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Rademacher SLDM 50/12PZ

Rademacher RolloTube S-line DuoFern Medium User Manual

Model: SLDM 50/12PZ

1. INTRODUCTION

The Rademacher RolloTube S-line DuoFern Medium is a self-learning tubular motor designed for roller shutters. It features automatic end-position learning, obstacle detection, and integration into the DuoFern radio network for smart home functionalities. This manual provides essential information for the installation, operation, and maintenance of your RolloTube S-line DuoFern motor.



Figure 1: RolloTube S-line DuoFern Medium in its product packaging.



Figure 2: The RolloTube S-line DuoFern Medium tubular motor.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in injury or damage to the product.

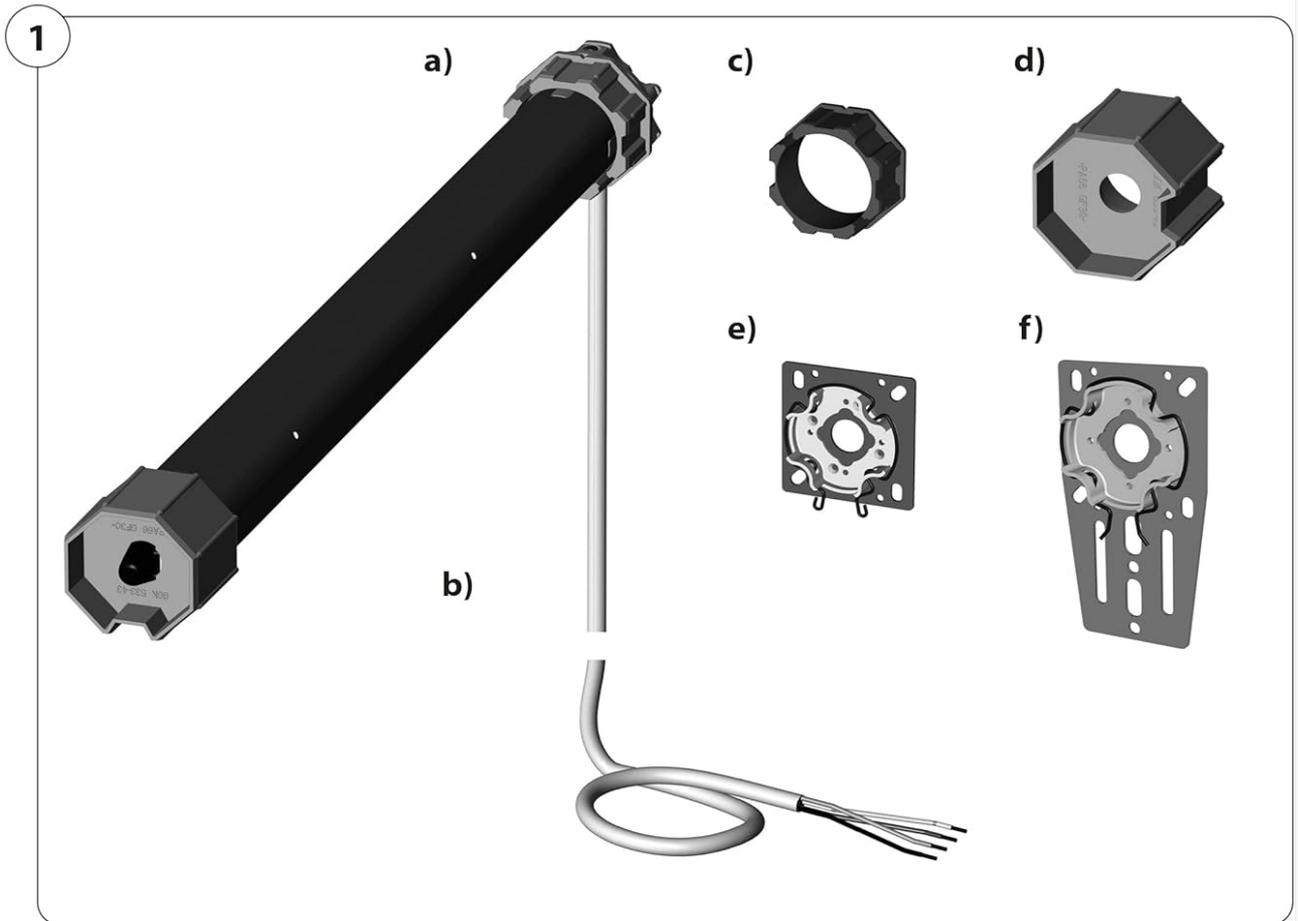
- Installation must be performed by a qualified electrician in accordance with local electrical codes.
- Disconnect power before performing any installation, maintenance, or repair work.

- Ensure the motor is correctly sized for your roller shutter system to prevent overload. Refer to the technical specifications.
- Keep children and pets away from moving roller shutters.
- Do not operate the motor if it is damaged or malfunctioning.
- This product is designed for indoor use in dry conditions unless otherwise specified.

3. WHAT'S IN THE BOX

Verify that all components are present before beginning installation:

- RolloTube S-line DuoFern Medium tubular motor
- Connection cable (2.5 m)
- Adapter
- Driver
- Click-Universal drive bearing
- Click-Finished box bearing



Lieferumfang

RolloTube S-line DuoFern	Small	Medium
(a) Rohrmotor	1 x	1 x
(b) Anschlusskabel (2,5 m)	1 x	1 x
(c) Adapter	1 x	1 x
(d) Mitnehmer	1 x	1 x
(e) Click-Universalantriebslager	1 x	-
(f) Click-Fertigkastenlager	-	1 x

Figure 3: Illustrated overview of the RolloTube S-line DuoFern components. This image details the tubular motor, connection cable, adapter, driver, and various bearing types for installation.

4. SETUP AND INSTALLATION

The RolloTube S-line DuoFern motors are designed for straightforward installation. The self-learning feature simplifies the setup process by automatically determining end positions during the first few operation cycles.

4.1. Pre-installation Checks

- Ensure the roller shutter shaft is clean and free of obstructions.
- Verify that the motor's torque (Nm) is appropriate for the weight and size of your roller shutter. Refer to the selection aids in the Specifications section.
- Confirm that the power supply matches the motor's requirements (120V, 50Hz).

4.2. Mechanical Installation

1. Insert the RolloTube motor into the roller shutter shaft. Ensure a secure fit using the provided adapters and bearings.
2. Mount the shaft securely in its brackets.
3. Attach the roller shutter curtain to the shaft.

4.3. Electrical Connection

1. Ensure the main power supply is disconnected.
2. Connect the motor's cable to the appropriate electrical connections according to local wiring regulations. The motor operates at 120 Volts.
3. Secure all connections and ensure no bare wires are exposed.

4.4. Initial Learning Phase

After power-up, the motor will automatically learn its end positions during the first few full up and down cycles. Manual adjustment of end points is also possible if needed.

5. OPERATING INSTRUCTIONS

The RolloTube S-line DuoFern motor offers various operating modes and features.

5.1. Basic Operation

- **Up/Down Control:** Use a connected switch or remote control to move the roller shutter up or down.
- **Stop Function:** Pressing the control button during movement will stop the roller shutter at its current position.

5.2. Obstacle Detection and Reversal

The motor features block detection in both directions, ensuring high safety and gentle operation for the roller shutter curtain. If an obstacle is detected during downward movement, the motor will reverse to prevent damage. Similarly, if the curtain is blocked during upward movement, the motor will stop.

5.3. DuoFern Smart Home Integration

When integrated into a DuoFern radio network, such as with the Rademacher HomePilot or a hand-held central unit, you can utilize numerous automatic functions.

- **Time-based Control:** Program specific times for opening and closing.
- **Scene Control:** Create custom scenes that involve multiple devices.
- **Sensor Integration:** Respond to environmental sensors (e.g., sun, wind).
- **App Control:** Control your roller shutters via the HomePilot app on your smartphone or tablet.



Figure 4: The HomePilot app interface, demonstrating smart home control capabilities for roller shutters and other devices. The app supports multiple languages including German, English, French, Dutch, Spanish, and Italian.

6. MAINTENANCE

The RolloTube S-line DuoFern motor is designed for long-term, maintenance-free operation. However, regular checks of the roller shutter system are recommended.

- Periodically inspect the roller shutter curtain and guides for any signs of wear or damage.
- Ensure that the roller shutter moves freely and without excessive friction.
- Keep the area around the roller shutter clear of obstructions.
- Do not lubricate the motor or its internal components.

7. TROUBLESHOOTING

If you encounter issues with your RolloTube S-line DuoFern motor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Motor does not respond to commands.	No power supply; remote control battery low; motor not paired.	Check power connection; replace remote battery; re-pair motor with control unit.
Roller shutter stops unexpectedly.	Obstacle detected; end position reached; motor overheating.	Remove obstruction; allow motor to cool down if continuously operated.
Roller shutter does not reach full open/close position.	End positions not correctly learned or shifted.	Initiate a new learning cycle or manually set end positions.

If the problem persists, please contact Rademacher customer support.

8. SPECIFICATIONS

Detailed technical specifications for the RolloTube S-line DuoFern Medium motor:

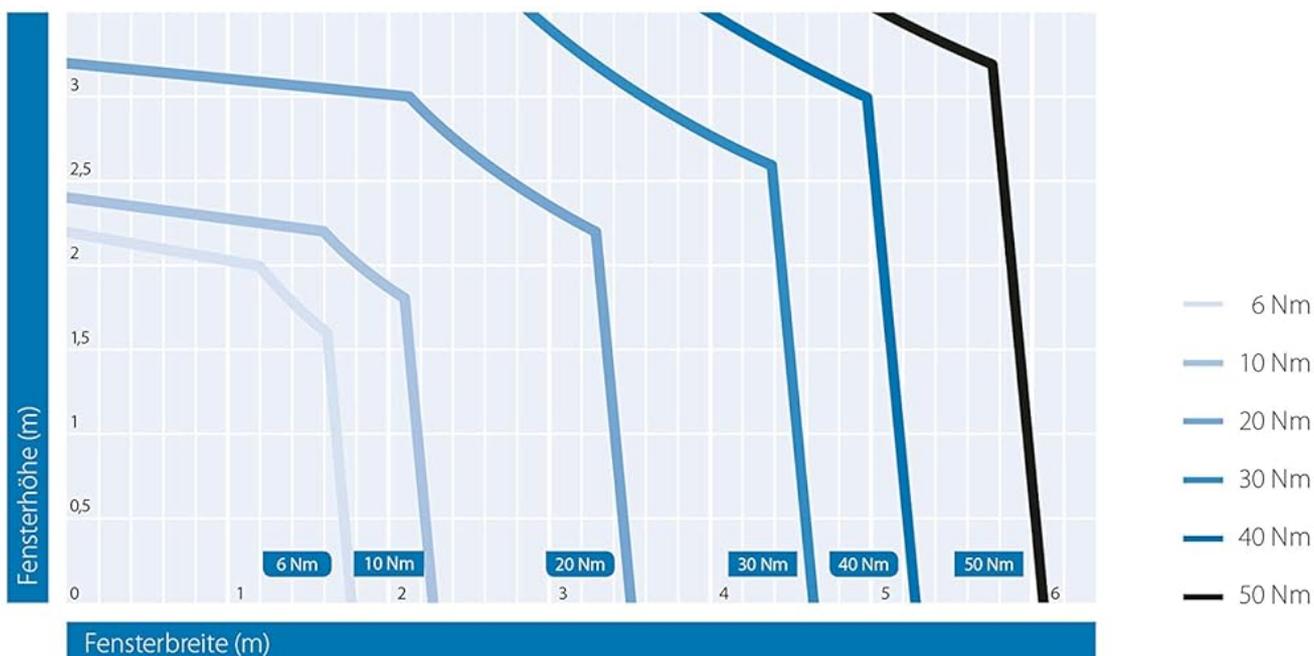
Attribute	Value
Model Number	SLDM 50/12PZ
Brand	Rademacher
Operating Mode	Automatic
Current Rating	2 Ampere
Operating Voltage	120 Volt
Contact Type	Working Contact
Connector Type	Plug In
Terminal	Plug
Circuit Type	1-Way
Actuator Type	Motor
Contact Material	Copper

Motorserie:		SLDS xx/xx PZ		SLDM xx/xx PZ				
Nenndrehmoment:	Nm	6	10	10	20	30	40	50
Leerlaufdrehzahl	U/min	28	16	16	16	16	16	12
Nennspannung	V	230	230	230	230	230	230	230
Frequenz	Hz	50	50	50	50	50	50	50
Nennleistung	W	121	121	112	145	191	198	205
Stromaufnahme	A	0,53	0,53	0,49	0,64	0,83	0,86	0,89
Einschaltdauer (KB)	Min.	4	4	4	4	4	4	4
Anzahl der Adern		5	5	5	5	5	5	5
Aderquerschnitt	mm ²	0,75	0,75	0,75	0,75	0,75	0,75	0,75
Anschlusskabel (PVC)	m	2,5	2,5	2,5	2,5	2,5	2,5	2,5
Endschalterbereich: (Anzahl der Umdrehungen.)	U	112	64	64	64	64	64	48
Isolationsklasse		H	H	H	H	H	H	H
Schutzklasse		I	I	I	I	I	I	I
Schutzart n. VDE 700		IP 44	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44
Motorlänge ohne Lager	mm	485	485	487	487	546	546	546
Rohrdurchmesser	mm	35	35	45	45	45	45	45
Schalldruckpegel (LpA)	dB(A)	≤ 70	≤ 70	≤ 70	≤ 70	≤ 70	≤ 70	≤ 70
Sendefrequenz	MHz	434,5	434,5	434,5	434,5	434,5	434,5	434,5
max. Sendeleistung	mW	10	10	10	10	10	10	10
Reichweite ca.								
- im Gebäude (je nach Bausubstanz)	m	30	30	30	30	30	30	30
- im Freien	m	100	100	100	100	100	100	100
Anzahl parallel schaltbarer Rohrmotoren (Bei Verwendung der RADEMACHER Steuerung, z.B. Troll Comfort)		3	3	2	2	2	2	2

Figure 5: Comprehensive technical data table for various RolloTube S-line DuoFern motor models, including nominal torque, speed, voltage, power, and cable specifications.

Profilgewicht 4 kg / m²

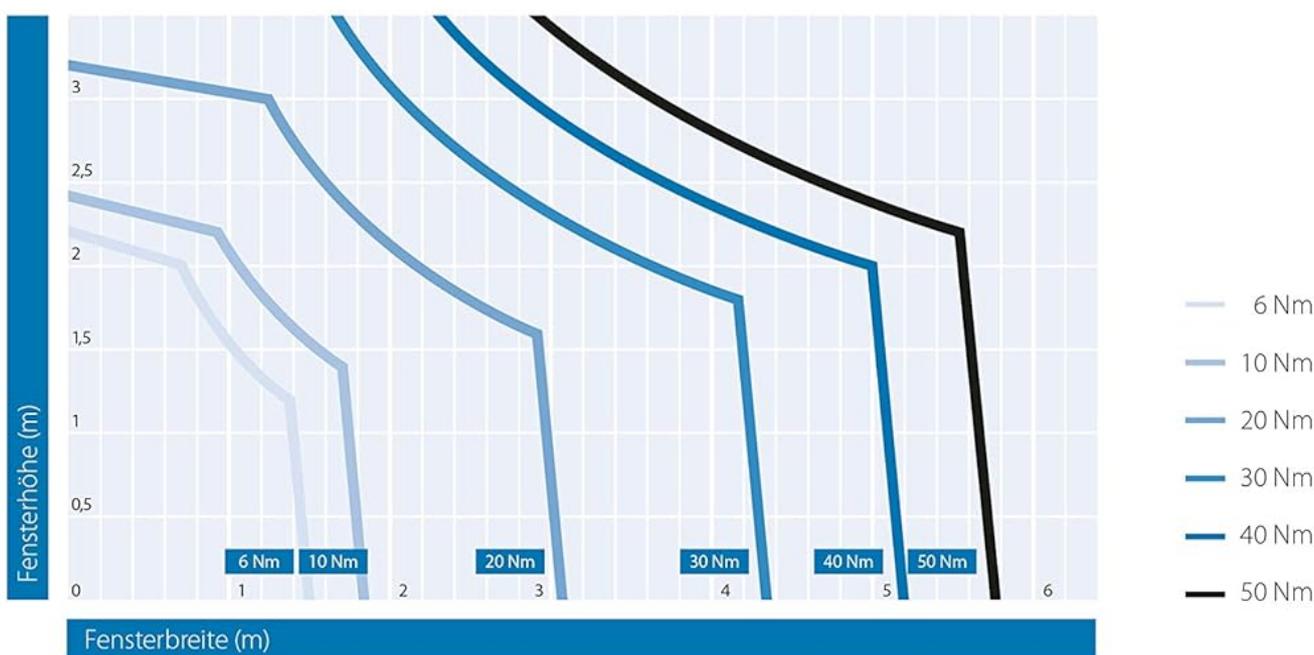
(Profilstärke 14 mm, z. B. leichte Alu- und Kunststoffrollläden, bis SW60)



Die Angaben sind Richtwerte. Die rollladenübliche Reibung ist berücksichtigt.

Profilgewicht 7 kg / m²

(Profilstärke 14 mm, z. B. schwere Alu- und Holzrollläden, bis SW60)



Die Angaben sind Richtwerte. Die rollladenübliche Reibung ist berücksichtigt.

Figure 6: Selection aids for tubular motors, showing graphs that correlate window height and width with required motor torque (Nm) for different profile weights (4 kg/m² and 7 kg/m²).

9. WARRANTY AND SUPPORT

Rademacher products are manufactured to high quality standards. For warranty information and technical support, please refer to the official Rademacher website or contact your local dealer.

Manufacturer: Rademacher Geräte-Elektronik GmbH

First Available on Amazon.de: December 18, 2019

For further assistance, visit the [Rademacher website](#).