

Recommended Lifting Weight Capacity Chart

The lifting capacity of all motors is based on **Newton's Law of Motion**. In summary, Newton's Law of Motion states that Torque (Nm) equals the Radius of the Motor Tube times the Weight being lifted. The theoretical lifting capacity is reduced by several factors, such as material dimensions (height and thickness of slats), friction of material in the track, length and height of the curtain, installation techniques and accessories (end retention slat locks).

The lifting capacity chart below is based on Newton's Law of Motion and includes a **25% reduction** of the theoretical capacity to compensate for the factors described above. This chart is provided as an **indicator** of the amount of weight each motor can lift. The actual capacity depends on the amount the external factors deviate from the theoretical environment.

Also included below is a lifting capacity chart which includes a 30% safety factor. This shows the effect when external factors are greater than the assumption of 25%.

| Lifting Capacity 25% Safety Factor | | | | | | |
|---|------------------------|---------|---------|---------|---------|---------|
| Roll Bar Diameter (mm) | Motor Size (Nm) | | | | | |
| | 6 | 13 | 50 | 100 | 140 | 300 |
| 40 | 50 lbs | 107 lbs | | | | |
| 50 | 40 lbs | 86 lbs | | | | |
| 60 | | | 276 lbs | | | |
| 70 | | | 236 lbs | 472 lbs | | |
| 78 | | | 212 lbs | 424 lbs | | |
| 100 | | | | 331 lbs | 463 lbs | 992 lbs |

| Lifting Capacity 30% Safety Factor | | | | | | |
|---|------------------------|---------|---------|---------|---------|---------|
| Roll Bar Diameter (mm) | Motor Size (Nm) | | | | | |
| | 6 | 13 | 50 | 100 | 140 | 300 |
| 40 | 46 lbs | 100 lbs | | | | |
| 50 | 37 lbs | 80 lbs | | | | |
| 60 | | | 257 lbs | | | |
| 70 | | | 220 lbs | 441 lbs | | |
| 78 | | | 198 lbs | 396 lbs | | |
| 100 | | | | 309 lbs | 432 lbs | 926 lbs |

LT Motors



UL Approval

5 Year Warranty

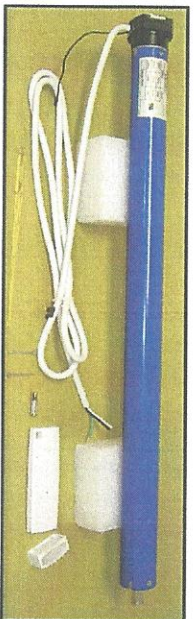
Wide Assortment of

Motors:

- Standard
- Manual Override
- Radio Controlled
- Radio Controlled & Manual Override
- Crown & Drives
- Mounting Brackets
- Wall Brackets

World Class Quality

MOTORS



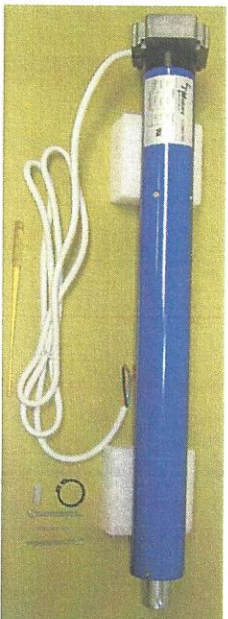
MODEL Nm Description

LT 45S 50 Standard

LT 45M 50 Manual Override

LT 45R 50 Radio

LT 45RM 50 Radio + Manual Override



MODEL Nm Description

LT 59S 100 Standard

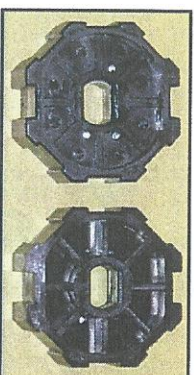
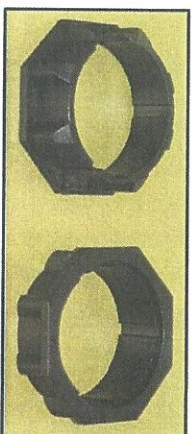
LT 59M 100 Manual Override

LT 59R 100 Radio

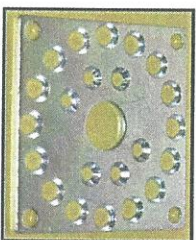
LT 59RM 100 Radio + Manual Override

ACCESSORIES

Crown & Drives



Base & Wall Brackets



Mounting Brackets

