



SELECTION TABLES



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"A transparent and direct relationship with our customers is what matters the most to us. Knowing their needs helps us guide and advise them in finding the most appropriate product to meet their requirements."
Marco Podavini,
Technical Service

TUBULAR MOTORS FOR AWNINGS



TUBULAR MOTORS FOR AWNINGS Which motor meets my requirements?

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 PROJECTION | | AWNING WIDTH (up to) | | | | |
| | | 3,6 m | 4,8 m | 6 m | 12 m | 15 m |
| Ø63 Ø70 Ø78 | 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.

SELECTION TABLES

| | | NUMBER OF ARMS | | | | |
|-------------------|-------|----------------------|-------|-------|--------|--------|
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| AWNING PROJECTION | | AWNING WIDTH (up to) | | | | |
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| | 4 m | | | 85 Nm | 100 Nm | 120 Nm |

| | | NUMBER OF ARMS | | | | |
|-------------------|-------|----------------------|-------|-------|--------|--------|
| | | 2 | 2 | 2 | 4 | 6 |
| AWNING PROJECTION | | AWNING WIDTH (up to) | | | | |
| | | 3,6 m | 4,8 m | 6 m | 12 m | 15 m |
| Ø85 | 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 roller shutter to be motorized:

- ROLLER SHUTTER WEIGHT

The total weight of the roller 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:

- Roller shutter material: aluminium profile 3Kg/m²
- 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 hard hangers | 13 kg | 21 kg | 33 kg | 46 kg | | | |
| | With hard hangers | 11 kg | 18 kg | 29 kg | 41 kg | | | |
| Ø60/65 | Without hard hangers | 12 kg | 19 kg | 28 kg | 42 kg | 54 kg | 68 kg | 85 kg |
| | With hard hangers | 10 kg | 15 kg | 23 kg | 36 kg | 47 kg | 58 kg | 73 kg |
| Ø70/80 | Without hard hangers | 10 kg | 15 kg | 22 kg | 36 kg | 47 kg | 58 kg | 73 kg |
| | With hard hangers | 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.

* Roll: 30 Nm

TUBULAR MOTORS FOR ROLLING SHUTTERS

Which motor meets my requirements?

SELECTION TABLES

SERIES Ø35

PROFILE THICKNESS up to 10 mm - Without hard hangers

| 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 hard hangers | 15 kg | 25 kg | 40 kg | 55 kg | | | |
| | With hard hangers | 13 kg | 21 kg | 35 kg | 49 kg | | | |
| Ø60 | Without hard hangers | 14 kg | 23 kg | 33 kg | 50 kg | 65 kg | 81 kg | 102 kg |
| | With hard hangers | 11 kg | 18 kg | 27 kg | 43 kg | 56 kg | 70 kg | 87 kg |
| Ø70 | Without hard hangers | 11 kg | 18 kg | 26 kg | 43 kg | 56 kg | 70 kg | 87 kg |
| | With hard hangers | 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 hard hangers | 13 kg | 21 kg | 33 kg | 46 kg | | | |
| | With hard hangers | 11 kg | 18 kg | 29 kg | 41 kg | | | |
| Ø60 | Without hard hangers | 12 kg | 19 kg | 28 kg | 42 kg | 54 kg | 68 kg | 85 kg |
| | With hard hangers | 10 kg | 15 kg | 23 kg | 36 kg | 47 kg | 58 kg | 73 kg |
| Ø70/80 | Without hard hangers | 10 kg | 15 kg | 22 kg | 36 kg | 47 kg | 58 kg | 73 kg |
| | With hard hangers | 7 kg | 11 kg | 17 kg | 31 kg | 38 kg | 48 kg | 59 kg |

* Roll: 30 Nm

TUBULAR MOTORS FOR ROLLING SHUTTERS

SELECTION TABLES

SERIES Ø45
PROFILE THICKNESS from 11 to 15 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 hard hangers | 13 kg | 21 kg | 32 kg | 48 kg | | | |
| | With hard hangers | 10 kg | 17 kg | 27 kg | 42 kg | | | |
| Ø60 | Without hard hangers | 11 kg | 18 kg | 27 kg | 44 kg | 57 kg | 71 kg | 88 kg |
| | With hard hangers | 8 kg | 14 kg | 23 kg | 38 kg | 47 kg | 61 kg | 75 kg |
| Ø70/80 | Without hard hangers | 10 kg | 15 kg | 23 kg | 38 kg | 48 kg | 61 kg | 75 kg |
| | With hard hangers | 7 kg | 11 kg | 18 kg | 31 kg | 38 kg | 51 kg | 60 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 hard hangers | 11 kg | 18 kg | 27 kg | 40 kg | | | |
| | With hard hangers | 8 kg | 14 kg | 23 kg | 35 kg | | | |
| Ø60 | Without hard hangers | 10 kg | 15 kg | 23 kg | 37 kg | 48 kg | 59 kg | 73 kg |
| | With hard hangers | 7 kg | 12 kg | 19 kg | 32 kg | 39 kg | 51 kg | 63 kg |
| Ø70/80 | Without hard hangers | 8 kg | 13 kg | 19 kg | 32 kg | 40 kg | 50 kg | 63 kg |
| | With hard hangers | 6 kg | 9 kg | 15 kg | 26 kg | 32 kg | 43 kg | 50 kg |

* 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.

TUBULAR MOTORS FOR ROLLING SHUTTERS

Which motor meets my requirements?

SERIES Ø58

| ROLLING SHUTTER MAXIMUM HEIGHT 2500 mm | | | | |
|--|--------|--------|--------|--------|
| 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 3500 mm | | | | |
|--|-------|--------|--------|--------|
| 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 |

SELECTION TABLES FOR OCEAN EASY PLUG & PLAY MOTOR

SERIES Ø45
PROFILE THICKNESS up to 10 mm - With hard hangers

| ROLLING SHUTTER MAXIMUM HEIGHT 1500 mm | | |
|--|-------|-------|
| Ø ROLLER | 10 Nm | 20 Nm |
| Ø50 | 24 kg | 45 kg |
| Ø60 | 20 kg | 40 kg |
| Ø70 | 15 kg | 31 kg |

| ROLLING SHUTTER MAXIMUM HEIGHT 2500 mm | | |
|--|-------|-------|
| Ø ROLLER | 10 Nm | 20 Nm |
| Ø50 | 21 kg | 40 kg |
| Ø60 | 18 kg | 35 kg |
| Ø70 | 13 kg | 27 kg |

SERIES Ø45
PROFILE THICKNESS from 11 to 15 mm - With hard hangers

| ROLLING SHUTTER MAXIMUM HEIGHT 1500 mm | | |
|--|-------|-------|
| Ø ROLLER | 10 Nm | 20 Nm |
| Ø50 | 19 kg | 39 kg |
| Ø60 | 16 kg | 33 kg |
| Ø70 | 13 kg | 26 kg |

| ROLLING SHUTTER MAXIMUM HEIGHT 2500 mm | | |
|--|-------|-------|
| Ø ROLLER | 10 Nm | 20 Nm |
| Ø50 | 17 kg | 34 kg |
| Ø60 | 14 kg | 29 kg |
| Ø70 | 11 kg | 23 kg |

TUBULAR MOTORS FOR SCREENS AND MOSQUITO NETS



TUBULAR MOTORS FOR SCREENS AND MOSQUITO NETS

Which motor meets my requirements?

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/m²
- Height = 5 m
- Width = 4 m
- Bottom rail weight = 4 kg
- Wind-up roller diameter = 78 mm

SURFACE = WIDTH x HEIGHT = 4x5 = 20 m²

SYSTEM WEIGHT = SURFACE x FABRIC WEIGHT = 20 m² x 0,5 kg/m² = 10 kg

TOTAL WEIGHT = SYSTEM WEIGHT + BOTTOM RAIL WEIGHT = 10 + 4 kg = 14 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.

SELECTION TABLES

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.