wall directly (30 to 108 inches) beneath the rod. The cord feeds through the motor housing and loops around a drive wheel. The drive wheel turns clockwise or counter-clockwise, which causes the draperies to open or close.

Cord Drive Drapery Motors have internal limit switches, and are available with recessed or surface mount low voltage switches, or with wireless remote control (radio frequency or infrared). Also fully compatible with home automation systems.

*Cord Drive Drapery Motors will not operate properly with a curved rod.*

### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (H)x(W)x(D)</td>
<td>5.75&quot; x 5.70&quot; x 3.00&quot;</td>
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<tr>
<td>Weight</td>
<td>6.0 lbs.</td>
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<tr>
<td>Voltage</td>
<td>110 VAC</td>
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<tr>
<td>Amperage</td>
<td>0.6 A</td>
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<tr>
<td>Cycle</td>
<td>60 Hz</td>
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<tr>
<td>Wattage</td>
<td>66 W</td>
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<tr>
<td>Horsepower</td>
<td>0.09 hp</td>
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<td>Maximum Drapery Weight</td>
<td>100 lbs.</td>
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<tr>
<td>Minimum Drapery Weight</td>
<td>15 lbs.</td>
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<td>Maximum Track Length</td>
<td>40 ft. (center open)</td>
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<td>Maximum Track Length</td>
<td>20 ft. (one way)</td>
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<td>Traversing Speed</td>
<td>7 in/sec</td>
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<td>Thermal Overload</td>
<td>120°C</td>
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</table>

### Always use the proper cord

It is extremely important when using a cord drive motor, to use a non-stretch cord. If a cord is used that stretches, the motor will not operate properly. On rods 15 feet in width or less, use either PPV or Wire Center Cord. On rods over 15 feet, wire center cord is recommended. For optimum performance, use roller track such as SM Automatic 30, or 90, as shown on page 12.

Please consult the electrical/electronic options on pages 15-17, to order either the appropriate switch(es) or remote control options. Please refer to page 65 for ordering information and page 70 for installation guidance.
Draperies Motors Stacking Information

<table>
<thead>
<tr>
<th>To: (inches)</th>
<th>30 Track</th>
<th>40 Track</th>
<th>90 Track Pinch Pleat</th>
<th>90 Track Contemporary Pleat</th>
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<td>600</td>
<td>109.50</td>
<td>62.25</td>
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</tbody>
</table>

Drapery stacking is for hardware only, based on 3 carriers per foot, and may be greater depending on actual drapery fabric and fullness. These charts are approximations, and are meant to be used as guides only. Actual stacking dimensions may vary.

OW = one way draw total   CO = center open per side   Contemporary pleating roller carriers (100% fullness / 2.125” spacing)
Drapery Motors Electrical/Electronic Control Information

Low Voltage Modular Switch (recessed wall installation)
Available for drapery motors only. The switch conforms to a single gang junction box. Low voltage switching connections are made from the switching port of the motor to a modular wall RJ-11 jack (phone type) using a modular cable; then inside the wall to the junction box containing the switch. *The modular cable is nonstandard, and should be supplied by SM Automatic (see page 13).* Low voltage 4 conductor wire run within the wall is typically supplied by the electrician. Power to the motor is supplied by a 9 foot power cord. Electrical outlet and wall jack should be positioned behind drapery, typically 12” directly below motor.

The S-1DD, a hand held or surface mount version is also available. Switch is supplied with a 12 foot, low voltage cable, that plugs into a switching port of the motor.

Radio Frequency Wireless Remote Control (SMA-RF)
A radio frequency system which is controlled by a hand-held transmitter. It is omnidirectional, digital coded, and has a maximum range of 100’. Transmitters are available to control from 1-24 motors, with individual, group and subgroup operation options.

Infrared Wireless Remote Control (SMA-IR)
The system is directional, digital coded and has a maximum range of 50 feet. Infrared systems are not subject to possible interference from outside sources, as is sometimes the case with radio frequency controls, but must have line of sight between the transmitter and sensor. A transmitter is available to control from 1-24 motors, with individual, group and subgroup operation options.

Radio Frequency Wireless Remote Control (RTS)
Radio Technology Somfy, provides a comprehensive method for radio frequency control of motorized systems, with cross platform control system integration. Available both as stand alone, single motor RF control, or as an integrated part of a whole house automated system.

Control System
When interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) momentary dry contacts (switching contacts with no voltage inputted) are required for open-stop-close (two button) operation. Operation initiates with either the “Open” or “Close” contact, and a second action with either contact produces the “Stop” function.

As an alternative, and required when using the previous 300 series drapery motors, three (3) momentary dry contacts are required for full function open-stop-close (three button) operation.

All drapery motors are “Smart Motors,” designed with built-in logic boards. They are all fully compatible with all major control systems, including those manufactured by AMX, Crestron Electronics, LiteTouch, Lutron Electronics, Phast, Control4 and Vantage Controls.
Electrical/Electronic Control and Wiring

Information Legend

- S-300A Switch
- S-2DD Switch
- Modular Wall Jack (RJ-11)
- S-DEC2 Decora Paddle Switch
- Standard 110 volt Duplex Outlet
- Modular Cable (four conductor: 4/26)
- In-wall Modular Cable (four conductor: 4/26) (supplied by others)
- Radio Frequency Receiver
- Infrared Receiver
- Control System Interface
- Low Voltage SPDT Interface
- Infrared or Radio Frequency Receiver Keypad
- Automation Control System (supplied by others)
- Automation Control System User Interface (supplied by others)
Drapery Motors Electrical/Electronic Control and Wiring Information Guide

Switches

- S-300A White
- S-300A Ivory
- S-300B White
- S-300B Ivory
- S-1DD

Radio Frequency (SMA-RF) and Infrared Remote Control (SMA-IR)

- RF/IR-T1
- RF/IR-T2
- RF/IR-T4
- RF/IR-T12

Radio Frequency (SMA-RF) and Infrared Remote Control Keypads (SMA-IR)

- RF-K1 / IR-K1
- RF-K3 / IR-K3
- RF-K4 / IR-K4
- RF-K6 / IR-K6
- RF-K12 / IR-K12

Custom keypad configurations are available

Custom transmitter configurations are available

Contact your Interior Designer or Window Covering Retailer for Pricing. Installation only by Experienced Professional Installers.
Draperies Motors Electrical/Electronic Control and Wiring Information Guide

A. S-1DD Switch Individual Control
B. S-300A or S-2DD Switch Individual Control
C. Two S-300A or S-2DD Switch Individual Control
D. S-300A or S-2DD Switch Group Control

E. Individual and Group Switch Control

F. Individual Radio Frequency Remote Control
G. Individual Infrared Remote Control
H. Individual Remote Control with S-1DD Switch
I. Individual Remote Control with S-300A or S-2DD Switch
**Drapery Motors Electrical/Electronic Control and Wiring Information Guide**

**J.** Automation Control System

**K.** Automation Control System with Individual Remote Control and S-300A or S-2DD Switch

**L.** Individual and Group Automation Control System

**M.** Double Group Switch Control with S-300B or S-2DD2

Contact your Interior Designer or Window Covering Retailer for Pricing. Installation only by Experienced Professional Installers.
Drapery Motors Electrical/Electronic Control and Wiring Information Guide

N. Modular Wiring for Direct Drive Motors

<table>
<thead>
<tr>
<th>Wall Jack</th>
<th>S-2DD</th>
<th>S-300A</th>
<th>S-300B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black - Common</td>
<td>Red - Open</td>
<td>Green - Stop</td>
<td>Yellow - Close</td>
</tr>
</tbody>
</table>

Motor on right (standard)
Black - Common
Red - Open
Green - Stop
Yellow - Close

Motor on left (reversed)
Black - Common
Red - Close
Green - Stop
Yellow - Open

0. Modular Wiring for Model 5 Motors

P. Modular Wiring for Direct Drive Motors Connecting to Automation Control System

Modular RJ-11 Plug Connection
Black - Common
Red - Open
Green* - Stop
Yellow - Close

*Used only with in three contact configurations.
**One Stop Shop for Complete Systems - Including Shades and Blinds for:**

**Models 9300, 9600, 9700, 8000 and 7355**

You can buy your blinds and shades from another vendor, and install (or have us install) on our motorized system, or you can buy the complete system from us, including the blind or shade.

For years we’ve offered a full service roller shade program with room darkening and light filtering shades, and now we offer competitive prices on complete systems for:

- **Cellular Shades with Model 9600**
- **Silhouette, Pirouette and Vignette Shades with Model 9700 series**
- **1” and 2” Aluminum Horizontal Blinds (8 gauge) with Model 8000**
- **1” and 2” Basswood Horizontal Blinds with Model 8000**
- **Room Darkening and Light Filtering Skylight Shades with Model 7355**

While roller shade pricing can be found on pages 31-33, simply call for pricing on any of the blinds and shades shown above.

Wherever you see this icon, we can seamlessly provide you complete systems, with our One Stop Shop program.
Only at SMA, Will you get a
A Motorized Cellular Shade That’s
SMART!

Shade Motorized with Advanced Reaction Technology

Tired of motorized cellular shades with a broken lift tapes caused by the shade hitting an obstruction? You never will again. Guaranteed.

With the Smart® System...

Shade hits obstruction while lowering,
with SMART® System

Shade raised after hitting obstruction,
with SMART® System

Without it...

Shade hits obstruction while lowering,
without SMART® System

Shade raised after hitting obstruction,
without SMART® System

Contact your Interior Designer or Window Covering Retailer for Pricing. Installation only by Experienced Professional Installers.
Model 9600 Motorized Cellular Shade System

Specifically designed to lift cellular and pleated shades, the Model 9600 features a slim head rail; with the motor, all mechanical components, and even the optional wireless remote control electronics concealed within.

Conversion to a motorized system is made by attaching the standard shade head rail to the bottom of the Model 9600 head rail, and replacing the shade cords with a flat 2.6mm (1/10") ribbon tape.

With the Model 9600, even the very largest shades available can be effortlessly operated at the touch of a button. The system prices in the adjacent chart includes everything needed to motorize your COM shade, including conversion of your shade at our factory. When providing shades to SM Automatic for motorization, it is extremely important to have the shades fabricated according to the specification requirements below.

Standard Duette head rails are required. Easy-Rise, Ultra-Glide, and Easy-Glide head rails are not compatible with the Model 9600. For approximate stacking dimensions, add 2.5” to shade manufacturer’s manual shade stacking guide. The absolute minimum system width is 20” for Hardwired and 26” for Wireless.

---

Instructions for fabricating cellular and pleated shades for SM Automatic motorization using the Model 9600 lift system:

1. Fabricate the shade with standard top and bottom rails.
2. No cords or cord locks.
3. End route hole locations:
   a. End rout holes should be 10” in from ends on shades 48” or wider.
   b. End rout holes should be 6” in from ends on shades 28” to 47” wide.
   c. Call SM Automatic for additional instructions on shades 20” to 27” wide.
   d. The minimum size width is 20”.
4. Intermediate rout hole spacing:
   a. The minimum spacing requirement is 16”.
   b. Shades 48” and wider require standard spacing.
   c. Shades between 36” to 47” require a center rout hole.
   d. Shades under 36” only require end rout holes.
5. Provide mounting brackets. (Used to mount the shade to our head rail.)
6. Fabricate shades to finished length. Do not make deductions to length.
Model 9300 Series Lift Systems

Roman, Austrian, or balloon shades

The Model 9300 Series Lift System is designed to lift Roman shades, Austrian pouffes, balloon shades, solar screens, roller shades, woven woods, and other shade lifting applications.

The standard Model 9310/9320/9330/9340 system consists of a tubular motor concealed inside a 2 inch aluminum tube. The motor revolves the tube, clockwise and counterclockwise, by pivoting on end brackets. Easy to set limit switches allow for automatic stopping at top and bottom positions. The maximum rotations of the motor is 41 revolutions (26 feet of lifting).

The Model 9314 is essentially a compact version of the Model 9310. Rather than the 2” diameter tube used in the Model 9310, the Model 9314 uses a 1.5” (40 mm) aluminum tube. The Model 9314 may be ordered in place of the 9310, for any opaque or SheerWeave shade on these pages, up to a maximum size of 96” x 96”. When using with Roman style shades, the minimum size for the shade dust board is 1” x 3” (true). Maximum width is 96”. Center supports are not available.

Exclusive take-up reels are what separates the Model 9300 Series Lift System from other similar products. The reels were designed to be used with all types of shades that traditionally use cords. In place of the cords, a flat, 6mm (1/4”), tape is used.

Concealment of system is recommended by recessing in a pocket, or using a top treatment. If your treatment is a Roman shade, Austrian pouffe, balloon shade, or woven wood, concealment can be achieved by fabricating the shade on a 1” x 4” (true) dust board, and mounting the lift system to the bottom of a dust board. The minimum size dust board for a Roman, Austrian or balloon shade is 1” x 4” (a “true” 4” board, rather than one trimmed to 3.5” is recommended).

Basic system includes: motor, 2 inch diameter aluminum tubing, and brackets. Reels are not included in basic system. If you are ordering a system to be used with a treatment that requires reels, order the appropriate quantity of reels in relation to the manner in which the shade is manufactured. Refer to page 72 for installation guidelines.
Model 9300 Series Lift Systems

The Model 9300 Series Lift System is now available in a wider selection of motor choices, including RTS and Sonesse.

<table>
<thead>
<tr>
<th>Model</th>
<th>Load Capacity</th>
<th>RPM</th>
<th>Lifting Speed</th>
<th>Minimum Width</th>
<th>Tubing Options</th>
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<tbody>
<tr>
<td>9314</td>
<td>35 lbs</td>
<td>30</td>
<td>3 inch/sec</td>
<td>20.25&quot;</td>
<td>1.5&quot;/2.0&quot;/2.75&quot;</td>
</tr>
<tr>
<td>9314-Sonesse</td>
<td>35 lbs</td>
<td>36</td>
<td>5 inch/sec</td>
<td>22.25&quot;</td>
<td>1.5&quot;/2.0&quot;/2.75&quot;</td>
</tr>
<tr>
<td>9314-Sonesse/RTS</td>
<td>35 lbs</td>
<td>36</td>
<td>5 inch/sec</td>
<td>22.75&quot;</td>
<td>1.5&quot;/2.0&quot;/2.75&quot;</td>
</tr>
<tr>
<td>9324-Sonesse</td>
<td>50 lbs</td>
<td>24</td>
<td>2 inch/sec</td>
<td>22.25&quot;</td>
<td>1.5&quot;/2.0&quot;/2.75&quot;</td>
</tr>
<tr>
<td>9324-Sonesse/RTS</td>
<td>50 lbs</td>
<td>24</td>
<td>2 inch/sec</td>
<td>24.00&quot;</td>
<td>1.5&quot;/2.0&quot;/2.75&quot;</td>
</tr>
<tr>
<td>9310</td>
<td>35 lbs</td>
<td>38</td>
<td>5 inch/sec</td>
<td>22.75&quot;</td>
<td>2&quot;/2.75&quot;</td>
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<tr>
<td>9310-Sonesse</td>
<td>35 lbs</td>
<td>30</td>
<td>3 inch/sec</td>
<td>31.00&quot;</td>
<td>2&quot;/2.75&quot;</td>
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<tr>
<td>9310-Sonesse/RTS</td>
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<td>30</td>
<td>3 inch/sec</td>
<td>34.00&quot;</td>
<td>2&quot;/2.75&quot;</td>
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<td>9320</td>
<td>50 lbs</td>
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<td>5 inch/sec</td>
<td>24.00&quot;</td>
<td>2&quot;/2.75&quot;</td>
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<tr>
<td>9320-RTS</td>
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<td>5 inch/sec</td>
<td>26.75&quot;</td>
<td>2&quot;/2.75&quot;</td>
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<td>9330</td>
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<td>9330-RTS</td>
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<td>9340</td>
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<td>2&quot;/2.75&quot;</td>
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When using the Model 9300 Series Lift System for roller shades, the following information should be taken into consideration.

<table>
<thead>
<tr>
<th>Tube Diameter</th>
<th>Gap Motor End</th>
<th>Gap Idler End</th>
<th>Shade Deduction*</th>
<th>Maximum Width Single Piece</th>
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<tr>
<td>1.5&quot;</td>
<td>0.75&quot;</td>
<td>0.50&quot;</td>
<td>1.25&quot;</td>
<td>96&quot;</td>
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<tr>
<td>2.0&quot;</td>
<td>1.25&quot;</td>
<td>0.75&quot;</td>
<td>2.00&quot;</td>
<td>120&quot;</td>
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<tr>
<td>2.75&quot;</td>
<td>1.25&quot;</td>
<td>0.75&quot;</td>
<td>2.00&quot;</td>
<td>192&quot;</td>
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*The overall difference in width, between the shade and the bracket to bracket dimension.
**Room Darkening Roller Shades**

All systems (opaque and sun control) include Model 9300 Series Automatic Lift System (see page 29), fully assembled, with limit switches factory preset for proper shade finished length. When an order of multiple units (for the same room or area) contains any shade greater than 96” in width, all systems should be ordered with 2.75” diameter tubing, so that lifting speed is consistent.

**Vinyl Room Darkening** When room darkening is needed, an opaque treatment is required. This cloth is a 4 ply opaque: 1 ply fiberglass and 3 ply vinyl; and features characteristics of shade free opacity, easy washability, and long wear. Available in 4 different textured patterns, with up to 10 decorator colors per pattern. Permanent flame resistance qualities (meets federal government specifications CCC-C-52e). Weight: 12 ounces per square yard.

**Flocke Opaque** A textured, opaque roller shade fabric. Composed of 48% fiberglass and 52% acrylic, this fabric is the designer’s choice when it comes to opaque shades. Flocke’s attractive texture offers a decorative alternative to standard opaque shades. Flame resistance according to NFPA 701 Small Scale, NFPA 701 Large Scale, and U.S. California Title 19. Weight: 14.75 ounces per square yard.

**Light Control Roller Shades by Phifer**

SheerWeave® by Phifer fabrics are sunscreen shade materials made in the USA from a variety of weaves and color designs and are designed to diffuse light, reduce glare, control heat gain, and provide UV protection. All Phifer SheerWeave® fabrics are ISO certified and meet or exceed flame retardancy and bacteria/fungal resistant requirements. These fabrics are easy to maintain and can easily be cleaned using mild detergent. They are available in a variety of colors and openness factors. The openness factor (listed below by fabric in parenthesis) refers to the amount of light and heat allowed to enter thru the weave or mesh.

**Model 9300 with SheerWeave® 2000 / 2100**

SheerWeave Style 2000 (5%), 2100 (10%), fabrics are full basketweave sunscreen shades made from vinyl-coated fiberglass yarns. All SheerWeave 2000 fabrics are GreenGuard certified.

**Model 9300 with SheerWeave® 3000**

SheerWeave Style 3000 (14%) fabrics are sunscreen mesh shades made from vinyl-coated fiberglass and polyester yarns.

**Model 9300 with SheerWeave® 4000 / 4100 / 4400 / 4800 / 5000**

SheerWeave Style 4000 (5%), 4100 (10%), & 4400 (3%), fabrics are sunscreen mesh shades made from vinyl-coated fiberglass and polyester yarns. Style 4800 (1%) fabrics are sunscreen mesh shades designed with privacy in mind and offers maximum UV blockage made from vinyl-coated polyester yarns. Style 5000 (vary from 5-10%) fabrics are sunscreen mesh shades designed with unique nature inspired weaves.

**Light Control Roller Shades by 3G Mermet**

3G Mermet fabrics are sunscreen shade materials made from vinyl-coated fiberglass yarns in a variety of weaves and color designs and are designed to diffuse light, reduce glare, control heat gain, and provide UV protection. All 3G Mermet fabrics are ISO certified and meet or exceed flame retardancy requirements. These fabrics are easy to maintain and can easily be cleaned using mild detergent. They are available in a variety of colors and openness factors (listed below by fabric in parenthesis).

**Model 9300 with 3G E-Screen® or M-Screen®**

E-Screen Style 7501 (1%), 7503 (3%), 7505 (5%), & 7510 (10%), sunscreen mesh shades are made from vinyl-coated fiberglass yarns. All E-Screen fabrics are GreenGuard certified.

M-Screen Style 8503 (3%) & 8505 (5%) sunscreen mesh shades are made from vinyl-coated fiberglass yarns. All M-Screen fabrics are GreenGuard certified.
Model 9300 Roller Shades using Phifer SheerWeave or 3G Mermet Fabric
Model 9300 with Light Control Roller Shades

Phifer SheerWeave®
Style 2000/2100

- P02 White
- P04 White/Bone
- P05 White/Platinum
- Q05 Bone
- Q06 Bone/Platinum
- Q10 Bronze

- V04 Platinum
- V21 Charcoal
- V22 Charcoal/Gray
- V24 Charcoal/Chestnut

Fabrics and colors are subject to change without notice.
Please confirm availability prior to placing an order.

Phifer SheerWeave®
Style 3000

- P00 Spanish Gray
- P01 Pearl White
- Q01 Mushroom Sand
- Q02 Custard Cream
- Q04 Chocolate
- Q17 Sand Dollar

- Q18 Espresso
- Q19 Honey Sage
- V00 Dusty Grey
- V01 Pale Grey
- V02 Ninja Grey
- V18 Mossy Green

Contact your Interior Designer or Window Covering Retailer for Pricing.
Installation only by Experienced Professional Installers.
**Model 9300 with Light Control Roller Shades**

**Phifer SheerWeave**

**Style 4000/4100/4400**

P06 Chalk  
P07 Alabaster  
P10 Granite  
Q12 Pebblestone  
Q15 Greystone  
Q16 Tobacco  

V07 Pewter  
V10 Ebony  
V15 Ash  

**Phifer SheerWeave**

**Style 4800**

P06 Chalk  
P07 Alabaster  
P75 Pearl  
Q97 Sand  
Q98 Mocha  
Q99 Taupe  

V10 Ebony  
V16 Grey  
V59 Fleece  

V60 Clay  
V61 Mink  
V62 Flint
Model 9300 with Light Control or Room Darkening Roller Shades

**Phifer SheerWeave® Style 5000**

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>P59</td>
<td>Bamboo Whitewash</td>
</tr>
<tr>
<td>P60</td>
<td>Bamboo Birch</td>
</tr>
<tr>
<td>Q06</td>
<td>Bone Platinum</td>
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<tr>
<td>Q43</td>
<td>Marble Sand</td>
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<tr>
<td>Q45</td>
<td>Moire Leather</td>
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<tr>
<td>Q46</td>
<td>Bamboo Wheat</td>
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<tr>
<td>Q47</td>
<td>Moire Mocha</td>
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<td>Q48</td>
<td>Bark Cedar</td>
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<tr>
<td>Q49</td>
<td>Rattan Umber</td>
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<tr>
<td>Q50</td>
<td>Bark Tiger Oak</td>
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<tr>
<td>Q51</td>
<td>Wicker Mushroom</td>
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<tr>
<td>Q52</td>
<td>Marble Slate</td>
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<td>Q53</td>
<td>Honeycomb Brown</td>
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<td>Q93</td>
<td>Cane Golden Straw</td>
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<td>Tweed Oatmeal</td>
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<td>Q95</td>
<td>Tweed Buckeye</td>
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<tr>
<td>Q96</td>
<td>Thatch Wheatgrass</td>
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<tr>
<td>V21</td>
<td>Charcoal</td>
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**Phifer SheerWeave® Style 7000**

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<tbody>
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<tr>
<td>P63</td>
<td>Birch</td>
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<td>P64</td>
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<td>Q57</td>
<td>Wheat</td>
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<td>Q58</td>
<td>Mushroom</td>
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<tr>
<td>V39</td>
<td>Graphite</td>
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<tr>
<td>V40</td>
<td>Onyx</td>
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<tr>
<td>V41</td>
<td>Canyon</td>
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</table>

Fabrics and colors are subject to change without notice.

Please confirm availability prior to placing an order.
Model 9300 with Light Control or Room Darkening Roller Shades

3G Mermet E-Screen and M-Screen

<table>
<thead>
<tr>
<th>Color Code</th>
<th>Color Description</th>
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<tbody>
<tr>
<td>0202</td>
<td>White/White</td>
</tr>
<tr>
<td>0207</td>
<td>White/Pearl</td>
</tr>
<tr>
<td>0220</td>
<td>White/Linen</td>
</tr>
<tr>
<td>0707</td>
<td>Pearl/Pearl</td>
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<tr>
<td>0720</td>
<td>Pearl/Linen</td>
</tr>
<tr>
<td>2020</td>
<td>Linen/Linen</td>
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<tr>
<td>2022</td>
<td>Linen/Stone</td>
</tr>
<tr>
<td>3001</td>
<td>Charcoal/Grey</td>
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<tr>
<td>3006</td>
<td>Charcoal/Bronze</td>
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<tr>
<td>3030</td>
<td>Charcoal/Charcoal</td>
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</table>

M-Screen is also available in additional colors.

3G Mermet Flocke

<table>
<thead>
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<th>Color Description</th>
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<tr>
<td>603</td>
<td>Beige</td>
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<tr>
<td>606</td>
<td>Noir</td>
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<td>Chartreux</td>
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<td>Loutre</td>
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<td>Petrole</td>
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<td>625</td>
<td>Coraline</td>
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<td>626</td>
<td>Angora</td>
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</table>
Motorized Silhouette®, Pirouette® and Vignette® Shades

Model 9700 Series Motorized System

The Model 9700 series is specifically designed for motorizing COM Hunter Douglas Silhouette®, Pirouette® and Vignette® shades.

The Model 9723 utilizes a small, but strong 12vDC motor, operating either 2” or 3” shades that weight up to 11 lbs (9 lbs with the battery version).

The Model 9704, uses a slightly larger 24vDC motor, with an amazing capacity of 19 lbs.

Order your shades directly from Hunter Douglas, and send them to us for the addition of motorization. Shades from virtually any collection can be motorized.

When using the shade ‘Two on One” option, two motors are required.

<table>
<thead>
<tr>
<th>Model</th>
<th>Shade Type</th>
<th>Minimum Shade Width</th>
<th>Maximum Shade Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>9723-RTS</td>
<td>2” &amp; 3”</td>
<td>12.5”</td>
<td>11 lbs</td>
</tr>
<tr>
<td>9723-RTS_BATT</td>
<td>2” &amp; 3”</td>
<td>12.5”</td>
<td>9 lbs</td>
</tr>
<tr>
<td>9704-RTS</td>
<td>4”</td>
<td>18.5”</td>
<td>19 lbs</td>
</tr>
</tbody>
</table>

A. Model 9723-RTS for 2” and 3” Silhouettes

B. Model 9723-RTS_BATT for 2” and 3” Silhouettes

C. Model 9704-RTS for 4” Silhouettes

Model 9700 Electrical/Electronic Information

The electrical requirements for the Model 9700 is unique among all the other systems in this price list. It is the only “low voltage” motor we offer. Power is supplied by either a plug-in transformer (Models 9723-RTS and 9704-RTS / see diagrams A and C), or battery pack (Model 9723-RTS_BATT / see diagram B).

Control options are found in the RTS section.
Motorized Shades for Skylights

Model 7355
Motorized System

The Model 7355 consists of two parallel mounted, direct drive drapery tracks; utilizing two Model 455 motors and accompanying series 90 Dual Channel Track.

Roller snap carriers have been incorporated, making shade fabrication with corresponding snap tape simple.

This system conforms to all wiring information for Direct Drive Drapery Systems, and can be controlled by switch, SMA-RF or RTS-RF radio frequency, infrared wireless remote control, or home automation systems.

Shades are fabricated similar to Roman shades. A pocket is formed every 10” to incorporate wooden slats, which creates rigidity.
Motorized Vertical Systems

Model 5100 Motorized Vertical

This system utilizes a single 110VAC motor to operate both tilt and traversing functions. While the motor is relatively small, it will handle up to 70 pounds of vane weight.

The system may be ordered with the motor mounted to the rear of the track at either end. The maximum allowable vane weight per carrier is 1.5 pounds each. The maximum number of carriers per track is 60. The maximum recommended track size using 3.5” vanes is 180”.

The system features an anodized aluminum head rail, with spring-loaded, individual clutch control carriers. Vanes of 3.5” and 5” can be accommodated. Wall mounting brackets with projections for the appropriate vane size are included in the system price (one for each 24 inches). When the track is to be ceiling mounted, the track is pre drilled for mounting screws to pass directly through the track.

It is very important that the standard punch in the top of the vane fit the carrier properly. Vertical vane fabricators use a variety of punches, so contact SM Automatic for compatible vane information. Vanes are not included with the system.
Model 8000 Horizontal Blind Lift and Tilt System

The horizontal blind lift and tilt system features a single 110VAC motor for both functions. A 2.5” x 2.5” head rail (192” maximum width) is used to contain a motorized shaft and reel system that effortlessly lifts up to 200 square feet of aluminum slats with a flat tape, rather than cords.

Available for 1” or 2” aluminum slats or 2” wood slats. Limit switches are adjustable for top and bottom positions. Your COM blind is integrated into the Model 8000 system. Perforated slats cannot be motorized. Note that just as with manual blinds, any blind over 120” in length will not have complete tilt closure.

The Model 8000 is compatible with either the S-5 (or S-DEC5) five position (center off) combination momentary-maintained switch, infrared or radio frequency wireless remote control (receivers concealed within head rail) or home automation systems.

For approximate stacking dimensions, add 2” to blind manufacturer’s manual blind stacking guide.

Instructions for fabricating horizontal 1” or 2” aluminum blinds or 2” wood blinds for SM Automatic motorization, using the Model 8000 lift and tilt system.

1. Must add 8” to finished length. This is necessary when motorizing blinds.
2. End route hole/ladder locations:
   a. End route holes should be 6” in from ends on blinds 28” or wider.
   b. Contact SM Automatic for instructions on blinds 20” to 27” wide.
   c. The minimum size width is 20” and the maximum is 196”.
   d. Slats must be punched on center for lift lines. Slats punched at edge cannot be used.
3. Intermediate ladder spacing:
   a. The minimum spacing requirement between ladders is 17”.
   b. Blinds 48” & wider require standard spacing.
   c. Blinds between 36” to 47” require a center ladder.
   d. Blinds under 36” only require end ladders.
4. Lift lines are required at each ladder. This is necessary when large blinds are motorized.
5. Cords right, tilt wand left.

CAUTION: The operation of the motorized blind requires that there are no obstructions whatsoever to hinder the upward or downward movement of the blind. Any obstruction that impairs the blind’s movement (window or door handle, furniture, narrowing of window frame, etc.) may seriously damage the system, and require that the system be returned to the factory for repair.

Brackets may be either ceiling or wall mounted. Bracket type F shown above. Additional bracket styles are available.
Radio Technology Somfy (RTS) is a secure radio control system for the residential, commercial and hospitality markets. It offers a high performance, reliable and convenient wireless solution for motorization and automation, significantly reducing the wiring requirements. Wireless controls mean fast, easy installation with minimal impact on the building structure.

With the exclusive SMA-RTS receiver, the RTS control platform now extends across the entire spectrum of our product line, and is available for every drapery, blind and shade application.
Basic Electrical Wiring Information and Diagrams
for Models 5100, 8000, 9600 and 9300 Series

Hard wiring (HW)
All motors come with a 4 wire 18 gauge grounded pigtail. This consists of a neutral, two directional wires, and a ground. This type of wiring is used when the motor is to be controlled by a recessed wall switch. The pigtail is connected by either hard wiring or a plug/receptacle. A single motor is controlled by an SPDT (single pole, double throw) switch. Two motors can be controlled together by a DPDT (double pole, double throw) switch. When more than two motors are to be controlled by a single switch, isolation (parallel) relays are required for each motor.

Hard wiring with Isolation (Parallel)
Relays (HW/ISO)
This variation of hard wiring is used when controlling two or more motors simultaneously from a single SPDT switch. Each motor’s pigtail (with relay incorporated) is connected either by hard wiring or by plug/receptacle to an individual junction box. The wiring from each junction box is connected from one to the next; with the wiring from the terminal junction box being connected to the switch. Ten motors are the maximum to be operated by one, 15 amp switch.

SMA-RF Wireless Remote Control
A radio frequency system which is controlled by a hand-held transmitter. It is omnidirectional, digital coded, and has a maximum range of 100’. Transmitters are available to control from 1-24 motors, with individual, group and subgroup operation options.

RTS-RF Wireless Remote Control
Radio Technology Somfy, provides a comprehensive method for radio frequency control of motorized systems, with cross platform control system integration. Available both as stand alone, single motor RF control, or as an integrated part of a whole house automated system.

SMA-IR Wireless Remote Control
The system is directional, digital coded and has a maximum range of 50 feet. Infrared systems are not subject to possible interference from outside sources, as is sometimes the case with radio frequency controls, but must have line of sight between the transmitter and sensor. Transmitters are available to control from 1-24 motors, with individual, group and subgroup operation options.

Control System Interface
When interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) momentary dry contacts (switching contacts with no voltage inputted) are required.

Electrical wiring required for either SMA-RF, SMA-IR, or RTS wireless remote control, is a standard 110 vac duplex electrical outlet.
Switch and Transmitter Options for Models 5100, 8000, 9600 and 9300 Series

Wall Switches
- S-DEC2 Almond
- S-DEC1 Ivory
- S-DEC3 White
- S-DEC5

Radio Frequency and Infrared Remote Control
- RF/IR-T1
- RF/IR-T2
- RF/IR-T4
- RF/IR-T12

Radio Frequency and Infrared Remote Control Keypads
- RF-K1 / IR-K1
- RF-K3 / IR-K3
- RF-K4 / IR-K4
- RF-K6 / IR-K6
- RF-12 / IR-K12

Custom transmitter and keypad configurations are available by special order.
**Electrical/Electronic Control and Wiring Legend**

- **S-DEC2 Decora Paddle Switch**
- **S-DEC1 Decorator Toggle Switch**
- **S-DEC5 Decora 5 Position Switch** (for Model 8000 only)
- **Modular Wall Jack (RJ-11)**
- **Modular Wall Jack Double (RJ-11)**
- **Standard 110 volt Duplex Outlet**
- **Modular Cable (four conductor: 4/26)**
- **In-wall Modular Cable (four conductor: 4/26)** (supplied by others)
- **Radio Frequency Receiver**
- **Infrared Receiver**
- **Control System Interface**
- **Infrared or Radio Frequency Receiver Keypad**
- **Automation Control System** (supplied by others)
- **Automation Control System User Interface** (supplied by others)
**Electrical Wiring Diagrams for Models 5100, 8000, 9600 and 9300 Series**

A. Hard wired Individual SPDT Control

![Diagram A](image1.png)

Optional Hard wiring Plug and Receptacle (PR)

![Diagram PR](image2.png)

B. Hard wired Group Control using Isolation (parallel) relays

![Diagram B](image3.png)

C. Individual Radio Frequency Remote Control

![Diagram C](image4.png)

D. Individual Radio Frequency Remote Control with SPDT switch

![Diagram D](image5.png)

E. Individual Infrared Remote Control

![Diagram E](image6.png)

F. Individual Infrared Remote Control with SPDT switch

![Diagram F](image7.png)

Remote control receivers, relays and low voltage interfaces, are located inside the head rails on models 9600 and 8000; and are external on models 5100 and 9300 series motors.
Electrical Wiring Diagrams for Models 5100, 8000, 9600 and 9300 Series

G. Automation Control System

H. Automation Control System with SPDT Switch

I. Automation Control System with Infrared (or Radio Frequency) Remote Control

J. Automation Control System with Infrared (or Radio Frequency) Remote Control and SPDT Switch

K. Modular Wiring for Automation Control System

<table>
<thead>
<tr>
<th>Modular RJ-11 Plug Connection</th>
<th>1-Yellow</th>
<th>2-Green</th>
<th>3-Red</th>
<th>4-Black</th>
</tr>
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<tbody>
<tr>
<td>Yellow - Down Direction</td>
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<tr>
<td>Green - Common (common to Yellow)</td>
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<tr>
<td>Red - Up Direction</td>
<td></td>
<td>2-Green</td>
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<tr>
<td>Black - Common (common to Red)</td>
<td>1-Yellow</td>
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</tbody>
</table>

SMA-RF and SMA-IR remote control receivers, relays and low voltage interfaces, are located inside the head rails on models 9600 and 8000; and are external on models 5100 and 9300 series motors (except 9300-RTS).
Electrical Wiring Diagrams for Models 5100, 8000, 9600 and 9300 Series

L. Individual and Group Infrared Remote Control with Keypad

Remote control receivers, relays and low voltage interfaces, are located inside the head rails on models 9600 and 8000; and are external on models 5100 and 9300 series motors.
Electrical Wiring Diagrams for Models 5100, 8000, 9600 and 9300 Series

M. Control System Interfaces Installed within a Centralized Control Panel

110VAC Line in
CSIs Installed in Control Panel
Low Voltage Cable
Electrical Wiring Diagrams for Models 5100, 8000, 9600 and 9300 Series

N. Individual and Group Infrared Remote Control with Automation Control System

O. Model 9300 series motor and Drapery Motor, with Automation Control System and SPDT Switch

Important Information Regarding Radio Frequency Interference

All radio frequency (RF) wireless remote control systems are subject to radio wave interference. When present, RF interference may be constant or intermittent.

According to FCC regulation, equipment used for RF wireless remote controlled window treatments, must follow these guidelines:

“Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) this device must accept any interference that may be received, including interference that may cause undesired operation.”
When interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) momentary dry contacts (switching contacts with no voltage inputted) are required for open-stop-close (two button) operation. Operation initiates with either the “Open” or “Close” contact, and a second action with either contact produces the “Stop” function.

As an alternative, and required when using the previous 300 series drapery motors, three (3) momentary dry contacts are required for full function open-stop-close (three button) operation.

All drapery motors are “Smart Motors,” designed with built-in logic boards.

They are all fully compatible with all major control systems, including those manufactured by AMX, Crestron Electronics, LiteTouch, Lutron Electronics, Phast, Control4 and Vantage Controls.
When interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) momentary dry contacts are required. Operation initiates with either the “Open” or “Close” contact, and a second action with either contact produces the “Stop” function.

When interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) momentary dry contacts are required. Operation initiates with either the “Open” or “Close” contact, and a second action with either contact produces the “Stop” function.

When interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) SETS of momentary dry contacts are required. One set of contacts for “tilting” function must have timed contacts of less than 1.5 seconds. The second set of contacts for “lifting” function must have a timed contact of more than 1.5 seconds.

Modular Wiring for Shades and Blinds Connecting to an Automation Control System

Modular RJ-11 Plug Connection

Yellow - Down Direction
Green - Common (common to Yellow)
Red - Up Direction
Black - Common (common to Red)
FAQ – Frequently Asked Questions

Drapery Motors
Model 400 Series Direct Drive

Q: What is the difference between the model 455, 470 and 475 motors?
A: The only difference is the load capacity.

Q: Which motor is best?
A: The best motor is whichever is best for any specific job. The quality is the same, so simply match the motor to the actual weight of the drapery.

Q: What is the difference between the 30, 40 and 90 tracks?
A: The 30 and 40 tracks are single channel roller tracks for pinch pleat draperies only, where the drapery must hang below the track. The 90 is a dual channel track, where the drapery can head up (cover the track) with pinch pleated draperies; and is also available with alternative Contemporary pleating styles, often generically referred to as S-fold or Z-fold (both of which hang below the track).

Q: Does it matter if the draperies drag on the floor, or rub against the valance or soffit?
A: Both of those conditions can adversely impact the performance of the motor, therefore, care should be taken to make sure neither condition exists.

Q: Which track can I use for pinch pleated draperies?
A: 30, 40 or 90.

Q: Which track can I use for S-fold or Z-fold draperies?
A: Only the 90.

Q: Is the drapery stack for Contemporary Pleating styles less than for a pinch pleated drapery?
A: Typically no, it isn’t. We have reduced the carrier size for pinch pleated drapery to make it much more reasonable; while our “roller” carrier for S-fold or Z-fold has a greater dimension than the standard “slide” carrier - but much better performance. (refer to stacking chart on page 14)

Q: Which track can be curved?
A: Only the 90.

Q: Are there any configurations that cannot be curved?
A: Virtually any simple curve can be fabricated. Compound curves (“S” curves) or reverse curves cannot be made.
Q: What is the minimum width (front to back) for a pocket (soffit)?
A: 5” is the recommended minimum for a single track, and 10” for a double treatment.

Q: Can the tracks be recessed?
A: The 30 and 40 tracks can be recessed, but recessing the 90 is not recommended. A recess to accommodate the 30, and 40 tracks must also account for the drive pulley (3” x 7”) at the motor end, and the adjuster pulley (track width plus 0.25” x 7”) at the non-motor end. Because the 90 is a dual channel track, with the master carriers protruding out the rear channel, a minimum recess of 1.5” (front to back) is required for the entire length of the track.

Q: Can the direct drive drapery motors be hard wired to a 110vac switch?
A: No. All drapery motors are switched with low voltage control wiring.

Q: Where should the electrical be installed?
A: The objective should be to have the electrical outlet (and wall jack when applicable) near the motor, but still concealed by the stack of the draperies. Typically, placement 12”-18” below the track, and 6”-12” from the end of the track will accomplish this.

Q: Can these motors be both switch and remote controlled?
A: Yes. Control options are virtually endless. Any of these motors can be controlled by any or all of the following: wall switch, radio remote control, infrared remote control, timer, automation control system.

**Drapery Motors**

**Model 5 Cord Drive**

Q: What is the difference between a cord drive and direct drive drapery motor?
A: A cord drive motor mounts on the wall, typically 3’-9” below the end of the track, and operates the cord of the rod or track. A direct drive motor is attached to the track, and is fabricated as a complete motor and track system.

Q: Can a cord drive motor be used with a curved track?
A: No, straight rods or track only, since the motor limit electronics are not designed for the variations present with curved rods.

Q: Can I use a Model 5 to replace an older version (models 2 or 4) of the cord drive motor without doing new electrical wiring?
A: Yes, if the older motor was remote controlled. If the older motor was switch controlled, new low voltage wiring (from motor location to switch) will be required, as well as a standard 110vac outlet.

Q: Do I restring an existing drapery rod if I install a cord drive motor?
A: Check the existing cord to see if it is either wire center (#3-3/4) or SM PPV cord; if not, then the rod needs to be restrung.
FAQ - Frequently Asked Questions

Model 9600 System for Shades

Q: What is the Smart System?
A: The SM Automatic exclusive Smart System, is a major breakthrough in technology, which prevents obstruction related lift tape failure, when the shade is lowering. Whereas, with other similar systems by other manufacturers, a simple one time obstruction can completely disable a motorized shade system, resulting in a mandatory return to the manufacturer for repair.

Q: What is the smallest shade I can motorize?
A: For hard wired (switch controlled) systems the minimum is 20”. For remote controlled systems, the minimum is 26” for a radio frequency or infrared.

Q: What is the largest shade I can motorize?
A: We will motorize the largest shade that a manufacturer will make.

Q: Where is the motor located?
A: The motor is encased within the SM head rail. This head rail measures 2.625” x 2.625”, and in addition to the motor, contains any control electronics (remote control receiver or relays) as well as the operational assembly. The standard cellular shade head rail is attached to the bottom of the motorized head rail.

Q: Will the motorized head rail color match the shade?
A: There are five head rail colors (white, alabaster, black, dark brown, and gray) to choose from, but with the hundreds of shade colors available, an exact match is unlikely.

Q: Can I motorize an existing shade?
A: Usually you can, but you will need to talk to our customer service department, and provide the size of the existing shade, as well as the exact locations of the existing lift cords, to receive a definite answer.

Q: What is the minimum pocket (soffit) size (front to back) for the Model 9600?
A: We recommend 4”-5”, with 3.5” as an absolute minimum.

Q: Can the Model 9600 be battery operated?
A: No. The Model 9600 requires 110VAC.

Q: How does the Model 9600 compare to battery or low voltage motors?
A: The Model 9600 is infinitely more sophisticated and heavier duty than a battery or low voltage system. With a battery or low voltage motor, there are significant restrictions in available shade sizes, while the Model 9600 can handle shades deemed both too small and too large by the others. Further, because of the heavy duty nature of the Model 9600 motor, you can expect a much longer service life than for the alternatives.
**Model 9300 Series for Shades**

Q: **What is the smallest (width) Model 9300 series available?**
A: The minimum bracket to bracket dimension is 22.75” for Models 9310/9320/9330/9340, and 20.25” for Model 9314.

Q: **What is the smallest width shade I can motorize?**
A: The smallest Roman style shade would be the same as the bracket to bracket size (see above). While the smallest roller style shade using a 2” tube would be 20.75” (22.75” less deduction for brackets); or 19” for Model 9314.

Q: **What is the largest (width) Roman style shade that can be motorized?**
A: The Model 9300 series will handle any shade size up to the load capacity of the specific motor. Therefore, weight, not size, is the limiting factor. A shade length of approximately 30’ (using multiple center supports) is normally considered the maximum.

Q: **What is the largest roller style shade that can be motorized?**
A: There are some limitations by fabric type, but generally, 16’ (using 2.75” tubing) is considered to be the maximum width and height for a single roller shade.

Q: **Why use lifting tape, rather than standard cords, for Roman style shades?**
A: Using lifting tape that rolls uniformly on take up reels, guarantees even and level shade operation. Using the standard cords to roll up on the motorized tube will not do that, and virtually assures that the bottom of the shade will rarely be level.

Q: **What is the size of the lifting tape, and what is it made of?**
A: The tape measures 6mm (0.25”) in width, and is made from polypropylene. It’s very strong, and will not stretch.

Q: **Are there color options of the lifting tape?**
A: The 6mm tape is available in white only.

Q: **How do I fabricate a Roman style shade that is going to be motorized?**
A: The shade should have a 4” header (dust board) for models 9310-9340, and a 3” header for model 9314. Normally, we request that the shade have the first column of rings or grommets in no less than 2” from either edge (and 5” below dust board); with remaining columns spaced at your workroom’s preference.

Q: **How much of a bracket gap is there when motorizing a roller shade?**
A: The minimum gap dimension is determined by the tube used, as follows:

1.5” tube has a 0.75” gap on motor side and 0.5” on idler side

2” tube has a 1.25” gap on motor side and 0.75” on idler side

2.75” tube has a 1.25” gap on motor side and 0.75” gap on idler side
FAQ – Frequently Asked Questions

Model 9300 Series for Shades (continued)

Q: What is the minimum soffit dimension for a roller shade?
A: Minimum dimensions are determined by the shade size, as follows:
   4” x 4” for a shade up to 10’ wide and 8’ long
   5” x 5” for a shade 10’-16’ wide and 8’ long
   6” x 6” for a shade 10’-16’ wide and up to 16’ long

Q: What spacing do I use for take up reels with a Roman shade?
A: While typical spacing is 10”-16”, use whatever spacing you normally would for a manual shade.

Q: Do I need to know where the exact reel location when I place an order?
A: No, since the placement of the take up reels are fully and easily adjustable on the tubing. You simply line up
   the reel with the columns of rings or grommets, and tighten the set screw.

Q: What is the minimum size of the end section (motor side), for a bay window system?
A: The minimum dimension is 28” from the motor bracket to the center of the angled connector. If you require
   less than 28”, the Model 9600 can be made to fit smaller shades. Please call our Customer Service
   department for further information.

Model 8000 Lift and Tilt Horizontal Blind System

Q: Does the Model 8000 have the Smart System like the Model 9600?
A: Unfortunately, the Smart System is not available for the Model 8000. This is due to the tape slack necessary
   for a system that tilts, which defeats the sensing mechanism of the Smart System.

Q: What is the smallest and largest size limits for motorizing horizontal blinds?
A: The minimum widths are 20” (for hard wired) and 30” (for remote controlled). The largest width is
   192”, but in practicality it’s determined by the blind manufacturers, which typically have maximum widths of
   142” for metal blinds, and 96” for wood.

Q: If I have an area greater than can be covered by a single blind, due to blind manufacturer limitations, can you fabricate multiple blinds on one head rail?
A: Yes, realizing that all blinds on a single Model 8000 head rail will operate simultaneously from one motor.
   And note that there is an additional charge for this type of fabrication.
Q: What is the maximum length of motorized blinds?
A: The maximum length is 16’; however, be aware that as with manual blinds, there is less than full tilt closure on any blind over approximately 10’ in length.

Q: Can the Model 8000 motorize all horizontal blinds?
A: All blinds that are typically manufactured (as manual blinds) with lift cords passing through slat punches centered (front to back) in the slat material can be motorized. Off centered, angled slats, and those blind types with no cord punches (or unusually small punches) cannot be motorized.

Q: Since there are two functions (lift and tilt), what kind of wall switch would I use?
A: There is a special, 5-position switch (S-5 or S-5DEC) used only for the Model 8000. This switch is combination momentary (for tilting) and maintained (for lifting), which makes operation both precise and simple.

Model 5100 Vertical Blind Systems

Q: What is the maximum size for a Model 5100?
A: The 5100 has a maximum width of 180” for 3.5” vanes.

Q: What type of remote control should I use with a Model 5100?
A: Both infrared and radio frequency systems work with the Model 5100.

Q: Are all vanes compatible with the Model 5100?
A: Typically, yes. However, vertical vane manufacturers do change their specifications from time to time, and we recommend that you check with our customer service on a case by case basis.

Q: Since I will be ordering the vanes from a vertical blind manufacturer, what deduction do I take?
A: The head rail deduction for the 5100 is 2.5”, plus floor clearance.

Model 9700 Motorized Shade Systems

Q: What headrail is used?
A: We implement our motor into the existing shade cassette.

Q: What control options are available?
A: Silhouettes are RTS controlled.

Q: What brackets are used?
A: Standard brackets as provided by shade manufacturer.
FAQ – Frequently Asked Questions

Control Issues

Q: **What does hard wired mean?**
A: That a 110VAC motor is to be controlled by a wall switch, and the power cord is a pigtail, which is physically “hard wired” to the wiring inside of an electrical junction box. The switch provides both power and operational control. Note that drapery motors cannot be hard wired.

Q: **If I order a remote controlled motor, do I still need a power source?**
A: Yes. While the motors are controlled remotely, all the motors we supply are powered by 110VAC.

Q: **What is the difference between radio frequency and infrared remote control?**
A: The easiest analogy to make concerning user operation, is that radio frequency is like a garage door operator, where you don’t point the transmitter; while infrared is like a TV or VCR, where you point the transmitter at the device to be controlled.

Q: **What are the dimensions of the radio frequency and infrared remote control receiver boxes?**
A: The receiver enclosure measures 4.5”x2.5”x1.25”. (note that on Models 8000 and 9600, all remote components are concealed within the head rail):

Q: **Can more than one motor (110VAC) be operated simultaneously from a single wall switch?**
A: Yes, as long as isolation (parallel) relays have been ordered for each motor. Typically, the maximum number of motors than can be operated from one switch (15AMP) is ten.

Q: **Can I have more than one switch to control just one motor (110VAC)?**
A: Yes. There are two ways to accomplish this:

1. Each switch must be momentary, which means that the user must depress and hold the switch during the entire operation of the motor.
2. Order each motor with a CSI (control system interface), which means that while the switches still must be momentary, the CSI electronics will read the operation necessary, and the user does not have to hold the switch after a single depression.

Q: **If I’m using six motors (110VAC) all from one switch, how many isolation (parallel) relays do I need?**
A: Six. One for each motor.
Q: Can I control both drapery motors and 110VAC switched motors from the same wall switch?
A: Switch control requirements are incompatible between these two types of motors, however, if both a 110VAC and low voltage wiring (to switch location) is present, then a CSI can be added to the drapery motor, allowing for control by Decora style switches for both types of motors.

Q: The contractor for my project told me that the drapery motors are to be operated by remote control, but I know they’re using a Lutron system to control all kinds of things, including the motors. Do I order the motors with remote control?
A: Typically no, but you need to get clarification from the contractor or control system subcontractor. Usually, in these situations, the contractor is mistaken (out of lack of knowledge) in requesting that you provide remote controlled motors. The “remote control,” is in actuality, one of the user interfaces provided by the control system; together with various types of wall switches, touch screens and other forms of control. The drapery motors simply “plug in” to the control system, and are treated like any other device to be controlled.

Q: What is a Lutron (or Crestron, or Litetouch, or Vantage, or ...) control system; and how does it effect the way I order the motors?
A: These are all brand names of control systems, sometimes referred to as “lighting control” or “home automation” systems. They are very versatile systems, able to do many things in many different ways. All of our motors are fully compatible with any of the aforementioned control systems, although not necessarily in the same way. Consult the wiring and control guides in this book, to understand how each of the various motors described within, are designed to be integrated into control system operation.

Q: If I don’t feel confident explaining the electrical requirements to the contractor or control company, can I have them call you?
A: Absolutely!

Last and Best Question

Q: Why should I buy from SM Automatic?
A: You have a choice as to which company you can buy from, and here’s why SM Automatic is your best choice:
1. We’ve been in the motorization business since 1982, and there is no company with more knowledge than SM Automatic.
2. We’re motorization specialists. That’s what we do, and that’s all that we do.
3. We’ll help you every single step of the way. From pre-order information, to order processing, to installation support and follow-up questions. You’ll always have a knowledgeable and courteous motorization specialists to deal with.
4. The best products on the market. Period.
SM AUTOMATIC
General Installation Instructions

PLEASE READ BEFORE INSTALLING ANY SM AUTOMATIC PRODUCT

All SM Automatic motorized window treatment systems must be installed by experienced professional installers.

SM Automatic provides heavy duty mounting brackets.

Fasteners are not included.

Appropriate fasteners must be used by the installer, as required to securely mount each window treatment system to the ceiling, wall, or window frame.

Since construction materials vary, it is up to the installer to determine which type of fasteners are required.

Since motorized systems are generally heavier than manual systems, extra consideration must be taken when determining the type and quantity of fasteners needed.

Wood backing is recommended for proper and secure attachment of mounting brackets to drywall or plaster walls and ceilings.

SM Automatic supplies motorized systems exclusively to the window covering trade only, and assumes no responsibility for installation.

It is the responsibility of the installer to determine and provide proper fasteners to accommodate the weight and security of the product.

Installers should not hesitate to call SM Automatic with any questions or concerns regarding installation or adjustment of any of our products.
Terms and Conditions of Sale

SM Automatic supplies products exclusively to the interior window treatment trade industry, including designers, architects, contractors, and subcontractors. Proper installation of our products is the exclusive responsibility of a professional trade company.

Motorized systems may be heavier than manual systems, and therefore can require different installation techniques and/or materials for proper installation.

In order to ensure proper installation of our products, SM Automatic recommends that installation be performed by an experienced, professional installer, with knowledge of the current industry installation standards and guidelines.

SM Automatic makes no guarantees or warranties, either expressed or implied, regarding the installation of our products.

I. Prices
Prices do not include any federal, state or local taxes. Prices and specifications are subject to change without notice. Written quotations expire 30 days from the date of the quotation, unless otherwise specified. Packing and crating charges are additional.

II. Terms
All initial orders from new accounts are either to be paid in advance or COD. After credit has been approved by SM Automatic, terms are net 30 days. Credit cards (American Express, Visa and MasterCard) are also accepted. A minimum charge of $50.00 will be imposed upon dishonor of any check tendered in payment of goods purchased from SM Automatic. Should additional costs and expenses (including attorney’s fees) be incurred as a result of any such dishonor, this charge shall be increased accordingly.

III. Delivery
All shipments are FOB Hawthorne, California. Seller shall select method of transportation if not specified on buyer’s purchase order. Claims for shortages or discrepancies must be made within three (3) days from receipt of shipment. Claims for loss or damaged shipments should be reported immediately to the carrier. SM Automatic is not responsible for loss or damage by carrier.

IV. Returns
No returns will be accepted unless a return authorization number has been requested and received from SM Automatic. The return shipment is to be freight prepaid by the Buyer, and under no circumstances shall the Buyer deduct the value of the returned merchandise from any remittance due. Returned merchandise is subject to inspection and a minimum restocking fee of 25%.

V. Errors
Typographical, clerical errors, or omissions in quotations are subject to correction.

VI. Dimensions
The dimensions and measurements in our printed documents are approximate at the date of publication and may be subject to change.
Term and Conditions of Sale

VII. Warranty
SM Automatic warrants its motors and motorized systems to be free from defects in material and workmanship for a period of three (3) years from the date of purchase.

Should any failure to conform with this warranty appear during the specified period under normal and proper use and provided the equipment or part has been properly stored, installed and maintained with due regard to any directives, instructions and operating procedures provided by the manufacturer, SM Automatic shall, upon presentation of proof of purchase, correct such nonconformity either by repair or replacement, FOB factory, at its option, of the nonconforming part.

SM Automatic shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of, or the inability to use, the equipment.

The foregoing warranty is exclusive and in lieu of all other warranties of quality, whether written, oral or implied, and all other warranty of merchantability or fitness for a particular purpose are hereby disclaimed.

The following are exclusions from warranty:

(i) If usage, adaptation or installation are not in accordance with our operating instructions, as well as industry installation standards.

(ii) If the product has been opened, dismantled or returned with clear evidence of abuse or other damage.

(iii) If our written specifications are not properly applied by the Buyer when selecting the equipment.

(iv) If our written instructions for installation and wiring of the electrical connections have not been followed.

(v) If our equipment has been used to perform functions other than the functions it was designed to handle, namely motorizing interior window coverings.

(vi) If our equipment has been exposed to extreme climatic conditions such as rain, excessive moisture, salt air, etc.

Equipment not manufactured by SM Automatic is sold and warranted only to the extent and in the manner warranted to SM Automatic by the manufacturer and only to the extent that SM Automatic is able to enforce such warranty.

All costs related to installation and reinstallation of the equipment covered by this warranty are the responsibility of the Buyer. SM Automatic will not be responsible for any consequential damages during or following installation procedures.

If the Buyer resales any SM Automatic equipment to another Buyer, it shall include all of the terms and provisions of this warranty in such resale. SM Automatic’s responsibility to any such third party shall be no greater than their responsibility under the warranty to the original Buyer.