

# EMSA

GENERATOR

# LIGHT TOWERS





- Canopy with 2000-hour salt spray test
- Standard automatic 340° light rotating system
- 80 km speed wind durability
- 6 or 4x1000watt metal halide lamp option
- Hydraulic/Mechanical tower option
- Hydraulic/Mechanical stabiliser option
- LED lamp option
- Special color option
- Single or double axle trailer option

## TECHNICAL SPECIFICATIONS

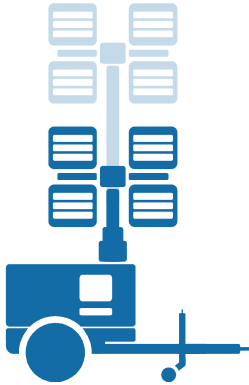
| MODEL                  |                            | LT-0010-PE              | LT-0010-PS | LT-0015-PE              | LT-0015-PS | LT-0017-YE              | LT-0022-PE              | LT-0022-PS | LT-0022-YE              |
|------------------------|----------------------------|-------------------------|------------|-------------------------|------------|-------------------------|-------------------------|------------|-------------------------|
| LIGHT TOWER            | POWER kW (kVA)             | 8 (10)                  |            | 12 (15)                 |            | 13,5 (17)               | 17,5 (22)               |            | 17,5 (22)               |
|                        | VOLTAGE (V)                | 231/400 V               |            | 231/400 V               |            | 231/400 V               | 231/400 V               |            | 231/400 V               |
|                        | LIGHTING TYPE              | METAL HALIDE / LED      |            | METAL HALIDE / LED      |            | METAL HALIDE / LED      | METAL HALIDE / LED      |            | METAL HALIDE / LED      |
|                        | LIGHT FLUX (lm) (PER UNIT) | 85.000 / 32.500         |            | 85.000 / 32.500         |            | 85.000 / 32.500         | 85.000 / 32.500         |            | 85.000 / 32.500         |
|                        | LAMP POWER (PER UNIT)      | 1000 W / 240W           |            | 1000 W / 240W           |            | 1000 W / 240W           | 1000 W / 240W           |            | 1000 W / 240W           |
|                        | LAMP QUANTITY              | 4 / 6                   |            | 4 / 6                   |            | 4 / 6                   | 4 / 6                   |            | 4 / 6                   |
|                        | ROTATION CAPACITY          | 340°                    |            | 340°                    |            | 340°                    | 340°                    |            | 340°                    |
|                        | LIFTING SYSTEM             | HYDRAULIC / MECHANIC    |            | HYDRAULIC / MECHANIC    |            | HYDRAULIC / MECHANIC    | HYDRAULIC / MECHANIC    |            | HYDRAULIC / MECHANIC    |
|                        | FUEL TANK CAPACITY (lt)    | 45 (MEC) / 105 (HYD)    |            | 45 (MEC) / 105 (HYD)    |            | 45 (MEC) / 105 (HYD)    | 45 (MEC) / 105 (HYD)    |            | 45 (MEC) / 105 (HYD)    |
|                        | WIND SPEED                 | 80 km/h                 |            | 80 km/h                 |            | 80 km/h                 | 80 km/h                 |            | 80 km/h                 |
| DIESEL ENGINE          | BRAND                      | PERKINS                 |            | PERKINS                 |            | YANGDONG                | PERKINS                 |            | YANGDONG                |
|                        | MODEL                      | 403A-II GI              |            | 403A-15 GI              |            | Y4800                   | 404A-22 GI              |            | YND4850                 |
|                        | TYPE                       | DIESEL, WATER COOLED    |            | DIESEL, WATER COOLED    |            | DIESEL, WATER COOLED    | DIESEL, WATER COOLED    |            | DIESEL, WATER COOLED    |
|                        | SPEED (rpm)                | 1500                    |            | 1500                    |            | 1500                    | 1500                    |            | 1500                    |
|                        | NUMBER OF CYLINDERS        | 3                       |            | 3                       |            | 4                       | 4                       |            | 4                       |
|                        | FUEL CONSUMPTION (lt/hr)   | 3,6                     |            | 4,1                     |            | 3,5                     | 6,1                     |            | 6,5                     |
| ALTERNATOR             | BRAND                      | EMSA                    | STAMFORD   | EMSA                    | STAMFORD   | EMSA                    | EMSA                    | STAMFORD   | EMSA                    |
|                        | MODEL                      | EGK160-8N2              | SOL1-H     | EGK160-10N2             | SOL1-P     | EGK160-12N2             | EGK160-16N2             | N20G4      | EGK160-16N2             |
|                        | FREQUENCY (Hz.)            | 50                      |            | 50                      |            | 50                      | 50                      |            | 50                      |
|                        | TYPE                       | BRUSHLESS               |            | BRUSHLESS               |            | BRUSHLESS               | BRUSHLESS               |            | BRUSHLESS               |
| ELECTRICAL             | CONTROLLER                 | SMART-200               |            | SMART-200               |            | SMART-200               | SMART-200               |            | SMART-200               |
|                        | POWER INLET PLUG (CEE)     | 3PH 16A IP67            |            | 3PH 32A IP67            |            | 3PH 32A IP67            | 3PH 32A IP67            |            | 3PH 32A IP67            |
|                        | POWER OUTLET PLUG (CEE)    | 1PH 16A IP67            |            | 1PH 32A IP67            |            | 1PH 32A IP67            | 1PH 32A IP67            |            | 1PH 32A IP67            |
|                        | CIRCUIT BREAKER (MCB)      | ABB - 3PH 16A           |            | ABB - 3PH 25A           |            | ABB - 3PH 25A           | ABB - 3PH 32A           |            | ABB - 3PH 32A           |
| TRAILER                | AXLE                       | 1 UNIT / TORSION        |            | 1 UNIT / TORSION        |            | 1 UNIT / TORSION        | 1 UNIT / TORSION        |            | 1 UNIT / TORSION        |
|                        | PARK BRAKE                 | YES                     |            | YES                     |            | YES                     | YES                     |            | YES                     |
|                        | TYRE'S                     | 2 x R13                 |            | 2 x R13                 |            | 2 x R13                 | 2 x R14                 |            | 2 x R14                 |
| LIGHT TOWER DIMENSIONS | MAX. TOWER HEIGHT (mm)     | 8000 (MEC) / 9000 (HYD) |            | 8000 (MEC) / 9000 (HYD) |            | 8000 (MEC) / 9000 (HYD) | 8000 (MEC) / 9000 (HYD) |            | 8000 (MEC) / 9000 (HYD) |
|                        | LENGTH (mm)                | 4160 (MEC) / 3050 (HYD) |            | 4160 (MEC) / 3050 (HYD) |            | 4160 (MEC) / 3050 (HYD) | 4180 (MEC) / 3050 (HYD) |            | 4180 (MEC) / 3050 (HYD) |
|                        | WIDTH (mm)                 | 1480                    |            | 1480                    |            | 1480                    | 1580                    |            | 1580                    |
|                        | HEIGHT (tower off) (mm)    | 1650 (MEC) / 2690 (HYD) |            | 1650 (MEC) / 2690 (HYD) |            | 1650 (MEC) / 2690 (HYD) | 1760 (MEC) / 2600 (HYD) |            | 1760 (MEC) / 2600 (HYD) |

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## SPECIFICATIONS AND OPTIONS

### HYDRAULIC MAST



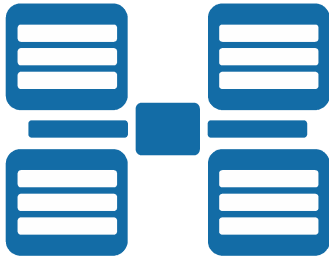
Mast movement of the light tower is guided with the help of hydraulic piston and pump. The movements can be easily controlled with a joystick on the control panel.

### MECHANICAL MAST



Mast movement of the light tower is guided with the help of a mechanical crane. Mechanical crane is used for bringing the mast to a horizontal position. This option occupies less space in terms of height than the hydraulic mast.

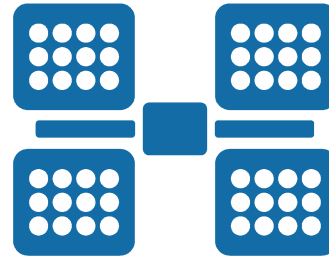
### METAL HALIDE LIGHTING SET



Lamps inside the fixture are manufactured as metal halide. Luminescence capacity is high. The fixture should be heated for full capacity.

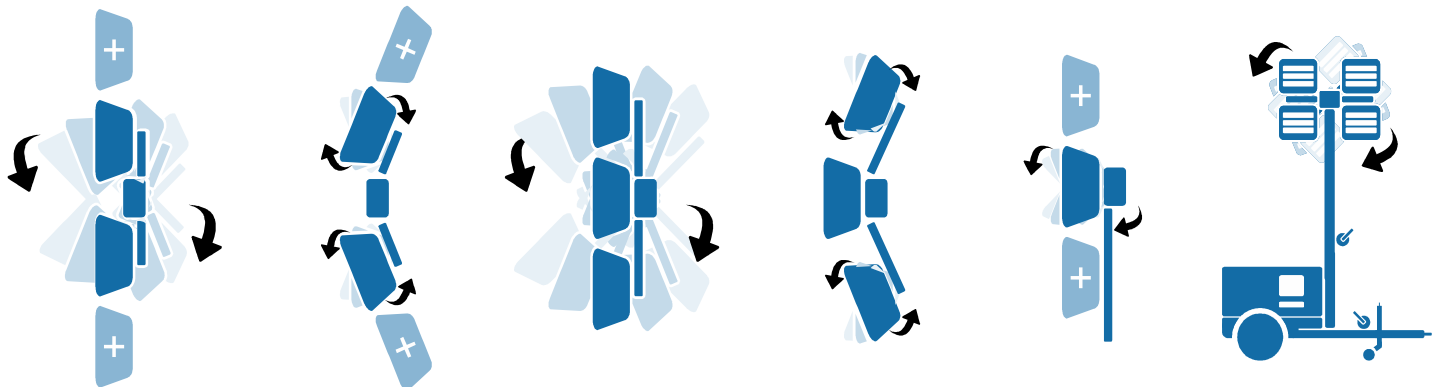
### LED LIGHTING SET

OPTIONAL



Lamps inside the fixture are manufactured as LED. Luminescence capacity is high. It has low energy consumption.

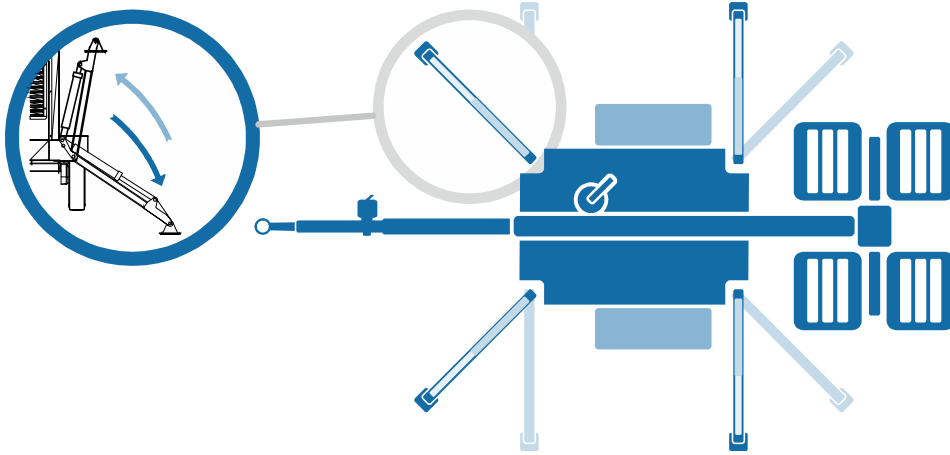
### LIGHTING SET MOBILITY CAPABILITY



Fixtures can be guided by using the joystick on the command panel with electric engines. Movement is possible for the vertical and horizontal axis. Also, each fixture can be manually adjusted around its own axis.

## HYDRAULIC STABILISER

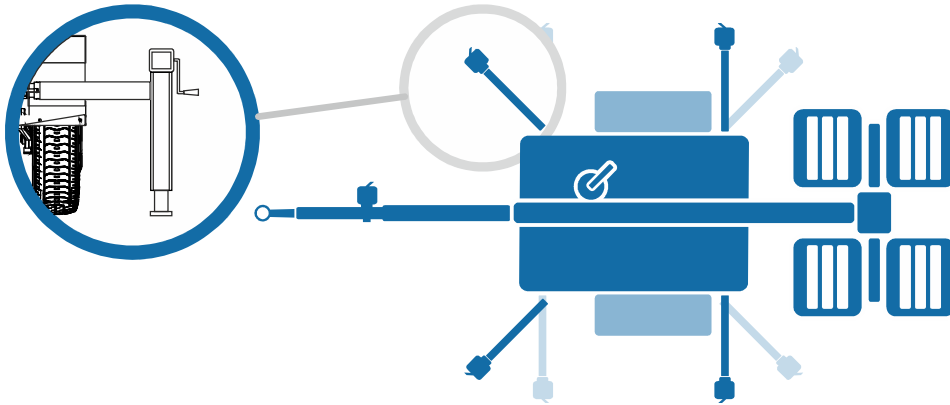
OPTIONAL



This is a hydraulic piston and pump-driven stabiliser system to use the illumination set on uneven surfaces.

Generally, 4 stabiliser are used for positioning. The number of fasteners might change depending on the need.

## MECHANICAL STABILISER

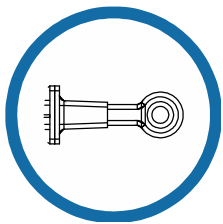


This is a mechanical lever jack stabiliser system to use the illumination set on uneven surfaces.

Generally, 4 stabilisers are used for positioning. The number of fasteners might change depending on the need.

## TRAILER AND BRAKING SYSTEMS

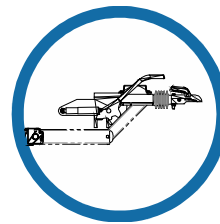
### TOW



Ring type trailer tongue can be manufactured for coupling or special standards (ex. NATO).

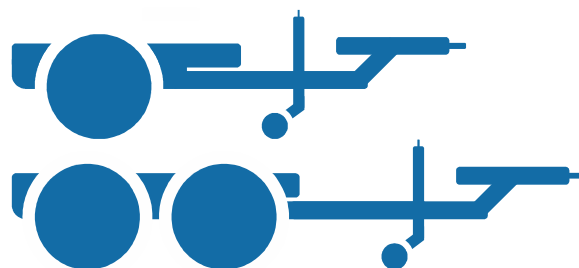
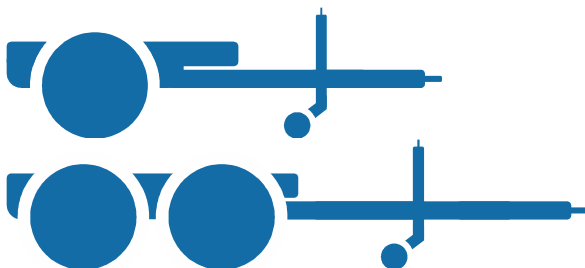
### TOWING EYE SET

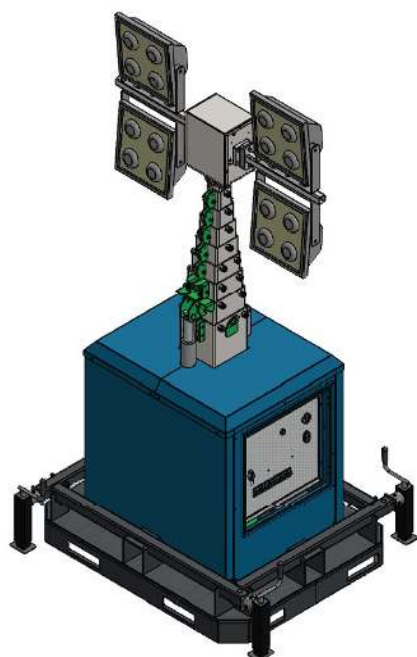
OPTIONAL



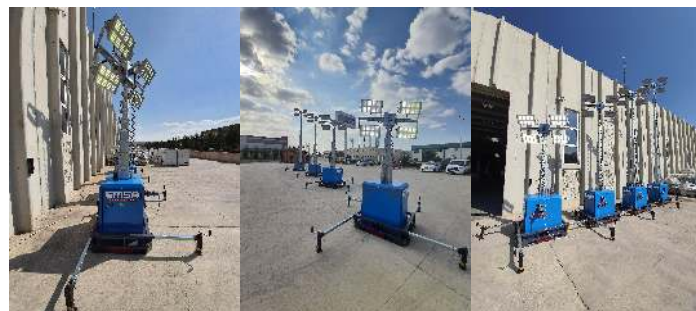
Trailer tongue systems can be manufactured fixed or adjustable. There are options with and without braking system.

Axle positioning can be adjusted for the load and customer demand. Generally, single axle is ideal for load distribution. But other options are possible depending on the need. Adjustable trailer towing eye set might provide an advantage to use with different vehicles.





# CUBE SERIES



- Standard automatic 340° light rotating system
- 6 or 4x350 Watt LED lamp product
- Mechanical/Hydraulic Tower
- Canopy with 2000-hour salt spray test
- 80 km speed wind durability
- Special color option

## TECHNICAL SPECIFICATIONS

| MODEL       |                            | EJ-LC001          | EJ-LC002 | EJ-LC003 | EJ-LC004 | EJ-LC005   | EJ-LC006 | EJ-LC007 | EJ-LC008 |
|-------------|----------------------------|-------------------|----------|----------|----------|------------|----------|----------|----------|
| LIGHT TOWER | MAST HEIGHT (m)            | 9                 | 9        | 9        | 9        | 9          | 9        | 9        | 9        |
|             | LIGHTING TYPE              | LED               | LED      | LED      | LED      | LED        | LED      | LED      | LED      |
|             | LIGHT FLUX (lm) (PER UNIT) | 45.500            | 32.500   | 45.500   | 32.500   | 45.500     | 32.500   | 45.500   | 32.500   |
|             | LAMP POWER (PER UNIT)      | 350W              | 250W     | 350W     | 250W     | 350W       | 250W     | 350W     | 250W     |
|             | LAMP QUANTITY              | 6                 |          | 4        |          | 6          |          | 4        |          |
|             | ROTATION CAPACITY          | 340°              |          |          |          |            |          |          |          |
|             | LIFTING SYSTEM             | HYDRAULIC         |          |          |          | MECHANICAL |          |          |          |
|             | WIND SPEED                 | 80 km/h           |          |          |          |            |          |          |          |
|             | LAMP CONTROLLER            | 4-WAY GEARBOX     |          |          |          |            |          |          |          |
| ELECTRICAL  | BATTERY                    | 1x50Ah            |          |          |          |            |          |          |          |
|             | POWER INLET PLUG (CEE)     | 1 X 3PH 125A IP67 |          |          |          |            |          |          |          |
|             | POWER OUTLET PLUG (CEE)    | 3 X 3PH 32A IP67  |          |          |          |            |          |          |          |
|             | CHARGER                    | SMPS 12V 4A       |          |          |          |            |          |          |          |
| CHASSIS     | MATERIAL                   | S235JR            |          |          |          |            |          |          |          |
|             | ADJUSTABLE JACK            | 4                 |          |          |          |            |          |          |          |
|             | FORKLIFT HOLE              | 4 WAY             |          |          |          |            |          |          |          |
| DIMENSIONS  | LENGTH (mm)                | 1450              |          |          |          |            |          |          |          |
|             | WIDTH (mm)                 | 1200              |          |          |          |            |          |          |          |
|             | HEIGHT (tower off) (mm)    | 2330              |          |          |          |            |          |          |          |

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