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# tubular motors for awnings

Cherubini offers you this practical guide in order to help you choose the right model of motor for the installation of your awning.

In order to make the right choice, it is necessary to know some characteristics of the awning to be motorized:

- WIND-UP ROLLER DIAMETER  
A larger wind-up diameter requires a higher motor torque
- AWNING WIDTH  
Wind-up roller length
- NUMBER OF ARMS  
The arms are components which strengthen the awning
- AWNING PROJECTION  
Lengthening of the awning arms: a larger projection requires a higher motor torque

Having determined the above data, we have to look for the torque of the required motor in the selection tables.

## Example:

- Wind-up roller diameter: 70 mm
- Number of arms: 2
- Awning projection: 2 m
- Awning width: 6 m

		NUMBER OF ARMS					
		2	2	2	4	6	
AWNING WIDTH (up to)		3,6 m	4,8 m	6 m	12 m	15 m	
Ø63 Ø70 Ø78	AWNING PROJECTION	1,5 m	25 Nm	25 Nm	32 Nm	40 Nm	85 Nm
		2 m	25 Nm	25 Nm	32 Nm	50 Nm	85 Nm
		2,5 m	32 Nm	32 Nm	40 Nm	65 Nm	85 Nm
		3 m	32 Nm	32 Nm	50 Nm	85 Nm	100 Nm
		3,5 m			65 Nm	85 Nm	120 Nm
		4 m			85 Nm	100 Nm	120 Nm

Tables are purely indicative, as variations can occur according to the installation conditions. Contact our technical service for more detailed information.

# Which motor meets my requirements?

## selection tables

awnings

		NUMBER OF ARMS					
		2	2	2	4	6	
AWNING WIDTH (up to)		3,6 m	4,8 m	6 m	12 m	15 m	
Ø63 Ø70 Ø78	AWNING PROJECTION	1,5 m	25 Nm	25 Nm	32 Nm	40 Nm	85 Nm
		2 m	25 Nm	25 Nm	32 Nm	50 Nm	85 Nm
		2,5 m	32 Nm	32 Nm	40 Nm	65 Nm	85 Nm
		3 m	32 Nm	32 Nm	50 Nm	85 Nm	100 Nm
		3,5 m			65 Nm	85 Nm	120 Nm
		4 m			85 Nm	100 Nm	120 Nm

		NUMBER OF ARMS					
		2	2	2	4	6	
AWNING WIDTH (up to)		3,6 m	4,8 m	6 m	12 m	15 m	
Ø85	AWNING PROJECTION	1,5 m	32 Nm	32 Nm	32 Nm	65 Nm	100 Nm
		2 m	32 Nm	32 Nm	40 Nm	85 Nm	100 Nm
		2,5 m	40 Nm	40 Nm	50 Nm	85 Nm	100 Nm
		3 m	40 Nm	40 Nm	65 Nm	100 Nm	120 Nm
		3,5 m			85 Nm	120 Nm	120 Nm
		4 m			85 Nm	120 Nm	120 Nm

Tables are purely indicative, as variations can occur according to the installation conditions. Contact our technical service for more detailed information.



# tubular motors for rolling shutters

Cherubini offers you this practical guide in order to help you choose the right model of motor for the installation. In order to make the right choice, it is necessary to know some characteristics of the rolling shutter to be motorized:

## - ROLLING SHUTTER WEIGHT

The total weight of the rolling shutter is calculated after determining its surface and the weight of the material used per square meter.

$$\text{MATERIAL WEIGHT} \times \text{SURFACE} = \text{ROLLING SHUTTER WEIGHT}$$

## - WIND-UP ROLLER DIAMETER

A larger wind-up roller diameter requires a higher motor torque

## - PROFILE THICKNESS

The profile thickness is of basic importance for the determination of the wind-up diameter generated on the roller.

A larger wind-up roller diameter requires a higher motor torque

Having determined the above data, we have to look for the torque of the required motor in the selection tables.

## Example:

- Rolling shutter material: aluminium profile 3Kg/m<sup>2</sup>
- Rolling shutter height: 2 m
- Rolling shutter width: 1,5 m
- Wind-up roller: 60 mm

## ROLLING SHUTTER SURFACE

$$2 \text{ m} \times 1,5 \text{ m} = 3 \text{ m}^2$$

## ROLLING SHUTTER WEIGHT

$$3 \text{ kg/m}^2 \times 3 \text{ m}^2 = 9 \text{ kg}$$

## Series Ø45

Ø ROLLER		6 Nm	10 Nm	15 Nm	25 Nm	32 Nm*	40 Nm	50 Nm
Ø50/55	Without safety stops	13 kg	21 kg	33 kg	46 kg			
	With safety stops	11 kg	18 kg	29 kg	41 kg			
Ø60/65	Without safety stops	12 kg	19 kg	28 kg	42 kg	54 kg	68 kg	85 kg
	With safety stops	10 kg	15 kg	23 kg	36 kg	47 kg	58 kg	73 kg
Ø70/80	Without safety stops	10 kg	15 kg	22 kg	36 kg	47 kg	58 kg	73 kg
	With safety stops	7 kg	11 kg	17 kg	31 kg	38 kg	48 kg	59 kg

The friction safety coefficient has been taken into consideration in the tables. Tables are purely indicative, as variations can occur according to the installation conditions. Contact our technical service for more detailed information.

\* Blue Roll: 30 Nm

# Which motor meets my requirements?

## selection tables

### rolling shutters

## Series Ø35

PROFILE THICKNESS up to 10 mm - Without safety stops

ROLLING SHUTTER MAXIMUM HEIGHT 2500 mm			
Ø ROLLER	3 Nm	5 Nm	9 Nm
Ø40	8 kg	13 kg	24 kg
Ø45	7 kg	12 kg	21 kg
Ø50	6 kg	10 kg	19 kg

ROLLING SHUTTER MAXIMUM HEIGHT 3500 mm			
Ø ROLLER	3 Nm	5 Nm	9 Nm
Ø40	7 kg	11 kg	20 kg
Ø45	6 kg	11 kg	18 kg
Ø50	5 kg	9 kg	17 kg

## Series Ø45

PROFILE THICKNESS up to 10 mm

ROLLING SHUTTER MAXIMUM HEIGHT 2500 mm								
Ø ROLLER		6 Nm	10 Nm	15 Nm	25 Nm	32 Nm*	40 Nm	50 Nm
Ø50	Without safety stops	15 kg	25 kg	40 kg	55 kg			
	With safety stops	13 kg	21 kg	35 kg	49 kg			
Ø60	Without safety stops	14 kg	23 kg	33 kg	50 kg	65 kg	81 kg	102 kg
	With safety stops	11 kg	18 kg	27 kg	43 kg	56 kg	70 kg	87 kg
Ø70	Without safety stops	11 kg	18 kg	26 kg	43 kg	56 kg	70 kg	87 kg
	With safety stops	8 kg	13 kg	20 kg	37 kg	46 kg	58 kg	71 kg

ROLLING SHUTTER MAXIMUM HEIGHT 3500 mm								
Ø ROLLER		6 Nm	10 Nm	15 Nm	25 Nm	32 Nm*	40 Nm	50 Nm
Ø50	Without safety stops	13 kg	21 kg	33 kg	46 kg			
	With safety stops	11 kg	18 kg	29 kg	41 kg			
Ø60	Without safety stops	12 kg	19 kg	28 kg	42 kg	54 kg	68 kg	85 kg
	With safety stops	10 kg	15 kg	23 kg	36 kg	47 kg	58 kg	73 kg
Ø70/80	Without safety stops	10 kg	15 kg	22 kg	36 kg	47 kg	58 kg	73 kg
	With safety stops	7 kg	11 kg	17 kg	31 kg	38 kg	48 kg	59 kg

\* Blue Roll: 30 Nm



# tubular motors for rolling shutters

selection tables

rolling shutters

## Series Ø45

PROFILE THICKNESS from 11 to 15 mm

ROLLING SHUTTER MAXIMUM HEIGHT <b>2500 mm</b>								
Ø ROLLER		6 Nm	10 Nm	15 Nm	25 Nm	32Nm*	40 Nm	50 Nm
Ø50	Without safety stops	13 kg	21 kg	32 kg	48 kg			
	With safety stops	10 kg	17 kg	27 kg	42 kg			
Ø60	Without safety stops	11 kg	18 kg	27 kg	44 kg	57 kg	71 kg	88 kg
	With safety stops	8 kg	14 kg	23 kg	38 kg	47 kg	61 kg	75 kg
Ø70/80	Without safety stops	10 kg	15 kg	23 kg	38 kg	48 kg	61 kg	75 kg
	With safety stops	7 kg	11 kg	18 kg	31 kg	38 kg	51 kg	60 kg

ROLLING SHUTTER MAXIMUM HEIGHT <b>3500 mm</b>								
Ø ROLLER		6 Nm	10 Nm	15 Nm	25 Nm	32Nm*	40 Nm	50 Nm
Ø50	Without safety stops	11 kg	18 kg	27 kg	40 kg			
	With safety stops	8 kg	14 kg	23 kg	35 kg			
Ø60	Without safety stops	10 kg	15 kg	23 kg	37 kg	48 kg	59 kg	73 kg
	With safety stops	7 kg	12 kg	19 kg	32 kg	39 kg	51 kg	63 kg
Ø70/80	Without safety stops	8 kg	13 kg	19 kg	32 kg	40 kg	50 kg	63 kg
	With safety stops	6 kg	9 kg	15 kg	26 kg	32 kg	43 kg	50 kg

\* Blue Roll: 30 Nm

The friction safety coefficient has been taken into consideration in the tables. Tables are purely indicative, as variations can occur according to the installation conditions. Contact our technical service for more detailed information.

# Which motor meets my requirements?

selection tables

rolling shutters

## Series Ø58

ROLLING SHUTTER MAXIMUM HEIGHT <b>2500 mm</b>				
Ø ROLLER	65 Nm	85 Nm	100 Nm	120 Nm
Ø70	100 kg	125 kg	145 kg	170 kg
Ø90	85 kg	105 kg	125 kg	155 kg
Ø102	75 kg	95 kg	115 kg	130 kg
Ø133	50 kg	70 kg	80 kg	100 kg

ROLLING SHUTTER MAXIMUM HEIGHT <b>3500 mm</b>				
Ø ROLLER	65 Nm	85 Nm	100 Nm	120 Nm
Ø70	85 kg	104 kg	121 kg	142 kg
Ø90	70 kg	88 kg	104 kg	129 kg
Ø102	65 kg	79 kg	96 kg	108 kg
Ø133	45 kg	58 kg	67 kg	83 kg

The friction safety coefficient has been taken into consideration in the tables. Tables are purely indicative, as variations can occur according to the installation conditions. Contact our technical service for more detailed information.

# tubular motors for screens and mosquito nets

Cherubini offers you this practical guide in order to help you choose the right model of motor for the installation.

In order to make the right choice, it is necessary to know some characteristics of the system to be motorized:

- WIND-UP ROLLER DIAMETER  
A larger wind-up diameter requires a higher motor torque
- FABRIC WEIGHT PER SQUARE METER
- SURFACE (width and height)
- BOTTOM RAIL WEIGHT

Having determined the above data, we have to look for the torque of the required motor in the selection tables.

## Example:

- Fabric = 0,5 kg/m<sup>2</sup>
- Height = 5 m
- Width = 4 m
- Bottom rail weight = 4 kg
- Wind-up roller diameter = 78 mm

$$\text{SURFACE} = \text{WIDTH} \times \text{HEIGHT} = 4 \times 5 = 20 \text{ m}^2$$

$$\text{SYSTEM WEIGHT} = \text{SURFACE} \times \text{FABRIC WEIGHT} = 20 \text{ m}^2 \times 0,5 \text{ kg/m}^2 = 10 \text{ kg}$$

$$\text{TOTAL WEIGHT} = \text{SYSTEM WEIGHT} + \text{BOTTOM RAIL WEIGHT} = 10 + 4 \text{ kg} = 14 \text{ kg}$$

## Series Ø45

	6 Nm	7 Nm	10 Nm	15 Nm	25 Nm
Ø ROLLER	17 rpm	30 rpm	17 rpm	17/30 rpm	17 rpm
Ø50	18 kg	18 kg	30 kg	45 kg	65 kg
Ø60	15 kg	15 kg	24 kg	40 kg	57 kg
Ø70	-	-	21 kg	33 kg	51 kg
Ø78	-	-	17 kg	27 kg	45 kg

Tables are purely indicative, as variations can occur according to the installation conditions. Contact our technical service for more detailed information.

# Which motor meets my requirements?

## selection tables screens & mosquito nets

### Series Ø35

	3 Nm	5 Nm	9 Nm
Ø ROLLER	30 rpm	30/21 rpm	16 rpm
Ø40	11 kg	15 kg	28 kg
Ø50	7 kg	12 kg	23 kg
Ø60	-	9 kg	18 kg

### Series Ø45

	6 Nm	7 Nm	10 Nm	15 Nm	25 Nm
Ø ROLLER	17 rpm	30 rpm	17 rpm	17/30 rpm	17 rpm
Ø50	18 kg	18 kg	30 kg	45 kg	65 kg
Ø60	15 kg	15 kg	24 kg	40 kg	57 kg
Ø70	-	-	21 kg	33 kg	51 kg
Ø78	-	-	17 kg	27 kg	45 kg

The friction safety coefficient has been taken into consideration in the tables. Tables are purely indicative, as variations can occur according to the installation conditions. Contact our technical service for more detailed information.