



RRFM - "GME-Motion" Roof Robot Series

*Roof robot folding mast lighting systems for cars,
SUV's, vans & fire fighting vehicles*



LIGHTING AT A HIGHER LEVEL

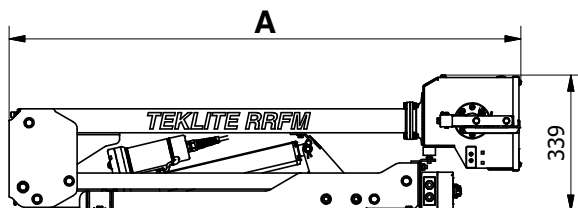
Mast specifications

Technical details

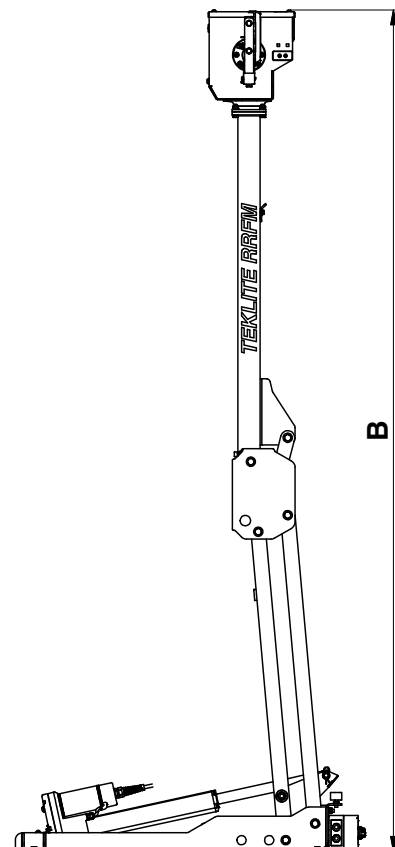
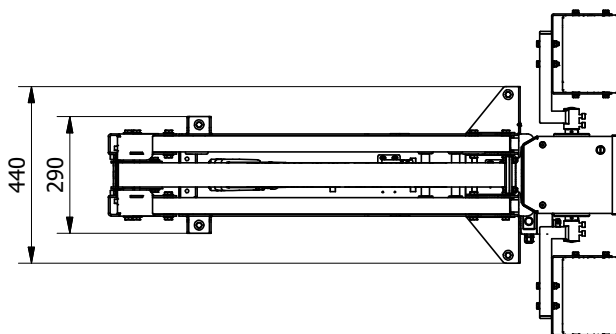
Features

- The electrical system is powered directly from the vehicle's 12/24V battery and can be fully operated via cable remote, with optional RF control for maximum flexibility.
- The pan & tilt robot lighting head offers 180° tilt up and down and 180° pan left and right from the zero position, all controlled effortlessly at the touch of a button.
- Lighting can be switched ON/OFF, with two separate lamp buttons and an integrated button for an optional beacon light, providing full control and enhanced visibility.
- The memory button on the LVG remote allows the lamps to rotate and tilt to a preset position, and by holding the button, the preset can be adjusted to a new position for flexible operation.
- Lamps are available in 12/24V DC or 110/230V AC (when a generator is on board), allowing operation in any environment.
- With a single press of the "mast down/park" button, the lamps return to the stowage position and the roof robot retracts; this cycle can also be triggered automatically when the vehicle handbrake is released.
- Optional deadman function for the "mast up/raise" button adds an extra layer of operator safety.
- Fire CAN and CANopen interfaces are available on request for seamless integration with vehicle control systems.
- The unlock safety button (LVG version only) prevents unintended mast operation, ensuring safe deployment in any situation.
- Full extension is achieved in approximately 15 seconds, depending on the lighting head load.
- Designed for demanding operational environments, the system operates reliably within a temperature range of -30°C to +60°C.
- Optional safety LED up-light available to further enhance visibility and operational safety.

Dimensions (mm)



RETRACTED POSITION



EXTENDED POSITION

LIGHTING AT A HIGHER LEVEL

Mast models

RRFM "GME-Motion" 2.3 Models

Cat. No.	Description	Max. headload (120 km/h) Weight / Wind Surface	Total weight
53420	RRFM "GME-Motion" 2.3	27 kg / 0,35 m²	40,1 kg
53421	RRFM "GME-Motion" 2.3 Deadman Function	27 kg / 0,35 m²	40,1 kg

Dimensions : (A = 1275 mm; B = 2280 mm)

RRFM "GME-Motion" 3.0 Models

Cat. No.	Description	Max. headload (120 km/h) Weight / Wind Surface	Total weight
53422	RRFM "GME-Motion" 3.0	17 kg / 0,25 m²	43,3 kg
53423	RRFM "GME-Motion" 3.0 Deadman Function	17 kg / 0,25 m²	43,3 kg

Dimensions : (A = 1625 mm; B = 2980 mm)

Remote controls



Remote Control-LVG

Models

Cable Remote Control	Cat. No. 53871
Combined Cable/RF Remote Control	Cat. No. 54061

1,25 metre spiral cable + 10 metres linear cable
(Optional up to 6 light buttons)

RF Remote Control Kit	Cat. No. 53872
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Kit contents: - RF Remote Control
- 230 Volt charger
- 12/24 Volt car charger
(Optional up to 6 light buttons)



Cable Remote Control-YH

Models

Cat. No. 38682 (Spanish)
Cat. No. 38683 (English)
Cat. No. 38684 (German)

1,5 metre spiral cable + 10 metres linear cable

LIGHTING AT A HIGHER LEVEL

Lamp choice

Set of 2 lamps mounted on Robot Head (IT) "GME-Motion"

Cat. No.	Model	Voltage	Lumen	Weight	Wind surface	Fits on			
						RRFM 2.3		RRFM 3.0	
						Robot Head	Robot Head IT	Robot Head	Robot Head IT
25279	2 x 500 Watt Halogen*	230V AC	19.000	4,5 kg	0,08 m ²	✓	✓	✓	✓
27301	2 x 750 Watt Halogen*	230V AC	33.750	7,6 kg	0,17 m ²	✓	✓	✓	✓
25280	2 x 1000 Watt Halogen*	230V AC	44.000	7,6 kg	0,17 m ²	✓	✓	✓	✓
25860	2 x 1500 Watt Halogen*	230V AC	66.000	9,6 kg	0,20 m ²	✓	✓	✓	✓
27292	2 x 41 Watt LED	12-24V DC	13.400	4,0 kg	0,04 m ²	✓	✓	✓	✓
53012	2 x 45 Watt LED	12-24V DC	9.600	2,1 kg	0,04 m ²	✓	✓	✓	✓
51982	2 x 50 Watt LED	24V DC	17.000	5,0 kg	0,08 m ²	✓	✓	✓	✓
52183	2 x 50 Watt LED	110-230V AC	17.000	6,4 kg	0,08 m ²	✓	✓	✓	✓
52671	2 x 100 Watt LED	24V DC	25.000	4,8 kg	0,05 m ²	✓	✓	✓	✓
51787	2 x 100 Watt LED	24V DC	42.000	8,5 kg	0,15 m ²	✓	✓	✓	✓
51788	2 x 100 Watt LED	110-230V AC	42.000	10,8 kg	0,15 m ²	✓	✓	✓	✓
53413	2 x 140 Watt LED	24V DC	32.000	8,9 kg	0,08 m ²	✓	✓	✓	✓
53535	2 x 225 Watt LED	24V DC	50.000	11,2 kg	0,12 m ²	✓	✓	✓	✓
52995	2 x 300 Watt LED	110-230V AC	90.000	14,7 kg	0,20 m ²	✓	✓	✓	✓

Model 2 x 300 Watt LED (52995)



LIGHTING AT A HIGHER LEVEL

**Set of 4 lamps mounted on
Robot Head (IT) "GME-Motion"**

Cat. No.	Model	Voltage	Lumen	Weight	Wind surface	Fits on			
						RRFM 2.3		RRFM 3.0	
						Robot Head	Robot Head IT	Robot Head	Robot Head IT
25282	4 x 500 Watt Halogen*	230V AC	38.000	6,9 kg	0,13 m ²	✓	✓	✓	✓
27366	4 x 750 Watt Halogen*	230V AC	67.500	12,5 kg	0,16 m ²	✓	✓	✓	✓
25283	4 x 1000 Watt Halogen*	230V AC	88.000	12,5 kg	0,16 m ²	✓	✓	✓	✓
52703	4 x 30 Watt LED	12-24V DC	12.800	3,0 kg	0,06 m ²	✓	✓	✓	✓
27362	4 x 41 Watt LED	12-24V DC	26.800	6,7 kg	0,06 m ²	✓	✓	✓	✓
27363	4 x 41 Watt LED (horizontal)	12-24V DC	26.800	7,8 kg	0,08 m ²	✓	✓	✓	✓
52198	4 x 45 Watt LED	12-24V DC	19.200	3,0 kg	0,06 m ²	✓	✓	✓	✓
51983	4 x 50 Watt LED	24V DC	34.000	8,0 kg	0,13 m ²	✓	✓	✓	✓
52704	4 x 50 Watt LED	110-230V AC	34.000	10,9 kg	0,13 m ²	✓	✓	✓	✓
52672	4 x 100 Watt LED	24V DC	50.000	8,2 kg	0,09 m ²	✓	✓	✓	✓
51789	4 x 100 Watt LED	24V DC	84.000	14,4 kg	0,25 m ²	✓	✓	✓	
51790	4 x 100 Watt LED	110-230V AC	84.000	19,0 kg	0,25 m ²	✓	✓		
53414	4 x 140 Watt LED	24V DC	64.000	15,3 kg	0,13 m ²	✓	✓	✓	
53536	4 x 225 Watt LED	24V DC	100.000	20,4 kg	0,20 m ²	✓	✓		
52996	4 x 300 Watt LED	110-230V AC	180.000	26,4 kg	0,35 m ²	✓			

Model 4 x 100 Watt LED (51789)



LIGHTING AT A HIGHER LEVEL

**Set of 6 lamps mounted on
Robot Head (IT) "GME-Motion"**

Cat. No.	Model	Voltage	Lumen	Weight	Wind surface	Fits on			
						RRFM 2.3		RRFM 3.0	
						Robot Head	Robot Head IT	Robot Head	Robot Head IT
33435	6 x 500 Watt Halogen*	230V AC	57.000	11,5 kg	0,20 m ²	✓	✓	✓	✓
52705	6 x 30 Watt LED	12-24V DC	19.200	5,3 kg	0,08 m ²	✓	✓	✓	✓
37664	6 x 41 Watt LED	24V DC	40.200	10,4 kg	0,11 m ²	✓	✓	✓	✓
38887	6 x 41 Watt LED (vertical)	24V DC	40.200	11,5 kg	0,11 m ²	✓	✓	✓	✓
33422	6 x 41 Watt LED (horizontal)	24V DC	40.200	11,6 kg	0,13 m ²	✓	✓	✓	✓
52706	6 x 45 Watt LED	24V DC	28.800	5,3 kg	0,08 m ²	✓	✓	✓	✓
53021	6 x 100 Watt LED	24V DC	75.000	12,6 kg	0,16 m ²	✓	✓	✓	
53022	6 x 100 Watt LED (vertical)	24V DC	75.000	13,8 kg	0,16 m ²	✓	✓	✓	

**Set of 8 lamps mounted on
Robot Head (IT) "GME-Motion"**

Cat. No.	Model	Voltage	Lumen	Weight	Wind surface	Fits on			
						RRFM 2.3		RRFM 3.0	
						Robot Head	Robot Head IT	Robot Head	Robot Head IT
37510	8 x 41 Watt LED	12-24V DC	53.600	13,8 kg	0,14 m ²	✓	✓	✓	
53020	8 x 45 Watt LED	12-24V DC	38.400	8,5 kg	0,14 m ²	✓	✓	✓	✓
53410	8 x 100 Watt LED	24V DC	100.000	16,7 kg	0,16 m ²	✓	✓	✓	

Model 6 x 100 Watt LED (vertical) (53022)



LIGHTING AT A HIGHER LEVEL

Flexilux lamp sets mounted on Robot Head (IT) "GME-Motion"

Cat. No.	Model	Voltage	Lumen	Weight	Wind surface	Fits on			
						RRFM 2.3		RRFM 3.0	
						Flexilux	Flexilux IT	Flexilux	Flexilux IT
53425	8 x 41 Watt LED	12-24V DC	53.600	14,8 kg	0,14 m ²	✓	✓	✓	
53424	8 x 45 Watt LED	12-24V DC	38.400	7,9 kg	0,14 m ²	✓	✓	✓	✓
53426	8 x 100 Watt LED	24V DC	96.000	17,9 kg	0,20 m ²	✓	✓		
53427	4 x 225 Watt LED	24V DC	100.000	22,5 kg	0,20 m ²	✓	✓		

Note: For more information see the Flexilux leaflet.

Flexilux Robot Head with 8 x 41 Watt LED (53425)



Flexilux Robot Head with 4 x 225 Watt LED (53427)



LIGHTING AT A HIGHER LEVEL

Beacon models



Teklite Quadriflash

Model Standard	Cat. No. 52262
Model IT	Cat. No. 52263

Available colours :
red, blue, amber and green



LED Beacon

Model Standard	Cat. No. 52260
Model IT	Cat. No. 52261

Available colours :
red, blue, amber and green

Safety LED Up-Light



Up-Light

Model	Cat. No. 53590
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All details given in this publication are approximate
and may be subject to change without notice.

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TEKLITE is a division of Teksam Company NV

ISO 9001

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