



Motor Selection Guide

For Rolling Shutters

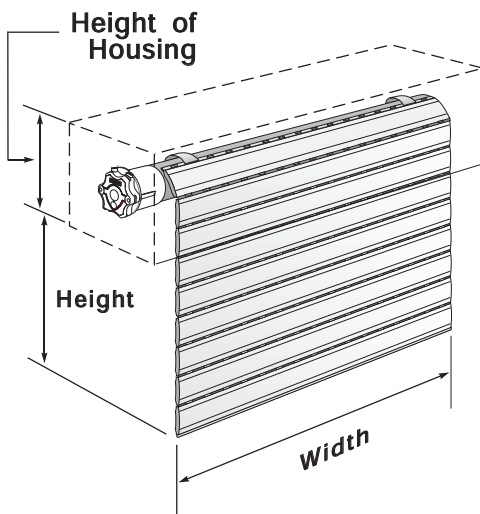
To select a motor in this guide you need to know the following:

1. Type of slat: Height and Thickness
2. Total weight of shutter
3. Diameter of the tube



Type of Slat:

It is important to consider the height and thickness of the slats before choosing an operator, since these variables affect the weight per square foot of a rolling shutter. In the next four pages you will find four types of slats. Choose the one that most closely corresponds to the slat that you intend to use.



Total Weight of Shutter

$$\text{Total weight} = \underbrace{\text{Width} \times (\text{Height} + \text{Height of Housing})}_{\text{surface}} \times \text{Weight per sq. ft.}$$

Important Note:

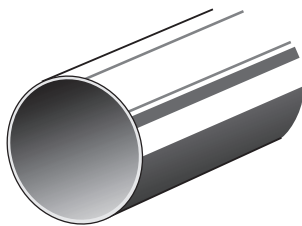
The choice of a motor also depends on the type of installation.

- If you use one motor for two or more shutters add 15% for each additional shutter to derive the total weight.

Examples: 2 shutters/one motor = + 15% to the total weight

3 shutters/one motor = + 30% to the total weight

- If the roller tube is too far from the tracks, add 15% to the total weight



Diameter of Tube:

The lifting capacity of an operator decreases when the tube diameter increases. Therefore, it is necessary to choose the smallest tube while considering the load capacity of the tube and the optimum roll-up diameter of the slats.

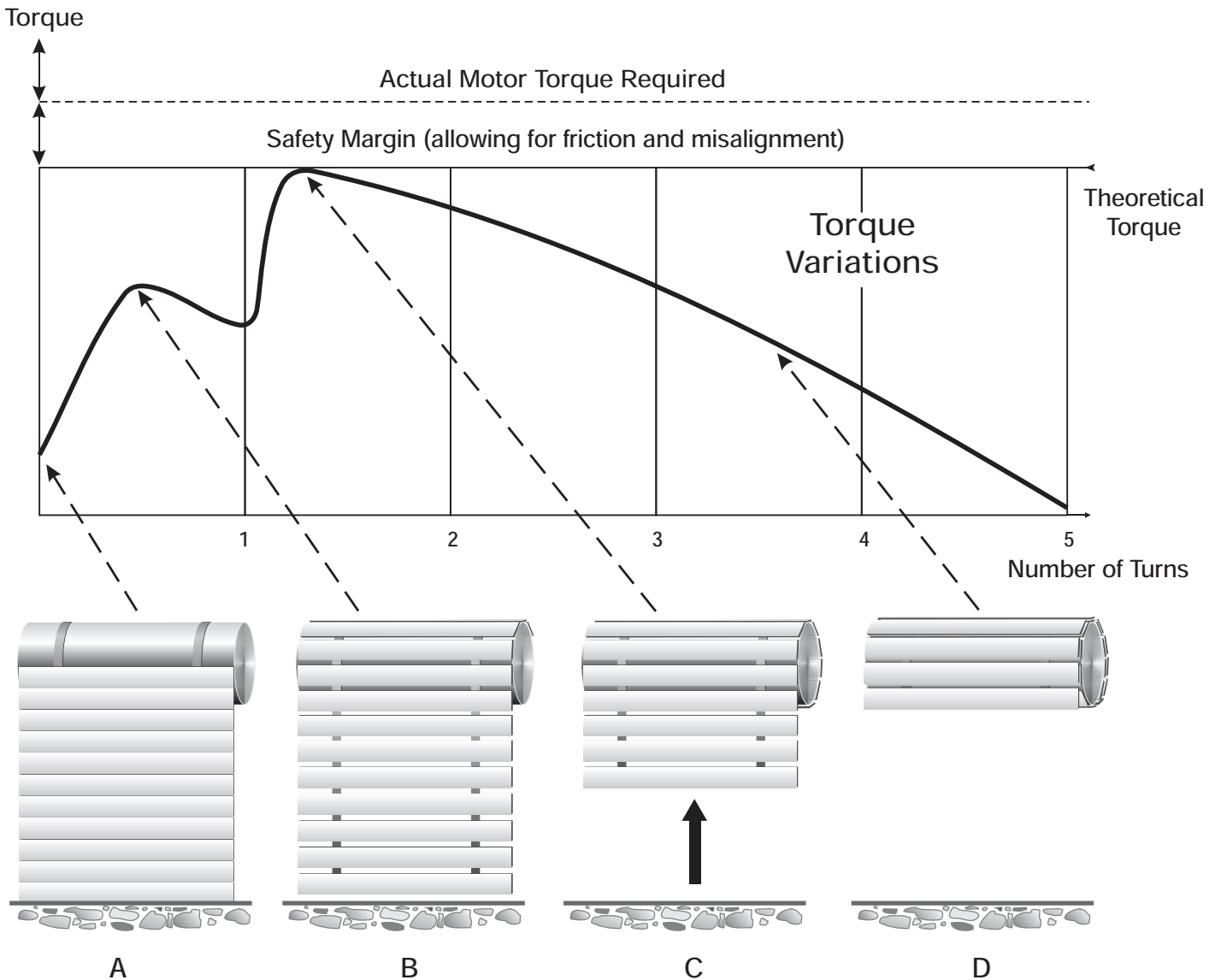
After choosing the roller tube and the chart corresponding to your type of slat (see pages 17-20), select the operator according to the weight and the total height of the shutter (the safety factor is included in these charts).



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TORQUE REQUIREMENT DIAGRAM



A. The initial torque required to start lifting the slats is small. However, it increases rapidly. This results from the motor lifting the load of the slats away from the bottom of the application.

B. All slats are hanging free. The torque may slightly decrease while the slats are rolling up, since the tube radius has not yet increased.

C. The maximum torque required is arrived at when the slats are lifted up about one third of the way from the bottom of the application.

D. The torque decreases progressively and reaches a minimum when the shutter is fully rolled up.



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After choosing the roller tube and the page corresponding to your type of slat, select the operator according to the weight and the total height of the shutter (A safety factor is included in these charts).

TYPE OF SLAT: HEIGHT 1.44" TO 1.50" (36/38 mm) THICKNESS .340" TO .355" (9 mm)

HEIGHT: 0 TO 5 FT.

TYPE OF TUBE	kg.	9	18	27	36	45	55	64	73	82	91	100	109	118	127	136	145	155	164	173	
	lb.	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	
OCTA. 40		404R2	409R2																		
ROUND 2.5" (63.5)		510R2	520R2	530R2	540R2	550R2	660R2	680R2	6100R2												
OCTA. 60 Round 70		510R2	520R2	530R2	540R2	550R2	660R2	680R2	6100R2												
OCTA. 70 Round 75		510R2	520R2	530R2	540R2	550R2	660R2	680R2	6100R2												
ROUND 3.5" (89)		510R2	520R2	530R2	540R2	550R2	660R2	680R2	6100R2												

HEIGHT: 5 FT. TO LESS THAN 8 FT.

TYPE OF TUBE	kg.	9	18	27	36	45	55	64	73	82	91	100	109	118	127	136	145	155	164	173	
	lb.	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	
OCTA. 40		404R2	409R2																		
ROUND 2.5" (63.5)		510R2	520R2	530R2	540R2	550R2	660R2	680R2	6100R2												
OCTA. 60 Round 70		510R2	520R2	530R2	540R2	550R2	660R2	680R2	6100R2												
OCTA. 70 Round 75		510R2	520R2	530R2	540R2	550R2	660R2	680R2	6100R2												
ROUND 3.5" (89)		510R2	520R2	530R2	540R2	550R2	660R2	680R2	6100R2												

HEIGHT: 8 FT. TO 11.5 FT.

TYPE OF TUBE	kg.	9	18	27	36	45	55	64	73	82	91	100	109	118	127	136	145	155	164	173	
	lb.	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	
OCTA. 40		404R2	409R2																		
ROUND 2.5" (63.5)		510R2	520R2	530R2	540R2	550R2	660R2	680R2	6100R2												
OCTA. 60 Round 70		510R2	520R2	530R2	540R2	550R2	660R2	680R2	6100R2												
OCTA. 70 Round 75		510R2	520R2	530R2	540R2	550R2	660R2	680R2	6100R2												
ROUND 3.5" (89)		510R2	520R2	530R2	540R2	550R2	660R2	680R2	6100R2												



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TYPE OF SLAT: HEIGHT 1.58" TO 1.65" (40/42 mm) THICKNESS .340" TO .355" (9 mm)

HEIGHT: 0 TO 5 FT.

TYPE OF TUBE	kg.	9	18	27	36	45	55	64	73	82	91	100	109	118	127	136	145	155	164	173	
	lb.	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	
ROUND 2.5" (63.5)																					
OCTA. 60 Round 70																					
OCTA. 70 Round 75																					
ROUND 3.5" (89)																					

HEIGHT: 5 FT. TO LESS THAN 8 FT.

TYPE OF TUBE	kg.	9	18	27	36	45	55	64	73	82	91	100	109	118	127	136	145	155	164	173	
	lb.	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	
ROUND 2.5" (63.5)																					
OCTA. 60 Round 70																					
OCTA. 70 Round 75																					
ROUND 3.5" (89)																					

HEIGHT: 8 FT. TO 11.5 FT.

TYPE OF TUBE	kg.	9	18	27	36	45	55	64	73	82	91	100	109	118	127	136	145	155	164	173	
	lb.	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	
ROUND 2.5" (63.5)																					
OCTA. 60 Round 70																					
OCTA. 70 Round 75																					
ROUND 3.5" (89)																					



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TYPE OF SLAT: HEIGHT 1.986" TO 2.10" (50/53 mm) THICKNESS .55" (14 mm)

HEIGHT: 0 TO 5 FT.

TYPE OF TUBE	kg.	9	18	27	36	45	55	64	73	82	91	100	109	118	127	136	145	155	164	173	
	lb.	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	
ROUND 2.5" (63.5)																					
OCTA. 60 Round 70																					
OCTA. 70 Round 75																					
ROUND 3.5" (89)																					

HEIGHT: 5 FT. TO LESS THAN 8 FT.

TYPE OF TUBE	kg.	9	18	27	36	45	55	64	73	82	91	100	109	118	127	136	145	155	164	173	
	lb.	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	
ROUND 2.5" (63.5)																					
OCTA. 60 Round 70																					
OCTA. 70 Round 75																					
ROUND 3.5" (89)																					

HEIGHT: 8 FT. TO 11.5 FT.

TYPE OF TUBE	kg.	9	18	27	36	45	55	64	73	82	91	100	109	118	127	136	145	155	164	173	
	lb.	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	
ROUND 2.5" (63.5)																					
OCTA. 60 Round 70																					
OCTA. 70 Round 75																					
ROUND 3.5" (89)																					



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TYPE OF SLAT: HEIGHT 2.125" TO 2.20" (54/56 mm) THICKNESS .55" (14 mm)

HEIGHT: 0 to 5 FT.

TYPE OF TUBE	kg.	9	18	27	36	45	55	64	73	82	91	100	109	118	127	136	145	155	164	173	
	lb.	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	
OCTA. 60 Round 70			510R2	520R2	530R2	540R2	550R2														
OCTA. 70 Round 75			510R2	520R2	530R2	540R2	550R2														
ROUND 3.5" (89)			510R2	520R2	530R2	540R2	550R2														

HEIGHT: 5 FT. TO LESS THAN 8 FT.

TYPE OF TUBE	kg.	9	18	27	36	45	55	64	73	82	91	100	109	118	127	136	145	155	164	173	
	lb.	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	
OCTA. 60 Round 70			510R2	520R2	530R2	540R2	550R2	660R2			680R2										
OCTA. 70 Round 75			510R2	520R2	530R2	540R2	550R2	660R2			680R2										
ROUND 3.5" (89)			510R2	520R2	530R2	540R2	550R2	660R2			680R2										

HEIGHT: 8 FT. TO 11.5 FT.

TYPE OF TUBE	kg.	9	18	27	36	45	55	64	73	82	91	100	109	118	127	136	145	155	164	173	
	lb.	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	
OCTA. 60 Round 70			510R2	520R2	530R2	540R2	550R2	660R2			680R2										
OCTA. 70 Round 75			510R2	520R2	530R2	540R2	550R2	660R2			680R2										
ROUND 3.5" (89)			510R2	520R2	530R2	540R2	550R2	660R2			680R2										