

Motorized Roman Shade

## ATF45-RS



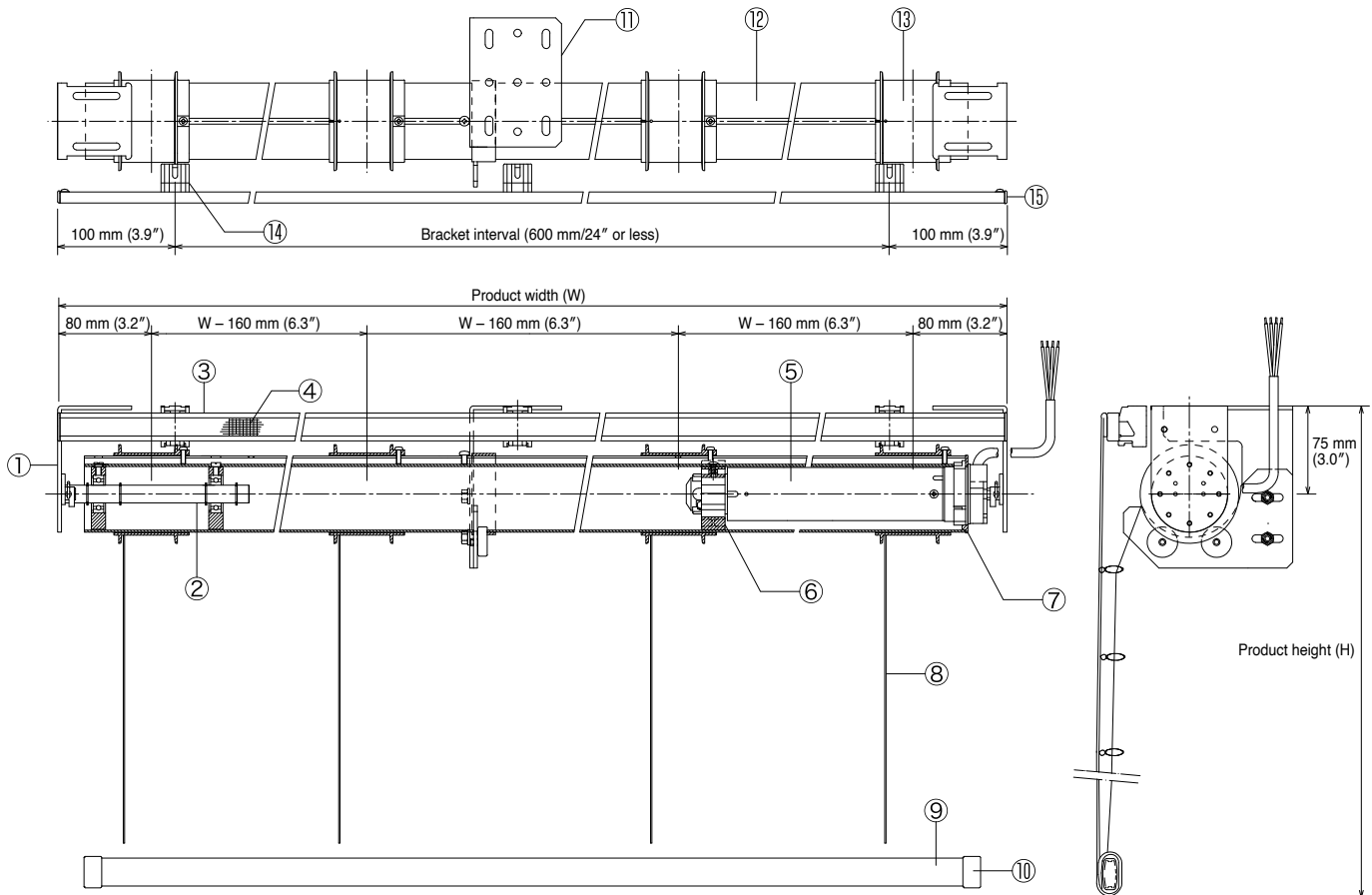
- Perfect fit for large and high windows.
- 4,000 mm (158") wide is possible with Intermediate Bracket.
- Switch operation type and FM remote type are available.

# ATF45-RS

## ATF45-RS's Unique Features

- Quiet operation less than 40 dB.
- Fit for a large or high window: up to 4 m (158") in width or 4 m (158") in height.
- Switch operation type and FM remote type (built-in FM Receiver) are available.

## Structure Drawing



## Components and Materials

| No. | Components                    | Material              |
|-----|-------------------------------|-----------------------|
| ①   | ATF45 Side Bracket            | Steel                 |
| ②   | ATF45-N Pipe End N            | Steel + Zinc die-cast |
| ③   | Freel Head Rail               | Aluminum              |
| ④   | RS Slide-in Velcro            | Polypropylene         |
| ⑤   | ATF45-04Q/04QRF Tubular Motor | —                     |
| ⑥   | ATF45-03 Drive                | Polyacetal resin      |
| ⑦   | ATF45-S Limit Crown           | Polyacetal resin      |
| ⑧   | Lift Cord $\phi$ 1.2          | Polyester fiber       |

| No. | Components                    | Material                 |
|-----|-------------------------------|--------------------------|
| ⑨   | RS Weight Bar 25              | Steel                    |
| ⑩   | RS Weight Bar Cap 25          | Polyethylene resin       |
| ⑪*  | ATF45-RS Intermediate Bracket | Steel + Polyacetal resin |
| ⑫   | ATF45 Roller Pipe $\phi$ 60   | Aluminum                 |
| ⑬   | ATF45-RS Recoiling Pulley     | Polyacetal resin         |
| ⑭   | Freel Bracket                 | Polyacetal resin         |
| ⑮   | Freel Head Cap                | Polyacetal resin         |

\* When the product width is 2,510 mm (99") or more, this is attached.

## Motor Specifications

|                      |     |           |
|----------------------|-----|-----------|
| Power Source Voltage | V   | AC220–230 |
| Frequency            | Hz  | 50 / 60   |
| Current              | A   | 0.485     |
| Power Consumption    | W   | 115       |
| Rated Torque         | Nm  | 4         |
| Rated RPM            | rpm | 23        |
| Rated Running Time   | min | 4         |
| Ambient Temperature  | C   | –10 to 40 |

\*Since this is not synchronized motor, RPM is vary depending on fabric weight.

## Allowable Size

|                  |          |                                         |
|------------------|----------|-----------------------------------------|
| Width            | ATF45Q   | 900–4,000 mm (35–158")                  |
|                  | ATF45QRF | 1,000–4,000 mm (39–158")                |
| Height           |          | 600–4,000 mm (24–158")                  |
| Max Surface Area |          | 16 m <sup>2</sup> (19 yd <sup>2</sup> ) |

## Maximum Screen Weight

8.0 kg (18 lb)  
(1.0 kg/2 lb or less per one Pulley)

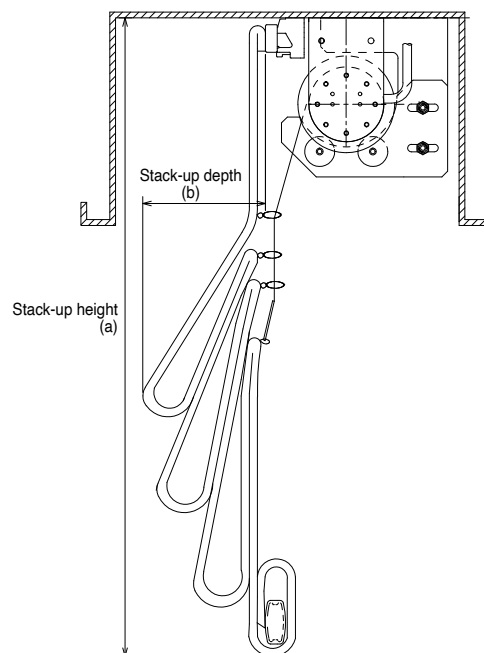
## Product Weight

6.3 kg (14 lb)  
(width: 2,000 mm/79" without screen)

## Recommended Number of Lift Cords

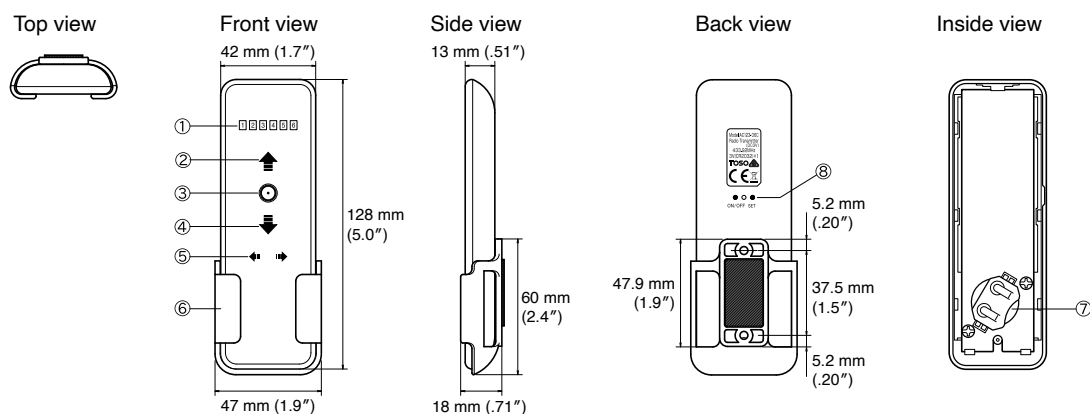
| Product Width            | Number of Lift Cords | Product Width             | Number of Lift Cords |
|--------------------------|----------------------|---------------------------|----------------------|
| 900–1,400 mm (36–55")    | 4                    | 2,910–3,400 mm (115–133") | 8                    |
| 1,410–1,900 mm (56–74")  | 5                    | 3,410–3,900 mm (134–153") | 9                    |
| 1,910–2,400 mm (75–94")  | 6                    | 3,910–4,000 mm (154–158") | 10                   |
| 2,410–2,900 mm (95–114") | 7                    |                           |                      |

## Stack-up Guide



| Style                         | Plain                             |                                   | Plain with Rods                  |                                  | Balloon                          |
|-------------------------------|-----------------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Product Height                | –3,000 mm (118")                  | –4,000 mm (158")                  | –1,500 mm (59")                  | –3,000 mm (118")                 | –4,000 mm (158")                 |
| Recommended Ring Interval     | 200 mm (7.9")                     | 300 mm (11.8")                    | 120 mm (4.7")                    | 150 mm (5.9")                    | 300 mm (11.8")                   |
| Stack-up Height Dimension (a) | 250 mm (9.8")<br>+ H/80 mm (3.2") | 333 mm (13")<br>+ H/120 mm (4.7") | 270 mm (11")<br>+ H/24 mm (.94") | 300 mm (12")<br>+ H/30 mm (1.2") | 480 mm (19")<br>+ H/60 mm (2.4") |
| Stack-up Depth Dimension (b)  | 80 mm (3.2")                      |                                   | 100 mm (3.9")                    |                                  | 200 mm (7.9")                    |

## FM Remote-Control Transmitter



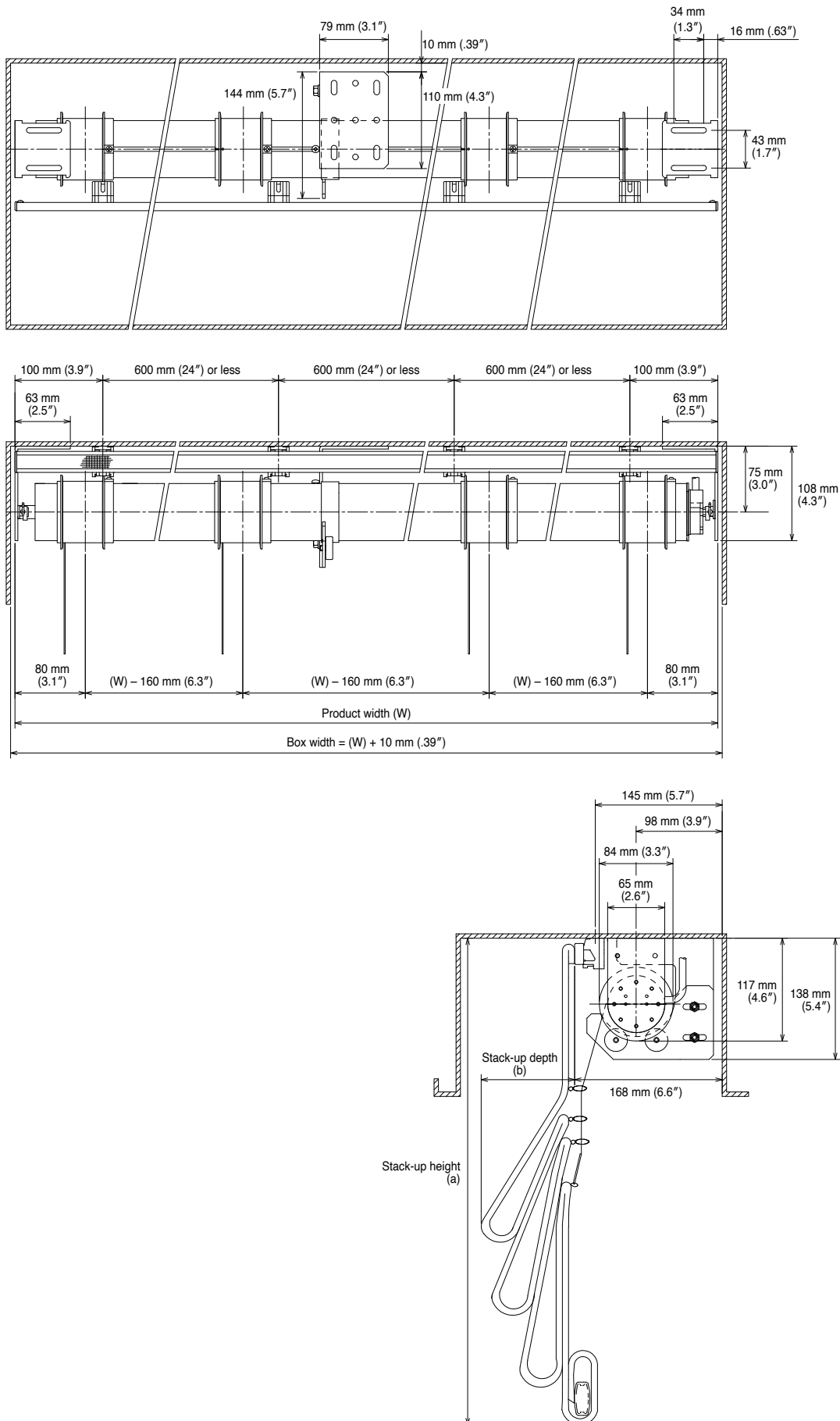
### Parts Name

|   |                                |
|---|--------------------------------|
| ① | Address No. LED Indicator Lamp |
| ② | Open Button                    |
| ③ | Stop Button                    |
| ④ | Close Button                   |
| ⑤ | Address No. Setting Button     |
| ⑥ | Holder                         |
| ⑦ | Lithium Battery (CR2032)       |
| ⑧ | ON/OFF Button                  |

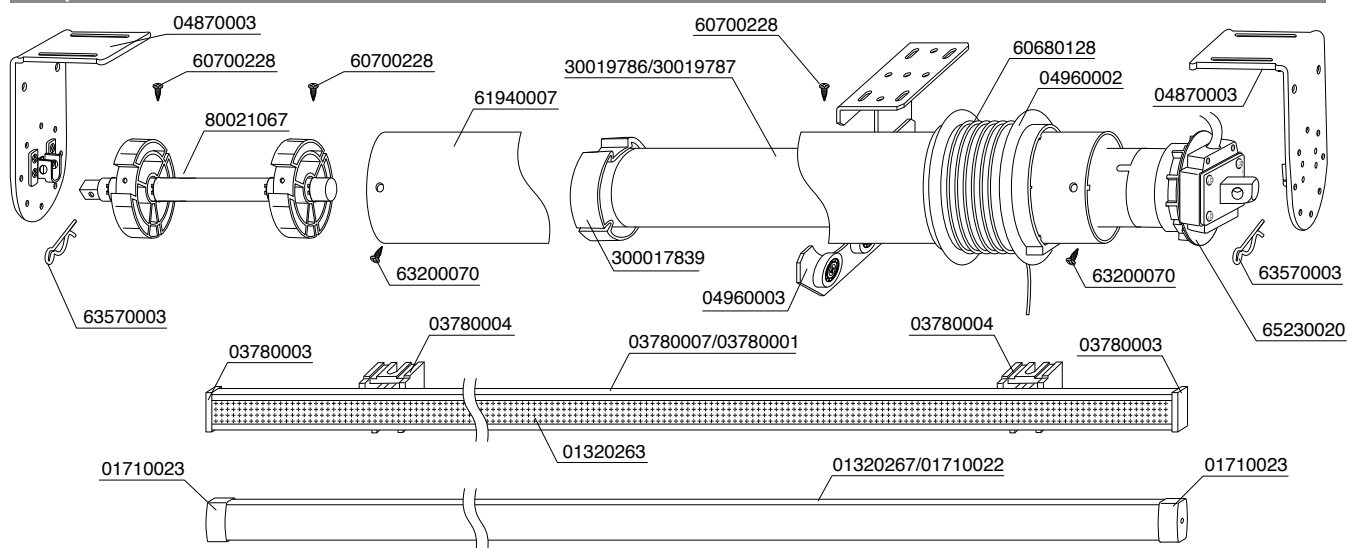
### Specification

|                     |                                          |
|---------------------|------------------------------------------|
| Source Voltage      | DC 3V (CR2032 × 1)                       |
| Source Current      | 20 mA or lower                           |
| Wave Frequency      | 433.92 MHz                               |
| Number of Channel   | 1 to 6 (ALL for 6 CH)                    |
| Ambient Temperature | –10 to 50°C (Non-condensing)             |
| Reaching Distance   | 30 m (varies depending on the condition) |
| Product Size        | W 42 mm × H 128 mm × D 13 mm             |
| Product Weight      | Approx. 58 g                             |

## Overall Structure Drawing



## Exploded View



## Parts and Components

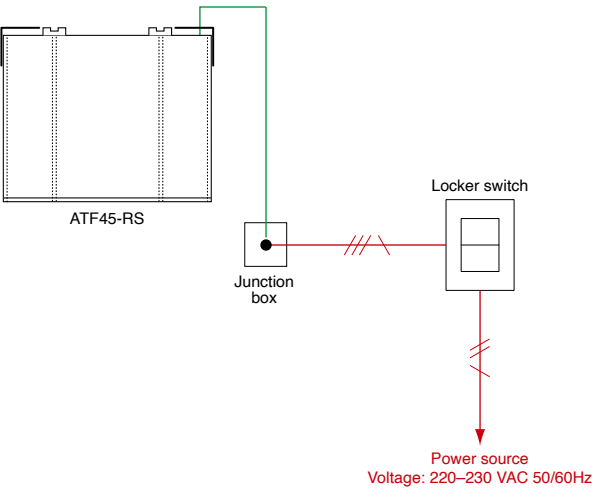
| Item No.          | Product Name                                  | Product Width                                                           |                              |                              |                              |
|-------------------|-----------------------------------------------|-------------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|
|                   |                                               | 900–1,400 mm<br>(35–55")                                                | 1,410–1,900 mm<br>(56–74")   | 1,910–2,400 mm<br>(75–94")   | 2,410–2,900 mm<br>(95–114")  |
| 30019786          | ATF45-04Q (switch operation)                  | 1 pc                                                                    | 1 pc                         | 1 pc                         | 1 pc                         |
| 30019787          | ATF45-04QRF (RF operation)                    |                                                                         |                              |                              |                              |
| 61940007          | ATF45 Roller Pipe $\phi 60$ 4,000 mm (157")   | W–70 mm (2.8") $\times$ 1 pc                                            | W–70 mm (2.8") $\times$ 1 pc | W–70 mm (2.8") $\times$ 1 pc | W–70 mm (2.8") $\times$ 1 pc |
| 65230020          | ATF45-S Limit Crown                           | 1 pc                                                                    | 1 pc                         | 1 pc                         | 1 pc                         |
| 30017839          | ATF45-03 Drive                                | 1 pc                                                                    | 1 pc                         | 1 pc                         | 1 pc                         |
| 80021067          | ATF45-N Pipe End N                            | 1 pc                                                                    | 1 pc                         | 1 pc                         | 1 pc                         |
| 04870003          | ATF45 Side Bracket                            | 2 pcs                                                                   | 2 pcs                        | 2 pcs                        | 2 pcs                        |
| 63570003          | Split Pin                                     | 2 pcs                                                                   | 2 pcs                        | 2 pcs                        | 2 pcs                        |
| 60700228          | Tapping Screw for Plastic $\phi 4.0 \times 8$ | 1 pc                                                                    | 1 pc                         | 1 pc                         | 1 pc                         |
| 63200070          | Tapping Screw TS 3 $\times$ 10                | 2 pcs                                                                   | 2 pcs                        | 2 pcs                        | 2 pcs                        |
| 04960002          | ATF45-RS Recoiling Pulley                     | 4                                                                       | 5                            | 6                            | 7                            |
| 60680128          | Lift Cord $\phi 1.2$                          | 5 m (197") $\times$ 4 pcs                                               | 5 m (197") $\times$ 5 pcs    | 5 m (197") $\times$ 6 pcs    | 5 m (197") $\times$ 7 pcs    |
| 03780007/03780001 | Freel Head Rail                               | W–4 mm (.16") $\times$ 1 pc                                             | W–4 mm (.16") $\times$ 1 pc  | W–4 mm (.16") $\times$ 1 pc  | W–4 mm (.16") $\times$ 1 pc  |
| 01320263          | RS Slide-in Velcro                            | W–4 mm (.16") $\times$ 1 pc                                             | W–4 mm (.16") $\times$ 1 pc  | W–4 mm (.16") $\times$ 1 pc  | W–4 mm (.16") $\times$ 1 pc  |
| 03780003          | Freel Head Cap                                | 2 pcs                                                                   | 2 pcs                        | 2 pcs                        | 2 pcs                        |
| 03780004          | Freel Bracket                                 | $((W - 200 \text{ mm}) / 600 \text{ mm})$ pcs, $((W - 7.9") / 24")$ pcs |                              |                              |                              |
| 04960003          | ATF45-RS Intermediate Bracket                 | –W 2,500 mm (98"): none, W 2,510–4,000 mm (99–158"): 1 pc               |                              |                              |                              |
| 01710023          | RS Weight Bar Cap 25                          | 2 pcs                                                                   | 2 pcs                        | 2 pcs                        | 2 pcs                        |
| 01320267/01710022 | RS Weight Bar 25                              | W–50 mm (2.0") $\times$ 1 pc                                            | W–50 mm (2.0") $\times$ 1 pc | W–50 mm (2.0") $\times$ 1 pc | W–50 mm (2.0") $\times$ 1 pc |

| Item No.          | Product Name                                  | Product Width                                                           |                              |                              |
|-------------------|-----------------------------------------------|-------------------------------------------------------------------------|------------------------------|------------------------------|
|                   |                                               | 2,910–3,400 mm<br>(115–133")                                            | 3,410–3,900 mm<br>(134–153") | 3,910–4,000 mm<br>(154–158") |
| 30019786          | ATF45-04Q (switch operation)                  | 1 pc                                                                    | 1 pc                         | 1 pc                         |
| 30019787          | ATF45-04QRF (RF operation)                    |                                                                         |                              |                              |
| 61940007          | ATF45 Roller Pipe $\phi 60$ 4,000 mm (157")   | W–70 mm (2.8") $\times$ 1 pc                                            | W–70 mm (2.8") $\times$ 1 pc | W–70 mm (2.8") $\times$ 1 pc |
| 65230020          | ATF45-S Limit Crown                           | 1 pc                                                                    | 1 pc                         | 1 pc                         |
| 30017839          | ATF45-03 Drive                                | 1 pc                                                                    | 1 pc                         | 1 pc                         |
| 80021067          | ATF45-N Pipe End N                            | 1 pc                                                                    | 1 pc                         | 1 pc                         |
| 04870003          | ATF45 Side Bracket                            | 2 pcs                                                                   | 2 pcs                        | 2 pcs                        |
| 63570003          | Split Pin                                     | 2 pcs                                                                   | 2 pcs                        | 2 pcs                        |
| 60700228          | Tapping Screw for Plastic $\phi 4.0 \times 8$ | 1 pc                                                                    | 1 pc                         | 1 pc                         |
| 63200070          | Tapping Screw TS 3 $\times$ 10                | 2 pcs                                                                   | 2 pcs                        | 2 pcs                        |
| 04960002          | ATF45-RS Recoiling Pulley                     | 8                                                                       | 9                            | 10                           |
| 60680128          | Lift Cord $\phi 1.2$                          | 5 m (197") $\times$ 8 pcs                                               | 5 m (197") $\times$ 9 pcs    | 5 m (197") $\times$ 10 pcs   |
| 03780007/03780001 | Freel Head Rail                               | W–4 mm (.16") $\times$ 1 pc                                             | W–4 mm (.16") $\times$ 1 pc  | W–4 mm (.16") $\times$ 1 pc  |
| 01320263          | RS Slide-in Velcro                            | W–4 mm (.16") $\times$ 1 pc                                             | W–4 mm (.16") $\times$ 1 pc  | W–4 mm (.16") $\times$ 1 pc  |
| 03780003          | Freel Head Cap                                | 2 pcs                                                                   | 2 pcs                        | 2 pcs                        |
| 03780004          | Freel Bracket                                 | $((W - 200 \text{ mm}) / 600 \text{ mm})$ pcs, $((W - 7.9") / 24")$ pcs |                              |                              |
| 04960003          | ATF45-RS Intermediate Bracket                 | –W 2,500 mm (98"): none, W 2,510–4,000 mm (99–158"): 1 pc               |                              |                              |
| 01710023          | RS Weight Bar Cap 25                          | 2 pcs                                                                   | 2 pcs                        | 2 pcs                        |
| 01320267/01710022 | RS Weight Bar 25                              | W–50 mm (2.0") $\times$ 1 pc                                            | W–50 mm (2.0") $\times$ 1 pc | W–50 mm (2.0") $\times$ 1 pc |

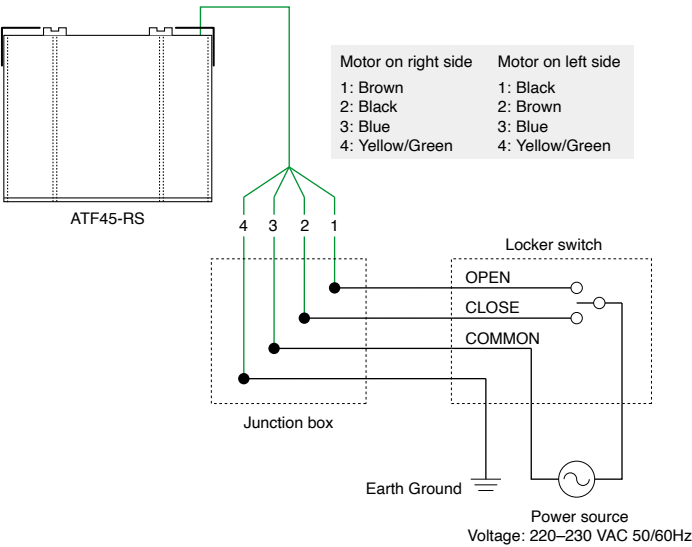
Basic Wiring and Connecting Diagram

Single Operation (ATF45-04Q)

Basic Wiring Diagram

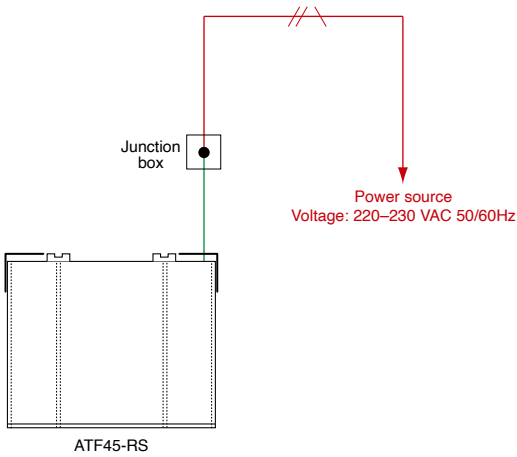


Basic Connecting Diagram

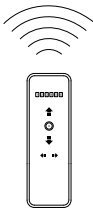
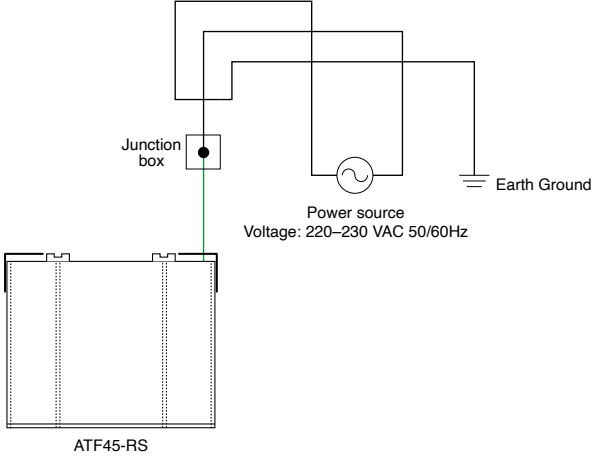


FM Remote-Control Built-in Receiver (ATF45-04QRF)

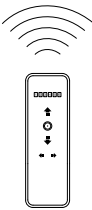
Basic Wiring Diagram



Basic Connecting Diagram



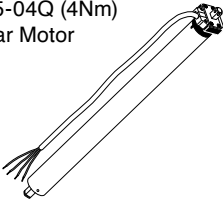
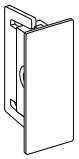
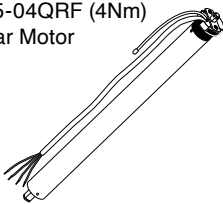
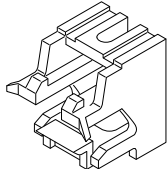
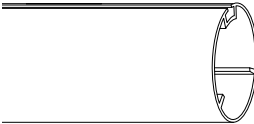
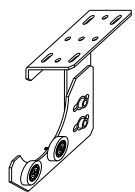
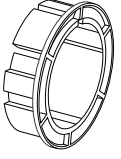
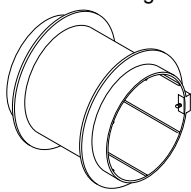
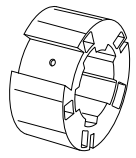
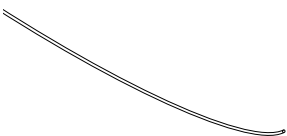
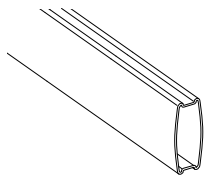
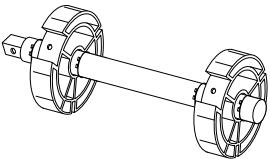
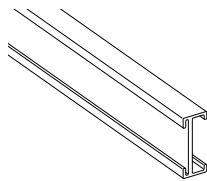
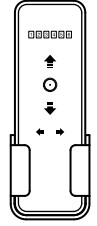
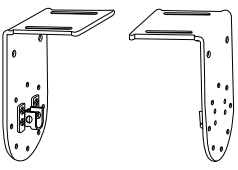
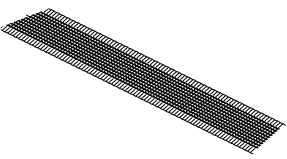
FM Remote-Control Transmitter



FM Remote-Control Transmitter

Explanatory notes: — Power supply, — Main body attachment or TOSO standard

## ATF45-RS Parts

| Product Name                                                                                                                 | Product Code | Product Name                                                                                                                          | Product Code         | Product Name                                                                                                                              | Product Code                                 |
|------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| ATF45-04Q (4Nm)<br>Tubular Motor<br>        | 30019786     | Split Pin<br>                                        | 63570003             | Freel Head Cap<br>                                     | 03780003                                     |
| ATF45-04QRF (4Nm)<br>Tubular Motor<br>      | 30019787     | Tapping Screw for Plastic<br>$\phi 4.0 \times 8$<br> | 60700228             | Freel Bracket<br>                                      | 03780004                                     |
| ATF45 Roller Pipe $\phi 60$<br>4,000 mm<br> | 61940007     | Tapping Screw TS $3 \times 10$<br>                   | 63200070             | ATF45-RS<br>Intermediate<br>Bracket<br>                | 04960003                                     |
| ATF45-S Limit Crown<br>                   | 65230020     | ATF45-RS Recoiling Pulley<br>                      | 04960002             | RS Weight Bar Cap 25<br>                             | 01710023                                     |
| ATF45-03 Drive (Adapter)<br>              | 30017839     | Lift Cord $\phi 1.2$<br>                           | 60680128             | RS Weight Bar 25<br>                                 | 3,000 mm<br>01320267<br>4,000 mm<br>01710022 |
| ATF45-N Pipe End N<br>                    | 80021067     | Freel Head Rail<br>                                | 4,000 mm<br>03780001 | FM Remote-Control<br>Transmitter<br>(6 channels)<br> | 30006891                                     |
| ATF45 Side Bracket<br>                    | 04870003     | RS Slide-in Velcro<br>                             | 01320263             |                                                                                                                                           |                                              |

