

MaestroShield®

PROTECTION

*Like No Other™*

# Product Catalog



- Aluminum Security Shutters
- Aluminum Hurricane Shutters
- Maestran™ Hurricane Screen
- elements™ Screens Exterior Screening

- SunShade™ Interior Shading
- Tubular Motors Control System
- Electronics Components, Parts and Accessories



**MaestroShield®**

*Protection Like No Other*

## MISSION STATEMENT

To design, engineer, manufacture and deliver the highest quality and most innovative solutions for the hurricane shutter, security shutter, exterior screening and interior shading markets around the World.

## MaestroShield®

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Visit us on the web at .....	<a href="http://www.MaestroShield.com">www.MaestroShield.com</a>

Logos and Trademarks:



**MaestroShield®**  
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**Maestran™**

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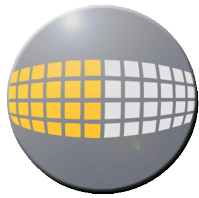
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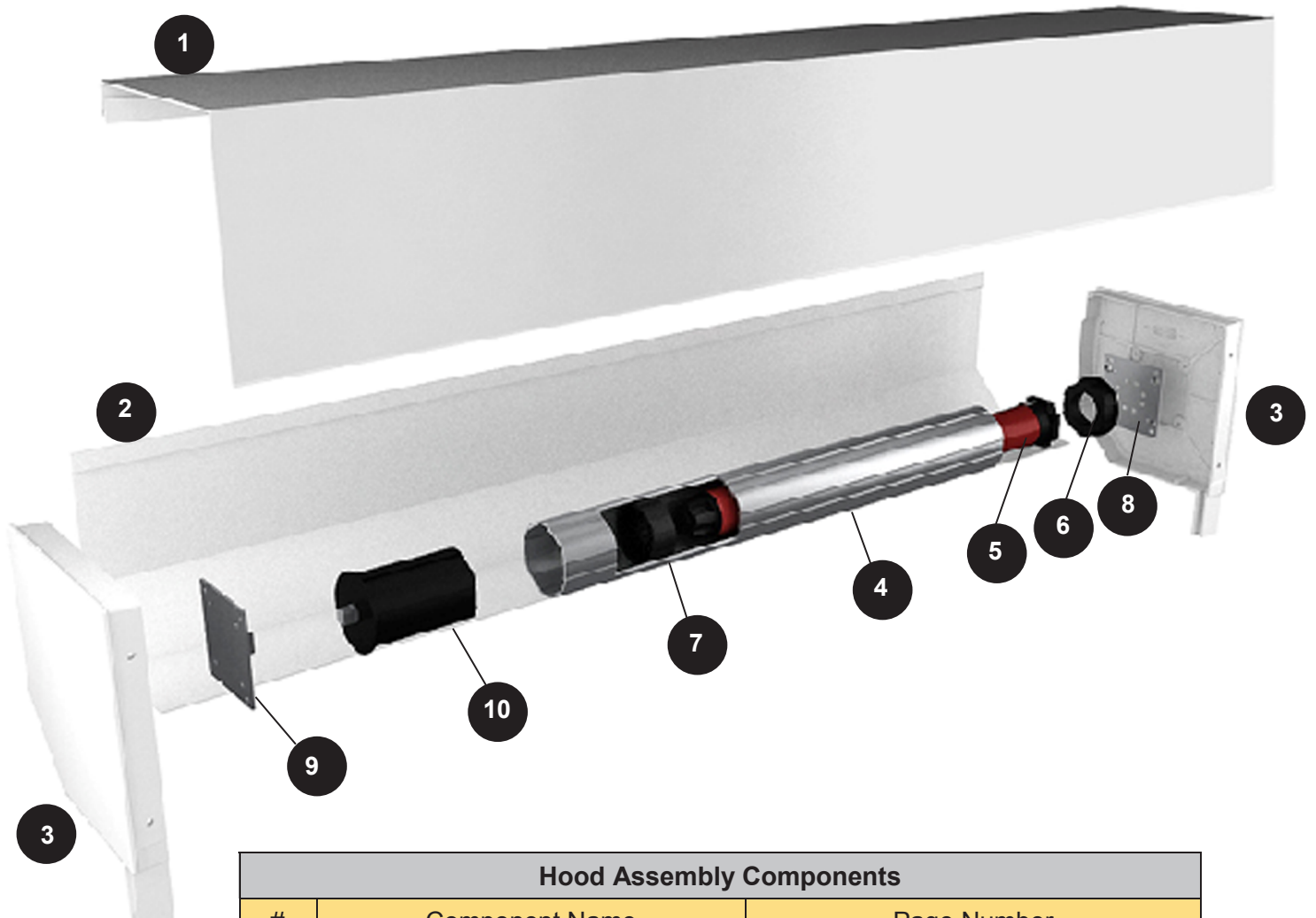
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# Hood Assembly



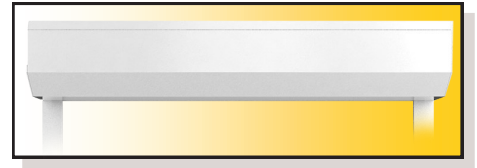
Hood Assembly Components		
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# Hood Assembly | Extruded 5-Sided 45° Hoods



Hood Front

Hood Back



5-sided, 45° hoods available in white, ivory, beige, and bronze



Extruded, 5-sided, 45° Hoods		
Size	(A) Front Section Item #	(B) Back Section Item #
5 1/2" / 140mm	SM02F-5.5	SM02B-5.5
8" / 203mm	SM02F-08	SM02B-08
10" / 254mm	SM02F-10	SM02B-10
12" / 305mm	SM02F-12	SM02B-12
Roll Formed Hoods		
Size	Back & Front	
6 1/2" / 165mm	SM05-06.5	
7" / 178mm	SM04-07	
8" / 203mm	SM01-08	
10" / 254mm	SM01-10	
12" / 305mm	SM01-10	

Hoods sold in two sections—(front and back)

Extruded hoods available in 21' lengths. (6.4m)

NOTE: All sizes are available in roll formed (can be cut to size.)

NOTE: Custom hoods available.

Mill available on custom orders. Minimum quantities and lead times will apply.

	MaestroShield Extruded Hood
Wall Thickness	1.5mm (.050") (66% thicker than bent)
Cost	Approx. 20% less than bent hoods
Packing	Stacks for easier and more secure packing
Shipping	Cheaper and less damage in handling
Inventory	Less needed due to common pieces
When Damage Occurs	Replace damaged section only
Powder Coat Warranty	10-year

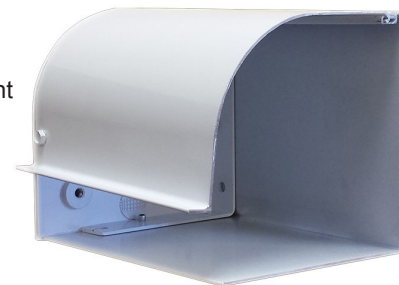
# Hood Assembly | Extruded Rounded Hoods



Rounded hoods available in white, ivory, beige, and bronze



Hood Front



Hood back

Round hoods can be installed as recessed track system with hole caps or as trapped installation.

Extruded, Rounded Hood		
Size	(A) Front Section Item #	(B) Back Section Item #
5 1/2" / 140mm	SM10F-5.5	SM02B-5.5

Hoods are sold in two sections—front and back

Available in 21' (6.4m) lengths.

**Note:** Mill available on custom orders. Minimum quantities and lead times will apply.

	MaestroShield Rounded Hood	Bent Hood
<b>Wall Thickness</b>	1.5mm (.050") (66% thicker than bent)	0.9mm (.035")
<b>Packing</b>	Stacks for easier and more secure packing	Does not stack; difficult to pack
<b>Shipping</b>	Cheaper and less damage in handling	More expensive with frequent damage
<b>Inventory</b>	Less needed due to common pieces	No common pieces requires more inventory
<b>Powder Coat Warranty</b>	10-year warranty on powder coating (1-year in coastal regions within 1 mile of saltwater coastline)	1-year

# Hood Assembly | Side Caps and Safety Plates

Impact-Rated Side Caps		
Size	Weight	Item #
5 1/2" (139mm)	0.75 lbs	CA02-139L/R
6 1/2" (165mm) with detachable Leg	0.95 lbs	CA05-165L/R
7" (178mm)w/ Small Leg	1.08 lbs	CA04-180L/R
8" (203mm)w/ Small Leg	1.43 lbs	CA04-205L/R
8" (203mm)w/ Lg. Leg	2.05 lbs	CA03-205L/R
10" (254mm)w/ Lg. Leg	2.78 lbs	CA03-250L/R
12" (304mm)w/ Lg. Leg	3.86 lbs	CA03-300L/R



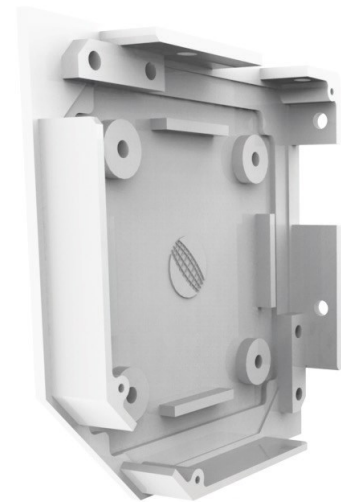
Side Caps available in white, ivory, beige, and bronze



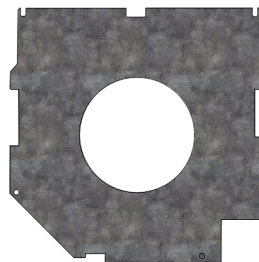
**6 1/2" cap with removeable leg,  
7" and 8" caps with small leg  
available!**

	MaestroShield Heavy Duty Side Cap	Universal Side Cap
<b>Thickness of Casting</b>	6mm (.23")	3.2mm (.12")
<b>Threaded Inserts for Motor Plates</b>	Threaded Galvanized Steel Insert - 6.85mm (.26") deep	Threaded Aluminum - 3mm (.12") deep or drill through
<b>Threaded Inserts for mini Receiver</b>	Yes	No
<b>Powder Coat Warranty</b>	10-year	1-year
<b>Openings for Manual Crank</b>	Yes - In all four positions	Not in all positions (requires drilling)
<b>Recessed Hood for flush appearance</b>	Yes	No

**Note:** Mill available on custom orders. Minimum quantities and lead times will apply.



Safety Plate for Side Cap	
Size	Item #
6.5" (165mm)	AC02-PL065
7" (177mm)	AC02-PL07
8" (203mm)	AC02-PL08
10" (254mm)	AC02-PL10
12" (304mm)	AC02-PL12



**Safety Plate fits all side caps with 60mm (2.36"), 70mm (2.75") and 86mm (3.38")**

Item	Item #
Entry Guide Small Leg	AC01-12SM
Entry Guide Large Leg	AC01-12LG





# Hood Assembly | Side Caps

Impact-Rated Rounded Side Caps		
Size	Weight	Item #
5 1/2" (139mm)	0.75 lbs	CA10-139

Side Caps available in white, ivory, beige, and bronze

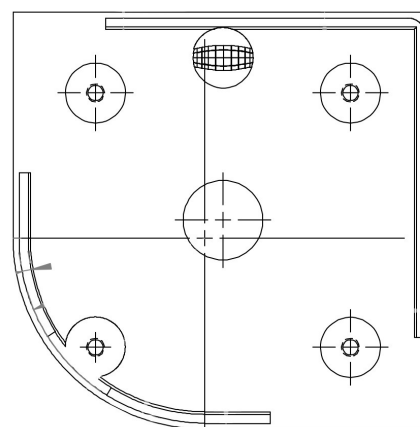


**Note:** Mill available on custom orders. Minimum quantities and lead times will apply.

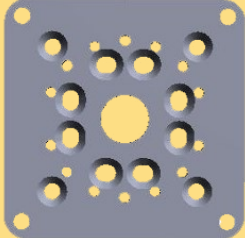
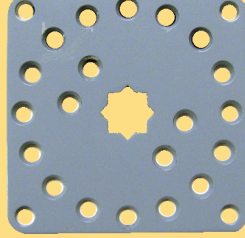
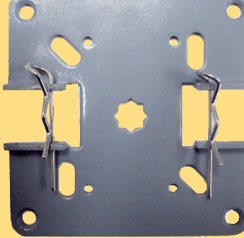



Internal galvanized steel inserts for easy installation of motor plates for a clean appearance



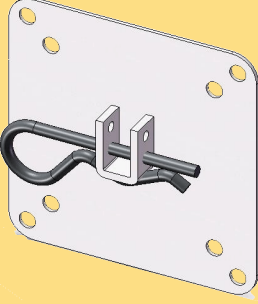

	MaestroShield Heavy Duty Side Cap	Universal Side Cap
Thickness of Casting	6mm (.23")	3.2mm (.12")
Threaded Inserts for Motor Plates	Threaded Galvanized Steel Insert - 6.85mm (.26") deep	Threaded Aluminum - 3mm (.12") deep (Some not threaded)
Powder Coat Warranty	10-year	1-year
Openings for Manual Crank	Yes - In all three positions	Not in all positions (requires drilling)
Recessed Hood for flush appearance	Yes	No



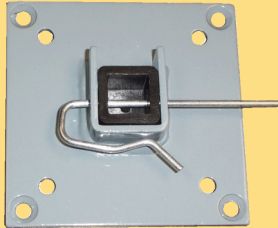

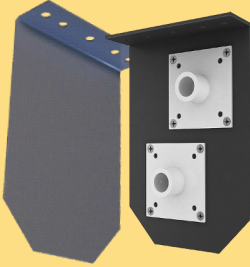
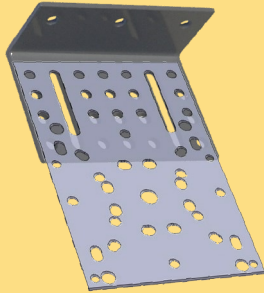
# Hood Assembly | Mounting Plates

				
<b>Item Name and Item Number:</b>	<b>Universal Mounting Plate</b> Item #AC03-03A	<b>45° Mounting Plate</b> Item #AC03-0801	<b>Universal Bracket Plate</b> Item #AC03-1201	<b>Mounting Plate for Torque Spring</b> AC03-30
<b>Motor Compatibility:</b>	20-100 Nm with manual override	<ul style="list-style-type: none"> <li>20-100Nm at 45° mounting position with manual override</li> <li>60-100Nm with manual override</li> </ul>	20-50Nm non-manual override	100Nm motor without override and spring assist.
<b>Motor Shaft Length Compatibility (for non-manual override motor):</b>	Not Applicable	Short	Short	Spring assist, 100Nm motors without manual override
<b>Manual Gear Compatibility:</b>	1/9, 1/25, 1/50 and 1/59 Gear Box	1/25, 1/50 and 1/59 Gear Box	None	None
<b>Idler Compatibility:</b>	None	60mm Idler with Spring 70mm Idler with Spring	None	60mm, 70mm and 86mm Idler Bearing
<b>Bracket/Side Cap Compatibility:</b>	MaestroShield Heavy Duty and Universal Side Cap	MaestroShield Heavy Duty and Universal Side Cap	MaestroShield Heavy Duty and Universal Side Cap	MaestroShield Heavy Duty and Universal Side Cap
<b>Component Specs:</b>	100mm X 100mm; (3.93"x3.93") Polyurethane powder-coated steel	100mm X 100mm; (3.93"x3.93") Polyurethane powder-coated steel	4" X 4"; (101.6mm x 101.6mm) Polyurethane powder-coated steel	100mm X 100mm, (3.93"x3.93") pre-drilled, Polyurethane powder-coated steel, includes bolt to secure spring and metal insert.

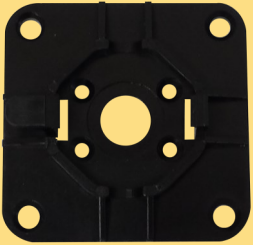
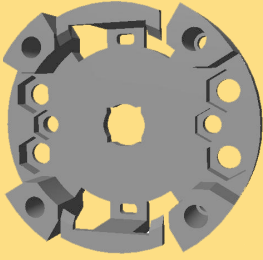


# Hood Assembly | Mounting Plates

				
<b>Item Name and Item Number:</b>	<b>Motor Star Bracket</b> Item #AC03-06	<b>Motor Star Bracket</b> Item #AC03-16	<b>Harmony Mini Motor Mounting Bracket</b> Item #AC03-04	<b>Motor Mounting Cradle Bracket</b> Item #AC03-07
<b>Motor Compatibility:</b>	6-50Nm non-manual override	100Nm non-manual override	Smart Series Motors	10-50Nm non-manual override
<b>Motor Shaft Length Compatibility (for non-manual override motor):</b>	Long	Long	Long	Short
<b>Manual Gear Compatibility:</b>	None	None	None	None
<b>Idler Compatibility:</b>	None	60mm Idler with Spring	None	None
<b>Bracket/Side Cap Compatibility:</b>	No	No	MaestroShield Heavy Duty and Universal Side Cap	No
<b>Component Specs:</b>	Steel	Steel	100mm X 100mm, (3.93"x3.93") Polyurethane powder-coated steel	Plastic

# Hood Assembly | Mounting Plates

				
<b>Item Name and Item Number:</b>	<b>Idler Bearing Cradle</b> Item #AC03-40	<b>Idler Bearing Cradle</b> Item #AC02-11	<b>Heavy Duty Universal Bracket</b> Item #AC03-20	<b>Universal Bracket Plate</b> Item #AC03-50 <b>Small Angle Bracket</b> Item #AC03-10
<b>Motor Compatibility:</b>	None	None	All 140Nm - 300Nm Assemblies requiring 100mm Motor Tube	20-100Nm with manual override
<b>Motor Shaft Length Compatibility (for non-manual override motor):</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Manual Gear Compatibility:</b>	None	None	1/9, 1/25, 1/50 and 1/59 Gear Box	None
<b>Idler Compatibility:</b>	60mm, 70mm and 86mm Idler Bearing	100mm Idler Bearing	Idler side for all 140Nm - 300Nm Assemblies requiring 100mm Motor Tube	None
<b>Bracket/Side Cap Compatibility:</b>	MaestroShield and Universal Side Cap	MaestroShield and Universal Side Cap	MaestroShield and Universal Side Cap	No
<b>Component Specs:</b>	100mm X 100mm, (3.93"x3.93"); pre-drilled; Polyurethane powder-coated steel; Includes plastic cap and setting pin	100mm X 100mm, (3.93"x3.93"); pre-drilled; Polyurethane powder-coated steel; Threaded holes for setting idler	Polyurethane-powder-coated steel	<b>Universal Bracket Plate:</b> 6" X 4", (152.4mmx101.6mm); Polyurethane powder-coated steel; used with Small Angle Bracket  <b>4" (101.6mm) Angle Bracket:</b> for Bracket System Mounting; Polyurethane powder-coated steel

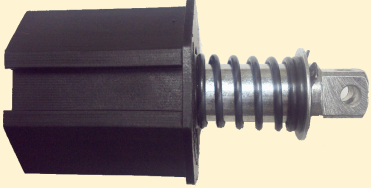
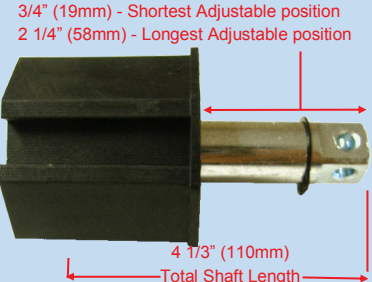
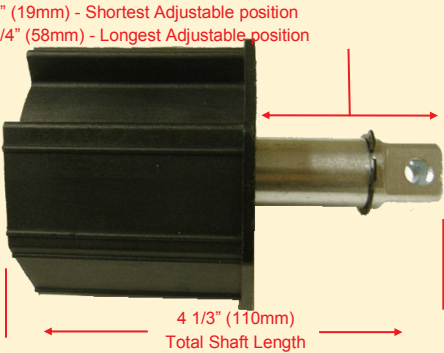
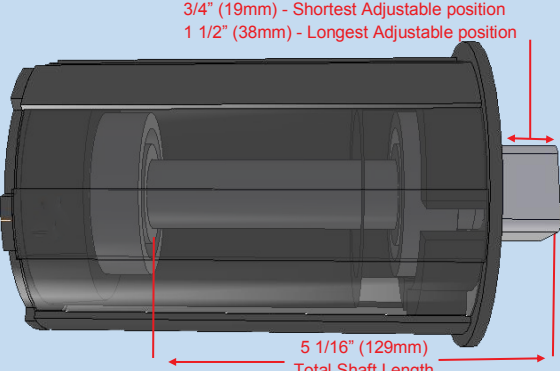
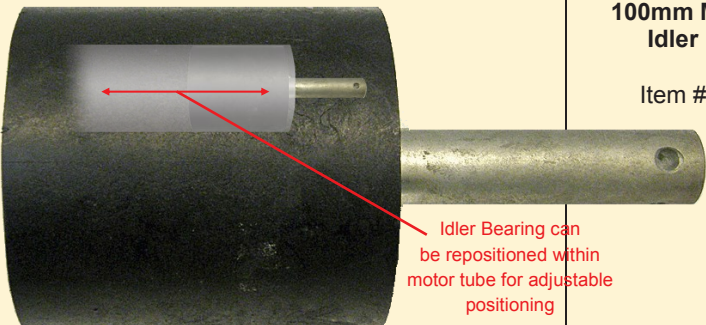
# Hood Assembly | Mounting Plates

				
<b>Item Name and Item Number:</b>	<b>Motor Mounting Cradle</b> Item #AC03-05	<b>Snap-On Motor Bracket for Bracket</b> Item #IS1018	<b>Snap-On Motor Bracket for Fascia</b> Item #IS1038	<b>3"x3"(76.2mmx76.2mm) Snap-On Motor Bracket for Fascia</b> Item # IS139
<b>Motor Compatibility:</b>	0.7Nm Harmony DC 1Nm Silent Series DC 3-6Nm Harmony DC 6Nm Harmony AC (with Motor Mounting Snap)	3-8Nm Silent Series Motor	3-8Nm Silent Series Motor	0.7Nm Harmony DC 1Nm Silent Series DC 3-6Nm Harmony DC 6Nm Harmony AC (with Motor Mounting Snap)
<b>Motor Shaft Length Compatibility (for non-manual override motor):</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Manual Gear Compatibility:</b>	None	None	None	None
<b>Idler Compatibility:</b>	None	None	None	None
<b>Bracket/ Side Cap Compatibility:</b>	All MaestroShield Interior Shade Bracket Assemblies	All MaestroShield Interior Shade Bracket Assemblies	All MaestroShield Interior Shade Fascia Assemblies	All MaestroShield Interior Shade Fascia Assemblies
<b>Component Specs:</b>	Plastic	Plastic	Plastic	Plastic


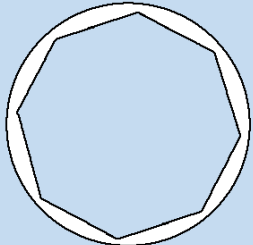
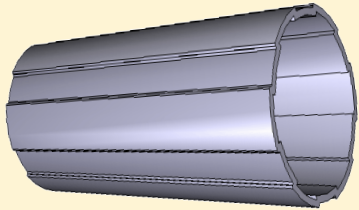
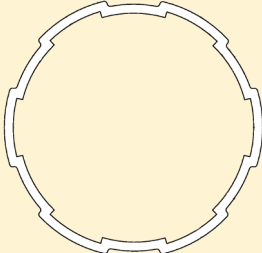
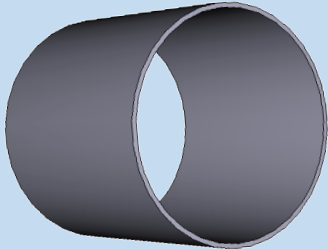
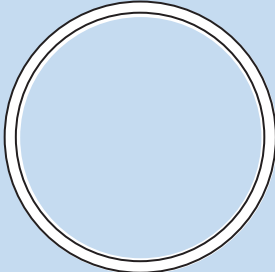
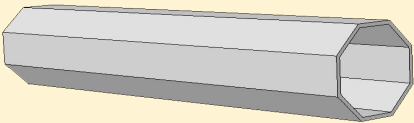
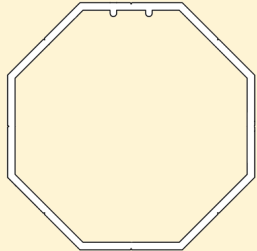
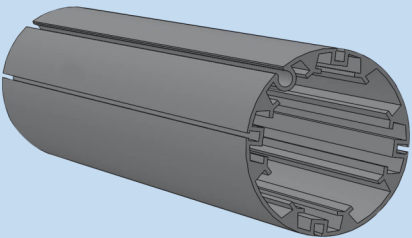
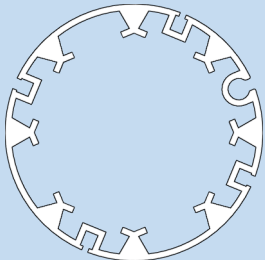
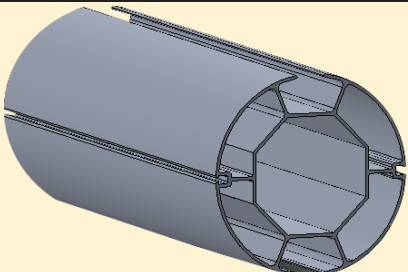
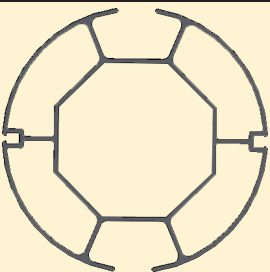
# Hood Assembly | Mounting Plates

		
<b>Item Name and Item Number:</b>	<b>Prodigy 20—100Nm Motor Mounting Bracket</b> Item # AC03-13	<b>Motor Mounting Plate</b> Item #AC03-0802
<b>Motor Compatibility:</b>	Prodigy 20—100Nm Motors w/ manual override Hybrid 20—50Nm w/ manual override	Prodigy 20—100Nm Motors w/o manual override Hybrid 20—50Nm w/o manual override
<b>Universal Position</b>	All positions	All positions
<b>Motor Shaft Length Compatibility (for non-manual override motor):</b>	Not Applicable	Not Applicable
<b>Manual Gear Compatibility:</b>	1/9 manual gear	1/9, 1/25, 1/50 manual gear
<b>Idler Compatibility:</b>	None	60mm, 70mm Idler Bearing w/ Spring
<b>Bracket/Side Cap Compatibility:</b>	6.5" (165mm) with removable leg, and 7" (178mm), and 8"(203mm) Side Caps with Small Leg	MaestroShield Heavy Duty and Universal Side Cap
<b>Component Specs:</b>	Polyurethane Powder-coated steel	Polyurethane Powder-coated steel

# Hood Assembly | Idler Bearings

	Item Name and Number	Compatibility	Specifications
	<p><b>60mm Idler Bearing w/ Spring</b></p> <p>Item #AC02-12-SL</p>	<p>Compatible with 60mm octagonal motor tube</p> <p>For use with Elements Screen</p>	<p>Dual stainless steel, motor-cross ball bearings. Polycarbonate composite housing. Spring loaded for easier and quicker Installation</p>
	<p><b>60mm Idler Bearing</b></p> <p>Item #AC02-12</p>	<p>Compatible with 60mm octagonal motor tube</p>	<p>Dual stainless steel, motor-cross ball bearings Polycarbonate composite housing. Adjustable shaft</p>
	<p><b>70mm Idler Bearing</b></p> <p>Item #AC02-05-110 (110mm shaft)</p> <p>Item # AC02-05-110SPR (110mm shaft) (with Spring)</p> <p>Item #AC02-05-135 (with 128mm shaft)</p>	<p>Compatible with 70mm octagonal motor tube</p>	<p>Dual stainless steel, motor-cross ball bearings. Polycarbonate composite housing. Adjustable Shaft</p>
	<p><b>86mm Idler Bearing with End Cap</b></p> <p>Item #AC02-03</p>	<p>Compatible with 86mm Maestro-Shield® profile motor tube</p>	<p>Dual stainless steel, motor-cross ball bearings. Polycarbonate composite housing. Adjustable Shaft</p>
	<p><b>100mm Motor Tube Idler Bearing</b></p> <p>Item #AC02-04</p>	<p>Compatible with 100mm round motor tube with 94mm inside Diameter. Can be modified for compatibility with 100mm round tube with 97mm inside diameter</p>	<p>Dual stainless steel, motor-cross ball bearings. Self-lubricating. Polycarbonate composite housing</p>

# Extrusions | Motor Tubes

	Profile	Item Name and Number	Compatibility	Specifications
		<b>Motor Tube 70mm Octagonal Inside, Round Outside</b> Item #EX02-07/21 Item #EX02-07/24	Aluminum Shutter	Aluminum; Sold in 21' (6.4m) and 24' (7.3m) lengths
		<b>Motor Tube MS 86mm</b> Item #EX02-08/24	Aluminum Shutter	Aluminum; Sold in 24' (7.3m) lengths
		<b>Motor Tube 100mm Round Triple Coat Protection Galvanized Steel</b> Item #EX01-09/24	Aluminum Shutter	Triple Coated Protection Galvanized Steel; Sold in 24' (7.3m) lengths
		<b>Motor Tube 60mm Inner Octagonal</b> Item #EX01-16/21	Exterior Screening, Aluminum Shutter Installations	Aluminum; Sold in 21' (6.4m) lengths
		<b>3 1/2" (8.9cm) Screen Outer Tube</b> #EX01-14/24	Exterior Screening Installations	Aluminum; Sold in 17' (5.2m) and 24' (7.3m) lengths
		<b>4 1/4" (10.8cm) Screen Outer Tube</b> #EX01-17/21	Exterior Screening Installations	Aluminum; Sold in 21' (6.4m) lengths

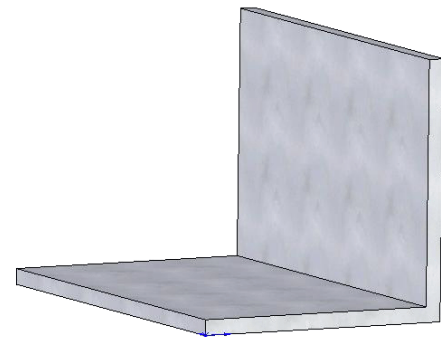


# Extrusions | Build Out



Tubes for Build Out			
Size	Colors	Length	Item #
1" X 2" X .125" (2.54 x 5.08 x .32 cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B11
1" X 3" X .125" (2.54 x 7.62 x .32cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B13
1" X 4" X .125" (2.54 x 10.16 x .32 cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B14
2" X 2" X .125" (5.08 x 5.08 x .32cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B22
2" X 3" X .125" (5.08 x 7.62 x .32 cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B23
2" X 4" X .125" (5.08 x 10.16 x .32 cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B24
3" X 3" X .125" (7.62 x 7.62 x .32 cm)	White	24' / 7.3m	EX01-B33
4" X 4" X .125" (10.16 x 10.16x .32 cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B44
4" X 6" X .125" (10.16 x 15.24 x .32cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-B46

Angles for Build Out			
Size	Colors	Length	Item #
1" X 1" X 0.062" (2.54 x 2.54 x .16cm)	White, Beige, Ivory, Bronze	20' / 6.1m	EX01-A11
1" X 2" X 0.125" (2.54 x 5.08 x .32cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-A12
2" X 2" X 0.125" (5.08 x 5.08 x .32cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-A22
2" X 3" X 0.125" (5.08 x 7.62 x .32cm)	White, Beige, Ivory, Bronze	20' / 6.1m	EX01-A23
2" X 4" X 0.125" (5.08 x 10.16 x .32cm)	White, Beige, Ivory, Bronze	21' / 6.4m	EX01-A24

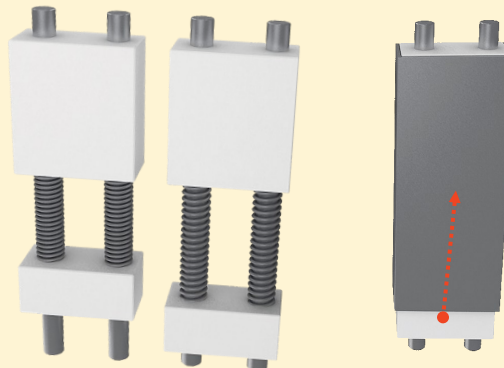


## Spring Block

2" x 3" - Item# AC07-01  
(5.08 x 7.62cm)

2" x 4" - Item# AC07-02  
(5.08 x 10.16cm)

Securely locks storm bar or mullion into position while allowing for easy removal; available in white



# Accessories | Gaskets & Brush Seals

	Item Name and Number	Compatibility	Specifications
	<p><b>Slat Gasket</b> Item #AC01-17</p>	<p>Aluminum Roll Down Shutters (standard)</p>	<p>White Rubber sold in 500' rolls (152.4m)</p>
	<p><b>Water Seal Gasket</b> Item #AC09-01</p>	<p>Aluminum Roll Down Shutters</p>	<p>Black Rubber Width - 20mm Wall - 10mm sold in 400' rolls (121.92m)</p>
	<p><b>Brush Seal 3/4" (1.9cm)</b> Item #AC05-01/Black</p>	<p><i>Elements Screens</i> (standard)</p>	<p>3/4" (1.9cm) trim height Channel Width - 4.8mm (.19") Black sold in 500' rolls (152.4m)</p>
	<p><b>Brush Seal 1 1/4" (3.2cm)</b> Item #AC05-02/Black</p>	<p><i>Elements Screens</i></p>	<p>1 1/4" (3.2cm) trim height Channel Width - 4.8mm (.19") Black sold in 500' rolls (152.4m)</p>

# Roll Down Shutters | Motor Options (120v or 220v)

## Smart Series Motors 3—50 Nm (see index for motor section)

- Built-in Receiver
- Easy-to-Set Electronic Limit Switch
- 3-year 100% replacement Warranty coverage
- No Manual Override
- Universal Accessories, Crown and Drive Gears for a variety of motor tubes.

Smart Series Motor Torque	Max Lift Capacity per Tube Size		
	70mm Motor Tube	86mm Motor Tube	100mm Motor Tube
20 Nm	94 lbs (42.6 kg)	77 lbs (34.9 kg)	66 lbs (29.9 kg)
50 Nm	236 lbs (107 kg)	192 lbs (87 kg)	165 lbs (74.8 kg)

## Harmony Series Motors 20—100 Nm (see index for motor section)

- Quiet 120V motor series
- 5 year 100% replacement Warranty coverage
- No Manual Override
- Mechanically set limits with dual sided limit access
- Universal Accessories, Crown and Drive Gears for motor tubes 38mm (1-inch) and over are available

Harmony Series Motor Torque	Max Lift Capacity per Tube Size		
	70mm Motor Tube	86mm Motor Tube	100mm Motor Tube
20 Nm (19 rpm only)	94 lbs (42.6 kg)	77 lbs (34.9 kg)	66 lbs (29.9 kg)
50 Nm	236 lbs (107 kg)	192 lbs (87 kg)	165 lbs (74.8 kg)
100 Nm	471 lbs (213.6 kg)	384 lbs (174.1 kg)	330 lbs (149.6 kg)

## Prodigy Series Motors 20—50 Nm (see index for motor section)

- Manual Override
- 5 year 100% replacement Warranty coverage
- Mechanically set limits with dual sided limit access
- Universal Accessories, Crown and Drive Gears for motor tubes 49mm and over are available.

Prodigy Series Motor Torque	Max Lift Capacity per Tube Size		
	70mm Motor Tube	86mm Motor Tube	100mm Motor Tube
20 Nm (19 rpm only)	94 lbs (42.6 kg)	77 lbs (34.9 kg)	66 lbs (29.9 kg)
30 Nm	141 lbs (63.9 kg)	115 lbs (52.1 kg)	99 lbs (44.9 kg)
40 Nm	189 lbs (85.7 kg)	153 lbs (69.4 kg)	132 lbs (59.8 kg)
50 Nm	236 lbs (107 kg)	192 lbs (87 kg)	165 lbs (74.8 kg)

## Aria Series Motors 60—120 Nm (see index for motor section)

- Manual Override
- 5 year 100% replacement Warranty coverage
- Mechanically set limits with dual sided limit access
- Universal Accessories, Crown and Drive Gears for motor tubes 70mm and over are available.

Aria Series Motor Torque	Max Lift Capacity per Tube Size		
	70mm Motor Tube	86mm Motor Tube	100mm Motor Tube
60 Nm	283 lbs (128.3 kg)	230 lbs (104.3 kg)	198 lbs (89.8 kg)
80 Nm	377 lbs (171 kg)	307 lbs (139.2 kg)	264 lbs (119.7 kg)
100 Nm	471 lbs (213.6 kg)	384 lbs (174.1 kg)	330 lbs (149.6 kg)
120 Nm	566 lbs (256.7 kg)	460 lbs (208.6 kg)	396 lbs (179.6 kg)

## Encore Series Motors 140—300 Nm (see index for motor section)

- No 3-phase power needed
- Single sided access to mechanical, set-lever limits
- 5-year 100% replacement Warranty coverage
- Available with or without Manual Override
- Built-in Crown and Drive Gear for 100mm motor tube

Encore Series Motor Torque	Max Lift Capacity per Tube Size
	100mm Motor Tube
140 Nm	462 lbs (209.5 kg)
180 Nm	594 lbs (269.4 kg)
230 Nm	755 lbs (344.2 kg)
300 Nm	990 lbs (449 kg)

## Hybrid Series Motors 3—50 Nm (see index for motor section)

- Built-in Receiver
- Mechanically set limits with dual sided limit access
- 3-year 100% replacement Warranty coverage
- With and without Manual Override
- Universal Accessories, Crown and Drive Gears for a variety of motor tubes.

Hybrid Series Motor Torque	Max Lift Capacity per Tube Size		
	70mm Motor Tube	86mm Motor Tube	100mm Motor Tube
20 Nm	94 lbs (42.6 kg)	77 lbs (34.9 kg)	66 lbs (29.9 kg)
50 Nm	236 lbs (107 kg)	192 lbs (87 kg)	165 lbs (74.8 kg)



***MaestroShield***<sup>®</sup>

***Protection Like No Other***

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**PROTECTION**  
*Like No Other™*

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screens



- Windows
- Doors
- Lanais
- Balconies

- Patios
- Porches
- Porticos
- Entries

- Garages
- Retail Stores
- Restaurants
- Hotels

- Office Buildings
- Factories
- Warehouses
- Schools

## Recessed Installation



## Surface Mount Installation



**Trapped mount Installation**

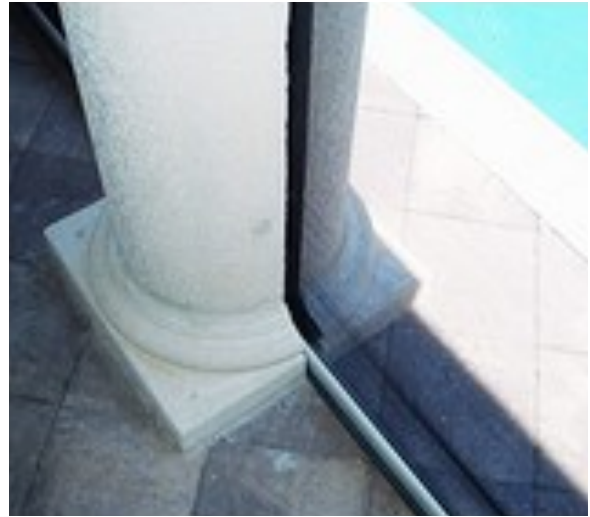


**Clear Vinyl Retractable Screens**





**Stucco Column**



**Decorative Column**



**Wood Clad Column**



**Stone-Face Column**



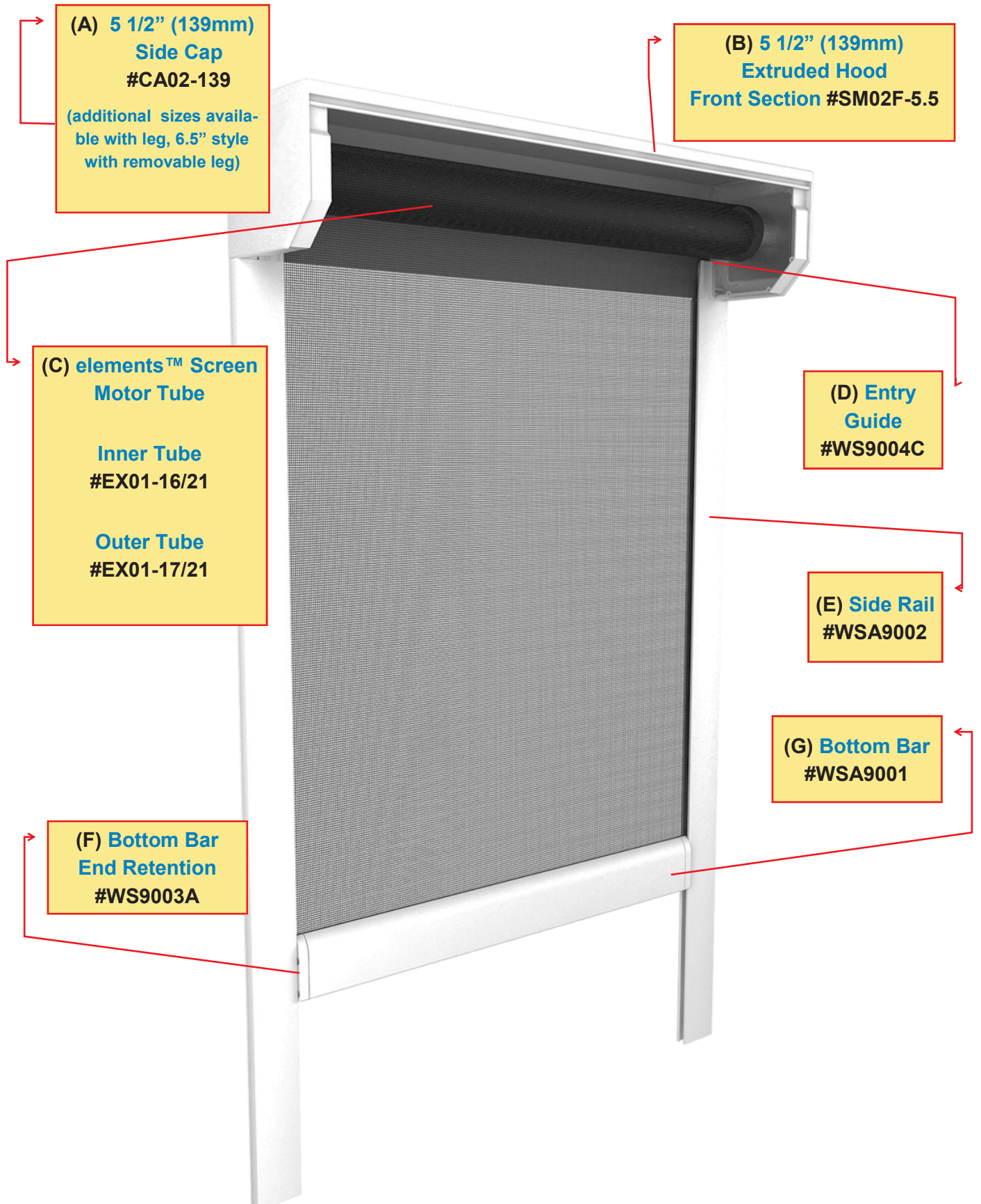
**Surface Mount**



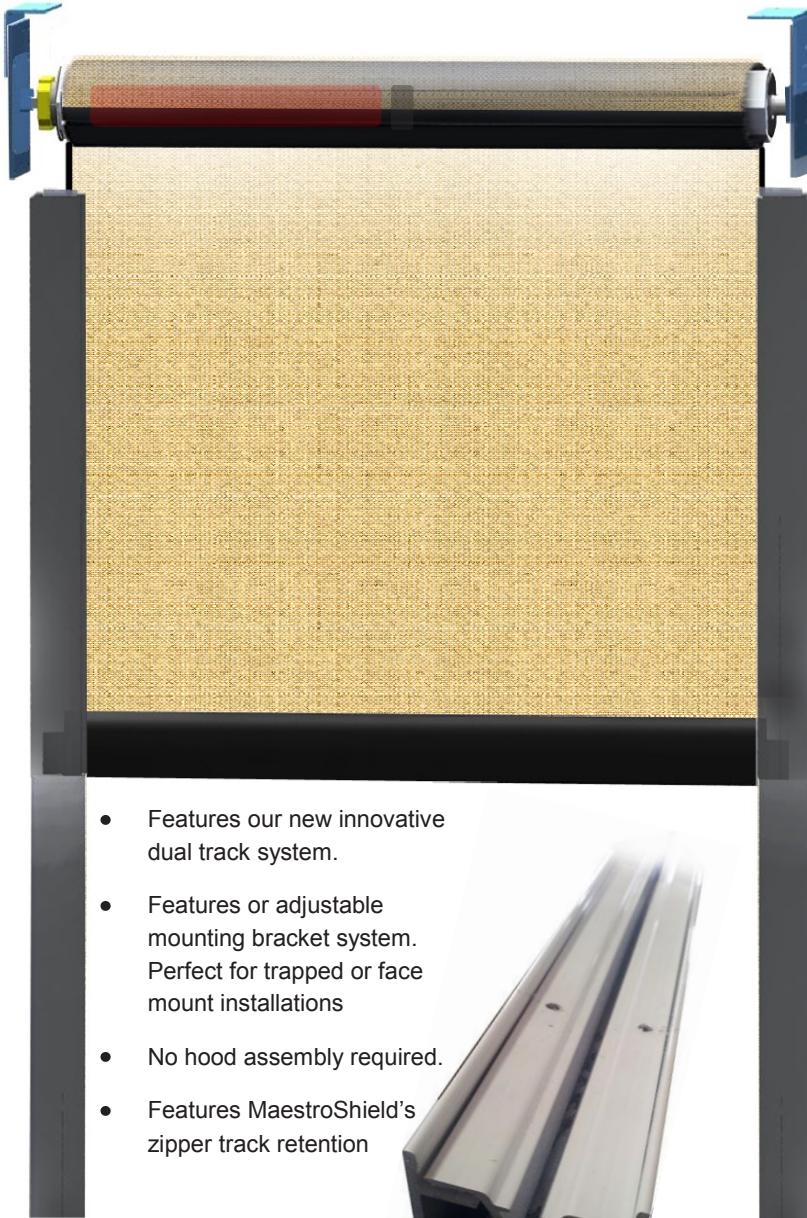
**Recessed Mount**



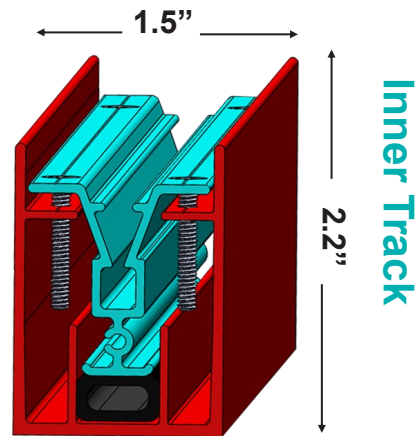
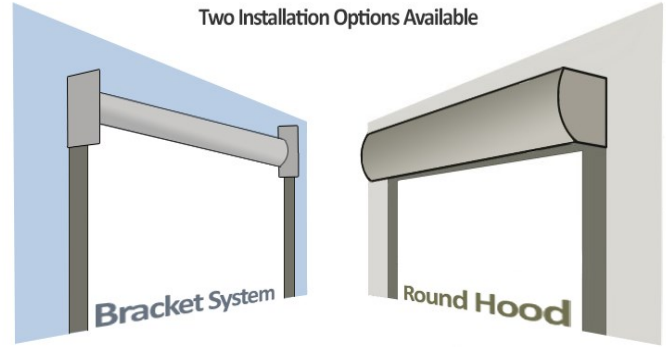
## Ultra Slim Surface Track Assembly



## New Recessed Track System



- Features our new innovative dual track system.
- Features our adjustable mounting bracket system. Perfect for trapped or face mount installations
- No hood assembly required.
- Features MaestroShield's zipper track retention



**Outer Track**



10-year warranty on powder coating  
(1-year in coastal regions within 1  
mile of saltwater coastline)



5-year full replacement warranty on  
tubular motors (3-year for Smart  
Series motors with internal receiver)



2-year full replacement warranty on  
electronics and components

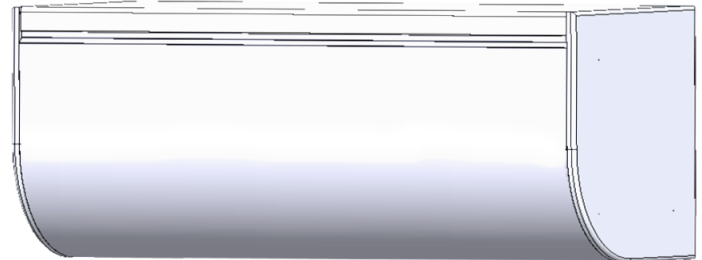




### 5 1/2" (139mm) 5-sided, Extruded Hoods




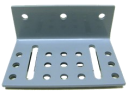
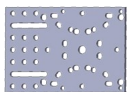
- At 1.5mm (.06") thick, 66% thicker walls than bent hoods; more resistant to denting during shipping and handling.
- Approx. 20% less expensive than bent hoods

### 5 1/2" (139mm) Rounded



Hoods available in white, ivory, beige, and bronze

	MaestroShield Hoods
Wall Thickness	1.5mm (.06") (66% thicker than bent)
Packing	Stacks for easier and more secure packing
Shipping	Cheaper and less damage in handling
Inventory	Less needed due to common pieces
Powder Coat Warranty	10-year warranty on powder coating (1-year in coastal regions within 1 mile of saltwater coastline)

	Hood Sizes and Installations Restrictions	Hood Part Number	Side Cap	Compatibility	Hood Type
	5 1/2" (139mm) For up to 17' (5.18m) Wide x 17' (5.18m) Tall w/ 4.25" (11.43cm) (tube & up to 21' (6.4m) x 12' (3.65m) w/ 3.50 (8.9cm) tube	Hood back (SM02B-5.5)	5.5" (139mm) 45° Side Cap or 5.5" (139mm) Rounded side Cap	Compatible with both Rounded and 45° Hoods	Extruded 6063-T6 Powder coated Aluminum; Front and Back Sold separately; Sold in 21' (6.4m) Lengths
		45° Hood Front (SM02F-5.5)	Impact rated 5.5" (139mm) 45° Side cap w/ leg (CA02-139) Different Left and Right	Compatible with Slim Surface Mount Track	
		Rounded Hood Front (SM10F-5.5)	Impact Rated 5.5" (139mm) Rounded Side Cap (CA10-139) Works on Left or Right	Compatible with the Slim Surface Mount Track as well as the Recessed Track	
	6 1/2" (165mm) For up to 21'(6.4m) Wide x 21' (6.4m) Tall	Front & Back (SM05-06.5)	Impact Rated 6.5" (165mm) 45° Side Cap (CA04-165) Works on Left or Right		Roll Formed Aluminum; Sold by Foot
	Bracket System For up to 21' (6.4m) Wide x 21' (6.4m) Tall	N/A	Small Angled Bracket (AC03-10)		No Hood
		N/A	Universal Bracket Plate (AC03-50)		



Impact-Rated Rounded Side Caps		
Size	Weight	Item #
5-1/2" (139mm)	0.75 lbs (.34 kgs)	CA10-139

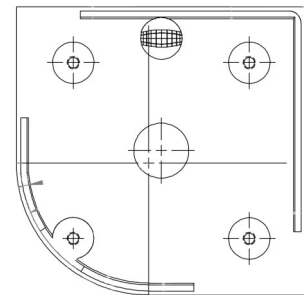
Internal galvanized steel inserts for easy installation of motor plates for a clean appearance



Side Caps available in white, ivory, beige, and bronze



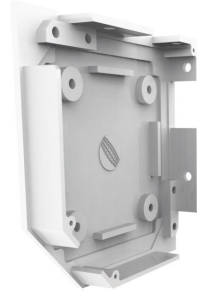
	MaestroShield Side Cap	Universal Side Cap
<b>Thickness of Casting</b>	6mm (.24")	3.2mm (.125")
<b>Threaded Inserts for Motor Plates</b>	Threaded Galvanized Steel Insert - 6.85mm (.27") deep	Threaded Aluminum - 3mm (.125") deep (Some not threaded)
<b>Powder Coat Warranty</b>	10-year	1-year
<b>Openings for Manual Crank</b>	Yes - In all three positions	Not in all positions (requires drilling)
<b>Recessed Hood for flush appearance</b>	Yes	No



### (A) Impact-Rated 5 1/2" (139mm) & 6 1/2" (165mm) Side Cap

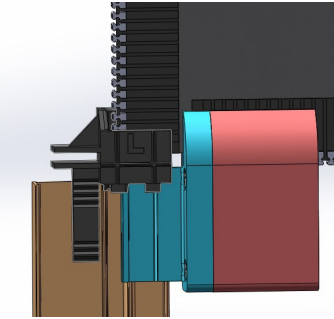
- At 6mm (.24") thick, twice as thick as universal standard side cap
- Threaded galvanized steel inserts for mounting fastener plates
- Greater depth of threaded inserts for stronger connection
- Threaded inserts for mounting mini receiver
- Openings in casting for mounting manual crank without drilling
- Hood is recessed into side cap for flush appearance

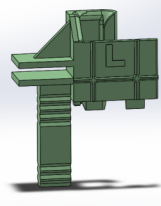
Component Name	Item #	Specifications
Impact-Rated 5 1/2"(139mm) Side Cap	CA02-139	Weight - 0.75 lbs (.34kgs); 10-year powder coating warranty; thread inserts with galvanized steel so there is no need to drill holes; fits universal 45° hood
Impact-Rated 6 1/2" (165mm) Side Cap Removable Leg	CA05-165 CA05SM	



Component Name	Item #	Specifications
60mm Inner Tube	EX01-16/21	60mm Octagonal; ID—57mm, OD—62mm; sold in 21' (6.4m) lengths
3 1/2" (8.9cm) Outer Tube	EX01-14/24	88mm Round; ID—63mm, OD—88mm; sold in 24' (7.3m) lengths
4 1/4" (10.8cm) Outer Tube	EX01-17/21	108mm Round; ID—63mm, OD—108mm; sold in 17' (5.18m) and 21' (6.4m) lengths. For installations up to 21' (6.4m) long x 21' (6.4m) wide.


**(D) Nylon Entry Guide**

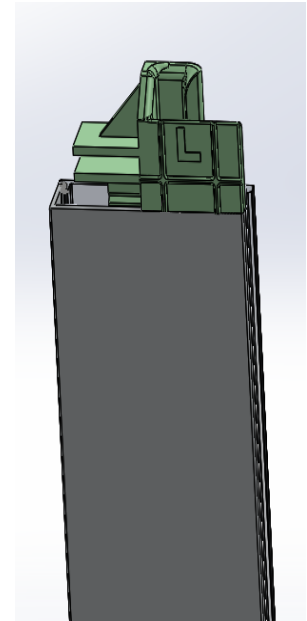


	Component Name	Item #	Specifications
	Nylon Entry Guide	WS9004C	Black plastic; seamlessly guides screen into side rails; sold in pairs

**(E) elements Screen Side Rail**

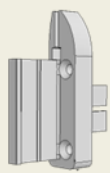
Two piece side rail snaps together with no visible screws for a clean elegant appearance

	Component Name	Item #	Specifications
	Elements <sup>TM</sup> Screens Side Rail	WSA9002F (Front) WSA9002B (Back)	2.0" (5.08cm) W X 0.6" (.15cm) D; 2-piece front and back snap together for clean, finished look with no visible screws; sold in 21' (6.4m) lengths



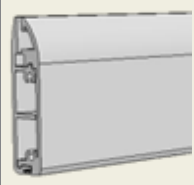
**(F) Bottom Bar End Retention**



	Component Name	Item #	Specifications
	Bottom Bar End Retention	WS9003A	Nylon; sold in pairs

**(G) elements Screen Bottom Bar**

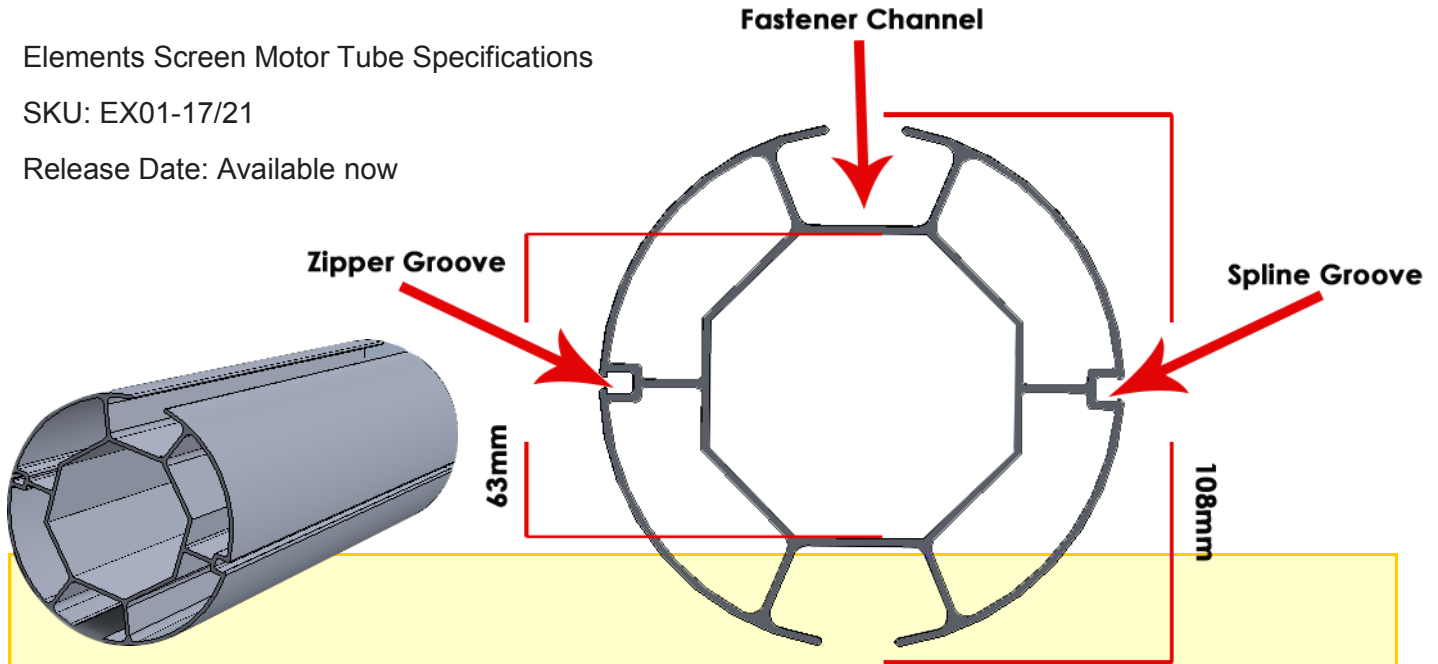
Heavy duty bottom bar retains a taut screen; weighted down with marine grade stainless steel to avoid corrosion

	Component Name	Item #	Specifications
	Elements <sup>TM</sup> Screens Bottom Bar	WSA9001F (Front) WSA9001B (Back)	2-piece sold in 21' (6.4m) lengths. (Weighted down with corrosion resistant stainless steel bar)

Elements Screen Motor Tube Specifications

SKU: EX01-17/21

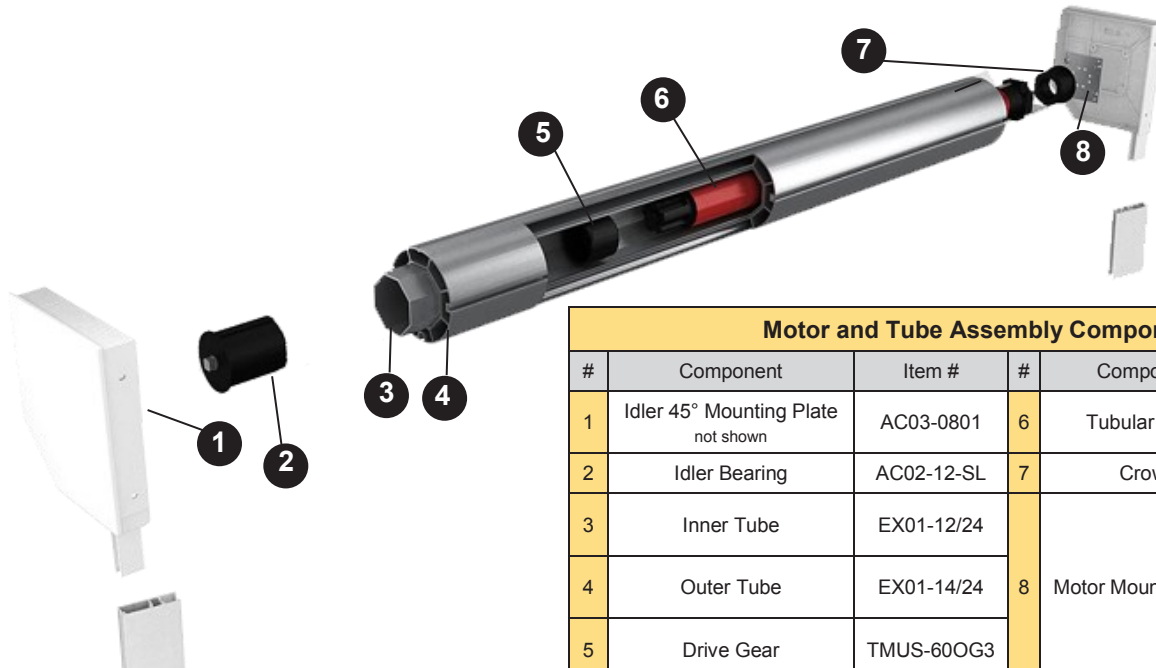
Release Date: Available now



**Features and benefits:**

- Reach taller heights. Bigger tube diameter creates drop area for the zipper. This allows for flawless installations up to 21' (6.4m) tall.
- Made of high strength 6063-T6 aluminium.
- Small grooves on either side to slide in a zipper or for spline.
- Bigger built-in channel on either side allows for faster assembling. Just drive screw through the channel. No pre-drilling, counter sinking or filing needed.
- Compatible with 60mm tube.

Component Name	Item #	Specifications	Material
elements 4 1/4" (10.80cm) Outer Tube	EX01-17/21	108mm Round; ID 63mm; OD 108mm; sold in 21' (6.4m) lengths	6063-T6 aluminum



Motor and Tube Assembly Components					
#	Component	Item #	#	Component	Item #
1	Idler 45° Mounting Plate not shown	AC03-0801	6	Tubular Motor	20—50 Nm
2	Idler Bearing	AC02-12-SL	7	Crown	TMUS-60OC3
3	Inner Tube	EX01-12/24	8	Motor Mounting Plate	AC03-1201 without override
4	Outer Tube	EX01-14/24			AC03-03A with override
5	Drive Gear	TMUS-60OG3			AC03-04 with Smart Series

## Specifications

### FEATURES AND BENEFITS:

- elements Screen zipper system and seams are Radio Frequency Welded (heat welded) for extreme support.
- The screen Entry Guide on the Side Rail aligns and stabilizes screening to perfection.
- The heavy duty zipper system and Bottom Bar reduce friction providing precision lifting and lower capacity.
- There is no need to re-tension screens after installation. The heavy duty Bottom Bar retains the screen taut.
- The Bottom Bar is weighted down with marine grade stainless steel bars to avoid corrosion.
- All corners are reinforced for added strength.
- Motor Tubes are engineered to limit deflection.
- The screen is splined directly to the Motor Tube to eliminate sagging.
- No screws are visible in the side rails or Bottom Bar providing a clean, elegant appearance.
- elements Screen features MaestroShield Tubular Motors and Electronics, tested for their quality and strength and are supported by industry leading warranties.

### SIZING:

- The maximum width and height is: 21' x 21' (6.4m x 6.4m).
- End Cap profile is 5 ½" (139mm) limited to 17' x 17' (5.18m x 5.18m) or 21' x 12' (6.4m x 3.65m).
- End Cap profile 6 ½" (165mm) limited to 21' x 21' (6.4m x 6.4m).

- Side Rails are 2" (5.08 cm).
- Surface mount side rails and recessed track side rails: Max. width and length: 21' x 21'. (6.4m x 6.4m)
- Outer Track: Sold in 21' (6.4m) lengths. Size 2.2" x 1.5" (5.5cm x 3.8cm).

### MOUNTING:

Four mounting options available. (Face mount or trapped installation with adjustable bracket system. Can be installed with or without hood assembly.)

- Flush Mount: Installed flush to the wall.
- Trapped Mount: Installed in a restricted space with no room above or on the sides.
- Recessed Mount: Installed with tracks or hood located in a wall, ceiling or other architectural feature.
- Surface mount installations use 45° hoods or round hoods.

For installations over 17' (5.18m) x 17' (5.18m), use at least a 6 ½" (165mm) hood.

### WARRANTIES:


- Powder Coating Warranty: AAMA 2603 (Interpon D1010 - 10-year nationwide; 1-year marine environment (within 1 mile of coastal shoreline)
- Most Tubular Motors are supported by a 5 Year replacement warranty. Smart Motors are supported by a 3 Year replacement warranty
- Electronics are supported by a 2 Year replacement warranty.

**NOTE: Elements Screen is not rated for wind abatement. Some "sailing" will occur in windy conditions and it is recommended that the screen is only raised or lowered when the wind subsides.**

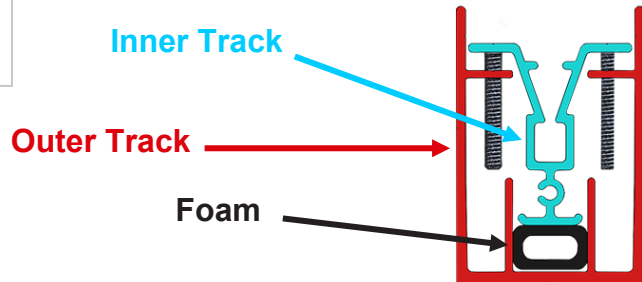
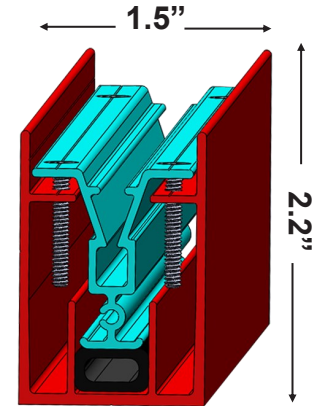
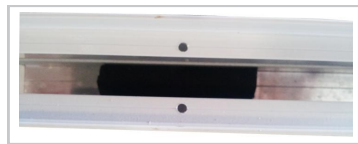
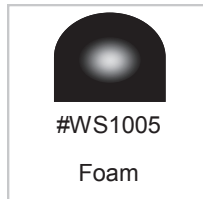




**(E) elements™  
Screen Dual  
Recessed Track  
System with Foam  
Inserts**

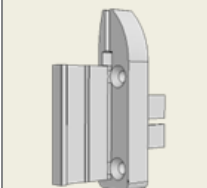
	Component Name	Item #	Specifications
	Elements™ Recessed Track	<b>Inner Track</b> WSA9030F  <b>Outer Track</b> WSA9030B	Two piece track system. Sold in 21' (6.4m) lengths. 2.2" x 1.5" (5.6cm x 3.8cm) Available in White, Ivory, Bronze and Beige

Two piece adjustable system with inner and outer track, makes difficult installations easier. Foam tubing placed between inner and outer tracks allow flexibility and adjustability. Use "D" Shaped Foam with sticky tape.



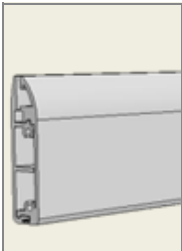
**(F) Bottom Bar End Retention**



	Component Name	Item #	Specifications
	Bottom Bar End Retention	WS9003A	Nylon; sold as left and right

**(G) elements™ Screen Bottom Bar**


Heavy duty bottom bar retains a taut screen; weighted down with marine grade stainless steel to avoid corrosion

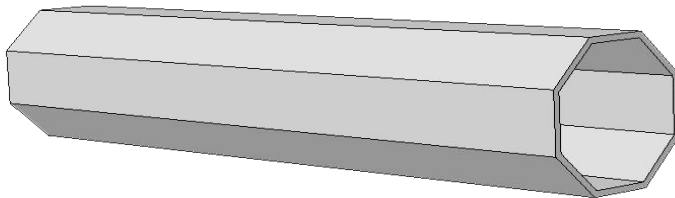
	Component Name	Item #	Specifications
	Elements™ Screens Bottom Bar	WSA9001 B/F (Back & Front)	2-piece; sold in 21' (6.4m) lengths. (Weighted down with corrosion resistant stainless steel bar; )



**(A) 2 Piece Bracket System**

- Polyurethane Powder-Coated Steel; 4" (10.16cm) Angle for bracket mounting system
- Polyurethane Powder-Coated Steel; for use with Small Angle Bracket (AC0310), 6"x4" (15.24cm x 10.16cm)
- This universal bracket system is adjustable for your choice of installation between a trapped install and a face mounted install.

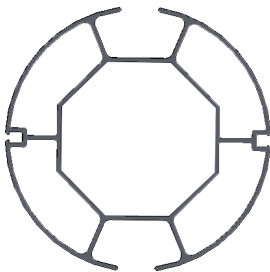
	Component Name	Item #	Specifications
	Idler Bearing Cradle 100mm X 100mm (3.937" x 3.937")	AC03-40	Polyurethane Powder-Coated Steel; includes Plastic Cap and Setting Pin; pre-drilled, 100mm X 100mm (3.937" x 3.937")



**(B) 60mm Octangular Inner Tube  
EX01-16/21**

- New Stronger Design

**(C) elements™ Screen Motor Tube**



4 1/4" Outer Tube  
(10.80cm)

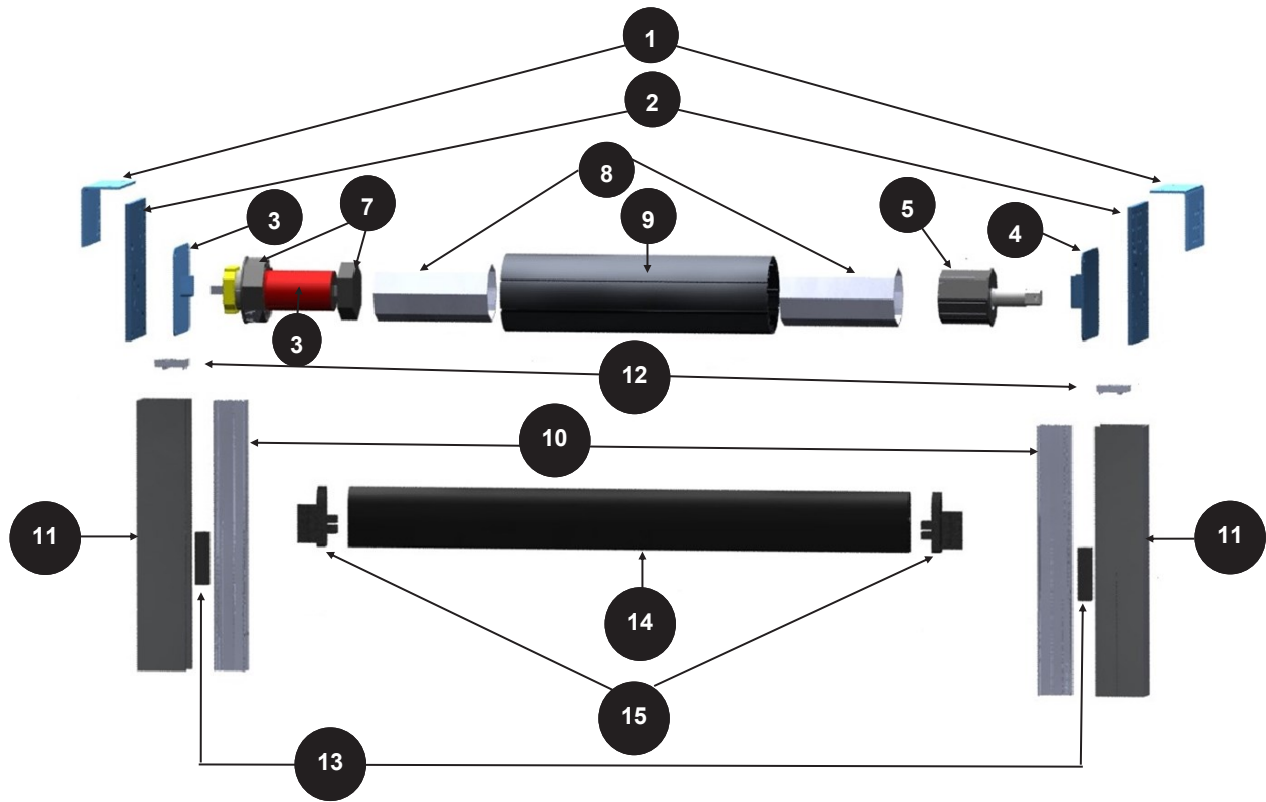


Component Name	Item #	Specifications
60mm Inner Tube	EX01-16/21	60mm Octagonal; ID—57mm, OD—62mm; sold in 24' (6.4m) lengths
3 1/2" (8.9cm) Outer Tube	EX01-14/24	88mm Round; ID—63mm, OD—88mm; sold in 17' (5.18m) and 21' (6.4m) lengths. For installations up to 12' (3.65m)
4 1/4" (10.80cm) Outer Tube	EX01-17/21	108mm Round; ID—63mm, OD—108mm; sold in 17' (5.18m) and 21' (6.4m) lengths. For installations up to 21' (6.4m) long x 21' (6.4m)wide.

**(D) Entry Guide**



Component Name	Item #	Specifications
Entry Guide	WS9005	Black nylon; seamlessly guides screen into side rails; sold in pairs



**Features & Benefits:**

- elements Screen zipper system and seams are radio frequency welded (heat welded) for extreme support.
- Does not require hood assembly. Easier installation with new adjustable inner and outer track design.
- Inner track foam to allow maximum support and adjustability.
- The screen is splined directly to the motor tube to eliminate sagging.
- elements Screen features MaestroShield tubular motors and electronics, tested for their quality and strength and are supported by industry leading warranties.

**Sizing:**

- Surface mount and recessed track:** Max. width 21' x 21' (6.4m x 6.4m)
- Outer Track:** Sold in 21' lengths. Size 2.2" x 1.5". (5.6cm x 3,6cm)

**Mounting:**

- Four mounting options available. Face mount or trapped installation with adjustable bracket system. Can be installed with or without hood assembly.
- Surface mount installations use 45° and round hoods.
- For installations over 17' x 17' (5.18m x 5.18m), use at least a 6 1/2" (165mm) hood or no hood.

**Warranties:**

- Powder coating warranty: AAMA 2603 (Interpon D1010 - 10-year nationwide; 1-year marine environment (within 1 mile of coastal shoreline).
- Most tubular motors are supported by a 5 year replacement warranty. Smart motors are supported by a 3 year replacement warranty.
- Electronics are supported by a 2 Year replacement warranty.

Recessed Track System Assembly Components					
#	Component	Item #	#	Component	Item #
1	Angled Mounting Bracket	AC03-10	10	Inner Track	WSA9030F
2	Mounting Bracket	AC03-50	11	Outer Track	WSA9030B
3	Motor Bracket	AC03-04	12	Entry Guide	WS9005
4	Idler Bracket	AC03-40	13	Track Foam	WS1005
5	Idler Bearing	AC02-12	14	Bottom Bar	WSA9001
6	Motor	Variable	15	End Retention	WS9003A
7	Crown & Drive Gear	TMUS-600C3 TMUS-600G3	16	3/4 Brush Seal Black or 1-1/4"	AC05-01 or AC05-03
8	Inner Tube (60mm)	EX01-16/21	17	Weight Bar	WSA9001
9	Outer Tube 4.25" (10.8cm)	EX01-17/21	18	Spline	WS1003

**Smart Series Motors 20—50 Nm**  
(see motor section for SKU's/Specs)

- Built-in Receiver
- Easy-to-Set Electronic Limit Switch
- 3-year 100% replacement Warranty coverage
- No Manual Override
- Universal Accessories, Crown and Drive Gears for a variety of motor tubes.

Smart Series Motor Torque	Max Lift Capacity per Tube Size
	Element Screen Motor Tube (see extrusions/tube section)
20 Nm	77 lbs (34.9 kg)
50 Nm	192 lbs (87 kg)

**New Hybrid Series Motors 20—50 Nm**  
(see motor section for SKU's/Specs)

- Built-in Receiver
- Mechanically set limits with dual sided limit access
- 3-year 100% replacement Warranty coverage
- No Manual Override
- Universal Accessories, Crown and Drive Gears for a variety of motor tubes.

Smart Series Motor Torque	Max Lift Capacity per Tube Size
	Element Screen Motor Tube (see extrusions/tube section)
20 Nm	77 lbs (34.9 kg)
50 Nm	192 lbs (87 kg)

**Harmony Series Motors 20—50 Nm**  
(see motor section for SKU's/Specs)

- Quiet 120V motor series
- 5 year 100% replacement Warranty coverage
- No Manual Override
- Mechanically set limits with dual sided limit access
- Universal Accessories, Crown and Drive Gears for motor tubes over 38mm/1-inch are available

Harmony Series Motor Torque	Max Lift Capacity per Tube Size
	Element Screen Motor Tube (see extrusions/tube section)
20 Nm (19 rpm)	77 lbs (34.9 kg)
20 Nm (32 rpm)	77 lbs (34.9 kg)
50 Nm	192 lbs (87 kg)

**Prodigy Series Motors 20—50 Nm**  
(see motor section for SKU's/Specs)

- Manual Override
- 5 year 100% replacement Warranty coverage
- Mechanically set limits with dual sided limit access
- Universal Accessories, Crown and Drive Gears for motor tubes 49mm (1.9") and over are available.

Prodigy Series Motor Torque	Max Lift Capacity per Tube Size
	Element Screen Motor Tube (see extrusions/tube section)
20 Nm (19 rpm)	77 lbs (34.9 kg)
20 Nm (32 rpm)	77 lbs (34.9 kg)
50 Nm	192 lbs (87 kg)



# Features of MaestroShield's elements™ Screen Exterior Screening

(that your Sales Team needs to know by heart!)

1. The strength of elements™ Screen's motor tube coupled with the extruded hood allows for installations up to 21' (6.4m) wide without sagging.
2. Side tracks are only 2" (5.08cm) wide and 5/8" (.16cm) thick, enabling the frame to blend, unobtrusively, in with the building's façade.
3. MaestroShield has the only extruded hood on the market. Our extruded hood is 32% thicker than sheet metal hoods, making it resistant to denting in shipping and handling, and impact resistant when installed. Our side caps, featuring deep galvanized steel threaded inserts for attaching the mounting plates, are 87% thicker than standard universal side caps.
4. The 5 1/2" (139mm) hood assembly and small profile side rails are light weight and allow for **quick and easy installation**.
5. The 2-piece side track enables you to hide the mounting screws for a cleaner, more attractive appearance.
6. The contoured bottom bar, designed to retract into the hood assembly, accommodates a weighted steel bar insert which assists in keeping the screen taut and operating smoothly.
7. Zipper system allows screen to be tensioned and still run smoothly without needing adjustment.
8. Nylon entry guides provide for clean entry of zipper into side rails, assuring smooth operation for the lifetime of the assembly. **PLUS**, the guide allows for the bottom bar to retract almost entirely into hood.
9. Heavy duty idler system allows for smooth and quiet operation. Spring-loaded idler allows for simple installation of motor tube assembly and, for a quick and easy removal of assembly, if needed.
10. Industry-leading warranties:
  - 10-year warranty on powder coating (1-year in coastal regions within 1 mile of saltwater coastline)
  - 5-year full replacement warranty on tubular motors (3-year for Smart Series motors with internal receiver)
  - 2-year full replacement warranty on electronics and components



**MaestroShield®**

**PROTECTION**  
*Like No Other™*

# Aluminum Roll Down Shutters



- Security Shutters
- Hurricane Shutters
- Storm and Weather Protection
- Loss Prevention
- Property Protection

# Roll Down Shutters | Security Barriers



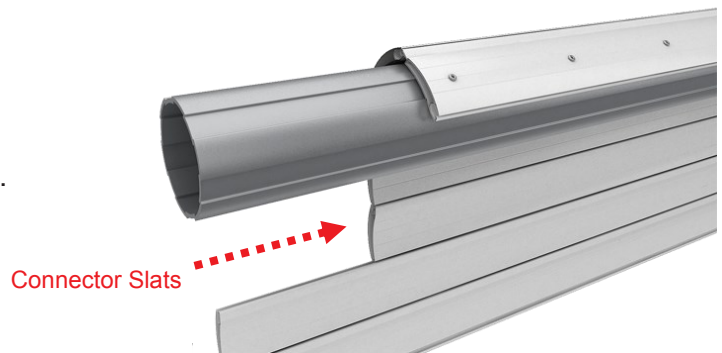


# Roll Down Shutters | Security Barriers

Engineered to be the best, MaestroShield® End Retention Roll Down Shutters are designed for strength and beauty. Our strength has been rigorously tested and certified and span industry leading widths up to 262" (6.6m) and heights up to 252"(6.4m). Our beauty is in the versatility of our system which offers the choice of slat venting, multiple colors, and a wide array of motors and electronics that will seamlessly integrate your system providing comfort and convenience.

## Security Features of MaestroShield® Aluminum Roll Down Shutters:

- MaestroShield's End Retention system, with riveted end retention slat locks, provides superior security and protection against intrusion, high speed winds, wind-born debris and Ultra-Violet solar radiation.
- MaestroShield's Aluminum Roll-Down shutters have some of the industries highest design pressure capacities and have been issued a notice of acceptance with Miami Dade County, Florida Building Code and Texas Department of Insurance. With a test pressure load exceeding 120 psf, a 10 ft. (3.05m) wide by 10 ft. (3.05m) high span of MaestroShield's end retention can withstand over 15,000 lbs (6,803 kgs) of pressure.
- With connector slats all the way up to the motor tube, a MaestroShield aluminum curtain does not allow for any give if an intruder tries to lift it from the bottom.
- Optional locking bottom bar for added security and a greater design load.



Locking Bottom Bar

- MaestroShield® offers the first impact rated hood assembly on the market.
- Recommended for doors, windows, porches, lanais, balconies, porticos and store fronts with available sizes up to 262" (6.6m) in width and 252" (6.4m) in height.
- Available colors: White, Beige, Ivory and Bronze which include a 10 year warranty on powder coating (with 1 year warranty at coastal areas within 1 mile of salt water).
- Vented and Non-Vented slats are available.
- Manual operated versions lifting capacity is up to 350 lbs (159 kgs) without spring assistance.

# Roll Down Shutters | Security Barriers

## 56mm End Retention Aluminum Roll Down Shutters

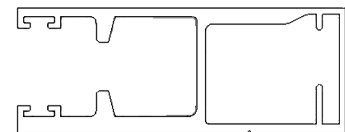
- 262.75" (6.67m) maximum width
- 252" (6.4m) maximum height

**Design Load Table**  
(based on 360" (9.144m) height)

DESIGN LOAD "W" (P.S.F.)	MAXIMUM SLAT SPAN	Lbs. of pressure Shutters can withstand
50	21'- 10"	32,749
55	21'- 6"	35,475
60	21'- 2"	38,098
65	21'- 4"	39,649
70	19'- 7"	41,124
75	18'- 11"	42,561
80	18'- 4"	43,999
85	17'- 9"	45,262
90	17'- 3"	46,575
95	16'- 9"	47,737
100	16'- 0"	48,000
105	15'- 3"	48,037
110	14'- 6"	47,850
115	13'- 11"	48,010
120	13'- 4"	47,998

**Metric Design Load Table**  
(based on 9.144m (360") height)

DESIGN LOAD "W" (P.S.F.)	MAXIMUM SLAT SPAN	kgs of pressure Shutters can withstand
50	6.4m - 25.4cm	14,855
55	6.4m - 15.24cm	16,091
60	6.4m - 5.08cm	17,281
65	6.4m - 10.16cm	17,985
70	15.8m - 17.78cm	18,654
75	5.5m - 27.94cm	19,305
80	5.5m - 10.16cm	19,958
85	5.2m - 22.86cm	20,530
90	5.2m - 7.62cm	21,126
95	4.9m - 22.86cm	21,653
100	4.9m - 0cm	21,727
105	4.6m - 7.62cm	21,789
110	4.6m - 15.24cm	21,704
115	4.0m - 27.94cm	21,777
120	4.0m - 10.16cm	21,772



**Profile of :**  
**56mm End Retention**

# Roll Down Shutters | Hurricane and Weather Barriers



# Roll Down Shutters | Hurricane and Weather Barriers

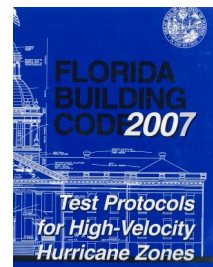
Engineered to be the best, MaestroShield® End Retention and Non-End Retention Roll Down Shutters are designed for strength and beauty. Our strength has been rigorously tested and certified and span industry leading widths up to 262" (6.6m) and heights up to 252"(6.4m). Our beauty is in the versatility of our system, which offers the choice of slat venting, multiple colors, and a wide array of motors and electronics that seamlessly integrate your system while providing comfort, convenience and unparalleled security and protection against intrusion, high speed winds, wind-born debris and Ultra-Violet solar radiation for your home or business.

## Aluminum Roll Down Shutters as Hurricane Protection:

- Both MaestroShield® end retention and non-end retention shutters have approval from Miami Dade County, Florida Building Code, and Texas Department of Insurance. With some of the highest design pressure ratings in the industry, a 21' (6.4m) width end retention shutter can withstand sustained wind speeds of over 145 mph (233 kph) without a storm bar, while a 10' (3m) width end retention shutter can withstand wind speeds of over 220 mph (354 kph) without a storm bar.
- Locking bottom slat available for extra security and design load
- Connector slats attach slats to motor tube for greater stability and added security

## End Retention Benefits:

- 56mm (2.20") Shutters: approved up to 262" (6.3m) wide and 252" (6.4m) high
- 44mm (1.73") Shutters: approved up to 146.5" (3.7m) wide and 252" (6.4m) high
- Reinforced aluminum Side Rails
- End Retention Slat Locks engineered from high-strength Nylon 6/6
- Rivets attach End Retention Slat Locks to Slat
- Tested and Certified by:



TEXAS DEPARTMENT OF INSURANCE

## Other Aluminum Roll Down Shutter Features:

- End Retention and Non-End Retention Versions
- Vented and Non-Vented 44mm (1.73") and 56mm (2.20") Slats
- Idlers with Stainless Steel Idler Bearings
- Mounting Plates are Polyurethane Powder-Coated to Resist Corrosion
- Available in White, Beige, Ivory and Bronze with a 10-Year Warranty on Powder Coating
- Manual Operated Versions lifting capacity is up to 350 lbs (159 kgs) without Spring Assistance
- Motorization available with MaestroShield® tubular motors up to 1011 lbs (499 kgs) and wireless electronics which accommodate a wide range of applications.
- Impact-rated Hood Components

### Certifications:

Miami Dade County: NOA# 07-0711.02

Florida Building Code: FL7873-R5, FL7873-R6,  
FL8622-R1, FL12766

Texas Department of Insurance: SHU150

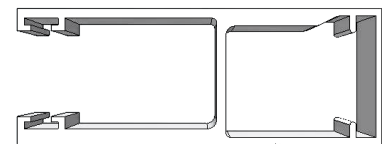
# Roll Down Shutters

Hurricane and Weather Barriers  
Non-End Retention

**56mm (2.20") Non-End Retention Aluminum  
Roll Down Shutters**

- 88.375" (2.24m) maximum width w/o storm bars
- 252" (6.4m) maximum height

HVHZ			Non-HVHZ	
TABLE 1			TABLE 1	
W/O END RETENTION - NO STORMBARS			W/O END RETENTION - NO STORMBARS	
DESIGN LOAD "W" (P.S.F.)	MAXIMUM SLAT SPAN	MINIMUM SEPARATION TO GLASS	DESIGN LOAD "W" (P.S.F.)	MAXIMUM SLAT SPAN
30	5' - 11"	3"	30	7' - 4"
35	5' - 8"	3"	35	7' - 4"
40	5' - 6"	3"	40	7' - 4"
45	5' - 4"	3"	45	7' - 3"
50	5' - 3"	3"	50	6' - 10"
55	5' - 1"	3"	55	6' - 6"
60	5' - 0"	3"	60	6' - 3"
65	4' - 11"	3"	65	6' - 0"
70	4' - 10"	3"	70	5' - 9"
75	4' - 9"	3"	75	5' - 7"
80	4' - 8"	3"	80	5' - 5"
85	4' - 7"	3"	85	5' - 3"
90	4' - 6"	3"	90	5' - 1"
95	4' - 5"	3"	95	4' - 11"
100	4' - 5"	3"	100	4' - 10"
105	4' - 4"	3"	105	4' - 9"
110	4' - 3"	3"	110	4' - 7"
115	4' - 3"	3"	115	4' - 6"
120	4' - 2"	3"	120	4' - 5"
125	4' - 2"	3"	125	4' - 4"
130	4' - 1"	3"	130	4' - 3"
135	4' - 1"	3"	135	4' - 2"
140	4' - 0"	3"	140	4' - 1"
145	4' - 0"	3"	145	4' - 0"
150	3' - 11"	3"	150	3' - 11"
155	3' - 11"	3"	155	3' - 10"
160	3' - 11"	3"	160	3' - 10"
165	3' - 10"	3"	165	3' - 9"
170	3' - 10"	3"	170	3' - 8"
175	3' - 10"	3"	175	3' - 8"
180	3' - 9"	3"	180	3' - 7"



**Profile of 56mm (2.20")  
Non-End Retention  
Side Rail**

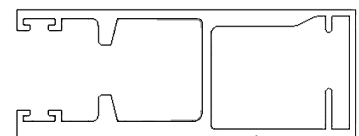
# Roll Down Shutters

| Hurricane and Weather Barriers  
End Retention

## End Retention Aluminum Roll Down Shutters

- ◆ 262.75" (6.6m) maximum width
- ◆ 252" (6.4m) maximum height

HVHZ			Non-HVHZ	
TABLE 2B			TABLE 2	
W/ END RETENTION - NO STORMBARS			W/ END RETENTION - NO STORMBARS	
DESIGN LOAD "W" (P.S.F.)	MAXIMUM SLAT SPAN	MINIMUM SEPARATION TO GLASS	DESIGN LOAD "W" (P.S.F.)	MAXIMUM SLAT SPAN
30	21' - 10"	21"	30	21' - 10"
35	21' - 10"	24"	35	21' - 10"
40	21' - 10"	27"	40	21' - 10"
50	21' - 10"	34"	45	21' - 10"
55	21' - 6"	34"	50	21' - 10"
60	21' - 2"	35"	55	21' - 6"
65	20' - 4"	33"	60	21' - 2"
70	19' - 7"	30"	65	20' - 4"
75	18' - 11"	29"	70	19' - 7"
80	18' - 4"	27"	75	18' - 11"
85	17' - 9"	25"	80	18' - 4"
90	17' - 3"	24"	85	17' - 9"
95	16' - 9"	23"	90	17' - 3"
100	16' - 0"	20"	95	16' - 9"
105	15' - 3"	17"	100	16' - 0"
110	14' - 6"	15"	105	15' - 3"
115	13' - 11"	14"	110	14' - 6"
120	13' - 4"	12"	115	13' - 11"
			120	13' - 4"



Profile of End Retention Side Rail

# Roll Down Shutters | Assembly Specifications

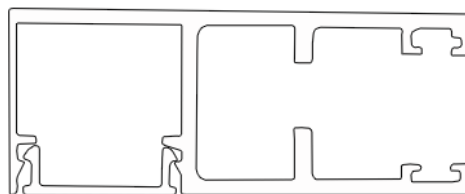
EA<sup>®</sup> 44mm End Retention Aluminum Roll Down Shutters

146.5" (3.7m) maximum width

## Non-HVHZ

Table 1  
Span Schedule - No Storm Bars

Slat Span IN / MTR	Allowable Design Pressure	
	IN / MTR	PSF
61.2" / 1.55m	+ 93.0" / 2.36m	- 93.0 PSF
70.0" / 1.78m	+ 78.6" / 2.00m	- 81.3 PSF
80.0" / 2.03m	+ 69.2" / 1.76m	- 73.8 PSF
90.0" / 2.29m	+ 63.4" / 1.61m	- 69.3 PSF
98.3" / 2.50m	+ 60.0" / 1.52m	- 66.7 PSF
100.0" / 2.54m	+ 58.8" / 1.49m	- 65.0 PSF
110.0" / 2.79m	+ 52.8" / 1.04m	- 57.1 PSF
120.0" / 3.05m	+ 48.3" / 1.23m	- 51.0 PSF
130.0" / 3.30m	+ 44.6" / 1.13m	- 46.1 PSF
140.0" / 3.56m	+ 41.7" / 1.06m	- 42.2 PSF
146.5" / 3.72m	+ 40.0" / 1.02m	- 40.0 PSF



Profile of EA<sup>®</sup> 44mm (1.73")  
End Retention Side Rail

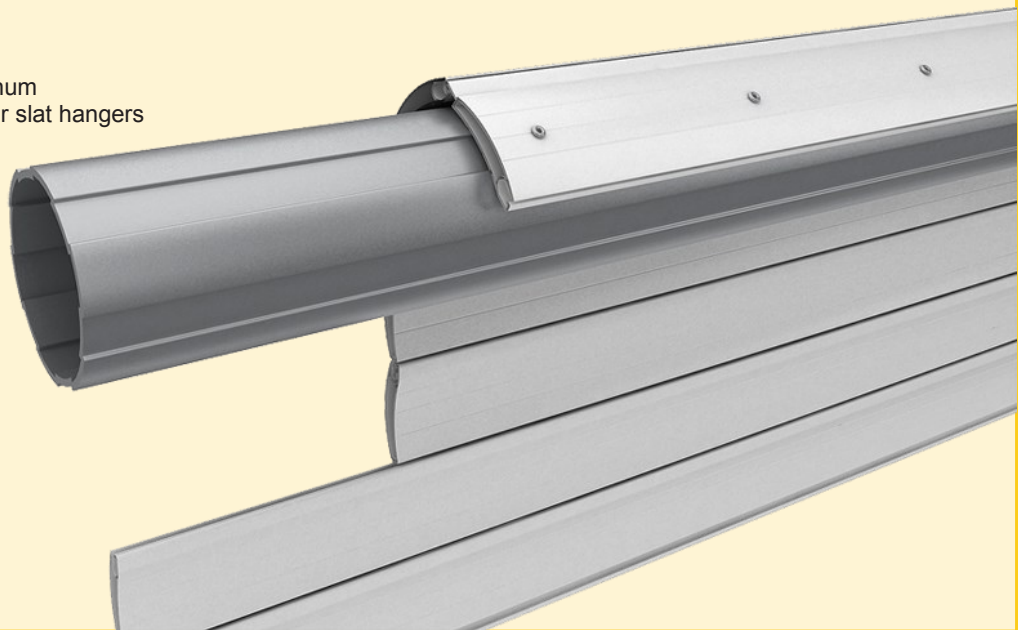
# Roll Down Shutters | Assembly Specifications

## Connector Slats

MaestroShield Roll Down Aluminum Shutters utilize connector slats or slat hangers to connect slat curtain to motor tube.

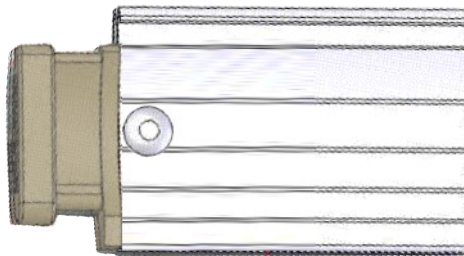
### Advantages of Connector Slats:

- **For greater stability:**  
less movement of the slat curtain
- **For added security:**  
does not allow for any give if an intruder tries to lift it from the bottom



## End Retention

- MaestroShield end retention shutters can span up to a maximum width of 262" (6.6m) without storm bars.
- Because of its malleable properties, MaestroShield's nylon end retention slat locks have greater resistant to breakage than the plastic slat locks used by most of our competitors. Nylon also has a longer lifespan and does not crack as easily as plastic.
- MaestroShield Roll Down Shutters use aluminum rivets to attach end retention slat locks. The rivets are attached at 90° through the slat, making a much stronger connection than screws fastened through the end of slat lock. Also, aluminum rivets through aluminum slats are subject to less corrosion than steel screws into aluminum slats.

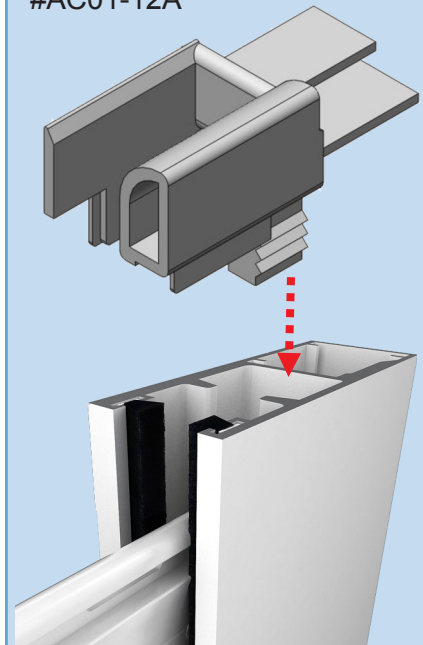


Riveted for superior strength



## Nylon Entry Guide

#AC01-12A

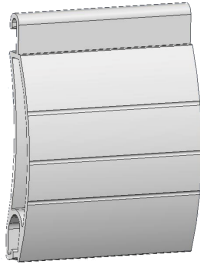


With MaestroShield's nylon entry guide, there is no need to cut and "butterfly" the side rail to allow for slat entry.

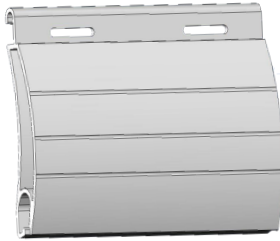


# Extrusions | Aluminum Roll Down Shutters

**Non-Vented  
56mm (2.20") Slat**  
Item # EX01-01S



**Vented  
56mm (2.20") Slat**  
Item # EX01-01V



Slats available in  
white, ivory, beige, and bronze

**Vented 44mm (1.73") Slat**



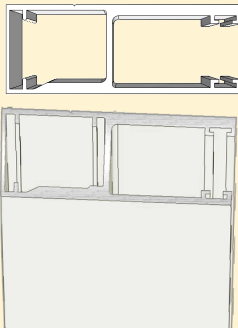
Slat Dimensions - Vented and Non-Vented 56mm			
Width	Height	Wall Thickness	Length
2 1/5" / 56mm	1/2" / 14mm	0.52" / 1.3mm	24' / 7.3m

**Non-Vented 44mm (1.73") Slat**

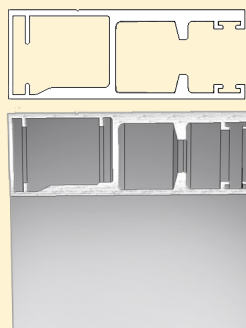


Slat Dimensions - Vented and Non-Vented 44mm			
Width	Height	Wall Thickness	Length
1 3/4" / 44mm	3/8" / 10mm	0.043" / 1mm	24' / 7.3m

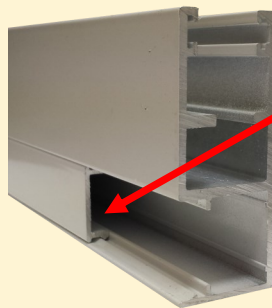
**Non-End Retention  
Side Rail for  
56mm (2.20") Slat**  
Item # EX01-02



**End Retention  
Side Rail for  
56mm (2.20") Slat**  
Item # EX01-05



**End Retention  
Side Rail for  
44mm (1.73") Slat**  
Item # EX01-05



44mm (1.73") Track features  
Snap-On removable front plate  
that conceals screws for a clean  
external appearance.



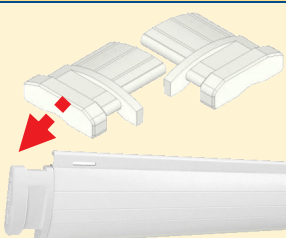
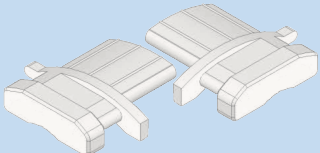
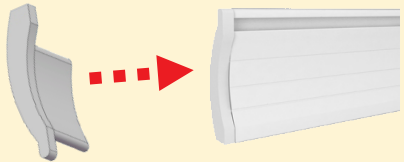
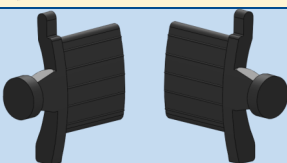



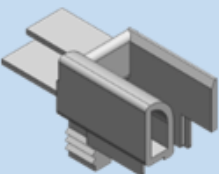

All side rails available in  
white, ivory, beige, and bronze



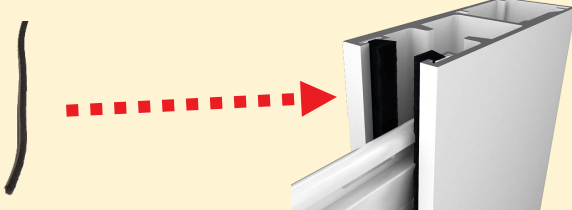
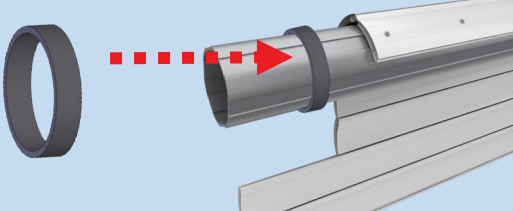

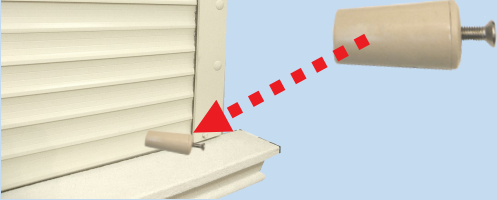

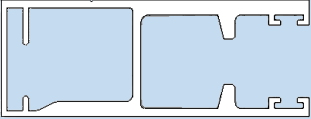
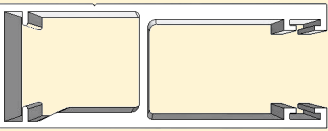

Side Rail Dimensions End Retention or Non-End Retention 56mm			
Width	Height	Wall Thickness	Length
3 1/4" / 80mm	1 1/6" / 30mm	0.083" / 3.8mm	21' / 6.4m

Side Rail Dimensions End Retention or Non-End Retention 44mm			
Width	Height	Wall Thickness	Length
2 3/4" / 70mm	1.1" / 28mm	3/32" / 2.2mm	21' / 6.4m

# Roll Down Shutters | Accessories

	Item Name and Number	Specifications
	<b>1 Wing End Retention Slat Lock</b> Item #AC06-01/1B	1 wing Nylon Available in White Sold in pairs, one right, one left
	<b>2 Wing End Retention Slat Lock</b> Item #AC06-02/1B	2 wings. Nylon Available in White Sold in pairs, one right, one left
	<b>Slat Cap</b> Item #AC01-08	Nylon Available in Black Sold in pairs, one right, one left
	<b>44mm (1.73") Slat Cap</b>	Nylon. Available in White Sold in pairs. One right, one left
	<b>MS® 56mm (2.20") Rivets</b> Item # 2680503 (White) Item # 2680502 (Bronze) Item # 2680506 (Ivory) Item # 2680508 (Beige) <b>EA® 44mm (1.73") Rivets</b> Item # 8610060	56mm (2.20") Rivets available in White, Bronze, Ivory, Beige. Sold per each. 44mm (1.73") Rivets.
	<b>Motor Tube Rivet—3/6"</b> <b>Aluminum Dome Head</b> X.375 x 500 grip Item # AC01-21 / 1000	(4.8mm) Aluminum Dome Head
	<b>Slat Cap Rivet—1/8"</b> <b>0.063 x x .125 GRIP</b> Item # AC01-23 / 1000	(3.2mm) Slat Cap Rivet
	<b>56mm, 44mm Nylon Entry Guide</b> Entry Guide Small Leg Item # AC01-12SM Entry Guide Large Leg Item # AC01-12LG	56mm (2.20"), 44mm (1.73") Sold in pairs One right, one left
	<b>MS® 56mm Slat hanger</b> Item #AC10-01 <b>EA® 44mm Slat hanger</b> Item #AC10-02	56mm (2.20"), 44mm (1.73")

# Roll Down Shutters | Accessories

	Item Name and Number	Specifications
	<p><b>Felt</b> Item #AC01-10</p>	<p>Available in Grey Adhesive backing Sold in 500' rolls (152.4m)</p>
	<p><b>Rubber Ring</b> Item #AC01-05</p>	<p>3-25/32" / 96mm <b>Wall:</b> 3/8" / 10mm Reduces noise and impact of slats against motor tube.</p>
	<p><b>5/8" (16mm) Hole Caps</b> Item #AC01-11</p>	<p>Plastic 5/8" (16mm) diameter Available in White, Ivory, Beige, and Bronze</p>
	<p><b>Conic Stopper</b> Item #AC07-03 Ivory / Beige Item #AC07-04 White Item #AC07-05 Bronze</p>	<p>PVC Restricts curtain from retracting too far into hood. Available in White, Ivory/Beige, and Bronze</p>
	<p><b>5 Sided Hood</b> Available sizes: 5 1/2" (139mm), 7"(178mm), 8"(203mm), 10"(254mm) and 12"(305mm) Item #SM02B (Back) #SM02F (Front)</p>	<p>Available sizes: 5 1/2" (139mm), 7"(178mm), 8"(203mm), 10"(254mm) and 12"(305mm) Available in White, Ivory, Beige, and Bronze</p>
	<p><b>End Retention Side Rail</b> <b>For MS® 56mm (2.20") Slat</b> Item # EX01-05</p>	<p>Width - 3 1/4" (80mm); Height - 1.18" (30mm); Wall Thickness - 5/32" (3.8mm); Sold in 21' (6.4m)</p>
	<p><b>Non-End Retention Side Rail for MS® 56mm (2.20") Slat</b> Item # EX01-02</p>	<p>Width - 3 1/4" (80mm); Height - 30mm; Wall Thickness - 3.8mm; Sold in 21' (6.4m)</p>
	<p><b>End Retention Side Rail for EA® 44mm (1.73") lat</b> Item # 8607-24 (Track) Item # 8608-24 (Cover)</p>	<p>Width - 2 3/4" (70mm); Height - 1,1" (28mm); Wall Thickness - 0.90mm; Sold in 24' (7.3m)</p>



***MaestroShield***<sup>®</sup>

***Protection Like No Other***

4540 Domestic Avenue. Naples, Florida 34104  
Phone: +1.239.596.8883 • Fax: +1.239.596.8823  
Toll Free: 1.866.549.0269

Technical Support: +1.239.206.9115  
[www.maestroshield.com](http://www.maestroshield.com)

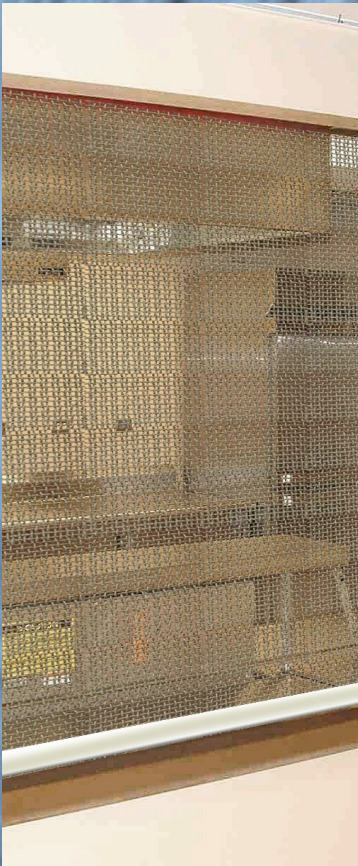


**MaestroShield®**

**PROTECTION**

*Like No Other™*

# Maestran



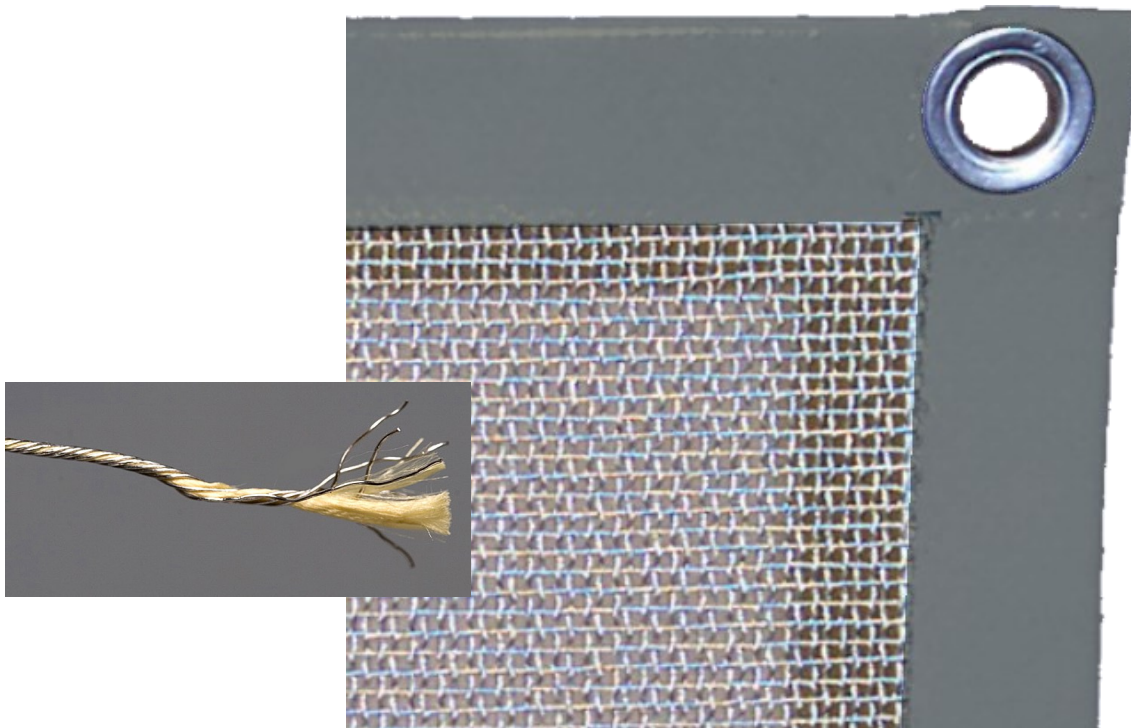
- Security Protection
- Hurricane Protection
- Loss Prevention
- Property Protection

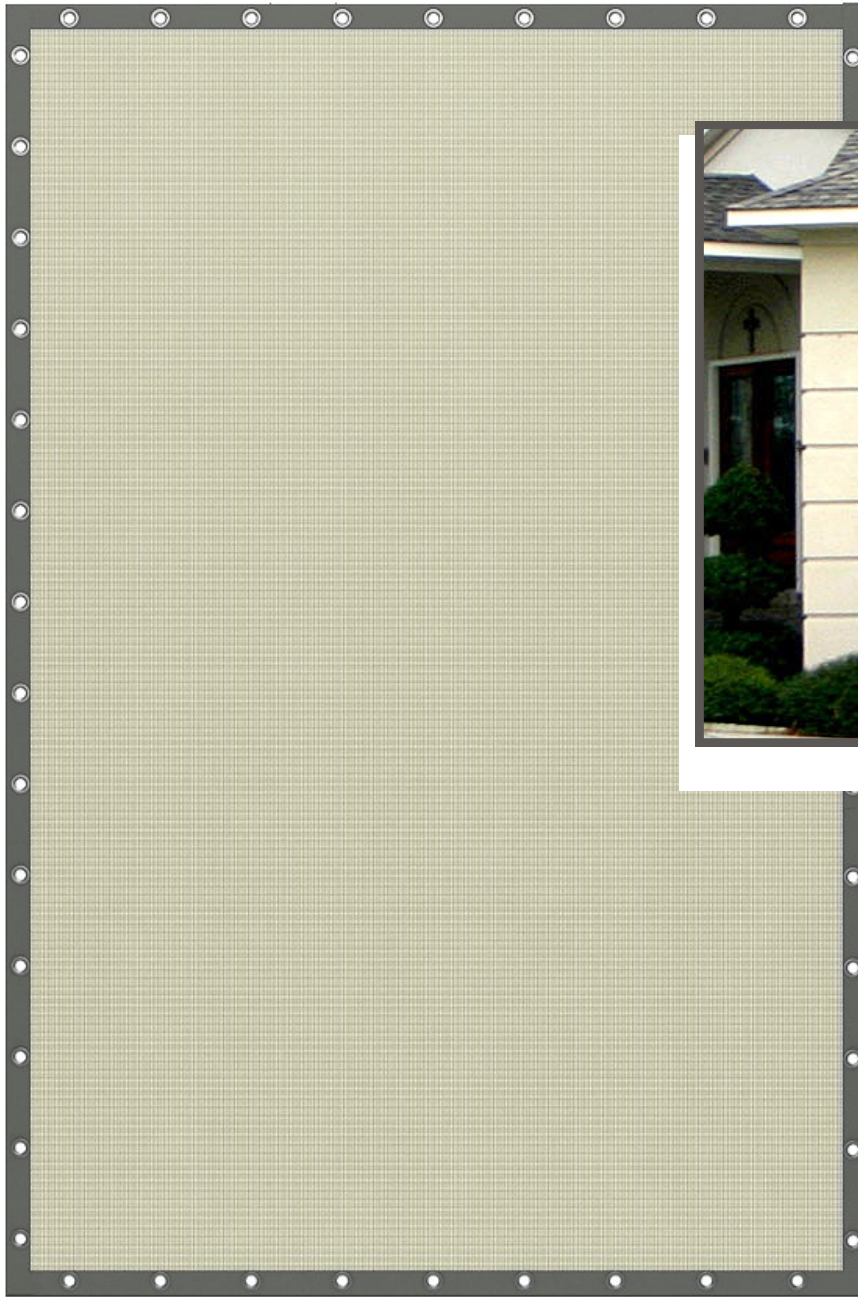
Maestran™ Security Shield is truly protection like no other. The material at the core of Maestran™ is Kevlar®, one of the strongest materials in the world. The six stands of 316 grade stainless steel cabled around the Kevlar® makes Maestran™ resistant to the effects of the elements (such as insects, rain and UV rays), able to be cleaned by power washing without the use of chemicals or chlorine, visually pleasing to the eye from the exterior and semi-transparent from the interior.

Maestran™ the clear choice for security protection for your home, office, or retail location.

## Security Features of Maestran™:

- Maestran™ Security Shield is made from Kevlar®, one of the strongest materials in the world
- With a design pressure rating of up to 200 psf, a 10' (3.05m) wide by 10' (3.05m) high screen of Maestran™ can withstand over 18,400 lbs (8,346 kgs) of force
- Maestran™ screen is rated as large missile impact resistant
- Added benefit of protection from the elements, such as insects, wind, rain, UV rays and debris





**DESIGN PRESSURE RATING**  
±95 PSF

Max Frame Opening Grommetted Version	Item #	Width	Height	Design Pressure	Lbs of pressure 12' X 12' screen can withstand
Maestran with Grommets on 2 Sides (Top and Bottom)	MS01-11-02	Unlimited*	144" (3.7m) max	95.5 psf	13,752 lbs/ 6,238 kgs
Maestran with Grommets on 4 Sides (Top, Bottom, Left, and Right)	MS01-11-04	240" (6.10m) max	Unlimited*	95.5 psf	13,752 lbs/ 6,238 kgs

\*Limited only by the fasteners into the structure.







**MaestroShield®**  
Protection Like No Other

# *Sun Shade*

*Remote controlled interior shading made easy*

**PROTECTION**  
*Like No Other™*

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**MaestroShield's retractable interior shade conversion kits put the beauty of your interior shades into motion.**

---



## Battery operated Do-It-Yourself System

**RETRACTABLES™** is a battery-operated motorized interior shading kit that provides you the flexibility and freedom you need to create your own retractable. Whether it be an exterior solar screen, interior shading, projection screens, retractable banner adds, RV shades, marine shades or anything else that you can come up with, RETRACTABLES ease of installation will save you time and money.



### 1 Nm Smart Silent Motor Kit Includes:

- A. One (1) 1 Nm Lithium Battery Operated Motor with Built-In Receiver
- B. One (1) Battery Charger for 1 Nm Motor
- C. Two (2) Adjustable 3"x3" (7.6cm x 7.6cm) Single Brackets
- D. One (1) Idler Bearing Female Connector with Spring Adjust, 1" (2.54cm) dia.
- E. One (1) Idler Insert 1.5" (3.8cm)
- F. One (1) Snap on Motor Bracket for 1 Nm DC Motor
- G. One (1) Single Channel Remote Hand Held or Wall Mount
- H. One (1) Crown and One (1) Drive for 1 Nm Lithium Battery Motor

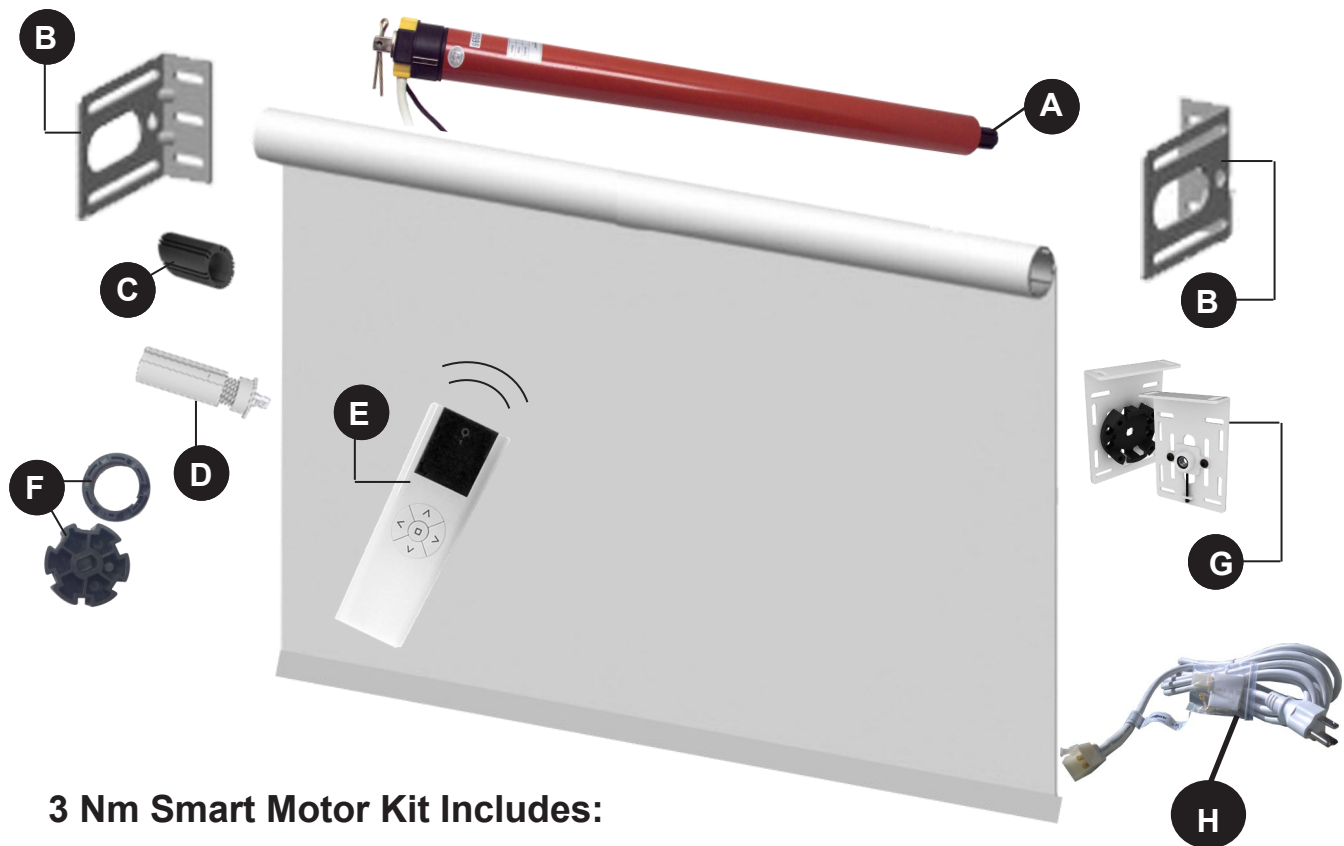
Projects that RETRACTABLES can be applied to are endless. Our battery operated D.I.Y. kit allows you to create and design projects that are specific to your needs. Your imagination is your only limitation. All items are packaged together. 1.5" (3.8cm) motor tubing can be purchased at your local hardware store to perfectly fit your project.

**Note:** EXTRA Battery charger for Smart Motor 12V DC 1 Nm, 30RPM with built-in receiver and lithium battery may be purchased separately.

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**RETROFIT™** is a motorized interior shading kit that provides you the flexibility and freedom you need to create your own retractable. Whether it be an exterior solar screen, interior shading, projection screens, retractable banner adds, RV shades, marine shades or anything else that you can come up with, **RETROFIT™** ease of installation will save you time and money.

---



### 3 Nm Smart Motor Kit Includes:

- A. One (1) Smart silent 3 Nm Limit Switch Tubular Motor with Built-In Receiver, 33RPM
- B. Two (2) Adjustable Motor Brackets
- C. One (1) Idler Bearing Female Connector with Spring Adjust
- D. One (1) Idler Insert 2" (5.08cm)
- E. One (1) Single Channel Remote Hand Held 433MHz
- F. One (1) Crown and One (1) Drive Gear for 3 Nm Tubular Motor
- G. 4"x4" (10.16cm x 10.16cm) Bracket Assembly
- H. Power Cord 8' (2.4m)

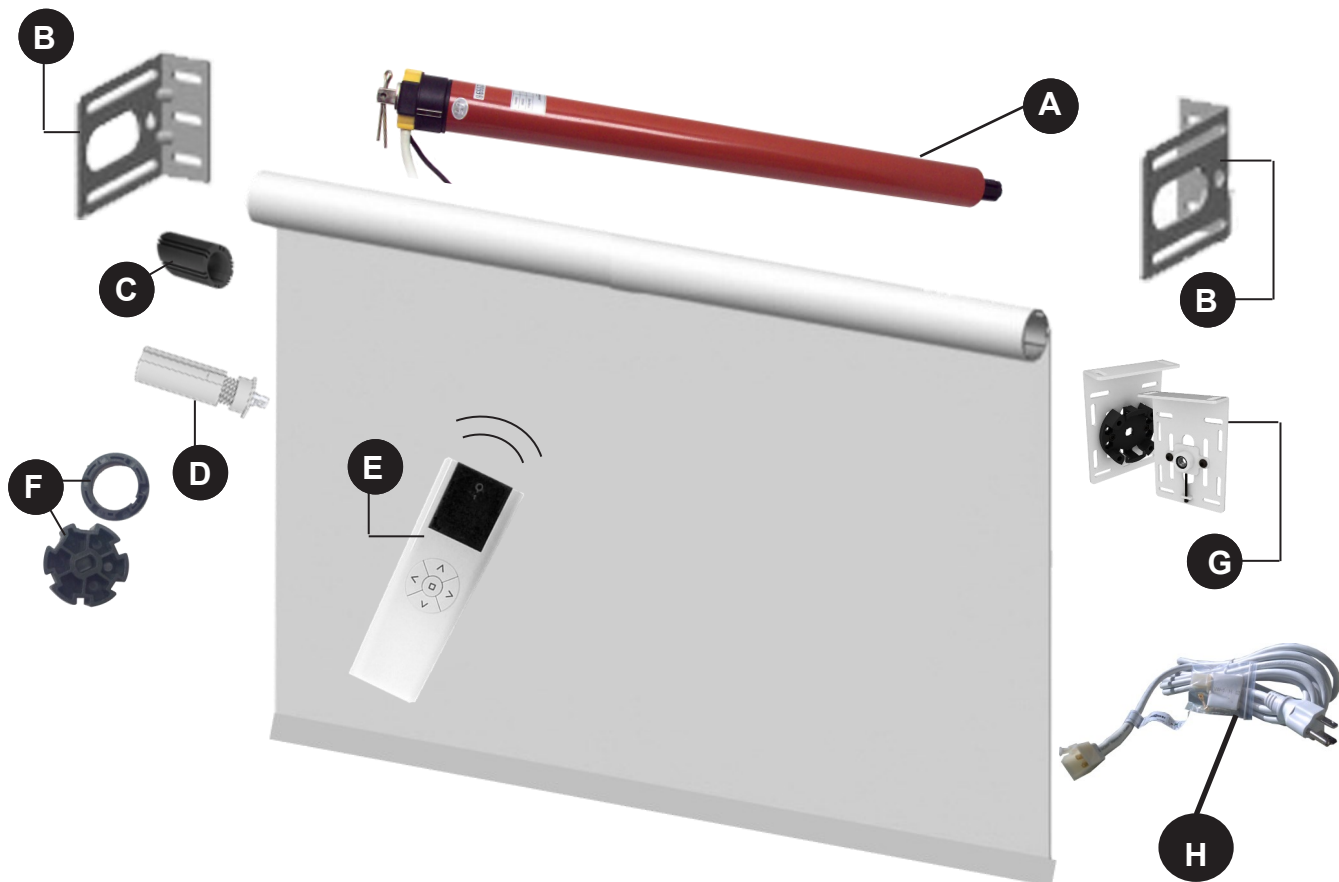
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**Note:** 16' (4.9m) power cord may be purchased separately. All items are packaged together. 2" (5.08cm) motor tubing can be purchased at your local hardware store. Sq. ft. limitations: 112' (34.1m) and 25' (7.6m) height.

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Motorized shades eliminate dangerous cords and create a safe environment for children and pets.

---



### 6 Nm Smart Motor Kit Includes:

- A. One (1) Smart silent 6 Nm Limit Switch Tubular Motor with Built-In Receiver, 28RPM
- B. Two (2) Adjustable Motor Brackets
- C. One (1) Idler Bearing Female Connector with Spring Adjust
- D. One (1) Idler Insert 2" (5.08cm)
- E. One (1) Single Channel Remote Hand Held 433MHz
- F. One (1) Crown and One (1) Drive Gear for 6 Nm Tubular Motor
- G. 4"x4" (10.16cm x 10.16cm) Bracket Assembly
- H. Power Cord 8' (2.4m)

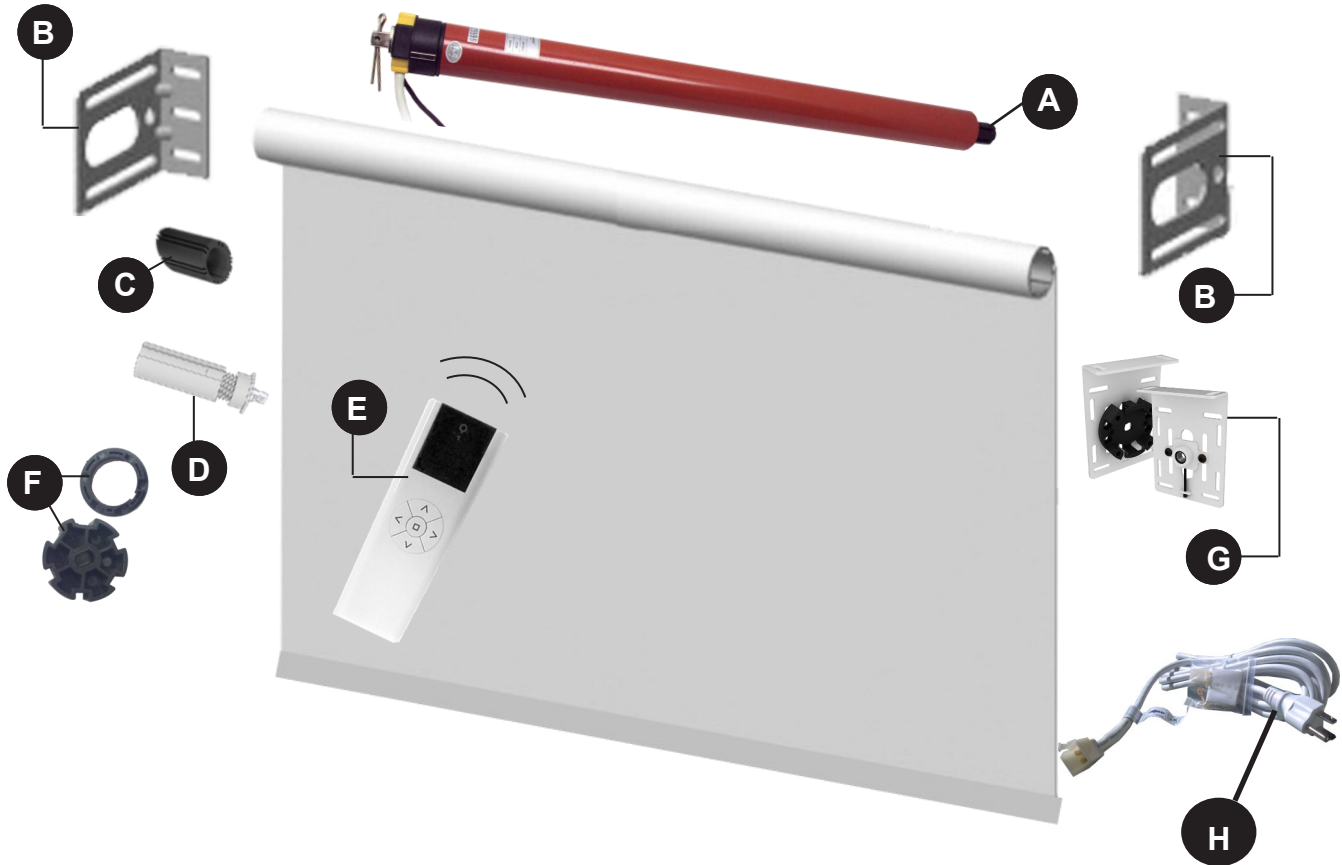
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**Note:** 16' (4.9m) power cord may be purchased separately. All items are packaged together. 2" (5.08cm) motor tubing can be purchased at your local hardware store. Sq. ft. limitations: 224' (68.3m) and 25' (7.6m) height.

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Heavy or hard to reach shades are no longer an inconvenience.

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### 8 Nm Smart Motor Kit Includes:

- A. One (1) Smart silent 8 Nm Limit Switch Tubular Motor with Built-In Receiver, 24RPM
- B. Two (2) Adjustable Motor Brackets
- C. One (1) Idler Bearing Female Connector with Spring Adjust
- D. One (1) Idler Insert 2" (5.08cm)
- E. One (1) Single Channel Remote Hand Held 433MHz
- F. One (1) Crown and One (1) Drive Gear for 8 Nm Tubular Motor
- G. 4"x4" (10.16cm x 10.16cm) Bracket Assembly
- H. Power Cord 8' (2.4m)

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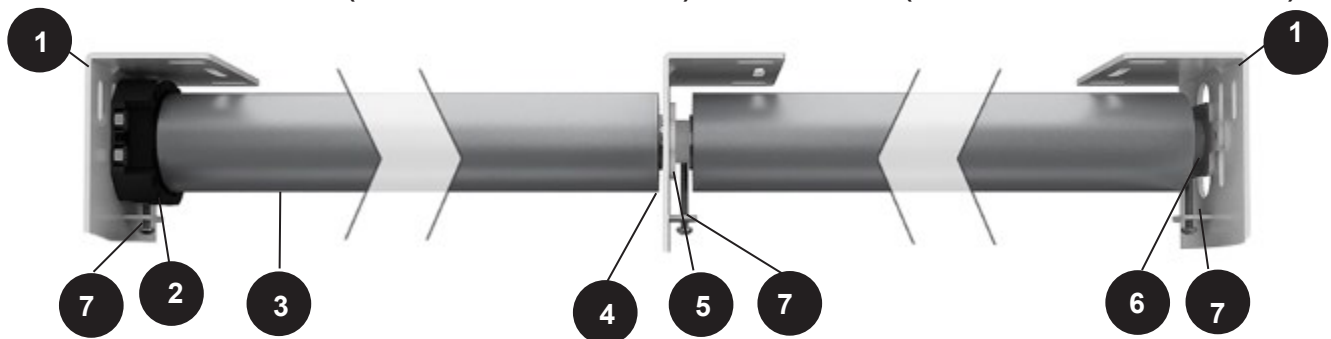
**Note:** 16' (4.8m) power cord may be purchased separately. All items are packaged together. 2" (5.08cm) motor tubing can be purchased at your local hardware store. Sq. ft. limitations: 280' (85.3m) and 25' (7.6m) height.

# Exploded view of a MaestroShade system



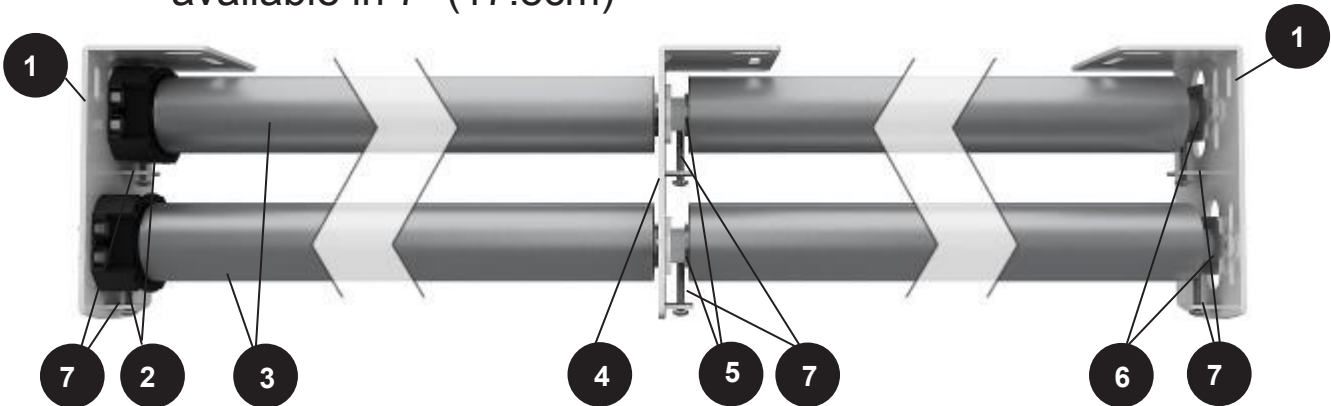
## single bracket with connector bracket

available in 3"x3" (7.62cm x 7.62cm) and 4"x4" (10.16cm x 10.16cm)



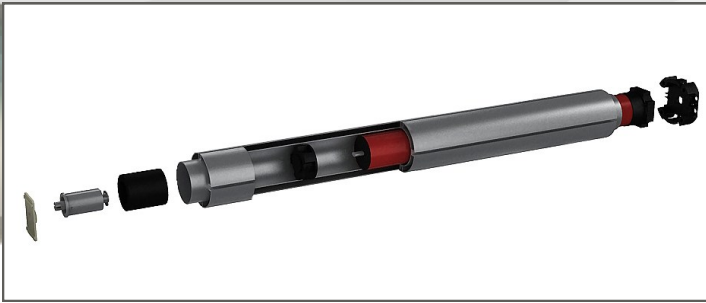
## double bracket with connector bracket

available in 7" (17.8cm)



Bracket Assembly Component Key			
#	Component	#	Component
1	Single or Double Bracket	5	Connector Idler
2	Motor Bracket	6	Idler Bracket
3	Motor Tube	7	Adjustment Screw
4	Connector Bracket		

# Motor and Tube Configurations for Fascia Assemblies



## Compatible Chart for crown, drive gear, idler bearings, motor plate and idler plate with MaestroShield Fascia Assemblies

Motor Tube	Motor	Item #	Crown	Drive Gear	Idler Bearing	Idler Insert	Motor Bracket	Idler Bracket
1" Round (2.54cm)	0.7 Nm Harmony 12V DC	TMDC-.7W/12V	Included w/ motor	Included w/ motor	IS1006F	Not Needed	IS1019	IS1519
	1 Nm Silent 24V DC	SSWR01/30	TMUS-SC458	TMUS-SG472	IS1006F	Not Needed	IS1019	IS1519
1.5" Round (3.8cm)	0.7 Nm Harmony 12V DC	TMDC-.7W/12V	TMUS-C241	TMUS-G265	IS1006F	IS1016	IS1019	IS1519
	3 Nm Harmony 12V DC	TMDC-3W/12V	Not Needed	TMUS35-35RG	IS1006F	IS1016	IS1019 <small>(with AC03-18)</small>	IS1519
	6 Nm Harmony 12V DC or 120V AC	TMDC-6W/12V-24 (DC motor) TMUS35S-06/33 (AC motor)	Not Needed	TMUS35-35RG	IS1006F	IS1016	IS1019 <small>(with AC03-18)</small>	IS1519
1.5" Rollease (3.8cm)	0.7 Nm Harmony 12V DC	TMDC-.7W/12V	TMUS-C241	TMUS-G265	IS1006F	IS1016	IS1019	IS1519
	1 Nm Silent 24V DC	SSWR01/30	TMUS-SC1170	TMUS-SG1171	IS1006F	IS1016	IS1019	IS1519
2" Round (5.08cm)	3 Nm Harmony 12V DC	TMDC-3W/12V	TMUS35-46.5RC	TMUS45-46.5RG	IS1006F	IS1017	IS1019 <small>(with AC03-18)</small>	IS1519
	6 Nm Harmony 12V DC or 120V AC	TMDC-6W/12V-24 (DC motor) TMUS35S-06/33 (AC motor)	TMUS35-46.5RC	TMUS45-46.5RG	IS1006F	IS1017	IS1019 <small>(with AC03-18)</small>	IS1519
	3 Nm Silent 120V AC	SSWR03/28	Not Needed	TMUS-SG197	IS1006F	IS1017	IS1038	IS1519
	6 Nm Silent 120V AC	SSWR06/28	Not Needed	TMUS-SG197	IS1006F	IS1017	IS1038	IS1519
	8 Nm Silent 120V AC	SSWR08/28	Not Needed	TMUS-SG197	IS1006F	IS1017	IS1038	IS1519
2" Rollease (5.08cm)	3 Nm Harmony 12V DC	TMDC-3W/12V	TMUS-C118	TMUS-G133	IS1006F	IS1017	IS1019 <small>(with AC03-18)</small>	IS1519
	6 Nm Harmony 12V DC or 120V AC	TMDC-6W/12V-24 (DC motor) TMUS35S-06/33 (AC motor)	TMUS-C118	TMUS-G133	IS1006F	IS1017	IS1019 <small>(with AC03-18)</small>	IS1519
2.7" Maestro-Shield Tube (6.89cm)	3 Nm Harmony 12V DC	TMDC-3W/12V	TMUS35-46.5RC	TMUS45-46.5RG	IS1006F	IS1017	IS1019 <small>(with AC03-18)</small>	IS1519
	6 Nm Harmony 12V DC or 120V AC	TMDC-6W/12V-24 (DC motor) TMUS35S-06/33 (AC motor)	TMUS35-46.5RC	TMUS45-46.5RG	IS1006F	IS1017	IS1019 <small>(with AC03-18)</small>	IS1519
	3 Nm Silent 120V AC	SSWR03/28	Not Needed	TMUS-SG197	IS1006F	IS1017	IS1038	IS1519
	6 Nm Silent 120V AC	SSWR06/28	Not Needed	TMUS-SG197	IS1006F	IS1017	IS1038	IS1519
	8 Nm Silent 120V AC	SSWR08/28	Not Needed	TMUS-SG197	IS1006F	IS1017	IS1038	IS1519

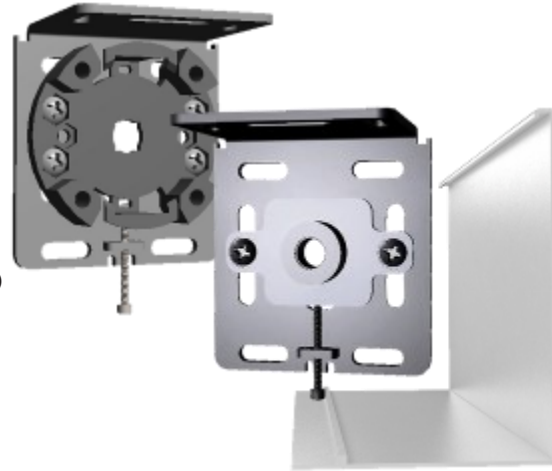


# 3"x3" Bracket Assembly (7.6cm x 7.6cm)



## 3"x3" Bracket Assembly (7.6cm x 7.6cm) Specifications:



- **For shades up to 210 sq. ft. per tube**  
(based on medium weight fabric 0.03" (.076cm) in thickness weighing 0.19 lbs. (.086 kgs) per sq. ft.; adjust for heavier fabric)
- **Bracket Dimensions: 3.53"H x 2.85" W**  
(8.97cm H x 7.24cm W)
- **Not compatible with blackout track**



Fascia Optional

3"x3" (7.6cm x 7.6cm) BRACKET ASSEMBLY PARTS LIST			
ITEM	ITEM #	QTY PER ASSEMBLY	DETAILS
3"x3" Single Bracket (7.6cm x 7.6cm)	IS1007	2	Includes 2 adjustment screws for vertical adjustment and 1 ball bearing idler plate
Fascia	IS-H131	1	Cut to size; optional

## Motor Tube and Motor Compatibility for: 3"x3" (7.6cm x 7.6cm) Bracket Assembly:

Maximum Square Footage (sq. ft.)	Maximum Height Limit (ft./m.)	Tube Diameter (inch/cm)	Motor Compatibility (Nm)	 For exact Window Size Configurations and Motor Requirements <b>Refer to Chart :</b>	 For compatible Crown, Drive, Idler Bearing, Motor & Idler Plate, <b>Refer to Chart</b>
53	19' (5.8m) w/o fascia 18' (5.5m) w/ fascia	1 inch/ 2.54cm	0.7—1 Nm	See Index	See Index
180	20' (6.1m) w/o fascia 17' (5.2m) w/ fascia	1.5 inch/ 3.8cm	0.7—6 Nm	See Index	See Index
210	17' (5.2m) w/o fascia 13.5' (4.1m) w/ fascia	2 inch/ 5.08cm	3—8 Nm	See Index	See Index

# 4"x4" (10.16cm x 10.16cm) Bracket Assembly

## 4"x4" Bracket Assembly



### (10.16cm x 10.16cm) Specifications:

- **For shades up to 280 sq. ft.**  
(based on medium weight fabric 0.03" (.076cm) in thickness weighing 0.19 lbs (.086 kgs) per sq ft; adjust for heavier fabric)
- **Bracket Dimensions: 5.51" H x 3.94" W**  
(14cm x 10cm)
- **Not compatible with blackout track**



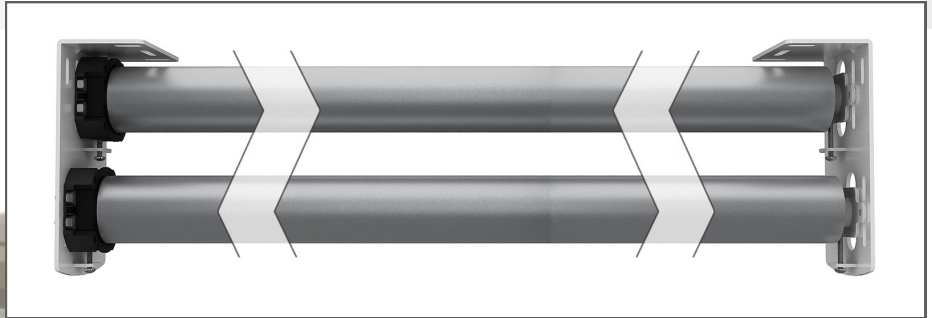
4"x4" (10.16cm x 10.16cm) BRACKET ASSEMBLY PARTS LIST			
ITEM	ITEM #	QTY PER ASSEMBLY	DETAILS
4"x4" Single Bracket (10.16cm x 10.16cm)	IS1008	2	Includes 2 adjustment screws for vertical adjustment and 1 ball bearing idler plate

## Motor Tube and Motor Compatibility for 4"x4" (10.16cm x 10.16cm) Bracket Assembly:

Maximum Square Footage (sq. ft.)	Maximum Height Limit (ft./m.)	Tube Diameter (inch/cm)	Motor Compatibility (Nm)	 For exact Window Size Configurations and Motor Requirements <b>Refer to Chart</b>	 For compatible Crown, Drive Gear, Idler Bearing, Motor and Idler Plate, <b>Refer to Chart</b>
53	19 (5.8m)	1 inch/ 2.54cm	0.7—1 Nm	See Index	See Index
252	28 (8.5m)	1.5 inch/ 3.8cm	0.7—6 Nm	See Index	See Index
280	25 (7.6m)	2 inch/ 5.08cm	3—8 Nm	See Index	See Index
206	18 (5.5m)	2.7 inch/ 6.89cm	3—8 Nm	See Index	See Index

**7"** (17.8cm x 17.8cm)

## Double Bracket Assembly



### 7" Double Bracket Assembly (17.8cm x 17.8cm) Specifications:



- **For shades up to 216 sq. ft. per tube**  
(based on medium weight fabric 0.03" (.076cm) in thickness weighing 0.19 lbs (.086 kgs) per sq ft; adjust for heavier fabric)
- **Bracket Dimensions:** 6.95" H x 4.03" W  
(17.65cm H x 10.24cm W)
- **Not compatible with blackout track**



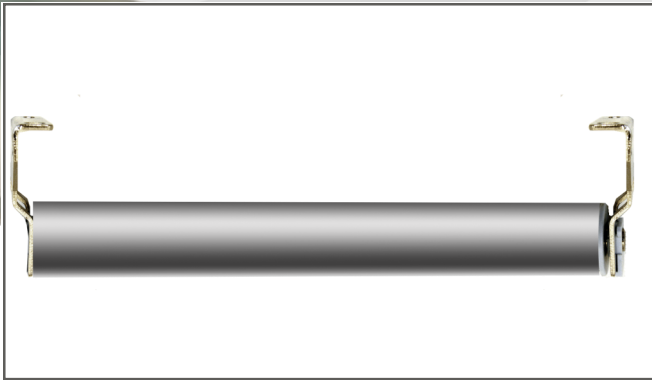
### 7" (17.8cm) DOUBLE BRACKET ASSEMBLY PARTS LIST

ITEM	ITEM #	QTY PER ASSEMBLY	DETAILS
7" Double Bracket (17.8cm)	IS1028	2	Includes 4 adjustment screws for vertical adjustment and 2 ball bearing idler plate
Bottom Bar	IS1555	1	Cut to size

### Motor Tube and Motor Compatibility for 7" Double Bracket Assembly:

Max. Square Footage (sq. ft./ per tube)	Maximum Height Limit (ft./m per tube)	Tube Diameter (inch/cm)	Motor Compatibility (Nm)	 For exact Window Size Configurations and Motor Requirements <b>Refer to Chart</b>	 For compatible Crown, Drive, Idler Bearing, Motor and Idler Plate, <b>Refer to Chart</b>
53	19' / 5.8m	1 inch / 2.54cm	0.7—1 Nm	See Index	See Index
189	21' / 6.4m	1.5 inch / 3.8cm	0.7—6 Nm	See Index	See Index
216	18' / 5.5m	2 inch / 5.08cm	3—8 Nm	See Index	See Index
154	10.5' / 3.2m	2.7 inch / 6.89cm	3—8 Nm	See Index	See Index

# 1" (2.54cm) Bracket Assembly



## 1" Bracket Assembly Specifications:



- **For shades up to 53 sq. ft.**  
(based on medium weight fabric 0.03" in thickness weighing 0.19 lbs per sq ft; adjust for heavier fabric)
- **Bracket Dimensions: 2.32" H x 1.44" W**  
(5.89cm H x 3.66cm W)
- **Not compatible with blackout track**



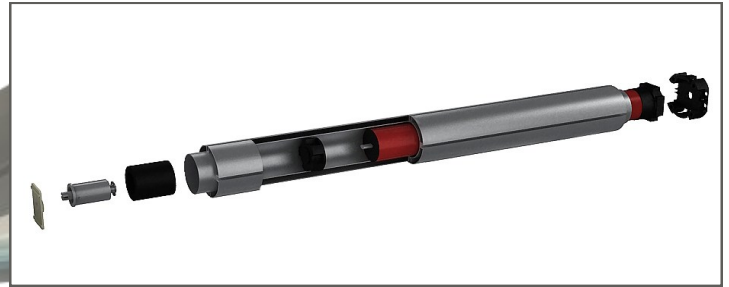
## 1" (2.54cm) BRACKET ASSEMBLY PARTS LIST

ITEM	ITEM #	QTY PER ASSEMBLY	DETAILS
1" (2.54cm) Brackets	IS1009	1 Pair	Pair includes one motor side bracket and one idler side bracket with idler included
Bottom Bar	IS1555	1	Cut to size

## Motor Tube and Motor Compatibility for 1" (2.54cm) Bracket Assembly:

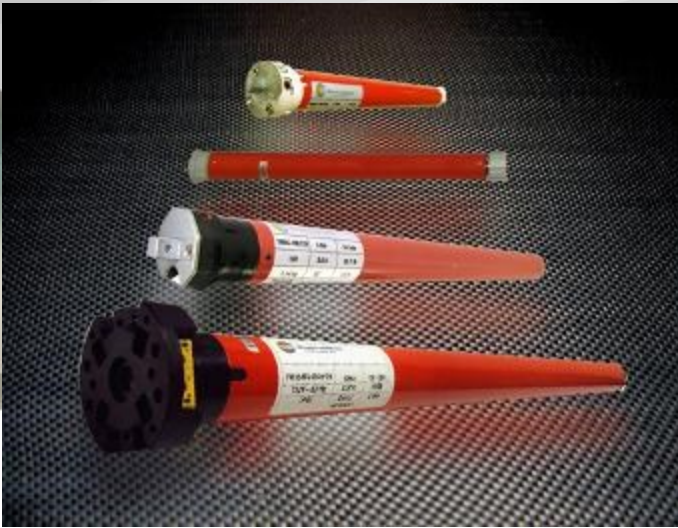
Maximum Square Footage (sq. ft.)	Maximum Height Limit (ft./m)	Tube Diameter (inch/cm)	Motor Compatibility (Nm)	 For exact Window Size Configurations and Motor Requirements <b>Refer to Chart:</b>	 For compatible Crown, Drive Gear, Idler Bearing, Motor and Idler Plate, <b>Refer to Chart:</b>
53	19'/5.8m	1 inch/ 2.54cm	0.7—1 Nm	See Index	See Index

# Motor and Tube Configurations for Bracket Assemblies



## Compatible Chart for crown, drive gear, idler bearings, motor plate and idler plate with MaestroShield Bracket Assemblies

Motor Tube	Motor	Item #	Crown	Drive Gear	Idler Bearing	Idler Insert	Motor Bracket	Idler Bracket
1 " Round	0.7 Nm Harmony 12V DC	TMDC-.7W/12V	Included w/ motor	Included w/ motor	IS1006F	Not Needed	AC03-05	Not Needed
(2.54cm)	1 Nm Silent 24V DC	SSWR01/30	TMUS-SC458	TMUS-SG472	IS1006F	Not Needed	AC03-05	Not Needed
1.5" Round	0.7 Nm Harmony 12V DC	TMDC-.7W/12V	TMUS-C241	TMUS-G265	IS1006F	IS1016	AC03-05	Not Needed
(3.8cm)	3 Nm Harmony 12V DC	TMDC-3W/12V	Not Needed	TMUS35-35RG	IS1006F	IS1016	AC03-05 (with AC03-18)	Not Needed
	6 Nm Harmony 12V DC or 120V AC	TMDC-6W/12V-24 (DC motor) TMUS35S-06/33 (AC motor)	Not Needed	TMUS35-35RG	IS1006F	IS1016	AC03-05 (with AC03-18)	Not Needed
1.5" Rollease	0.7 Nm Harmony 12V DC	TMDC-.7W/12V	TMUS-C241	TMUS-G265	IS1006F	IS1016	AC03-05	Not Needed
(3.8cm)	1 Nm Silent 24V DC	SSWR01/30	TMUS-SC1170	TMUS-SG1171	IS1006F	IS1016	AC03-05	Not Needed
2" Round	3 Nm Harmony 12V DC	TMDC-3W/12V	TMUS35-46.5RC	TMUS45-46.5RG	IS1006F	IS1017	AC03-05 (with AC03-18)	Not Needed
(5.08cm)	6 Nm Harmony 12V DC or 120V AC	TMDC-6W/12V-24 (DC motor) TMUS35S-06/33 (AC motor)	TMUS35-46.5RC	TMUS45-46.5RG	IS1006F	IS1017	AC03-05 (with AC03-18)	Not Needed
	3 Nm Silent 120V AC	SSWR03/28	Not Needed	TMUS-SG197	IS1006F	IS1017	IS1018	Not Needed
	6 Nm Silent 120V AC	SSWR06/28	Not Needed	TMUS-SG197	IS1006F	IS1017	IS1018	Not Needed
	8 Nm Silent 120V AC	SSWR08/28	Not Needed	TMUS-SG197	IS1006F	IS1017	IS1018	Not Needed
2" Rollease	3 Nm Harmony 12V DC	TMDC-3W/12V	TMUS-C118	TMUS-G133	IS1006F	IS1017	AC03-05 (with AC03-18)	Not Needed
(5.08cm)	6 Nm Harmony 12V DC or 120V AC	TMDC-6W/12V-24 (DC motor) TMUS35S-06/33 (AC motor)	TMUS-C118	TMUS-G133	IS1006F	IS1017	AC03-05 (with AC03-18)	Not Needed
2.7" MaestroShield Tube	3 Nm Harmony 12V DC	TMDC-3W/12V	TMUS35-46.5RC	TMUS45-46.5RG	IS1006F	IS1017	AC03-05 (with AC03-18)	Not Needed
(6.8cm)	6 Nm Harmony 12V DC or 120V AC	TMDC-6W/12V-24 (DC motor) TMUS35S-06/33 (AC motor)	TMUS35-46.5RC	TMUS45-46.5RG	IS1006F	IS1017	AC03-05 (with AC03-18)	Not Needed
	3 Nm Silent 120V AC	SSWR03/28	Not Needed	TMUS-SG197	IS1006F	IS1017	IS1018	Not Needed
	6 Nm Silent 120V AC	SSWR06/28	Not Needed	TMUS-SG197	IS1006F	IS1017	IS1018	Not Needed
	8 Nm Silent 120V AC	SSWR08/28	Not Needed	TMUS-SG197	IS1006F	IS1017	IS1018	Not Needed



# MaestroShade Motor Options

**1 Nm Silent Series 24V DC Motor** with smart technology  
**Max. lift capacity in 1" (2.54cm) tube:** 53 lbs (24.04 kgs)  
**Max. lift capacity in 1.5" (3.8cm) tube:** 8.5 lbs (3.85 kgs)

- 38 decibel sound output, quietest motor on the market
- Built-in Receiver
- Easy-to-Set Electronic Limit Switch
- 3 year 100% replacement Warranty coverage

### 3, 6, and 8 Nm Silent Series 120V AC Motors

**Max. lift capacity in 1.5" (3.8cm) tube:** 3 Nm-26.5 lbs (12kgs) ; 6 Nm-53 lbs (24kgs) ; 8 Nm-71 lbs (32kgs)  
**Max. lift capacity in 2" (5.08cm) tube:** 3 Nm-20 lbs (9kgs); 6 Nm-40 lbs (18kgs); 8 Nm-53 lbs (24kgs)  
**Max. lift capacity in 2.7" (6.85cm) tube:** 3 Nm-14.5 lbs (6kgs); 6 Nm-29 lbs (13kgs); 8 Nm-39 lbs (17kgs)

- 38 decibel sound output, quietest motors on the market
- Built-in Receiver
- 3 year 100% replacement Warranty coverage
- Mechanically set limits with dual sided limit access; 8" long hexagonal limit adjuster tool together with wiring manuals included with each motor

### 0.7, 3, and 6 Nm Harmony 12V DC Motor

**Max. lift capacity in 1" (2.54cm) tube:** 9 lbs (0.7Nm motor only)  
**Max. lift capacity in 1.5" (3.8cm) tube:** 3 Nm-26.5 lbs (12kgs); 6 Nm-53 lbs (24kgs)  
**Max. lift capacity in 2" (5.08cm) tube:** 3 Nm-20 lbs (9kgs); 6 Nm-40 lbs (18kgs)  
**Max. lift capacity in 2.7" (6.85cm) tube:** 3 Nm-14.5 lbs (6kgs); 6 Nm-29 lbs (13kgs)

- 47.5 decibel sound output
- 5 year 100% replacement Warranty coverage
- Mechanically set limits with dual sided limit access; 8" long hexagonal limit adjuster tool together with wiring manuals included with each motor

### 6 Nm Harmony 120V AC Motor

**Max. lift capacity in 1.5" (3.8cm) tube:** 53 lbs  
**Max. lift capacity in 2" (5.08) tube:** 40 lbs  
**Max. lift capacity in 2.7" (6.85cm) tube:** 29 lbs

- 5 year 100% replacement Warranty coverage
- Mechanically set limits with dual sided limit access; 8" (20.32cm) long hexagonal limit adjuster tool together with wiring manuals included with each motor

## Tube Profiles

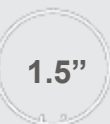
**1" (2.54cm) Round**  
 OD—1.315" (33.4mm)  
 ID—1.049" (26.6mm)



**1.5" (3.8cm) Round**  
 OD—1.555" (39.5mm)  
 ID—1.417" (36mm)



**1.5" (3.8cm) Rollease**  
 OD—1.594" (40.5mm)  
 ID—1.417" (36mm)



**2" (5.08cm) Round**  
 OD—1.988" (50.5mm)  
 ID—1.87" (47.5mm)



**2" (5.08cm) Rollease**  
 OD—1.988" (50.5mm)  
 ID—1.87" (47.5mm)



**2.7" MaestroShield (6.85cm)**  
 OD—2.7" (68.6mm)  
 ID—1.876" (47.7mm)



# Window Width and Height Configurations and Required Motor Size (Nm) for **1" (2.54cm) Motor Tube**

Motor requirements based on fabric thickness of 0.03" (.76mm) weighing 0.19 lbs (8.61kgs) per sq. ft. Adjust for heavier fabric.

## Width

			Width													
			1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	
			12	18	24	30	36	42	48	54	60	66	72	78	84	
Feet	Inches	mm	305	457	610	762	914	1067	1219	1372	1524	1676	1829	1981	2134	
1	12	305	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
1.5	18	457	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
2	24	610	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
2.5	30	762	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1	
3	36	914	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1	1	1	
3.5	42	1067	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1	1	1	1	
4	48	1219	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1	1	1	1	1	
4.5	54	1372	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1	1	1			
5	60	1524	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1	1	1	1			
5.5	66	1676	0.7	0.7	0.7	0.7	0.7	0.7	1	1	1	1				
6	72	1829	0.7	0.7	0.7	0.7	0.7	0.7	1	1	1					
6.5	78	1981	0.7	0.7	0.7	0.7	0.7	1	1	1						
7	84	2134	0.7	0.7	0.7	0.7	0.7	1	1	1						
7.5	90	2286	0.7	0.7	0.7	0.7	0.7	1	1							
8	96	2438	0.7	0.7	0.7	0.7	1	1	1							
8.5	102	2591	0.7	0.7	0.7	0.7	1	1	1							
9	108	2743	0.7	0.7	0.7	0.7	1	1								
9.5	114	2896	0.7	0.7	0.7	0.7	1	1								
10	120	3048	0.7	0.7	0.7	1	1	1								
10.5	126	3200	0.7	0.7	0.7	1	1									
11	132	3353	0.7	0.7	0.7	1	1									
11.5	138	3505	0.7	0.7	0.7	1	1									
12	144	3658	0.7	0.7	0.7	1	1									
12.5	150	3810	0.7	0.7	0.7	1										
13	156	3962	0.7	0.7	1	1										
13.5	162	4115	0.7	0.7	1	1										
14	168	4267	0.7	0.7	1	1										
14.5	174	4420	0.7	0.7	1	1										
15	180	4572	0.7	0.7	1											
15.5	186	4724	0.7	0.7	1											
16	192	4877	0.7	0.7	1											
16.5	198	5029	0.7	0.7	1											
17	204	5182	0.7	0.7	1											
17.5	210	5334	0.7	0.7	1											
18	216	5486	0.7	1	1											
18.5	222	5639	0.7	1	1											
19	228	5791	0.7	1	1											

Note: For 7' (2.13m) width or less deflection is less than or equal to 0.6mm for 0.7mm and 1 Nm motors

Max. Height for 3"x3" (7.6cm x 7.6cm) Fascia

Max. Height for 90mm (3.5") Bracket Assembly with

Max. Height for 4"x4" (10.16cm) and Dual Bracket

and 1", 3x3" w/o fascia, 4"x4" (10.16cm), and 7" (17.78cm) Double Bracket

# Window Width and Height Configurations and Required Motor Size (Nm) for 1.5" (3.8cm) Motor Tube

Motor requirements based on fabric thickness of 0.03" (.76mm) weighing 0.19 lbs (8.6kgs) per sq ft. Adjust for heavier fabric.

		Width																						
		Max. width per motor size for deflection of less than or equal to 6mm→																		Max. width 6Nm→	Max. width 3Nm→			
		1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	
Feet	Inches	mm	305	457	610	762	914	1067	1219	1372	1524	1676	1829	1981	2134	2286	2438	2591	2743	2896	3048	3200	3353	3505
1	12	305	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
1.5	18	457	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1	1	1	1	1	1	1	3	3	
2	24	610	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1	1	1	1	1	3	3	3	3	3	3	
2.5	30	762	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1	1	1	1	3	3	3	3	3	3	3	3	
3	36	914	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1	1	1	1	1	3	3	3	3	3	3	3	3	
3.5	42	1067	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1	1	1	3	3	3	3	3	3	3	3	3	3	3	
4	48	1219	0.7	0.7	0.7	0.7	0.7	0.7	1	1	1	3	3	3	3	3	3	3	3	3	3	3	3	
4.5	54	1372	0.7	0.7	0.7	0.7	0.7	1	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	
5	60	1524	0.7	0.7	0.7	0.7	0.7	1	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	
5.5	66	1676	0.7	0.7	0.7	0.7	1	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
6	72	1829	0.7	0.7	0.7	0.7	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
6.5	78	1981	0.7	0.7	0.7	0.7	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
7	84	2134	0.7	0.7	0.7	0.7	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
7.5	90	2286	0.7	0.7	0.7	0.7	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	6	
8	96	2438	0.7	0.7	0.7	1	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	6	
8.5	102	2591	0.7	0.7	0.7	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	6	6	
9	108	2743	0.7	0.7	0.7	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	6	6	
9.5	114	2896	0.7	0.7	0.7	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	6	6	6	
10	120	3048	0.7	0.7	0.7	1	3	3	3	3	3	3	3	3	3	3	3	3	3	6	6	6	6	
10.5	126	3200	0.7	0.7	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	6	6	6	6	
11	132	3353	0.7	0.7	1	1	3	3	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	
11.5	138	3505	0.7	0.7	1	1	3	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	
12	144	3658	0.7	0.7	1	1	3	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	
12.5	150	3810	0.7	0.7	1	3	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	
13	156	3962	0.7	0.7	1	3	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	
13.5	162	4115	0.7	0.7	1	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	
14	168	4267	0.7	0.7	1	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	
14.5	174	4420	0.7	0.7	1	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	
15	180	4572	0.7	1	1	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	
15.5	186	4724	0.7	1	1	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	
16	192	4877	0.7	1	3	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	
16.5	198	5029	0.7	1	3	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	
17	204	5182	0.7	1	3	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	
17.5	210	5334	0.7	1	3	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	
18	216	5486	0.7	1	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	
18.5	222	5639	0.7	1	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	
19	228	5791	0.7	1	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	
19.5	234	5944	0.7	1	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	
20	240	6096	0.7	1	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	
20.5	246	6248	0.7	1	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	
21	252	6401	0.7	1	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	
21.5	258	6553	0.7	1	3	3	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	
22	264	6706	0.7	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
22.5	270	6858	0.7	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
23	276	7010	0.7	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
23.5	282	7163	1	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
24	288	7315	1	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
24.5	294	7468	1	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
25	300	7620	1	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
25.5	306	7772	1	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
26	312	7925	1	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
26.5	318	8077	1	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
27	324	8230	1	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
27.5	330	8382	1	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
28	336	8534	1	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
28.5	342	8687	1	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
29	348	8839	1	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
29.5	354	8992	1	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
30	360	9144	1	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
30.5	366	9296	1	3	3	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	

Max. Height for  
3"x3" Fascia Assembly

Max. Height for 3"x3"  
Bracket Assembly w/ fascia

Max. Height for 3"x3" (7.62cm x 7.62cm) Bracket Assembly w/o fascia

Max. Height for 7" (17.78cm) Double Bracket Assembly w/o fascia

Max. Height for Dual Fascia Assembly

Max. Height for 4"x4" (10.16cm) Bracket Assembly w/o fascia

Max. Height for 4"x4" (10.16cm) Fascia Assembly



# Window Width and Height Configurations and Required Motor Size (Nm) for 2" (5.08cm) Motor Tube

Motor requirements based on fabric thickness of 0.03" (.76mm) weighing 0.19 lbs (8.6kgs) per sq ft. Adjust for heavier fabric.

Height	Width																													
	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5
Feet	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144	150	156	162	168	174	180	186
Inches	305	457	610	762	914	1067	1219	1372	1524	1676	1829	1981	2134	2286	2438	2591	2743	2896	3048	3200	3353	3505	3658	3810	3962	4115	4267	4420	4572	4724
1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
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26.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
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27.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Max. width per motor size for deflection of less than or equal to 6mm→

Width

Max. width 8Nm→

Max. width 6Nm→

Max. width 3Nm→

Max. Height for 3"x3" Fascia (7.62cm)

Max. Height for 3"x3" (7.62cm x 7.62cm) Bracket Assembly w/ fascia

Bracket Assembly w/ fascia

Max. Height for 3"x3" (7.62cm) Bracket Assembly w/o fascia

Max. Height for 7" (17.78cm) Double Bracket Assembly w/o




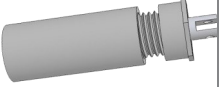
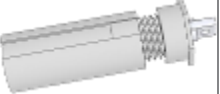


Max. Height for Dual Fascia Assembly

Max. Height for 140mm (5.5") Bracket Assembly w/o Fascia





Max. Height for 4"x4" (10.16cm) Fascia



# Component Specifications

	Component Name	Item #	Specifications
	Motor Mounting Cradle	AC03-05	Black Plastic; Bracket compatibility: All Bracket Assemblies Motor compatibility: 0.7 Nm Harmony DC, 1 NM Silent DC: 3 Nm Harmony AC, and 6 Nm Harmony AC and DC (with Motor Mounting Snap)
	Snap-on Motor Bracket	IS1038	Black Plastic; Bracket compatibility: All Fascia Assemblies Motor compatibility: 3-8 Nm Silent Series AC
	Snap-on Motor Bracket	IS1018	Black Plastic; Bracket compatibility: All Bracket Assemblies Motor compatibility: 3-8 Nm Silent Series AC
	Idler Bearing Female	IS1006F	1" (2.54cm) diameter with spring adjust; 10mm (.39") axle; inserts available for different size and profile tubes; Female connector
	Idler Bearing Male	IS1006M	1" (2.54cm) diameter with spring adjust; 10mm (.39") axle; inserts available for different size and profile tubes; Male connector
	1.5" (3.8cm) Idler Insert	IS1016	Compatible with Male or Female Idler Bearing; fits a variety of 1.5" (3.8cm) tube profiles
	2" (5.08cm) Idler Insert	IS1017	Compatible with Male or Female Idler Bearing; fits a variety of 2" (5.08cm) tube profiles

# Component Specifications

	Component Name	Item #	Specifications
	<p>3"x3" (7.62cm x 7.62cm)</p> <p>Single Bracket <i>(motor mount bracket sold separately)</i></p>	IS1007	<p>3.53" W X 2.85" D;  (8.96cm x 7.23cm)</p> <p>Powder Coated White; Compatible with 3"x3" Fascia (7.62" x 7.62")</p>
	<p>4"x4" (10.16cm x 10.16cm)</p> <p>Single Bracket <i>(motor mount bracket sold separately)</i></p>	IS1008	<p>5.51" W X 3.94" D;  (14cm x 10cm)</p> <p>Powder Coated White;</p>
	<p>7" Double Bracket (17.78cm) <i>(motor mount brackets sold separately)</i></p>	IS1028	<p>6.95" W X 4.03" D;  (17.65cm x 10.34cm)</p> <p>Powder Coated White;</p>
	<p>1" Bracket (2.54cm)</p>	IS1009	<p>2.32" W X 1.44" D;  (5.89cm x 3.66cm)</p> <p>Includes 1" (2.54cm) Idler Bearing;</p>



**MaestroShield®**

**PROTECTION**  
*Like No Other™*

# Tubular Motors



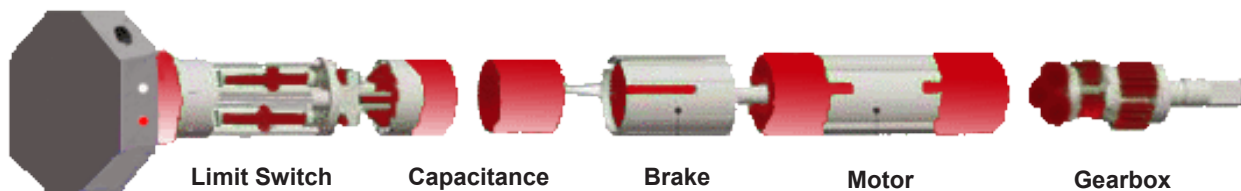
## Motors for:

- Roll Down Shutters
- Maestran
- Roll Down Exterior Screen
- Motorized Interior Shading
- Rolling Awnings
- Projection Screens
- Rolling Doors and Grilles

# Tubular Motors | Product Specifications

MaestroShield® motors are innovation at its best. Designed in-house by Swedish and American engineers, these industry leading components are the perfect marriage of power, precision and price. With multiple configurations available, the agility of our motors puts them in a class of their own. Designed and tested with quality in mind, MaestroShield® motors will greatly enhance your shutter, door, screen, awning and shading applications. These are only some of the reasons why MaestroShield® is superior to the competition.

## Tubular Motor Anatomy



## Features & Benefits:

- More than 50 sizes available to suit most applications and configurations
- More than 250 crown and drive gear combinations to fit virtually any motor tube size and shape.
- Durable universal mounting plates to fit tubular motors into a wide range of products.
- Easily programmed with a full suite of electronics
- Produced under ISO 9001 quality guidelines
- IP44 Rated
- **Limits:** Mechanically set and adjusted by hand with 8" (2.03cm) hex-shaped adjuster tool enclosed with each motor. Motor limits can be accessed on two facing sides of the motor head. The signature MaestroShield limits have a self-feeding spring on the limit adjuster to allow automatic re-feeding of the limit screw onto the adjustment shaft in case of over-setting the limits.
- **Internal Gearing:** done with Nylon and Metal components; no plastic is integrated into this portion of the MaestroShield motor.



Tubular Motors with built-in receivers are covered by a Full 3-Year 100% Replacement Warranty.



All other Tubular Motors are covered by a Full 5-Year 100% Replacement Warranty.



# Tubular Motors | Silent Series AC 3—8 Nm No Manual Override

## Standard Features Include:

- 38 decibel sound output, one of the quietest motors on the market
- Built-in Receiver
- 3 year 100% replacement Warranty coverage
- No Manual Override
- Lifting capacities in excess of 88 Lbs. (39.91 kgs)
- Mechanically set limits with dual sided limit access; 8" (2.03cm) long hexagonal limit adjuster tool together with wiring manuals included with each motor
- Universal Accessories, Crown and Drive Gears for a variety of motor tubes.



3 Nm Silent Series AC Motor  
6 Nm Silent Series AC Motor  
8 Nm Silent Series AC Motor

## AC Motors • 120V / 60Hz

Item #	Torque (Nm)	Speed (rpm)	Tube Diameter (mm/in)	Voltage (V)	Input Power (W)	Current (A)	Decibel (Db)	Lifting Weight (Lbs) (Kg)		Motor Length (cm/in)
<b>SSWR06/28</b>	6	28	44.5 / 1.75"	110-120	115	0.76	34-40	≤ 40	≤ 18.14	8.28 / 32"
<b>SSWR08/19</b>	8	19	44.5 / 1.75"	110-120	115	0.92	34-40	≤ 53	≤ 24.04	8.28 / 32"

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
<b>Silent Series 120V AC Motors Crown and Drive</b>				
<b>No Crown Needed</b>		Drive: TMUS-SG197	2" (50mm) Round Tube	Ø46.5mm / 1 7/8"
		Crown: TMUS-SC161 Drive: TMUS-SG163	2.5" (63mm) Round Tube	Ø60.5mm / 2 3/8"
		Crown: TMUS-SC505 Drive: TMUS-SG510	2.75" (70mm) Round Tube	Ø66.5mm / 2 5/8"

# Tubular Motors

| Silent Series DC 1 Nm  
with Smart Technology

## Standard Features Include:

- Powered by Rechargeable Built In Lithium Battery
- 38 decibel sound output, quietest motor on the market
- Built-in Receiver
- Easy-to-Set Electronic Limit Switch
- 3 year 100% replacement Warranty coverage
- Lifting capacities in excess of 12 lbs.(5.44 kgs)
- Compatible with all MaestroShield Remote Control Systems, Crown and Drive for 1 1/2" (3.8cm) round tubes, and snap on motor bracket fits with 3" (7.62cm) and 4" (10.16cm)



1 Nm Motor with Lithium Battery

DC Motor • 12V										
Item #	Torque	Speed	Tube Diameter	Voltage	Input Power	Current	Decibel	Lifting Weight		Motor Length
	(Nm)	(rpm)	(mm/in)	(V)	(W)	(A)	(Db)	(Lbs)	(Kg)	(cm/in)
<b>SSWR1201/30</b>	1	30	25.5 / 1"	12	11	450 MA	34-40	≤ 12	≤ 5.5	27.94 / 11"

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
<b>Silent Series DC 12V Motors Crown and Drive</b>				
		Crown: TMUS-SC123 Drive: TMUS-SG125	1.5" (3.8cm) Round Tube	Ø25mm



# Tubular Motors | Smart Series AC 3-50 Nm No Manual Override

## Standard Features Include:

- Built-in Receiver
- Easy-to-Set Electronic Limit Switch
- 3 year 100% replacement Warranty coverage
- No Manual Override
- Lifting capacities in excess of 365 lbs. (165.56 kgs)
- Universal Accessories, Crown and Drive Gears for a variety of motor tubes.



3 - 8 Nm Smart Series AC Motor



10Nm—50Nm Smart Series AC Motor

## AC Motors • 110 -120V / 60Hz

Item #	Torque	Speed	Tube Diameter	Voltage	Input Power	Current	Lifting Weight		Motor Length
	(Nm)	(rpm)	(mm/in)	(V)	(W)	(A)	(Lbs)	(Kg)	(cm/in)
<b>ELSTM03/33</b>	3	33	35/1.377"	110-120V / 0.96A			≤ 14-25	≤ 6.35 - 10.88	19" / 48.26
<b>ELSTM06/28</b>	6	28	35/1.377"	110-120	170	0.96	≤ 40	≤ 18.14	19" / 48.26
<b>ELSTM08/24</b>	8	24	44.5/1.75"	110-120V / 1.42A			≤ 38 - 53	≤ 17.23 - 24.04	21.5" / 54.61
<b>ELSTM10/30</b>	10	30	44.5/1.75"	110-120	170	1.42	≤ 55	≤ 24.94	21.5" / 54.61
<b>ELSTM20/30</b>	20	30	44.5/1.75"	110-120	250	1.98	≤ 112	≤ 50.80	22.5" / 57.15"
<b>ELSTM30/17</b>	30	17	44.5/1.75"	110-120	200	1.65	≤ 165	≤ 74.84	22.5" / 57.15"
<b>ELSTM40/12</b>	40	12	44.5/1.75"	110-120	200	1.65	≤ 220	≤ 99.7	22.5" / 57.15"
<b>ELSTM50/12</b>	50	12	44.5/1.75"	110-120	200	1.98	≤ 275	≤ 124.73	22.5" / 57.15"

# Tubular Motors | Smart Series AC 6-50 Nm Crown and Drive Gears

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
<b>3—50 Nm Smart Series Motors Crown and Drive 44.5mm Diameter ONLY</b>				
No Crown Needed		Crown: None Needed Drive: TMUS-SG213	2" (50mm) Round Tube	Ø46.5mm / 1 7/8"
		Crown: TMUS-600C3 Drive: TMUS-600G3	2.36" (60mm) Octangular Tube	Ø56mm / 2 7/32"
		Crown: TMUS-SC161 Drive: TMUS-SG162	2.5" (63mm) Round Tube	Ø60.5mm / 2 3/8"
		Crown: TMUS-SC259 Drive: TMUS-SG260	2.5" (65mm) Round Tube	Ø63.3mm / 2 1/2"
		Crown: TMUS-SC276 Drive: TMUS-SG277	2.75" (70mm) Octangular Tube	Ø66mm / 2 5/8"
		Crown: TMUS-SC166 Drive: TMUS-SG65	2.75" (70mm) Round Tube	Ø65mm / 2 9/16"
		Crown: TMUS-SC309 Drive: TMUS-SG310	3" (78mm) Round Tube	Ø74.5mm / 2 15/16"

# Tubular Motors | Clutch Release AC 50 Nm Crown and Drive Gears

This innovative and versatile motor allows unique configurations and operations of traditional rolling systems:

- Easily programmed with full suite of electronics.
- Universal Accessories, Crown and Drive Gears to fit any tube over 70mm wide (2.75") and recoil spring are available.
- Supported by a 2-year full replacement warranty
- Panic release and recoil of deployed units when clutch is disengaged — Ideal for emergency egress for fire safety compliance
- Manual uncoiling and motorized recoiling of horizontally mounted rolling units



Motor comes with one Clutch Motor Locking System. Additional locking systems available separately.

## Clutch Motor Locking System

Item # AC04-01

Includes key



## TMUSC Clutch Release Motor • 110 -120V / 60Hz

Item #	Torque		Speed	Diameter	Voltage	Input Power	Current	Motor Length	Running Time
	(Nm)	(Lbs/200.48)	(rpm)	(mm / in)	(V)	(Hz)	(A)	(mm / 25 <sup>3</sup> / <sub>4</sub> "	(min.)
TMUS45M-50/13/Clutch	50	442 / 200.48	13	45 / 1.77"	110-120	60	2.2	65.4 / 25 <sup>3</sup> / <sub>4</sub> "	4

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
<b>50Nm Clutch Release Motors Crown and Drive</b>				
		Crown: TMUS-59OC Drive: TMUS-45OG	70mm Octagonal Tube	Ø67mm / 2 5/8"
		Crown: TMUS-59C Drive: TMUS-45G	86mm Profiled Tube	Ø83mm / 3 1/4"

# Tubular Motors | Harmony Series DC 0.7—35 Nm No Manual Override

## Standard Features Include:

- Quiet 12V motors
- 47.5 decibel sound output
- 5 year 100% replacement Warranty coverage
- No Manual Override
- Lifting capacities in excess of 295 lbs. (133.81 kgs)
- Mechanically set limits with dual sided limit access; 8" (2.03cm) long hexagonal limit adjuster tool together with wiring manuals included with each motor
- Universal Accessories, Crown and Drive Gears for motor tubes 38mm or (1-inch) and over are available.



**0.7 Nm Harmony DC Motor**

**Note:** 0.7Nm motor includes crown and drive for 1" (2.54cm) round motor tube



**3—6 Nm Harmony DC Motor**



**20—35 Nm Harmony DC Motor**

## DC Motors • 12V

Item #	Torque (Nm)	Speed (rpm)	Tube Diameter (mm/in)	Motor Length (mm/in)	Voltage (V)	Input Power (W)	Current (A)	Lifting Weight		Running Time (min)
								(Lbs)	(Kg)	
<b>TMDC-.7W/12V</b>	0.7	34	25 / .98"	27.94 / 11"	12	6.5	0.55	≤ 5	≤ 2.3	4
<b>TMDC-3W/12V</b>	3	24	35 / 1.377"	50.8 / 20"	12	33.7	3.00	≤ 25	≤ 11	4
<b>TMCD-6W/12V-24</b>	6	24	35 / 1.377"	50.8 / 20"	12	42.7	4.00	≤ 50	≤ 22	4
<b>TMDC-20W/12V</b>	20	14	45 / 1.77"	55.88 / 22"	12	52.8	4.40	≤ 168	≤ 76	4
<b>TMDC-35W/12V</b>	35	7	45 / 1.77"	55.88 / 22"	12	84.0	7.00	≤ 295	≤ 53	4

# Tubular Motors | Harmony Series DC 0.7—35 Nm Crown and Drive Gears

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
<b>0.7 Nm Harmony Series Motors (25mm (.98") diameter ONLY)</b>				
		Crown: TMUS-C241 Drive Gear: TMUS-G265	Rollease 1.5" Tube (3.8cm)	Ø35mm / 1 3/8"
<b>3—6 Nm Harmony Series Motors (35mm (1.37") diameter ONLY)</b>				
		Crown: TMUS35-46.5RC Drive Gear: TMUS45-46.5RG	2" (50mm) Round Tube (5.08cm)	Ø50mm / 2"
<b>NO CROWN NEEDED</b>		Drive Gear: TMUS35-35RG	1½" (40mm) Round Tube (3.8cm)	Ø38mm / 1½"
<b>NO CROWN NEEDED</b>		Drive Gear: TMUS-G14	Acmeda 44mm Tube (1.73")	Ø40mm / 1 1/2"
<b>3—35 Nm Harmony Series Motors (35mm (1.37") and 45mm (1.77") diameter ONLY)</b>				
		Crown: TMUS-C18 Drive Gear: TMUS-G22	2" / 55mm Round Tube (5.08cm)	Ø55mm / 2"
	Various Drive Gears	Crown: TMUS35-60OC	Compatible with crowns fitting 10-50 Nm motors	Ø45mm / 1 3/4"

# Tubular Motors | Harmony Series DC 0.7—35 Nm Crown and Drive Gears

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
<b>20—35 Nm Harmony Series Motors (45mm (1.77") diameter ONLY)</b>				
		Crown: TMUS-45OC Drive Gear: TMUS-45OG	70mm Octagonal Tube (2.75")	Ø67mm / 2 5/8"
		Crown: TMUS-60OC Drive Gear: TMUS-60OG	60mm Octagonal Tube (2.36")	Ø56mm / 2 7/32"
		Crown: TMUS-54C Drive Gear: TMUS-54G	60mm Round Tube (2.36")	Ø54mm / 2 6/32"
<b>NO CROWN NEEDED</b>		Drive Gear: TMUS45-46.5RG	2" / 50mm Round Tube	Ø50mm / 2"
<b>NO CROWN NEEDED</b>		Drive Gear: TMUS-G02	Acmeda 56mm Tube (2.20")	Ø50mm / 2"

# Tubular Motors | Harmony Series AC 6—100 Nm No Manual Override

## Standard Features Include:

- Quiet 120V motor series
- 5 year 100% replacement Warranty coverage
- No Manual Override
- Lifting capacities in excess of 396 lbs. (179.62kgs)
- Mechanically set limits with dual sided limit access; 8" (2.03cm) long hexagonal limit adjuster tool together with wiring manuals included in each motor.
- Universal Accessories, Crown and Drive Gears for motor tubes 38mm or (1-in) and over are available.



6 Nm Harmony AC Motor



10—50 Nm Harmony AC Motor



100 Nm Harmony AC Motor

## AC Motors • 120V / 60Hz

Item #	Torque	Speed	Tube Diameter	Voltage	Input Power	Current	Lifting Weight		Motor Length	Run-ning Time
	(Nm)	(rpm)	(mm/in)	(V)	(W)	(A)	(Lbs)	(Kg)	(cm/in)	(min)
TMUS35S-06/33	6	33	35 / 1.37"	110-120	113	0.97	≤ 33	≤ 15	48.26cm/ 19"	4
TMUS45S-10/32	10	32	45 / 1.77"	110-120	240	2.42	≤ 55	≤ 25	57.15cm/ 22.5"	4
TMUS45S-20/32	20	32	45 / 1.77"	110-120	235	2.20	≤ 110	≤ 50	57.15cm/ 22.5"	4
TMUS45S-20/19	20	19	45 / 1.77"	110-120	276	2.30	≤ 110	≤ 50	57.15cm/ 22.5"	4
TMUS45S-50/13	50	13	45 / 1.77"	110-120	235	2.20	≤ 275	≤ 125	57.15cm/ 22.5"	4
TMUS59S-100/11	100	11	59 / 2.32"	110-120	340	2.90	≤ 471	≤ 214	66.04cm/ 26"	4
TMUS59S-120/9	120	9								

**Note:** Lifting capacity varies depending on tube size.

# Tubular Motors | Harmony Series AC 6—100 Nm Crown and Drive Gears

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
<b>6 Nm Harmony Series Motors (35mm (1.37") diameter ONLY)</b>				
		Crown: TMUS35-46.5RC Drive Gear: TMUS45-46.5RG	2" (50mm) Round Tube (5.08cm)	Ø50mm / 2"
<b>NO CROWN NEEDED</b>		Drive Gear: TMUS35-35RG	1½" (40mm) Round Tube (3.8cm)	Ø38mm / 1½"
<b>NO CROWN NEEDED</b>		Drive Gear: TMUS-G14	Acmeda 44mm Tube (1.73")	Ø40mm / 1 1/2"
<b>6-50 Nm Harmony Series Motors (35mm (1.37") and 45mm (1.77") diameter ONLY)</b>				
		Crown: TMUS-C18 Drive Gear: TMUS-G22	2" / 55mm Round Tube (5.08cm)	Ø55mm / 2"
	Various Drive Gears.	Crown: TMUS35-60OC	Compatible with crowns adapters fitting 10-50 Nm motors	Ø45mm / 1 3/4"



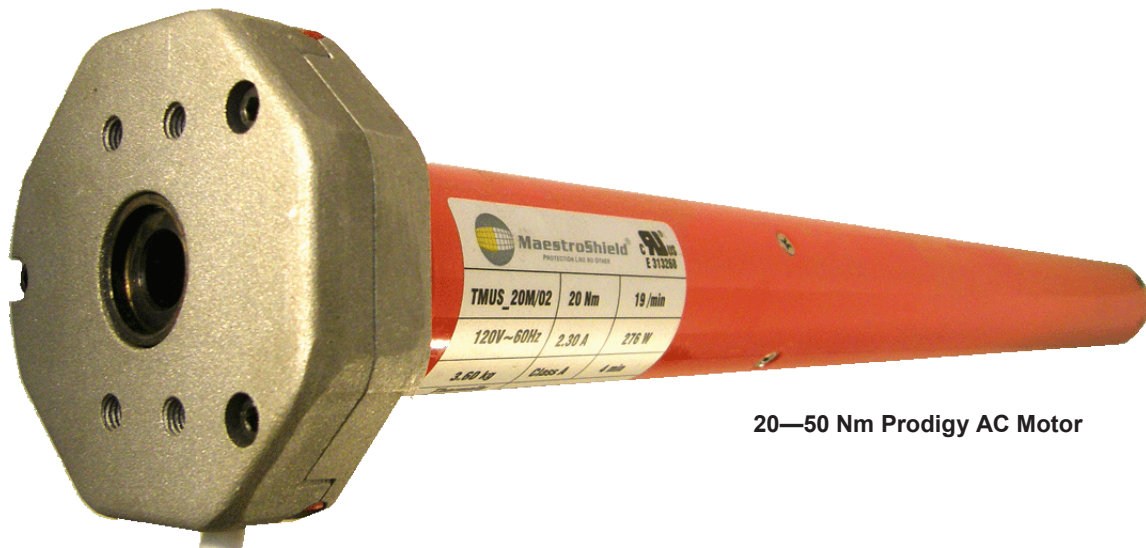
# Tubular Motors | Harmony Series AC 6—100 Nm Crown and Drive Gears

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
<b>10—50 Nm Harmony Series Motors (45mm (1.77") diameter ONLY)</b>				
		Crown: TMUS-45C Drive Gear: TMUS-45G	86mm Profiled Tube  (3.38")	Ø83mm / 3 ¼"
		Crown: TMUS-45OC Drive Gear: TMUS-45OG	70mm Octagonal Tube  (2.75")	Ø67mm / 2 ⅝"
		Crown: TMUS-60OC3 Drive Gear: TMUS-60OG3	60mm Octagonal Tube  (2.36")	Ø56mm / 2 7/32"
		Crown: TMUS-54C Drive Gear: TMUS-54G	60mm Round Tube  (2.36")	Ø54mm / 2 6/32"
<b>NO CROWN NEEDED</b>		Drive Gear: TMUS45-46.5RG	2" / 50mm Round Tube  (5.08cm)	Ø50mm / 2"
<b>NO CROWN NEEDED</b>		Drive Gear: TMUS-G02	Acmeda 56mm Tube  (2.20")	Ø50mm / 2"
<b>100 Nm Harmony Series Motors (59mm (2.32") diameter ONLY)</b>				
		Crown: TMUS-59OC Drive Gear: TMUS-59OG	70mm Octagonal Tube  (2.75")	Ø67mm / 2 ⅝"
		Crown: TMUS-59C Drive Gear: TMUS-59G	86mm Profiled Tube  (3.38")	Ø83mm / 3 ¼"
		Crown: TMUS-59RC Drive Gear: TMUS-59RG	100mm (OD) (3.93") / 94mm (ID) (3.70") Round Steel Tube	Ø94mm / 3 11/16"

# Tubular Motors | Prodigy Series AC 20—50 Nm With Manual Override

## Standard Features Include:

- Manual Override
- 5 year 100% replacement Warranty coverage.
- Mechanically set limits with dual sided limit access; 8" (2.03cm) long hexagonal limit adjuster tool together with wiring manuals included.
- Lifting capacities in excess of 198 lbs. (89.8 kgs)
- Universal Accessories, Crown and Drive Gears for motor tubes 49mm (1.92') and over are available.



20—50 Nm Prodigy AC Motor

## TMUS Standard Motor - 120V / 60Hz

Item #	Torque (Nm)	Speed (rpm)	Tube Diameter (mm/in)	Voltage (V)	Input Power (W)	Current (A)	Lifting Weight		Motor Length (cm/in)	Running Time (min)
							(Lbs)	(Kg)		
<b>TMUS45M-20/19</b>	20	19	45 / 1.77"	110-120	276	2.3	≤ 79	≤ 36	62.86 / 24.75"	4
<b>TMUS45M-20/32</b>	20	32	45 / 1.77"	110-120	276	2.3	≤ 79	≤ 36	62.86 / 24.75"	4
<b>TMUS45M-30/13</b>	30	13	45 / 1.77"	110-120	240	2.4	≤ 118	≤ 53	62.86 / 24.75"	4
<b>TMUS45M-40/13</b>	40	13	45 / 1.77"	110-120	205	1.9	≤ 158	≤ 71	62.86 / 24.75"	4
<b>TMUS45M-50/13</b>	50	13	45 / 1.77"	110-120	235	2.2	≤ 198	≤ 90	62.86 / 24.75"	4

**Note: Also Available in 220V - 240V (call for details)**

**Note:** Lifting capacity varies depending on tube size.

Motors with manual override  
require Universal Assembly  
(See index for reference)

# Tubular Motors | Prodigy Series AC 20—50 Nm Crown and Drive Gears

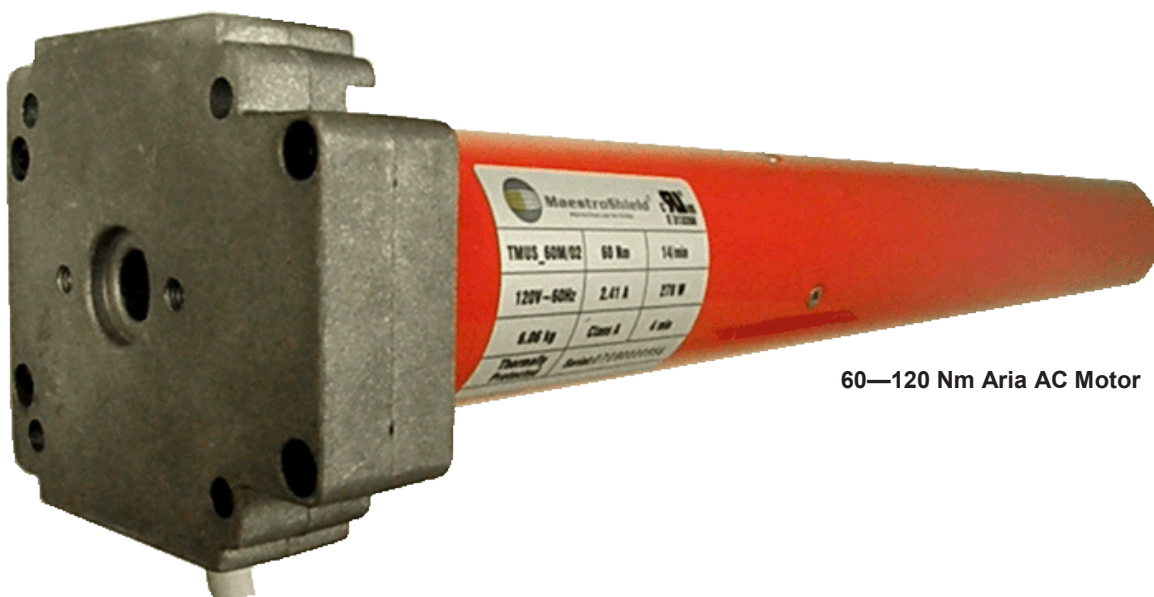
Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
<b>20—50 Nm Prodigy Series Motors (45mm (1.77") diameter ONLY)</b>				
		Crown: TMUS-96C Drive Gear: TMUS-96G	100mm (OD) (3.93")/ 94mm (ID) (3.70") Round Steel Tube	Ø94mm / 3 11/16"
		Crown: TMUS-45C Drive Gear: TMUS-45G	86mm Profiled Tube (3.38")	Ø83mm / 3 1/4"
		Crown: TMUS-75C Drive Gear: TMUS-75G	80mm Tube with Groove (Awnings) (3.14")	Ø83mm / 3 1/4"
		Crown: TMUS-45OC Drive Gear: TMUS-45OG	70mm Octagonal Tube (2.75")	Ø67mm / 2 5/8"
		Crown: TMUS-60OC2 Drive Gear: TMUS-60OG2	60mm Octagonal Tube (2.36")	Ø56mm / 2 7/32"
		Crown: TMUS-54C Drive Gear: TMUS-54G	60mm Round Tube (2.36")	Ø54mm / 2 6/32"
<b>NO CROWN NEEDED</b>		Drive Gear: TMUS45-46.5RG	2" (50mm) Round Tube (5.08cm)	Ø46mm / 1 13/16"
		Crown: TMUS-61C Drive Gear: TMUS-61G	62mm Round Tube (2.44")	Ø62mm / 2 7/16"

# Tubular Motors

| Aria Series AC 60—120 Nm  
With Manual Override

## Standard Features Include:

- Manual Override
- 5 year 100% replacement Warranty coverage
- Mechanically set limits with dual sided limit access; 8" (2.03cm) long hexagonal limit adjuster tool together with wiring manuals included with each motor.
- Lifting capacities in excess of 396 lbs.(179.62 kgs)
- Universal Accessories, Crown and Drive Gears for motor tubes 70mm (2.75") and over are available.



60—120 Nm Aria AC Motor

## TMUS Standard Motor - 120V / 60Hz

Item #	Torque	Speed	Tube Diameter	Voltage	Input Power	Current	Lifting Weight Based on 70mm Tube		Motor Length	Running Time
							(Lbs)	(Kg)		
<b>TMUS59M-60/14</b>	60	14	59 / 2.32"	110-120	278	2.4	≤ 283	≤ 129	66.04 / 26"	4
<b>TMUS59M-80/14</b>	80	14	59 / 2.32"	110-120	506	2.9	≤ 377	≤ 171	66.04 / 26"	4
<b>TMUS59M-100/11</b>	100	11	59 / 2.32"	110-120	340	2.9	≤ 471	≤ 214	66.04 / 26"	4
<b>TMUS59M-120/9</b>	120	9	59 / 2.32"	110-120	340	2.9	≤ 566	≤ 257	66.04 / 26"	4

**Note: Also Available in 220V - 240V (call for details)**

**Note:** Lifting capacity varies depending on tube size.

Motors with manual override  
require Universal Assembly  
(See index for reference)

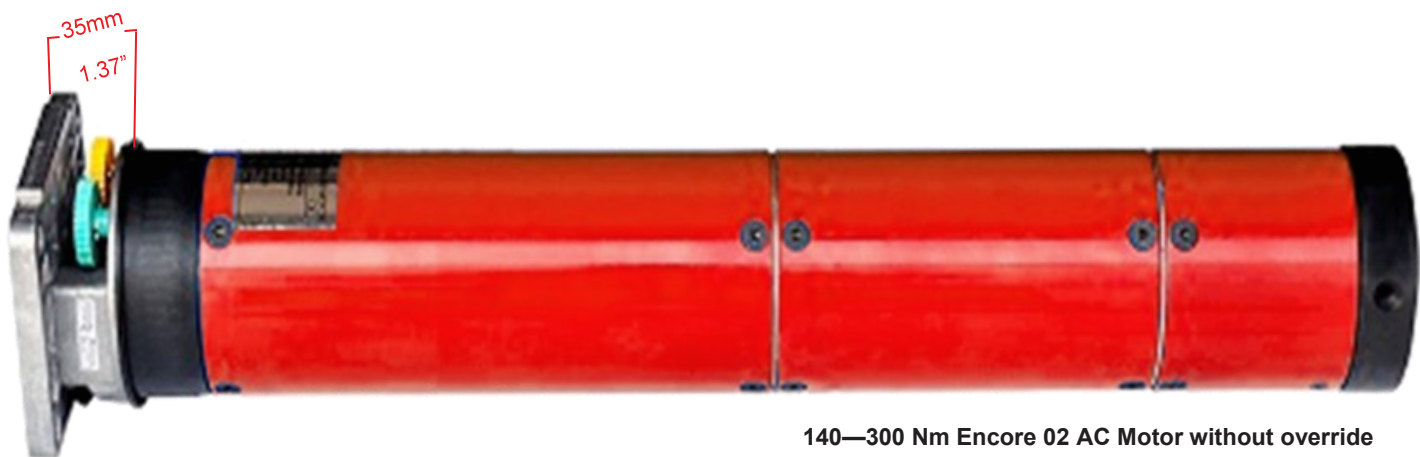
# Tubular Motors | Aria Series AC 60—120 Nm Crown and Drive Gears

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
<b>60—120 Nm Aria Series Motors (59mm (2.32") diameter ONLY)</b>				
		Crown: TMUS-59RC Drive Gear: TMUS-59RG	100mm (OD) (3.93") / 94mm (ID) (3.70") Round Steel Tube	Ø94mm / 3 11/16"
		Crown: TMUS-59C Drive Gear: TMUS-59G	86mm Profiled Tube (3.38")	Ø83mm / 3 1/4"
		Crown: TMUS-59OC Drive Gear: TMUS-59OG	70mm Octagonal Tube (2.75")	Ø67mm / 2 5/8"

# Tubular Motors | Encore Series AC 140—300 Nm No Manual Override

## Standard Features Include:

- No 3-phase power needed
- MaestroShield Warranty coverage
- Single sided access to mechanical, set-lever limits
- Mounting hardware and built-in Crown and Drive Gears for 100mm OD (3.93") / 94mm ID (3.70") tube.
- Lifting capacities in excess of 1011 lbs (458.58 kgs).



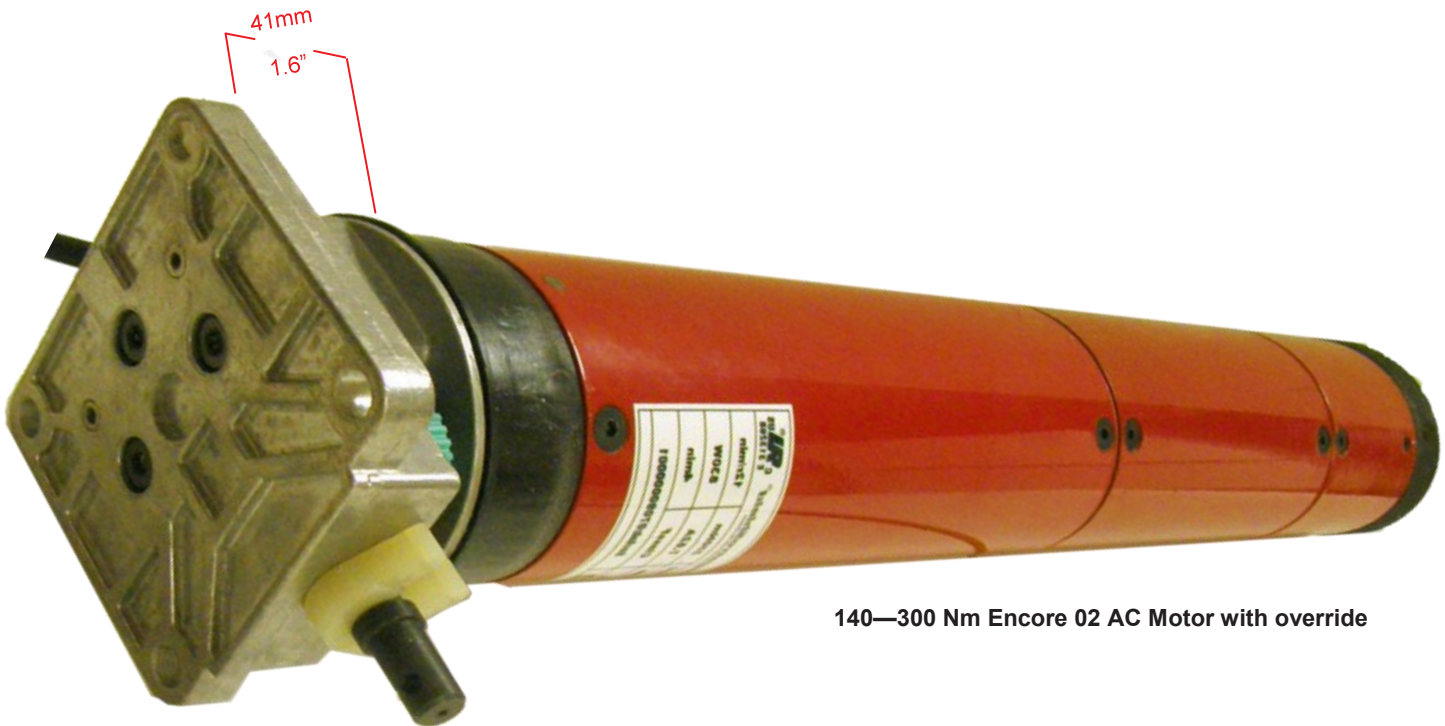
<b>TMUS Standard Motor - 120V / 60Hz</b>											
Item #	Torque	Speed	Tube Diameter	Motor Head Dimensions	Voltage	Input Power	Current	Lifting Weight Based on 100mm Tube		Motor Length	Running Time
	(Nm)	(rpm)	(mm/in)	(in/cm)	(V)	(W)	(A)	(Lbs)	(Kg)	(cm/in)	(min)
<b>TMUS92S-140/12</b>	140	12	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	680	5.80	≤ 462	≤ 210	62.99cm/ 24.80"	4
<b>TMUS92S-180/12</b>	180	12	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	760	6.50	≤ 594	≤ 270	62.99cm/ 24.80"	4
<b>TMUS92S-230/12</b>	230	12	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	990	8.50	≤ 759	≤ 345	62.99cm/ 24.80"	4
<b>TMUS92S-300/8</b>	300	8	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	1000	8.60	≤ 990	≤ 450	62.99cm/ 24.80"	4

**Note: Also Available in 220V - 240V (call for details)**

# Tubular Motors | Encore Series AC 140—300 Nm With Manual Override

## Standard Features Include:

- No 3-phase power needed
- MaestroShield Warranty coverage
- Single sided access to mechanical, set-lever limits,
- Lifting capacities in excess of 1011 lbs. (458.58 kgs).
- Mounting hardware and built-in Crown and Drive Gears for 100mm OD (3.93") / 94mm ID (3.70") tube.
- Maintenance use only manual override



140—300 Nm Encore 02 AC Motor with override

## TMUS Standard Motor - 120V / 60Hz

Item #	Torque	Speed	Tube Diameter	Motor Head Dimensions	Voltage	Input Power	Current	Lifting Weight Based on 100mm Tube		Motor Length	Running Time
	(Nm)	(rpm)	(mm/in)	(in/cm)				(Lbs)	(Kg)		
TMUS92M-140/12	140	12	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	680	5.80	≤ 462	≤ 210	62.99cm/ 24.80"	4
TMUS92M-180/12	180	12	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	760	6.50	≤ 594	≤ 270	62.99cm/ 24.80"	4
TMUS92M-230/12	230	12	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	990	8.50	≤ 759	≤ 349	62.99cm/ 24.80"	4
TMUS92M-300/8	300	8	92 / 3.62"	4.72" X 3.94" 11.98cm x 10cm	110-120	1000	8.60	≤ 990	≤ 459	62.99cm/ 24.80"	4

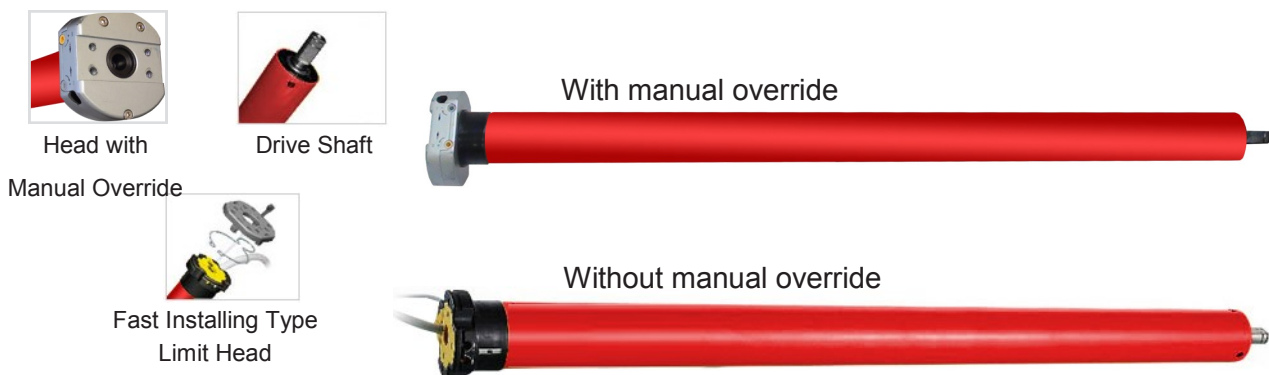
**Note: Also Available in 220V - 240V (call for details)**

Motors with manual override require Universal Assembly  
(See index for reference)

# Tubular Motors | Hybrid Series

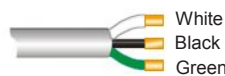
- Built-in Receiver
- Easy-to-Set Electronic Limit Switch
- 3 year 100% replacement Warranty coverage
- With and without Manual Override
- Lifting capacities in excess of 275 lbs. (124.73 kgs)
- Universal Accessories, Crown and Drive Gears for a variety of motor tubes.

## Hybrid Motors—Mechanical limit switch with built-in receiver



### Features

- Quiet design, noise performance below 45dB
- Mechanical limit switch with built-in receiver
- Built-in control board using sealed box, more safe and stable
- Precise limit setting and easy adjustment
- Shock resistance relays for higher stability
- Working temperature from -40 to +85F for electronics
- Works with all MaestroShield control systems
- Both motors can be used with standard mounting plates AC03-03A (standard or AC03-0801 (45" plate)



### Motor Connection

- White—Neutral
- Black—Live
- Green—Earth

## AC Motors • 110 -120V / 60Hz

	Item #	Torque	Speed	Tube Diameter	Voltage	Input Power	Current	Lifting Weight	
								(Nm)	(rpm)
<b>With manual override</b>	<b>TMRS45M-20/30</b>	20	30	45/1.77"	120	300	2.50	≤ 112 lbs/ 50.80kgs	≤ 94 lbs/ 42.63 kgs
	<b>TMRS45M-50/12</b>	50	12	45/1.77"	120	300	2.5	≤ 275 lbs/ 124.73 kgs	≤ 74.84 lbs/ 33.94 kgs
<b>Without manual override</b>	<b>TMRS45S-20/30</b>	20	30	45/1.77"	120	300	2.50	≤ 112 lbs/ 50.80 kgs	≤ 94 lbs/ 42.63 kgs
	<b>TMRS45S-50/12</b>	50	12	45/1.77"	120	300	2.5	≤ 275 lbs/ 124.73 kgs	≤ 74.84 lbs/ 33.94 kgs

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
		Crown: TMUS-SC276 Drive Gear: TMUS-45OG	2.75" (70mm) Octangular Tube	Ø66mm / 2 5/8"
		Crown: TMUS-60OC3 Drive Gear: TMUS-60OG3	2.36" (60mm) Octangular Tube	Ø56mm / 2 7/32"



# Tubular Motors | Theoretical Lifting Capacity

Theoretical Lifting Capacity is an indicator of the torque aptitude of a motor without consideration of factors that impact the actual load value, such as tube diameter, length and deflection, friction and system loss, material dimensions and accessories used.

For all published motor theoretical lifting capacities, an additional 25% safety factor is excluded from the max published lifting capacity to achieve optimal performance of the Motor, MaestroShield strongly suggests utilization of full line of MaestroShield Brand accessory components.

Description	Speed (RPM)	Theoretical Lifting Capacity — in Pounds (lbs) / Kilograms (kgs)							
		25mm Tube (.98")	35mm Tube (1.37")	40mm Tube (1.57")	50mm Tube (1.96")	60mm Tube (2.36")	70mm Tube (2.75")	86mm Tube (3.38")	100mm Tube (3.93")
Silent Series 1 Nm Motor, 24V	20	13 lbs/ 5.89 kgs	10 lbs/ 4.53 kgs	8 lbs/ 3.62 kgs					
Silent Series 3 Nm Motor, 110-120V	28				20 lbs/ 9.07 kgs	17 lbs/ 7.71 kgs	14 lbs/ 6.35 kgs		
Silent Series 6 Nm Motor, 110-120V	28				40 lbs/ 18.14 kgs	33 lbs/ 14.96 kgs	28 lbs/ 12.70 kgs		
Silent Series 8 Nm Motor, 110-120V	19				53 lbs/ 24.04 kgs	44 lbs/ 19.95 kgs	38 lbs/ 17.23 kgs		
Smart Series 6 Nm Motor, 110-120V	28			50 lbs/ 22.67 kgs	40 lbs/ 18.14 kgs	33 lbs/ 14.96 kgs	28 lbs/ 12.70 kgs		
Smart Series 10 Nm Motor, 110-120V	30				66 lbs/ 29.93 kgs	55 lbs/ 24.94 kgs	47 lbs/ 21.31 kgs		
Smart Series 20 Nm Motor, 110-120V	30				134 lbs/ 60.78 kgs	112 lbs/ 50.80 kgs	94 lbs/ 42.63 kgs	77 lbs/ 34.92 kgs	66 lbs/ 29.93 kgs
Smart Series 30 Nm Motor, 110-120V	17				198 lbs/ 89.81 kgs	165 lbs/ 74.84 kgs	141 lbs/ 63.95 kgs	115 lbs/ 52.16 kgs	99 lbs/ 44.90 kgs
Smart Series 40 Nm Motor, 110-120V	12				264 lbs/ 119.74 kgs	220 lbs/ 99.79 kgs	189 lbs/ 85.72 kgs	153 lbs/ 69.39 kgs	132 lbs/ 59.87 kgs
Smart Series 50 Nm Motor, 110-120V	12				330 lbs/ 149.68 kgs	275 lbs/ 124.73 kgs	236 lbs/ 107.04 kgs	192 lbs/ 87.08 kgs	165 lbs/ 74.84 kgs
Harmony Series DC 0.7 Nm Motor, 12V	34	9 lbs/ 4.08 kgs	7 lbs/ 3.17 kgs	6 lbs/ 2.72 kgs					
Harmony Series DC 3 Nm Motor, 12V	24			25 lbs/ 11.33 kgs	20 lbs/ 9.07 kgs	17 lbs/ 7.71 kgs	14 lbs/ 6.35 kgs		
Harmony Series DC 6 Nm Motor, 12V	24			50 lbs/ 22.67 kgs	40 lbs/ 18.14 kgs	33 lbs/ 14.96 kgs	28 lbs/ 12.70 kgs		
Harmony Series DC 20 Nm Motor, 12V	14				132 lbs/ 59.87 kgs	110 lbs/ 49.89 kgs	94 lbs/ 42.63 kgs	77 lbs/ 34.92 kgs	66 lbs/ 29.93 kgs
Harmony Series DC 35 Nm Motor, 12V	7				231 lbs/ 104.78 kgs	193 lbs/ 87.54 kgs	165 lbs/ 74.84 kgs	134 lbs/ 60.78 kgs	116 lbs/ 52.61 kgs

# Tubular Motors | Theoretical Lifting Capacity

Description	Speed (RPM)	Theoretical Lifting Capacity — in Pounds (lbs) / Kilograms (kgs)							
		25mm Tube (.98")	35mm Tube (1.37")	40mm Tube (1.57")	50mm Tube (1.96")	60mm Tube (2.36")	70mm Tube (2.75")	86mm Tube (3.38")	100mm Tube (3.93")
Harmony Series AC 6 Nm Motor, 110-120V	33			50 lbs/ 22.67 kgs	40 lbs/ 18.14 kgs	33 lbs/ 14.96 kgs			
Harmony Series AC 10 Nm Motor, 110-120V	32				66 lbs/ 29.93 kgs	55 lbs/ 24.94 kgs			
Harmony Series AC Prodigy Series 20 Nm Motor, 110-120V	19				132 lbs/ 59.87 kgs	110 lbs/ 49.89 kgs	94 lbs/ 42.63 kgs	77 lbs/ 34.92 kgs	66 lbs/ 29.93 kgs
Harmony Series AC Prodigy Series 20 Nm Motor, 110-120V	32				132 lbs/ 59.87 kgs	110 lbs/ 49.89 kgs	94 lbs/ 42.63 kgs	77 lbs/ 34.92 kgs	66 lbs/ 29.93 kgs
Harmony Series AC Prodigy Series Clutch Release 50 Nm Motor, 110-120V	13				330 lbs/ 149.68 kgs	275 lbs/ 124.73 kgs	236 lbs/ 107.04 kgs	192 lbs/ 87.08 kgs	165 lbs/ 74.84 kgs
Harmony Series AC Aria Series 100 Nm Motor, 110-120V	11						471 lbs/ 231.64 kgs	384 lbs/ 174.17 kgs	330 lbs/ 149.68 kgs
Prodigy Series 30 Nm Motor, 110-120V	14				198 lbs/ 89.81 kgs	165 lbs/ 74.84 kgs	141 lbs/ 63.95 kgs	115 lbs/ 52.16 kgs	99 lbs/ 44.90 kgs
Prodigy Series 40 Nm Motor, 110-120V	14				264 lbs/ 119.74 kgs	220 lbs/ 99.79 kgs	189 lbs/ 85.72 kgs	153 lbs/ 69.39 kgs	132 lbs/ 59.87 kgs
Aria Series 60 Nm Motor, 110-120V	14						283 lbs/ 128.36 kgs	230 lbs/ 104.32 kgs	198 lbs/ 89.81 kgs
Aria Series 80 Nm Motor, 110-120V	14						377 lbs/ 171.04 kgs	307 lbs/ 139.25 kgs	264 lbs/ 119.74 kgs
Aria Series 120 Nm Motor, 110-120V	9						566 lbs/ 256.73 kgs	460 lbs/ 208.65 kgs	396 lbs/ 179.62 kgs
Encore Series 140 Nm Motor, 110-120V	12								462 lbs/ 209.56 kgs
Encore Series 180 Nm Motor, 110-120V	12								594 lbs/ 269.43 kgs
Encore Series 230 Nm Motor, 110-120V	12								759 lbs/ 344.27 kgs
Encore Series 300 Nm Motor, 110-120V	6								990 lbs/ 449.05 kgs
Encore Series 300 Nm Motor, 110-120V	8								990 lbs/ 449.05 kgs

# Tubular Motors | Crown and Drive Gear Compatibility Chart

MOTOR	Diameter of motor	▼ MOTOR TUBE												
		1" Round 2.54cm	1.5" Rollease 3.8cm	1.5" (40mm) Round 3.8cm	1.5" (40mm) Octagonal 3.8cm	44mm Acmeda Tube 1.73"	2" (50mm) Round 5.08cm	2" (55mm) Round 5.08cm	56mm Acmeda Tube 2.20"	2.36" (60mm) Round 6.00cm				
Silent Series 3 - 8 Nm	44.5mm	Crown												
		Drive												
Silent Series 1 Nm	25.5mm	Crown	TMUS-SC458	TMUS-SC1170						Not needed				
		Drive	TMUS-SG472	TMUS-SG1171						TMUS-SG197				
Smart Series 6 Nm	35mm	Crown			TMUS-SC127	TMUS-SC141				TMUS-SC153				
		Drive			TMUS-SG143	TMUS-SG139				TMUS-SG155				
Smart Series 10 - 50 Nm	44.5mm	Crown								Not Needed				
		Drive								TMUS-SG213				
Clutch Release 50 Nm	45mm	Crown												
		Drive												
Harmony DC 0.7 Nm	25mm	Crown		TMUS-C241										
		Drive		TMUS-G265										
Harmony DC 3 - 6 Nm	35mm	Crown			Not Needed				Not Needed	TMUS35-46.5RC				
		Drive			TMUS35-35RC				TMUS-G14	TMUS45-46.5RC				
Harmony DC 3 - 35 Nm	35mm & 45mm	Crown								TMUS-C18				
		Drive								TMUS-G22				
Harmony DC 20 - 35 Nm	45mm	Crown								Not Needed				
		Drive								TMUS45-46.5RC				TMUS-54C
Harmony AC 6 Nm	35mm	Crown			Not Needed				Not Needed	TMUS35-46.5RC				
		Drive			TMUS35-35RC				TMUS-G14	TMUS45-46.5RC				
Harmony AC 6 - 50 Nm	35mm & 45mm	Crown								TMUS-C18				
		Drive								TMUS-G22				
Harmony AC 10 - 50 Nm	45mm	Crown								Not Needed				
		Drive								TMUS45-46.5RC				TMUS-54C
Harmony AC 100 Nm	59mm	Crown												
		Drive												
Prodigy AC 20 - 50 Nm	45mm	Crown								Not Needed				
		Drive								TMUS45-46.5RC				TMUS-54C
Arfa AC 60 - 120 Nm	59mm	Crown												
		Drive												TMUS-54G

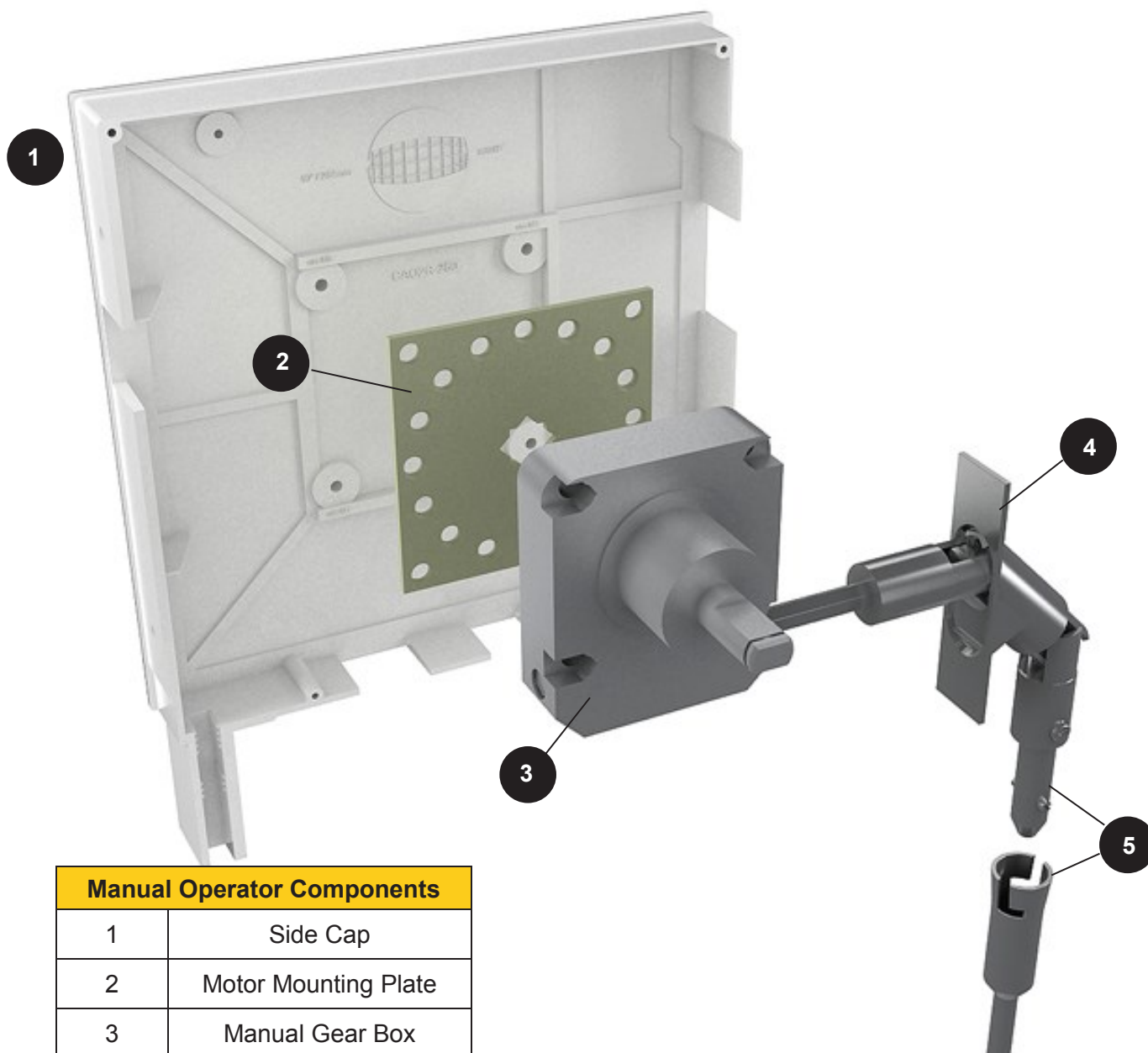
# Tubular Motors | Crown and Drive Gear Compatibility Chart

MOTOR	Diameter of motor	▼ MOTOR TUBE																			
		2.36" (60mm) Octangular	62mm Round 2.44 in	2.5" (63mm) Round	2.5" (65mm) Round	2.75" (70mm) Round	2.75" (70mm) Octangular	3" (78mm) Round	80mm Grooved Awning Tube 3.15 in.	86mm Profiled Tube 3.38 in.	100mm Round Steel Tube 3.93 in.										
Silent Series 3 - 8 Nm	44.5mm	Crown Drive			TMUS-SC161		TMUS-SC505														
		Crown Drive			TMUS-SG163		TMUS-SG510														
Silent Series 1 Nm	25.5mm	Crown Drive																			
		Crown Drive																			
Smart Series 6 Nm	35mm	Crown Drive																			
		Crown Drive																			
Smart Series 10 - 50 Nm	44.5mm	Crown Drive	TMUS-SC159		TMUS-SC161	TMUS-SC259	TMUS-SC166	TMUS-SC276	TMUS-SC309												
		Crown Drive	TMUS-SG160		TMUS-SG162	TMUS-SG260	TMUS-SG65	TMUS-SG277	TMUS-SG310												
Clutch Release 50 Nm	45mm	Crown Drive																			
		Crown Drive																			
Harmony DC 0.7 Nm	25mm	Crown Drive																			
		Crown Drive																			
Harmony DC 3 - 6 Nm	35mm	Crown Drive																			
		Crown Drive																			
Harmony DC 3 - 35 Nm	35mm & 45mm	Crown Drive																			
		Crown Drive																			
Harmony DC 20 - 35 Nm	45mm	Crown Drive	TMUS-600C																		
		Crown Drive	TMUS-600G																		
Harmony AC 6 Nm	35mm	Crown Drive																			
		Crown Drive																			
Harmony AC 6 - 50 Nm	35mm & 45mm	Crown Drive																			
		Crown Drive																			
Harmony AC 10 - 50 Nm	45mm	Crown Drive	TMUS-600C																		
		Crown Drive	TMUS-600G																		
Harmony AC 100 Nm	59mm	Crown Drive																			
		Crown Drive																			
Prodigy AC 20 - 50 Nm	45mm	Crown Drive	TMUS-600C	TMUS-61C																	
		Crown Drive	TMUS-600G	TMUS-61G																	
Aria AC 60 - 120 Nm	59mm	Crown Drive																			
		Crown Drive																			



**MaestroShield®**

# Manual Operators




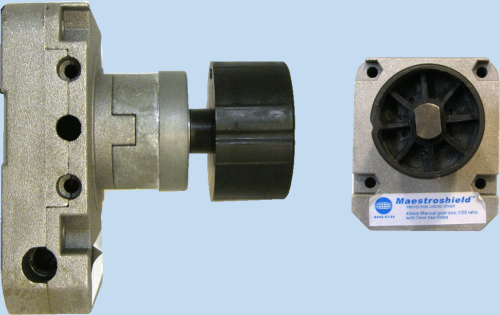
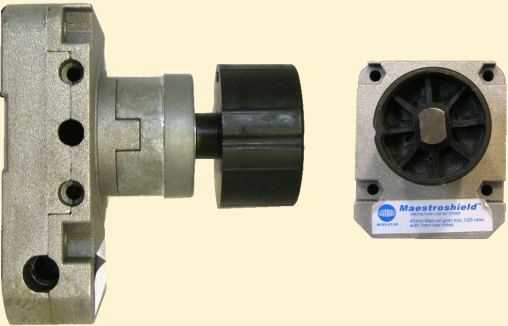
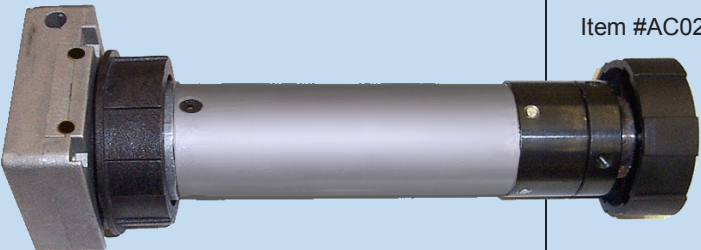
Manual Operator Components	
1	Side Cap
2	Motor Mounting Plate
3	Manual Gear Box
4	Universal
5	Pivot and Bell Coupling
Not Shown	Eyelet and Hook

**PROTECTION**  
*Like No Other™*

# Manual Operators | Manual Gear Boxes

## Standard Features Include:

- No Spring Assist Needed
- All metal internal components; rust and wear resistant
- No Limit Setting
- Can use hand held drill on low setting to operate

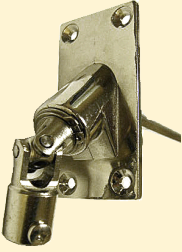

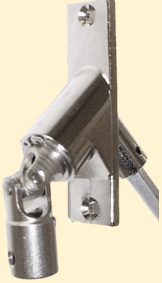



	Item Name and Number	Specifications	Accessories Needed
	<b>1/9 Manual Gear Box</b>  Item #AC02-07/09	<ul style="list-style-type: none"> <li>• 9 to 1 gearing ratio</li> <li>• Lift Capacity: 60 lbs (27 kgs)</li> </ul>	<ul style="list-style-type: none"> <li>• 60mm (2.36") and 70mm (2.75") Drive Gear available. Sold separately.</li> <li>• Universal with Hex 7 shaft needed</li> </ul>
	<b>1/25 Manual Gear Box</b>  Item #AC02-07/25	<ul style="list-style-type: none"> <li>• 25 to 1 gearing ratio</li> <li>• Lift Capacity: 75 lbs (34 kgs)</li> </ul>	<ul style="list-style-type: none"> <li>• Drive Gear needed</li> <li>• Universal with Hex 7 shaft needed</li> </ul>
	<b>1/50 Manual Gear Box</b>  Item #AC02-07/50	<ul style="list-style-type: none"> <li>• 50 to 1 gearing ratio</li> <li>• Lift Capacity: 220 lbs (99 kgs)</li> </ul>	<ul style="list-style-type: none"> <li>• Drive Gear needed</li> <li>• Universal with Hex 7 shaft needed</li> </ul>
	<b>1/59 Manual Gear Box</b>  Item #AC02-07/100	<ul style="list-style-type: none"> <li>• 59 to 1 gearing ratio</li> <li>• Lift Capacity: 350 lbs (158 kgs)</li> </ul>	<ul style="list-style-type: none"> <li>• Crown &amp; Drive Gear needed</li> <li>• Universal with Hex 7 shaft needed</li> </ul>

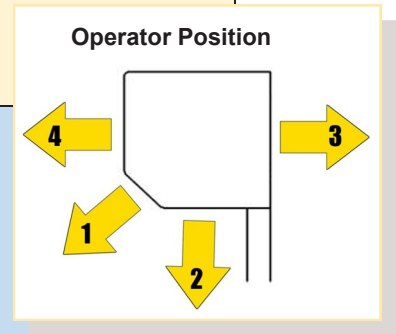
# Manual Operators

| Manual Gear Boxes  
Crown and Drive Gears

Crown	Drive	Item #	Motor Tube / Reel	Outer Diameter
<b>Compatible with 1/25 and 1/50 Manual Gear ONLY</b>				
Not Needed		Drive: TMUS-45G	86mm Profiled Tube  (3.38")	Ø83mm / 3 1/4"
Not Needed		Drive: TMUS-75G	80mm Tube with Groove (Awnings)  (3.14")	Ø83mm / 3 1/4"
Not Needed		Drive: TMUS-45OG	70mm Octagonal Tube  (2.75")	Ø67mm / 2 5/8"
Not Needed		Drive: TMUS-60OG	60mm Octagonal Tube  (2.36")	Ø56mm / 2 7/32"
Not Needed		Drive: TMUS45-46.5RG	2" / 55mm Round Tube	Ø55mm / 2"
<b>Compatible with 1/59 Manual Gear ONLY</b>				
		Crown: TMUS-59C Drive: TMUS-45G	86mm Profiled Tube  (3.38")	Ø83mm / 3 1/4"
		Crown: TMUS-59OC Drive: TMUS-45OG	70mm Octagonal Tube  (2.75")	Ø67mm / 2 5/8"

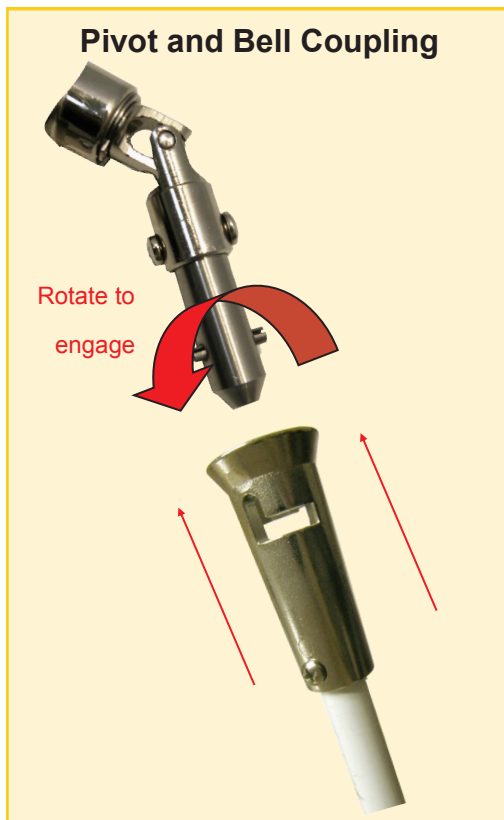
# Manual Operators | Universals

	Item Name and Number	Specifications
	<p><b>Universal 90° / 4 Hole</b></p> <p><b>Item #AC908-02</b> with pivot for use with bell coupling</p> <p><b>Item #AC908-12</b> with eyelet for use with hook</p>	<ul style="list-style-type: none"> <li>• Nickel-plated steel</li> <li>• 50mm (1.96") double layer electrolytic layer for greater corrosion resistance</li> <li>• Includes Hex 7 shaft</li> <li>• Recommended for operator position #3</li> </ul>
	<p><b>Universal 90° / 2 Hole</b></p> <p><b>Item #AC908-01</b> with pivot for use with bell coupling</p> <p><b>Item #AC908-11</b> with eyelet for use with hook</p>	<ul style="list-style-type: none"> <li>• Nickel-plated steel</li> <li>• 50mm (1.96") double layer electrolytic layer for greater corrosion resistance</li> <li>• Includes Hex 7 shaft</li> <li>• Recommended for operator position #2 or #4</li> </ul>
	<p><b>Universal 90° / 2 Hole Stainless Steel (SS304)</b></p> <p><b>Item #AC908-SS01</b> with pivot for use with bell coupling</p> <p><b>Item #AC908-SS11</b> with eyelet for use with hook</p>	<ul style="list-style-type: none"> <li>• Corrosion resistant for superior performance in coastal areas and high humidity</li> <li>• Includes Hex 7 shaft</li> <li>• Recommended for operator position #2 or #4</li> </ul>
	<p><b>Universal 45° / 2 Hole</b></p> <p><b>Item #AC908-04</b> with pivot for use with bell coupling</p> <p><b>Item #AC908-14</b> with eyelet for use with hook</p>	<ul style="list-style-type: none"> <li>• Nickel-plated steel</li> <li>• 50mm (1.96") double layer electrolytic layer for greater corrosion resistance</li> <li>• Includes Hex 7 shaft</li> <li>• Recommended for operator position #1</li> </ul>
	<p><b>Universal 45° / 2 Hole Stainless Steel (SS304)</b></p> <p><b>Item #AC908-SS04</b> with pivot for use with bell coupling</p> <p><b>Item #AC908-SS14</b> with eyelet for use with hook</p>	<ul style="list-style-type: none"> <li>• Corrosion resistant for superior performance in coastal areas and high humidity</li> <li>• Includes Hex 7 shaft</li> <li>• Recommended for operator position #1</li> </ul>
	<p><b>Universal Eyelet Extension</b></p> <p><b>Item #AC0816</b></p>	<ul style="list-style-type: none"> <li>• Nickel-plated steel</li> <li>• 50mm double layer electrolytic layer for greater corrosion resistance</li> <li>• Recommended for operator position #2</li> <li>• Compatible with 140Nm—300Nm motors</li> </ul>





# Manual Operators | Universals Accessories



**Crank Handle Assembly**

Off White

ITEM NUMBER	STAINLESS STEEL OPTION	USE
AC908-52	AC908-SS52	5' (1.5m) Handle with hook
AC908-51	AC908-SS51	5' (1.5m) Handle with bell coupling
AC908-62	AC908-SS62	6' 4" (1.95m) Handle with hook
AC908-61	AC908-SS61	6' 4" (1.95m) Handle with bell coupling
AC908-12	AC908-SS12	10' (3.04m) Handle with hook
AC908-11	AC908-SS11	10' (3.04m) Handle with bell coupling



**Eyelet Exterior Operation**

Black • Reinforced Polycarbonate Plastic

ITEM NUMBER	USE
AC02-10	7mm hex, 6" (15.25cm) steel shaft; use with 8" (20.32cm) hood only

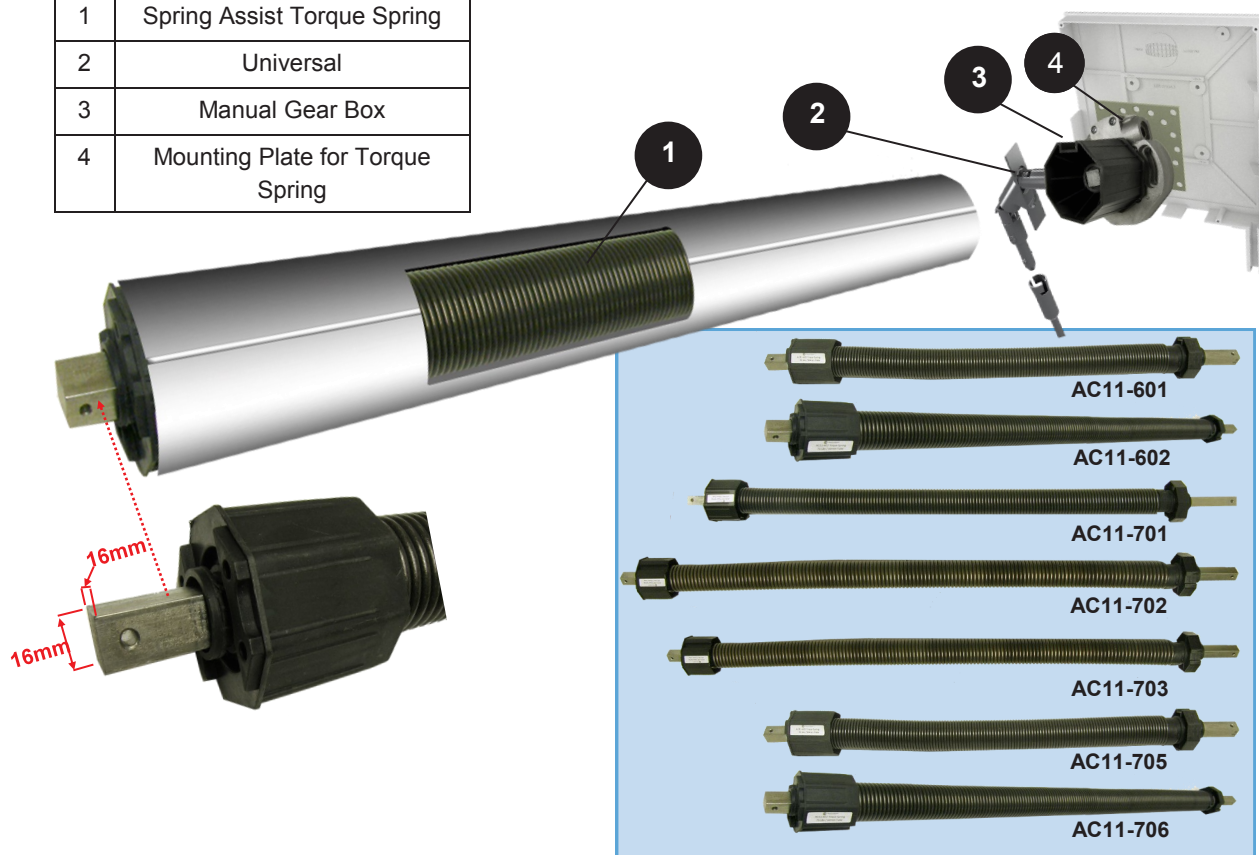
# Manual Operators | Spring Assist

## Features and Benefits:

- Solid, stainless steel axle measuring 16mm X 16mm (.64" X .64");
- Special corrosion-resistant treated springs for superior performance in coastal areas and high humidity;
- Can be utilized for pull down applications;
- Can be combined with manual gear box for easy and precise manual lifting capabilities;
- In some installations, springs can be combined with tubular motor to eliminate the need for 100mm motor tube and heavy duty bracketry.

### Spring Assist Components

#	Component Name
1	Spring Assist Torque Spring
2	Universal
3	Manual Gear Box
4	Mounting Plate for Torque Spring



### (1) Spring Assist Torque Spring

Item #	Motor Tube Diameter	Torque Capacity		Wire Diameter	Number of Turns/spring	Length of Shaft	# of Turns to fully torque
		lbs	Kg				
	mm/in			mm/in		mm/in	
AC11-601	60mm/2.36"	≤33	≤15	3.5mm/.13"	125	650mm / 25.6"	10
AC11-602	60mm/2.36"	≤74	≤34	4.5mm/.17"	160	940mm / 37"	12
AC11-701	70mm/2.75"	≤123	≤56	5.0mm/.19"	140	940mm / 37"	13
AC11-702	70mm/2.75"	≤165	≤75	5.5mm/.21"	188	1270mm / 50"	13
AC11-703	70mm/2.75"	≤220	≤100	6.0mm/.23"	133	1030mm / 40.5"	10
AC11-705	70mm/2.75"	≤33	≤15	3.5mm/.13"	125	650mm / 25.6"	10
AC11-706	70mm/2.75"	≤74	≤34	4.5mm/.17"	160	940mm / 37"	12



**MaestroShield®**

**PROTECTION**  
*Like No Other™*

# Electronics



## Electronics for:

- Control Systems
- Receivers
- Transmitters
- Home and Business Automation

# Electronics



## *MaestroShield's* Electronics    **The elegance of Power**

*MaestroShield's* electronics puts the beauty of your indoor shading, outdoor screening, hurricane, and security systems into motion. Our state-of-the-art electronics support low data rates, low power consumption, security and reliability. With a multitude of programming options, you have the convenience of total control and the quality assurance, technical support, and innovation that is the cornerstone of every *MaestroShield* product.

- Produced under ISO 9001  
Quality Guidelines

*MaestroShield*® motors and electronics are innovation at its best. Designed in-house by Swedish and American engineers, these industry leading components are the perfect combination of power, precision and integration. With multiple configurations available, the agility of our motors and electronics puts them in a class of their own. Designed and tested with quality in mind *MaestroShield*® motors and electronics will greatly enhance your shutter, door, screen and shading applications. These are only some of the reasons why *MaestroShield*® is superior to the competition and an industry leader.



Electronics are covered by a full 2-year replacement warranty.

## Mini Receivers

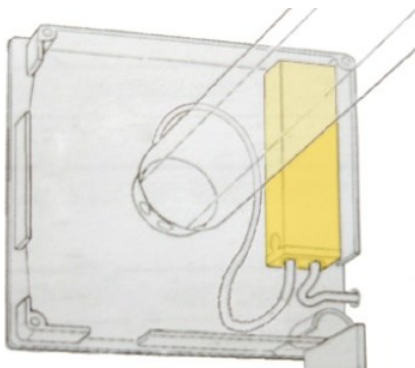


Reach greater distances with the NEW Mini Receiver - compatible with all MaestroShield's Tubular Motors

- New built-in transformer provides voltage stabilization, eliminating voltage irregularities.
- Better insulated for premium moisture protection.
- New built-in transmitter allows for transmission ranges of up to 262' (80 meters)
- Conveniently tucks into any space and provides protection against power surges or spikes.
- Can be easily mounted inside the hood assembly.



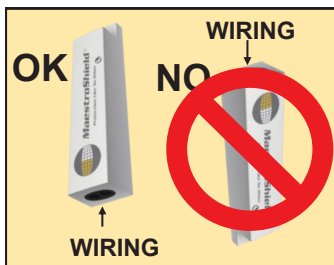
EL03-20



ITEM NUMBER	USE
EL03-10MR10A	110 - 120 V / 60 Hz / 10 Amps • Size: 3.82" W x 1.02" H x 0.79" D (9.70cm W x 2.59cm H x 2.00cm D) Compatible with all MaestroShield AC Motors
EL03-12	220 - 240 V / 60 Hz / 10 Amps • Size: 3.82" W x 1.02" H x 0.79" D (9.70cm W x 2.59cm H x 2.00cm D) Compatible with all MaestroShield AC Motors
EL03-19	3 Amps / 12 V • Size: 3.85" W x 1.02" H x 0.87" D (9.78cm W x 2.59cm H x 2.20cm D) Compatible with MaestroShield 0.7 Nm DC Motor
EL03-20	10 Amps / 12 V • Size: 5" W x 3" H x 1.69" D (12.7cm W x 7.62cm H x 4.29cm D) Compatible with MaestroShield 0.7 - 35 Nm DC Motor

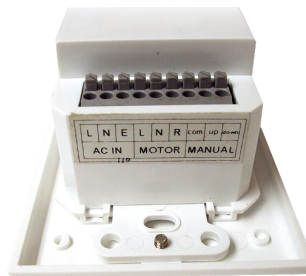
\*Note: Range can vary depending on wall construction and room obstructions.

## Wall Mount Receiver



Receiver - Single Channel Wall Mount, hard-wired

Convenient single button control directly on the receiver, or integrate with remote transmitter and/or key-switch to lock and secure your system



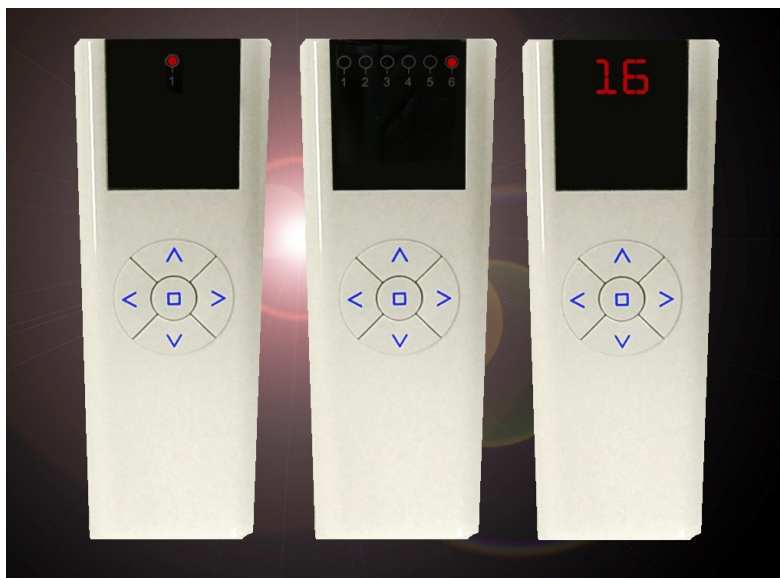
Top View



ITEM NUMBER	LOADING POWER	FREQUENCY	SENSITIVITY	OPERATION
EL03-10WM-KS	≤ 300W	433.92Mhz	-110dBm	Remote / Manual

All MaestroShield brand remote controls can be easily programmed to any MaestroShield receiver and will retain the programming for the lifetime of the unit.

Remote controls have built-in features such as programming multi unit controls and the ability to change the direction of the motor's rotation. Remotes operate on a frequency of 433Mhz.



## Hand Held Remote Controls

Available in:

- 1 Channel - #EL03-10HH01
  - 6 Channel - #EL03-10HH06
  - 16 Channel - #EL03-10HH16
- Easily programmed coded channels for unlimited group or zone control
  - 6 channel and 16 channel remotes have an extra channel to control "All" channels
  - Hand Held remotes come with a wall mount cradle
  - 16 channel remote can block out unused channels

## Wall Mount Remote Controls

Available in:

- 1 Channel - #EL03-10WM01
  - 6 Channel - #EL03-10WM06
  - 16 Channel - #EL03-10WM16
- Easily programmed coded channels for unlimited group or zone control
  - 6 channel and 16 channel remotes have an extra channel to control "All" channels
  - Wall Mount remotes come with a white face plate
  - 6 and 16 channel remote can block out unused channels



## Key Chain Remote Control

**Item #EL03-12** All the functionality of a single channel hand held remote in the palm of your hand.

**Item #EL03-53** Sleek new design key chain remote. 4-channels.

## Hard Wired Key Switches

- Flush Mount - #EL03-18
- Surface Mount - #EL08-16

These momentary switches can be used to lock and secure the operation of any tubular motorized unit. Available in surface mount or flush mount, comes with two sets of keys, and can be integrated with MaestroShield's wall mount receiver and all other MaestroShield electronics.



Flush Mount Key Switch integrated with Wall Mount Receiver



Surface Mount Key Switch integrated with Wall Mount Receiver



Extra Blank Key

Item #EL03-1000



## Momentary Switch

For precision opening or closing of your shutter, screen or shade, hold up or down switch and release at desired height.

Available in:

White - #EL04-06

Ivory - #EL04-10

## Maintain Switch

For continued opening or closing of your shutter, screen or shade to the next preset stop with a single touch.

Available in:

White - #EL04-07

Ivory - #EL04-08



## Face Plate

Sold separately  
White - #EL04-01  
Ivory - #EL04-02



## Home Automation System Interface

#EL03-75A

With our Home Automation System Interface, your MaestroShield Electronics can communicate directly with your home automation system, like Control 4 and Crestron. This increases the flexibility of control for your system from a central control unit, over the internet, or from a cell phone app.



- The MaestroShield Universal RF-Interface is used to integrate third party home automation systems, like Control 4 & Crestron, with MaestroShield's quality RF motors and receivers.
- Operated via RS232 serial communication. After a RS232 input signal is received a RF signal will be sent to programmed devices.
- Devices can be operated in groups or in single mode.
- Integrates with MaestroShield's full line of electronics for complete automation of your screen and awning systems, hurricane and security shutters, and interior shading.



## Weather Reactive Automation

### Wind, Rain, & Sun Sensor

#EL03-06

*MaestroShield®* Wind, Sun and Rain sensor system acts as a transmitter to operate with all *MaestroShield®* mini-receiver and matched transmitters during certain atmospheric conditions. When fitted to motors and control units, users are able to open and close shutters, screens and, awnings automatically based on the related weather conditions. The sensors measure the wind speed, sunlight intensity, and rain fall.

- AC230V ~50Hz or AC120V ~60Hz
- Matched transmitter: DC12V
- Frequency: 433.92MHz
- Power:  $\leq 800W$
- Sensor voltage: DC12V



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## 4 Channel Motor Synchronizer

#EL03-50



Allows up to 4 motors to be controlled using one hard-wired momentary switch. All motors will operate in the same direction simultaneously without electronic interference from the limits.

The synchronizer eliminates crossed signals when connecting multiple motors to a single switch, allowing advanced configurations.

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## Power Distributor Board

#EL03-51

Powers up to 10 DC motors





## Transformer

For 12V and 24V DC motors

Items #EL03-22 - Compatible with 0.7 Nm - 20 Nm 12V motor; 5A/60W with AC and DC cord

Item #EL03-23 - Compatible with 0.7 Nm - 35 Nm 12V motor; 8A/98W with 2 meter (6.56') AC cord

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## Battery Tube

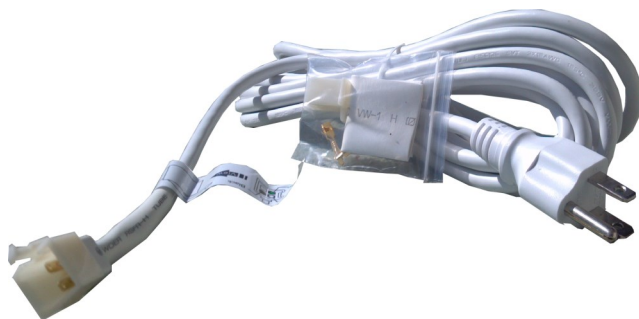
#EL03-30

Powers DC motors; requires eight (8) AA batteries



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**Power cord extension with molded plug now available in 8' (2.43m) and 16' (4.87m) lengths.**



**8' (2.43m) Power cord extension**

# EL04-12

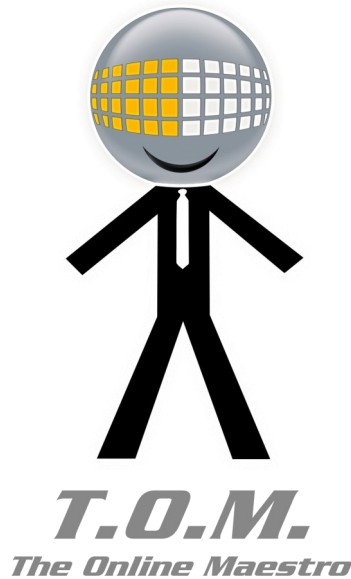
**16' (4.87m) Power cord extension**

# EL04-13

**Heat Sink**

# EL04-14/5

# Comprehensive Supply Chain Portal



**T.O.M. ®** (The Online Maestro) is a secure, web-based order management application designed for all the participants in the supply chain. Its flexible design is tailored towards the different requirements of dealers, fabricators and, distributors.













## Functions include:






- Document portal
- Customer / user maintenance
- Order / quote creation / maintenance
- Creation of bills of materials, pick list and, cut lists
- Generates Purchase Orders for one or more Customer Orders






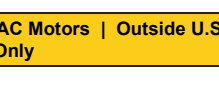







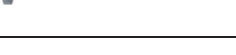









The application is built upon the tiered relationships of a supply chain. For example, a Dealer relies on a Fabricator. The Fabricator in turn relies on a Distributor. The Dealer also indirectly relies on a Distributor through its Fabricator. This layered concept provides the option to allow information (orders and parts) to flow up and down between the layers. For instance, Fabricators can receive orders from Dealers. And, Distributors can receive orders from their Fabricators.























Cascading pricing is a major functional, and benefit, of T.O.M. The relationships between companies allow for orders to seamlessly pass through layers. Assume, for example, the Distributor has a list price. The discounted price becomes the Fabricator's cost. The Fabricator may now set a markup from their cost and set it as their own list price. From this newly created list price, they may set specific discounts for each Dealer below them. Dealers can set a personal markup from their cost to use when pricing Customer orders. Discounts can also be set for each customer order (List Price, Sale Price, Cost)

Quotes can be entered that will prompt the user (Dealer) through the various aspects of the unit configurations. Quotes are automatically priced and discounts or markups can be assigned. They can be converted to orders, combined with other orders and sent to a Fabricator. Bills of Materials (with and without pricing) and cut sheets are automatically calculated and printed. All orders and quotes are saved for future reference.

Tubular Motors						
Silent Series AC Motors   Built-in Receivers   No Override						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Interior Shading Elements Screens	Interior Shading Elements Screens				
				Silent Smart Series 6Nm AC	SSWR06/28	8
		x		Silent Smart Series 8Nm AC	SSWR008/19	8
Silent Series DC Motors   Built-in Receivers and Electronic Limit Switch   No Override						
		x		Smart Silent Series 12V 1 Nm with Built In Battery	SSWR1201/30	30
		x		Silent Series 1Nm DC	SSWR01/30	20
Smart Series AC Motors   Built-in Receivers and Electronic Limit Switch   No Override						
		x		Smart Series 3Nm AC	ELSTM03/33	10
		x		Smart Series 6Nm AC	ELSTM06/28	10
		x		Smart Series 8Nm AC	ELSTM08/24	10
x	x			Smart Series 20Nm AC	ELSTM20/30	8
x	x			Smart Series 30Nm AC	ELSTM30/17	8
x	x			Smart Series 40Nm AC	ELSTM40/12	8
x	x			Smart Series 50Nm AC	ELSTM50/12	8
Clutch Release Motor   AC						
x				Clutch Release Motor	TMUS45M-50/13/Clutch	6
x				Clutch Motor Locking System	AC04-01	6
Harmony Series DC Motors   No Override						
		x		Harmony Series 0.7Nm DC	TMDC-.7W/12V	50
		x		Harmony Series 3Nm DC	TMDC-3W/12V	10
		x		Harmony Series 6Nm DC	TMDC-6W/12V-24	10
		x		Harmony Series 20Nm DC	TMDC-20W/12V	10
		x		Harmony Series 35Nm DC	TMDC-35W/12V	10
Harmony Series AC Motors   No Override						
				Harmony Series 6Nm AC	TMUS35S-06/33	10
		x		Harmony Series 10Nm AC	TMUS45S-10/32	10
x	x			Harmony Series 20Nm AC 19rpm	TMUS45S-20/19	10
		x		Harmony Series 20Nm AC 32rpm	TMUS45S-20/32	10
x	x			Harmony Series 50Nm AC	TMUS45S-50/13	10
x				Harmony Series 100Nm AC	TMUS59S-100/11	6

Tubular Motors						
Prodigy Series AC Motors   Built-in Receivers   With Override*						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Interior Shading Elements Screens	Interior Shading Elements Screens				
x	x			Prodigy Series (120V) U.S. 20Nm 19rpm	TMUS45M-20/19	6
x	x			Prodigy Series (120V) U.S. 20Nm 32rpm	TMUS45M-20/32	6
x				Prodigy Series (120V) U.S. 30Nm	TMUS45M-30/13	6
x				Prodigy Series (120V) U.S. 40Nm	TMUS45M-40/13	6
x	x			Prodigy Series (120V) U.S. 50Nm	TMUS45M-50/13	6
x	x			Prodigy Series (220V) Outside U.S. 20Nm	TMEU-20M/02	6
x				Prodigy Series (220V) Outside U.S. 30Nm	TMEU-30M/02	6
x				Prodigy Series (220V) Outside U.S. 40Nm	TMEU-40M/02	6
x	x			Prodigy Series (220V) Outside U.S. 50Nm	TMEU-50M/02	6
Aria Series AC Motors   U.S. 110-120V   Manual Override						
x				Aria Series U.S. 60Nm	TMUS59M-60/14	6
x				Aria Series U.S. 80Nm	TMUS59M-80/14	6
x				Aria Series U.S. 100 Nm	TMUS59M-100/11	6
x				Aria Series U.S. 120 Nm	TMUS59M-120/09	6
Aria Series AC Motors   Outside U.S. 220-240V   Manual Override Special Order Only						
x				Aria Series Outside U.S. 60Nm	TMEU-60M/02	6
x				Aria Series Outside U.S. 80Nm	TMEU-80M/02	6
x				Aria Series Outside U.S. 100Nm	TMEU-100M/02	6
Encore Series AC Motors   U.S. 120V   No Override						
x				Encore Series U.S. 140Nm No Override	TMUS92S-140/12	2
x				Encore Series U.S. 180Nm No Override	TMUS92S-180/12	2
x				Encore Series 02 U.S. 230Nm No Override	TMUS92S-230/12	2
x				Encore Series 02 U.S. 300Nm No Override	TMUS92S-300/8	2
Encore Series AC Motors   Outside U.S. 220V   No Override Special Order Only						
x				Encore Series Outside U.S. 140Nm No Override	TMEU-140W/03	2
x				Encore Series Outside U.S. 180Nm No Override	TMEU-180W/03	2
x				Encore Series Outside U.S. 230Nm No Override	TMEU-230W/03	2
x				Encore Series Outside U.S. 300Nm No Override	TMEU-300W/03	2


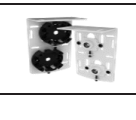

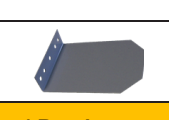

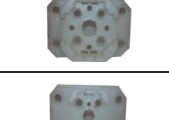






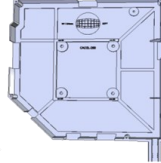








Tubular Motors						
Large Nm - AC Motors   No Override   Outside US 220V						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Elements Screens	Interior Shading				
x				Encore Series 02 Outside U.S. 220V 230Nm No Override	TMEU02-230W	2
X				Encore Series 02 Outside U.S. 220V 300Nm No Override	TMEU02-300W	2
Encore Series AC Motors   U.S. 120V   Manual Override						
X				Encore Series U.S. 140Nm Manual Override	TMUS92M-140/12	2
X				Encore Series U.S. 180Nm Manual Override	TMUS92M-180/12	2
Encore Series AC Motors   U.S. 120V   Manual Override						
X				Encore Series 02 U.S. 230Nm Manual Override	TMUS92M-230/12	2
X				Encore Series 02 U.S. 300Nm Manual Override	TMUS92M-300/8	2
Encore Series AC Motors   Outside U.S. 220-240V   Manual Override Special Order Only						
X				Encore Series Outside U.S. 140Nm Manual Override	TMEU-140M/03	2
X				Encore Series Outside U.S. 180Nm Manual Override	TMEU-180M/03	2
X				Encore Series Outside U.S. 230Nm Manual Override	TMEU-230M/03	2
X				Encore Series Outside U.S. 300Nm Manual Override	TMEU-300M/03	2
X				Encore Series 02 Outside U.S. 230Nm Manual Override	TMEU02-230M	2
X				Encore Series 02 Outside U.S. 300Nm Manual Override	TMEU02-300M	2
HybridSeries AC Motors   110-120V   With and Without Manual Override						
X	X			Hybrid Series 20 Nm w/ Manual Override	TMRS45M-20/30	
X	X			Hybrid Series 50 Nm w/ Manual Override	TMRS45M-50/12	
X	X			Hybrid Series 20 Nm w/o Manual Override	TMRS45S-20/30	
x	X			Hybrid Series 50 Nm w/o Manual Override	TMRS45S-50/12	
Crowns and Drives for Motors						
		X		Crown	TMUS-SC153	20
		X		Drive	TMUS-SG155	20
		X		Crown	TMUS-SC123	20
		X		Drive	TMUS-SG125	20
		X		Crown	TMUS-SG241	20
		X		Drive	TMUS-SG265	20
		X		Crown	TMUS-SC458	20

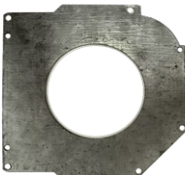
Crowns and Drive Gears for Motors						
Crowns and Drive Gears for Motors						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Elements Screens	Interior Shading				
		X		Drive Gear	TMUS-SG472	20
		X		Crown	TMUS-SC1170	20
		X		Drive Gear	TMUS-SG1171	20
		X		Drive Gear (No Crown Needed)	TMUS-SG197	20
X	x	X		Crown	TMUS-SC161	20
		X		Drive Gear	TMUS-SG163	20
X	x			Drive Gear	TMUS-SG162	20
		X		Crown	TMUS-SC505	20
		X		Drive Gear	TMUS-SG510	20
x	x			Drive Gear (No Crown Needed)	TMUS-SG213	20
X	x			Crown	TMUS-SC159	20
x	x			Drive Gear	TMUS-SG160	20
x	X			Crown	TMUS-SC259	20
X	x			Drive Gear	TMUS-SG260	20
X	x			Crown	TMUS-SC276	20
X	X			Drive Gear	TMUS-SC166	20
X	X			Drive Gear	TMUS-SG277	20
x	X			Drive	TMUS-SG65	20
x	X			Crown	TMUS-SC309	20
X	x			Drive	TMUS-SG310	20
x				Crown	TMUS-590C	20
		x		Crown	TMUS-450C	20
x				Drive	TMUS-590G	20
x	x	X		Drive	TMUS-450G	20
x				Crown	TMUS-59C	20
x	X			Crown	TMUS-45C	20
x				Drive	TMUS-45G	20

Components (Parts and Pieces)						
Crowns and Drive Gears for Motors						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Elements Screens	Interior Shading				
X				Drive Gear	TMUS-59G	20
		X		Crown	TMUS35-46.5RC	20
X	X	X		Drive Gear	TMUS45-46.5RG	20
		X		Drive Gear	TMUS35-35RG	20
		X		Drive Gear	TMUS-G14	20
		X		Drive Gear	TMUS-G02	20
X	X	X		Crown	TMUS-60OC2	20
X	X	X		Drive Gear	TMUS-60OG2	20
X	X	X		Crown	TMUS-54C	20
X	X	X		Drive Gear	TMUS-54G	20
X	X	X		Crown	TMUS-C18	20
X	X	X		Drive Gear	TMUS-G22	20
X	X	X		Crown	TMUS35-60OC	20
X	X			Crown	TMUS-96C	20
X	X			Drive Gear	TMUS-96G	20
X	X			Crown	TMUS-75C	20
X	X			Drive Gear	TMUS-75G	20
X	X			Crown	TMUS-61C	20
X	X			Drive Gear	TMUS-61G	20
X				Crown	TMUS-59RC	20
X						20
Control Systems						
Receivers						
X	X	X		Mini Receiver for 115V AC Motors	EL03-10MR10A	20
X	X	X		Mini Receiver for 220V AC Motors	EL03-12	20
X	X	X		Mini Receiver for 12V / 2A DC Motors	EL03-19	20
X	X	X		Mini Receiver for 12V / 10A DC Motors	EL03-20	20
X	X	X		Wall Mount Receiver	EL03-10WM-KS	20

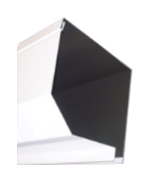
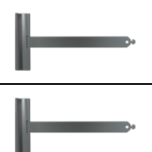

Electronics						
Remote Transmitters						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Elements Screens	Interior Shading				
X	X	X		1-channel Wall Mount Remote Control	EL03-10WM01	20
X	X	X		6-channel Wall Mount Remote Control	EL03-10WM06	20
X	X	X		16-channel Wall Mount Remote Control	EL03-10WM16	20
X	X	X		1-channel Hand Held Remote Control	EL03-10HH01	20
X	X	X		6-channel Hand Held Remote Control	EL03-10HH06	20
X	X	X		16-channel Hand Held Remote Control	EL03-10HH16	20
X	X	X		Key Chain Remote	EL03-52	20
X	X	X		4-Channel Key Chain Remote	EL03-53	20
Hard-Wired Options						
X	X	X		Key Switch Flush Mount	EL03-18	30
X	X	X		Key Switch Surface Mount	EL03-16	30
X	X	X		Extra Blank Key	EL03-1000	10
X	X	X		Momentary Switch White	EL04-06	20
X	X	X		Momentary Switch Ivory	EL04-10	20
X	X	X		Maintain Switch White	EL04-07	20
X	X	X		Maintain Switch Ivory	EL04-08	20
X	X	X		Face Plate Ivory	EL04-02	100
X	X	X		Face Plate White	EL04-01	100
Home Automation						
X	X	X		Home Automation System Interface	EL03-75A	10
X	X	X		Wind, Sun and Rain Sensor	EL03-06	10
Other Electronic Options						
X	X	X		4 Channel Motor Synchronizer	EL03-50	1
X	X	X		Vibration Sensor	EL03-10115	1
X	X	X		Power Distributor Board	EL03-51	1
X	X	X		Transformer	EL03-22	1
X	X	X		Transformer	EL03-22B	1
X	X	X		Transformer	EL03-23	1
X	X	X		Transformer	EL03-25	1
X	X	X		Battery Tube	EL03-30	1
X	X	X		Power Cord	EL04-12	1
X	X	X		Power Cord	EL04-13	1
X	X	X		Power Cord	EL04-14	1
X	X	X		Lithium Battery Charger	EL03-34	1

Components						
Manual Gears						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Elements Screens	Interior Shading				
X				1/9 Manual Gear Box	AC02-07/09	24
X				1/25 Manual Gear Box	AC02-07/25	18
X				1/50 Manual Gear Box	AC02-07/50	18
X				1/59 Manual Gear Box	AC02-07/100	6
Idler Bearing Cradles						
X				Idler Bearing Cradle	AC03-40	15
x				Idler Bearing Cradle	AC02-11	10
		X		Idler Bearing - Female	IS1006F	50
		X		Idler Bearing - Male	IS1006M	50
		X		1.5" Idler Insert	IS1016	20
		x		2" (50mm) Idler Insert	IS1017	20
	X			60mm Idler Bearing w/ Spring	AC02-12-SL	20
X				60mm Idler Bearing	AC02-12	20
X				70mm Idler Bearing	AC02-05-110	20
X				86mm Idler Bearing w/ end cap	AC02-03	10
X				100mm Motor Tube Idler Bearing	AC02-04	10
Mounting Plates   Brackets						
X	X			Universal Mounting Plate	AC03-03A	50
X	X			45° Mounting Plate	AC03-0801	50
X	X			Universal Bracket Plate	AC03-1201	25
X				Motor Star Bracket	AC03-06	20
X				Motor Star Bracket	AC03-16	20
X	x			Universal Bracket Plate	AC03-50	50
X				Harmony Mini Motor Mounting Bracket	AC03-04	20
X				Motor Mounting Cradle Bracket	AC03-07	20

Components and Brackets						
Brackets						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Elements Screens	Interior Shading				
		X		3"x3" Single Bracket	IS1007	10
		X		4"x4" Single Bracket	IS1029	10
		X		7" Double Bracket	IS1028	10
		X		3"x3" T Coupler Bracket	IS1032	10
		X		4"x4" T Coupler Bracket	IS1033	10
		X		7" Double T Coupler Bracket	IS1034	10
X				Heavy Duty Universal Bracket	AC03-20	10
Mounting Plates   Brackets						
X				Small Angle Bracket	AC03-10	50
		X		3"x3" Snap-on Motor Bracket for Fascia	IS1039	20
		X		Snap-on Fascia Motor Bracket for Fascia	IS1038	20
		X		Snap-on Motor Bracket for Bracket	IS1018	20
X	X			Mounting Plate for Torque Spring	AC03-30	15
Hoods & Side Caps—new styles available in 6.5" no leg, 7" & 8" with small leg All Hoods & Side Caps available in: White (WH) Bronze (BZ) Beige (BG) Ivory (IV)						
x	X			5 1/2" Impact-Rated Side Cap	CA02-139-WH, BZ, BG, IV	10
X	X			8" Impact-Rated Side Cap	CA03-205-WH, BZ, BG, IV	10
x	X			10" Impact-Rated Side Cap	CA03-250-WH, BZ, BG, IV	5
x	X			12" Impact-Rated Side Cap	CA03-300-WH, BZ, BG, IV	5
				5.5" Round Extruded Hood, Front	SM10F-5.5-BG, SM10F-5.5-BZ, SM10F-5.5-IV, SM10F-5.5-WH	1
				5.5" Rounded Side Cap	CA10-139-BG, CA10-139-BZ, CA10-139-IV, CA10-139-WH	20
				6.5" Side Cap Removable Leg	CA05-165-WH, BZ, BG, IV CA05SM	20
				7" Side Cap With small Leg	CA04-180-WH, BZ, BG, IV	20
				8" Side Cap With small Leg	CA04-205-WH, BZ, BG, IV	20

Side Caps and Extrusions						
Safety Plates for Side Caps						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Elements Screens	Interior Shading				
x	X			5 1/2" Safety Plate for Side Cap	SM02B-5.5 (back) SM02F-5.5 (front)	20
X	x			8" Safety Plate for Side Cap	SM02B-8 (back) SM02F-8 (front)	20
x	X			10" Safety Plate for Side Cap	SM02B-10 (back) SM02F-10 (front)	20
X	x			12" Safety Plate for Side Cap	SM02B-12 (back) SM02F-12 (front)	20

**Hood Assembly | Side Caps | Extrusions | Accessories**

X	x			5 1/2" 5-Sided 45° Extruded Hood	SM02B-5.5 (back) SM02F-5.5 (front)	1 back and 1 front
X	X			8" 5-Sided 45° Extruded Hood	SM02B-8 (back) SM02F-8 (front)	1 back and 1 front
X	X			10" 5-Sided 45° Extruded Hood	SM02B-10 (back) SM02F-10 (front)	1 back and 1 front
x	X			12" 5-Sided 45° Extruded Hood	SM02B-12 (back) SM02F-12 (front)	1 back and 1 front
				8" Hood 45 Deg w / Lip	SM01-08-WH, SM01-08-BG, SM01-08-IV, SM01-08-BZ	
				10" Hood 45 Deg w / Lip	10" Hood 45 Deg w / Lip	
				12" Hood 45 Deg w / Lip	12" Hood 45 Deg w / Lip	
X				Slat Hanger	AC10-01	100
X				Slat Hanger	AC10-02	100
X				Non-Vented 56mm Slat	EX01-01S-WH, EX01-01S-BG, EX01-01S-BZ, EX01-01S-IV	10
x				Vented 56mm Slat	EX01-01V-WH, EX01-01V-BG, EX01-01V-BZ, EX01-01V-IV	10
X				Non-End Retention Side Rail	EX01-02	1
X				Plastic Entry Guide (Bag)	AC01-12A	20
X				Plastic Entry Guide (Box)	AC01-12SM	20
	X			Elements Screen Bottom Bar (Front)	WSA9001F-WH, WSA9001F-BG, WSA9001F-BZ, WSA9001F-IV	1
	X			Elements Screen Bottom Bar (Back)	WSA9001B-WH, WSA9001B-BLK, WSA9001B-MIL	1
x				End Retention Side Rail	EX01-05W-WH, EX01-05W-BLK, EX01-05W-MIL	1

**Extrusions and Accessories**



**New Products**

New Products						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Elements Screens	Interior Shading				
<b>Hoods and Side Caps now available in: 6.5" without leg, 7" and 8" with small leg</b>						





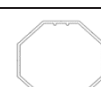
**Slats | Side Rails | Bottoms Bars | Accessories**

	X			Bottom Bar End Retention (Box)	WS9003B	20
	X	x		Side Rail (Front)	WSA9002F-WH, WSA9002F-BG, WSA9002F-BZ, WSA9002F-IV	1
	x	X		Side Rail (Back)	WSA9002B-WH, WSA9002B-BG, WSA9002B-BZ, WSA9002B-IV	1
	X			Recessed Outer track	WSA9030B-WH	1
	x			Recessed Inner track	WSA9030F-WH	1
	X			Nylon Entry Guide (Bag)	WS9004B	20
	x			Nylon Entry Guide (Box)	WS9005	20

**Interior Shading Extrusions and Accessories**




		x		Bottom Bar	IS1555-WH, IS1555-BZ, IS1555-BLK, IS1555-MIL	1
		x		Bottom Bar End Cap	IS1552	20

**Extruded Motor Tubes | Fascia**

X				Motor Tube MS 86mm	EX02-08/24	1
X				Motor Tube MS 70mm Octagonal Inside, Round Outside	EX01-07/24	1
x				Motor Tube 100mm Round Triple Coat Protection Galvanized Steel	EX01-09/24	1
		X		Motor Tube 68mm Outer	IS1525	1
		x		Motor Tube 50mm Inner	IS1526	1
x	x			Motor Tube 60mm Inner Aluminum Octagonal	EX01-16/21	1



Extrusions - Motor Tubes						
Extrusions - Motor Tubes						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Elements Screens	Interior Shading				
	X			3 1/2" Motor Tube 86mm Outer	EX01-14/24	1
	X			4 1/4" Motor Tube 108mm	EX01-17/21	1
Other Accessories						
X				2 Wing End Retention Slat Lock	AC06-02/1B	300
X				2 Wing End Retention Slat Lock	AC06-01/1B	300
X				Slat Cap	AC01-08	1000
X				Bottom Bar Lock	MS-1003	
X				Aluminum Bottom Bar for Lock System	MS-1004	2
X				Aluminum Bar	MS-1006	12
X				Assembled Locking Slat for Aluminum Roll Down	MS-1007	19
X				Felt	AC01-10	1
Other Accessories						
X	X			5/8" Hole Caps	AC01-11-WH, AC01-11-IV, AC01-11-BG, AC01-11-BZ	1
X	X			Conic Stopper	AC07-04	100
X	X			Conic Stopper	AC07-03	100
X	X			Conic Stopper	AC07-05	100
X				Rubber Ring	AC01-05	20
X				Slat Gasket	AC01-17	2
X				Water Seal Gasket	AC09-01	1
X	X			Brush Seal 19mm (0.75")	AC05-01	1
X	X			Brush Seal 31.75mm (1.25")	AC05-03	1

Components						
Other Components						
Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Elements Screens	Interior Shading				
X				Brush Seal 12mm (0.25")	AC05-02	1
	X			Zipper #8 gauge	WS-1006	1
				Zipper #8 gauge	WS-1001	1
X	X	X		Weightbar, Stainless Steel, 3/8" round	WSA9100	1
	X			Spline for Screen	WS-1003	1
				Spline for Screen	WS1004	1
	X			Recessed Track Foam	WS1005	1
X				Spring Block 2"x 3"	AC07-01	1
X				Spring Block 2"x 4"	AC07-02	1
Universals & Crank Handles						
X	X			90° / 4 Hole Universal w/ pivot	AC908-02	30
X				90° / 4 Hole Universal w/ eyelet	AC908-12	30
X				90° / 2 Hole Universal w/ pivot	AC908-01	30
X				90° / 2 Hole Universal w/ eyelet	AC908-11	30
X				Stainless Steel 90° / 2 Hole Universal w/ pivot	AC908-SS01	30
X	X			45° / 2 Hole Universal w/ pivot	AC908-04	30
X				45° / 2 Hole Universal w/ eyelet	AC908-14	30
X				Stainless Steel 45° / 2 Hole Pivot	AC908-SS04	30
X	X			5' Handle with Bell Coupling	AC908-51	20
X	X			6' 4" Handle with Bell Coupling	AC908-61	20
X	X			10' Handle with Bell Coupling	AC910-11	20
X				5' Handle with Hook	AC908-52	20
X				6' 4" Handle with Hook	AC908-62	20
X				10' Handle with Hook	AC908-12	20
				Crank Handle-5' w/ Hook	AC908-SS52	
				Crank Handle-6'4" w/ Hook	AC908-SS62	
				Crank Handle-10' w/ Hook	AC908-SS12	

**Accessories**

**Cranks with durable stainless steel and Accessories**

Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Elements Screens	Interior Shading				
				Crank Handle-5" w/ Bell	AC908-SS51	
				Crank Handle-6.4" w/ Bell	AC908-SS61	
				Crank Handle-10" w/ Bell	AC908-SS11	
X				Eyelet Exterior Operator	AC02-10	20

**Spring Assists**

X				Spring Assist Torque Spring	AC11-601	4
X				Spring Assist Torque Spring	AC11-602	4
X				Spring Assist Torque Spring	AC11-701	4
X				Spring Assist Torque Spring	AC11-702	4
X				Spring Assist Torque Spring	AC11-703	4
X				Spring Assist Torque Spring	AC11-705	4
X				Spring Assist Torque Spring	AC11-706	4

**Complete Aluminum Roll Down Shutters | Ready To Install**

X				Aluminum Roll Down Shutters; Non-End Retention	CS01-Non End-WH, CS01-Non- End-IV, CS01-Non End-BG, CS01-Non End-BZ	Up to 88"
X				Aluminum Roll Down Shutters; End Retention	CS01-End Ret-WH, CS01-End Ret-IV, CS01-End Ret-BG, CS01-End Ret-BZ	Up to 262"
				Maestran with Grommets on 2 sides	MS01-11-02	
				Maestran with Grommets on 4 sides	MS01-11-04	

**Dealer Tools**

				2-panel Aluminum Roll Down Demo Board	Call for Details	1
				Single Sided Mini Demo Aluminum Roll Down Motorized	PR05-04-WH, PR05-04-IV, PR05-04-BG, PR05-04-BZ	1
				Single Sided Mini Demo Aluminum Roll Down Manual	PR05-05-WH, PR05-05-IV, PR05-05-BG, PR05-05-BZ	1
				Single Sided Mini Demo Maestran Roll Down Motorized	PR05-07-WH, PR05-07-IV	1
				Single Sided Mini Demo Screen Roll Down Motorized	PR05-10	1

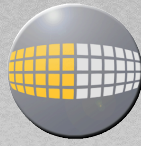
**Dealer Tools**

**Dealer Kits and Samples**

Compatibility			Component	Component Name	Item #	Pcs per Box / Bundle
Roll Down Shutters	Elements Screens	Interior Shading				
				Dealer Bag	PR04-01	
				Maestran Sample	PR05-08	

This is a partial list of products. Please contact MaestrosShield for additional parts and pieces, as well as custom products, and 220V Motors and Electronics. We carry an extensive line of products including idlers, universals, mounting plates, appropriate hardware, touch-up paint, etc. to name just a few of the products we carry.





**MaestroShield®**

*Protection Like No Other*

## Company Profile

**MaestroShield®**, a Swedish-founded international company incorporated under the name USA Shutter Company, Inc., was formed to develop, produce and distribute high quality, innovative window protection and shading systems for global markets. The MaestroShield™ family of window safety, security, and shading products has been engineered to exceed the highest certification standards required. Our commitment to engineering excellence is surpassed only by a commitment to complete customer satisfaction.

MaestroShield excels in the design, development and engineering of an elite brand of products that we supply to a diverse range of industries. Our commitment to engineering excellence is surpassed only by our commitment to complete customer satisfaction. Our three stars of Quality, Price and Delivery drive our operations and have made us one of the most rapidly growing suppliers in our markets.

MaestroShield's dealer based business-to-business platform is supported by quick and accurate in-house engineering, technical support, full range training and exceptional customer service.

MaestroShield products reflect quality from inception to full production and are stamped with approvals from the most rigorous regulatory agencies. We operate under ISO 9001 Quality System guidelines and offer our customers outstanding warranties, service and the most reliable supply of an ever-growing and innovative line up of products

MaestroShield® brings to the market easy-to-install, quality products at reasonable prices. Continuous improvement of our products, driven by customer requests, adds to the versatility and diversity of our product lines.

### **Roll-Down Aluminum Shutters**

MaestroShield® Aluminum Shutter systems hold approvals from Florida Building Code (FL12766 HVHZ and Non-HVHZ), Miami-Dade County (NOA # 07-0711.20) and Texas Department of Insurance (SHU150). Together with our NAMI Certification and our ISO 9001 Quality Management System,

MaestroShield® is dedication to the highest Quality standards.

PCT Patent pending in 110 countries, MaestroShield® guarantees long-term Protection Like No Other™. Available as separate pieces and parts and as custom-made complete shutter systems, MaestroShield® Roll down Aluminum Shutter systems have been designed to fit every opening and every company. We can also extrude and engineer your own specific aluminum product to fill the needs of your company.

### **Maestran™**

Maestran™ is MaestroShield's exclusive hurricane and security screen, made from an Aramid fiber (Kevlar) cabled with 304 Stainless Steel and woven into a heavy-duty screen. This product has passed Miami Dade (NOA #07-0404.02), Florida Building Code (FL8622), and Texas Department of Insurance (SHU158) standards for High Velocity Hurricane Zone (HVHZ).

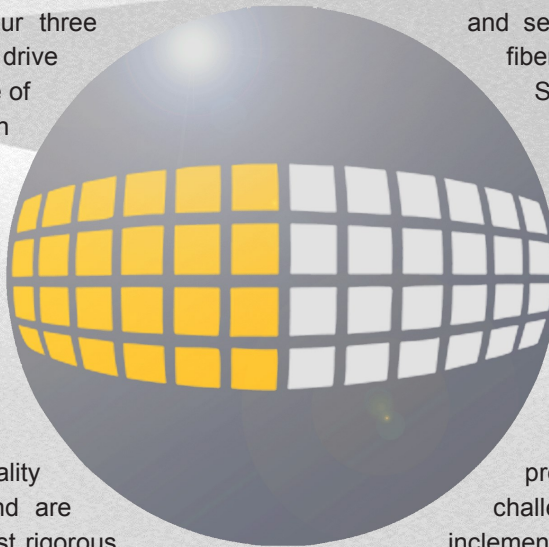
### **Exterior Screening**

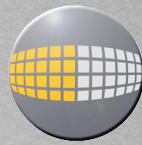
MaestroShield's Elements Screens™ provides complete solutions to meet the challenges of controlling light, heat and inclement weather. We are unique to the industry in the fact that we design, engineer and manufacture all major shading and screening components from motors to tracks to hoods to electronics. By doing this, we supply our Dealers and customers with the complete package: innovative engineering, quality products, competitive pricing, controlled delivery, outstanding customer service, industry leading warranties and a network of dealers ready to service your needs.

In order to match the elegance of your exterior, there are a wide range of fabric choices from leading industry manufactures compatible with Elements Screens components including an exclusive clear vinyl.

### **Interior Shading**

For too long motorized shading accessories have been





# MaestroShield®

*Protection Like No Other*

plagued with bad design, poor quality and difficult installations. As modern entrepreneurs and master innovators, MaestroShield® understands the potential size and scope of the shading industry as well as the need to develop a better product that will be embraced and celebrated by all. In order to accomplish our goal, we brought together industry expert designers, installers, dealers and customers to understand the current problems with motorized shading systems. Once those problems were identified, our engineers got right to work creating solutions. Our innovation will change the way you think about interior shading.

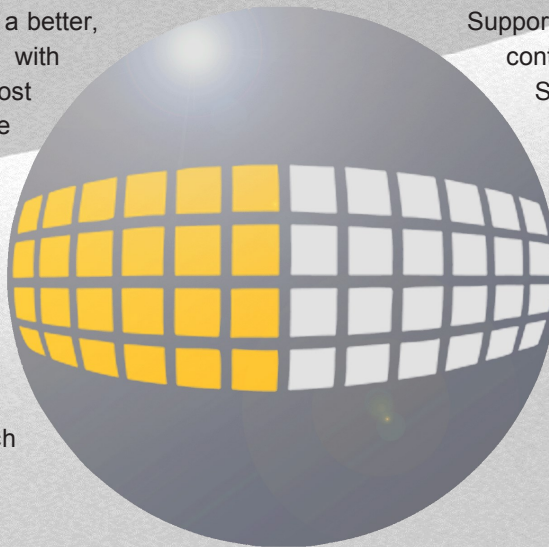
### **Motors and Electronics**

The ability to provide the market with a better, more quality-driven tubular motor with increased reliability and a lower cost goes back to the dedication of the engineers behind the product. They enhanced the performance of the MaestroShield Brand Tubular Motor beyond anything else available in the market to achieve a balance between power and life cycle that is truly Like No Other. Based upon lifecycle and capacity tests, MaestroShield gives each

Tubular motor a 5 year replacement Warranty beginning on the sale date of the unit to the Dealer.

MaestroShield Electronic accessories have been developed according to the same high quality standards and protocols. They are the most reliable products on the market and have been tested by a diverse cross-section of companies. The test results speak for themselves and are readily available for review to answer any remaining questions.

MaestroShield believes in continuous improvement and growth and enjoys a successful presence in the market place. Dedication to Quality, Price and Delivery, together with extensive Dealer training courses, Technical Support and readily available inventory will continue to move the Hurricane and Security Protection, Exterior Screening, Interior Shading and Tubular Motors and Electronics industries to a new level and to move MaestroShield's place in that industry forward as well.



### Return and Exchange Policy

No items may be returned without expressed written approval of MaestroShield® and without a return authorization number. Returns are subject to MaestroShield's acceptance, and a restocking charge of 20% of invoice value will apply on all returned items. Items approved for return must be returned in appropriate packaging, freight prepaid and accompanied by a copy of the original invoice. Items that arrived damaged or cannot be returned to stock will not receive credit. Exchanges of merchandise will be allowed providing all previously mentioned stipulations have been met. Any remaining balance left unused after the exchange or return will be issued as an open credit on the account for future use.

### Order Cancellation Policy

Orders may be cancelled within 24 hours of placement and receipt of signed purchase order provided that the items have not already been shipped. For order cancellations after this period we reserve the right to charge a 20% order cancellation fee. Orders which are refused at delivery will be assessed a restocking fee and charged for any shipment that have resulted in either direction. No credit will be issued except against an exchange for other merchandise. Orders for custom products or those that require special handling are not subject to return or cancellation.



***MaestroShield***<sup>®</sup>

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