



MOBILE LIGHTING SOLUTIONS

MOBILE LIGHT TOWER

MODEL - MLT51600 | MLT73200

A trailer-mounted, diesel-powered lighting tower built for construction sites, mining, emergency response, outdoor events and off-grid locations. High-output LED heads on a 9 metre telescopic mast deliver wide-area brightness, run continuously on a Kirloskar diesel engine, and pack down onto a rigid, road-towable chassis.

READY TO EXPORT



9 m

MAST HEIGHT

4×400W / 8×400W

LED LIGHT

2.08L / 4.16L

TOTAL LUMENS

5 kW / 7.5 kW

ALTERNATOR

350°

MAST ROTATION

IP66

LIGHT PROTECTION

KEY FEATURES



HIGH-INTENSITY LED

4/8 × 400W LED heads, ~2,08,000 total lumens for superior, long-lasting brightness.



DIESEL GENERATOR POWERED

Kirloskar-DM10 engine with Gravis 5 kW / 7.5 kW alternator for reliable, fuel efficient off-grid runtime.



ADJUSTABLE TELESCOPIC MAST

Hoist-type mast rises to 9m with 350° manual rotation and free-fall protection.



PORTABLE & STURDY DESIGN

Rigid steel chassis on a towable trailer with 4 screw-jack outriggers for fast setup.



WEATHER-RESISTANT BUILD

IP66-rated light heads and a fully powder-coated steel enclosure for tough site conditions.



PROTECTED ELECTRICALS

Schneider RCCB input/output protection and IP67 32A socket terminal for safe field operation.

TECHNICAL SPECIFICATION

Export Ready - CE-style Build Standard
Loading Port: V.O. Chidambaram (Tuticorin), India

LED LIGHT DETAILS	MLT51600	MLT73200
No. of Lights	4 × 400W — 1600W, 240V AC, Voltrex	8 × 400W — 3200W, 240V AC, Voltrex
Lumens per Light	130 × 400 = 52,000 lm	130 × 400 = 52,000 lm
Total Lumens	2,08,000 lm	4,16,000 lm
Protection	IP66	
Warranty	2 Years	

ELECTRICAL SWITCHES	
Input Voltage Protection	Hybrid RCCB, Schneider — 1 Year
Output Voltage Protection	RCCB, L&T — 1 Year
I/O Socket Terminal	32A, 3-pin, PVC, IP67
Light Switches	Individual 16A single-pole isolator per light, IP30, steel enclosure, L&T — 1 Year

ENGINE — KIRLOSKAR DM10	
Power Output	10 HP @ 1500 RPM
Engine Type	Single-cylinder, 4-stroke, air/water-cooled, diesel
Bore × Stroke	102 × 116 mm
Compression Ratio	18:1 – 22:1
Starting System	Electric start
Fuel Consumption	~0.8 – 1.2 L/hr
Lubrication	Pressurised, 4 L oil capacity
Fuel Tank	50 L (modified)
Weight / Dimensions	200 kg - approx, 531×546×856 mm
Guarantee	1 Year



MAST (POLE)	
Mast Type	Telescopic
Max. Height	9 m from ground
Rotation	350° — manual
Driving Mechanism	Hoist type, multi-gear series with free-fall protection, 6mm rope
Mast Material	Mild steel
Warranty	1 Year (SMW)

MECHANICAL / CHASSIS	
Chassis	Rigid steel frame — holds panel, battery, inverter, mast (SMW, 1 Yr)
Enclosure	Powder-coated MS steel — protects inverter, battery, panel (SMW, 1 Yr)
Lifting System	4 × tiltable screw jacks (SMW, 1 Yr)
Towing System	L-hook system (SMW, 1 Yr)
Tyres	165/80 R15, 4 nos — MRF or equivalent
Suspension	Elliptical spring, 2 nos; 1 ton capacity (TATA, 1 Yr)
Axle	Hard circular axle with hub both ends (SMW)

ALTERNATOR — GRAVIS	MLT51600	MLT73200
Rated Output	5 kW	7.5 kW
Body / Cooling	Aluminium die-cast, air-cooled	
Voltage / Frequency	230V single phase, 50 Hz, 1500 RPM	
Power Factor	1.0	
Excitation / Insulation	Brush type with AVR - Class F	
Efficiency	80% – 90% (load dependent)	
Protection / Mounting	IP23 / IP44 - Foot-cum-flange	
Weight / Guarantee	60 – 90 kg - 1 Year	



2 Yr
LED LIGHT WARRANTY

1 Yr / 2000 Hrs
ENGINE, MAST & ALTERNATOR

IP66
LIGHTING HEAD RATING

CIF/FOB
EXPORT TERMS AVAILABLE

ILLUMINATION, SOUND & USE CASES

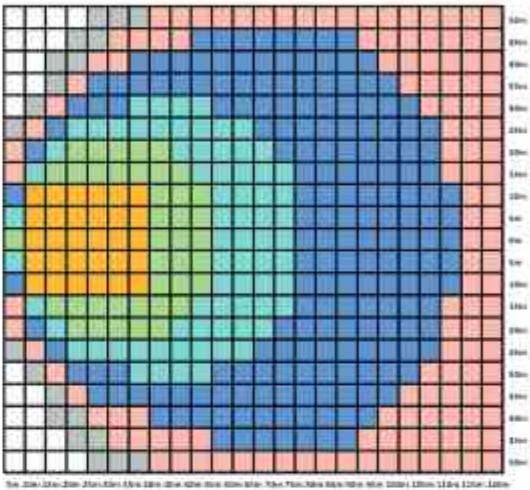
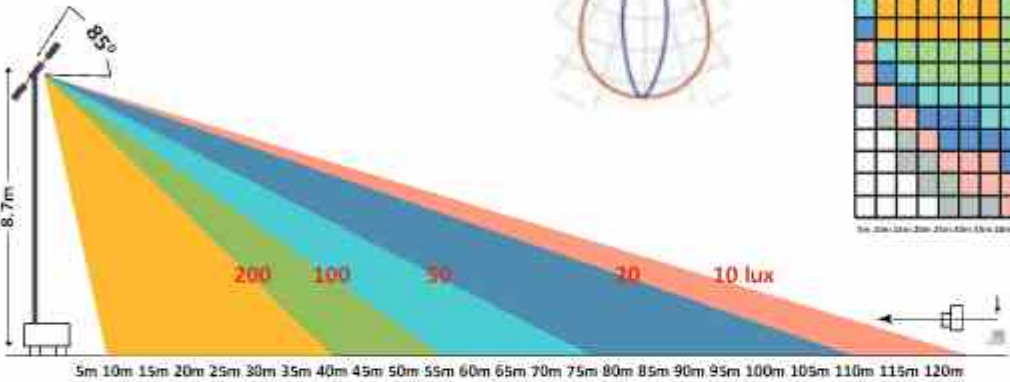
LIGHT DISTRIBUTION 400W LED FIXTURE — REFERENCE PROFILE

Indicative beam pattern and iso-lux curve for a single 400W LED floodlight of the type fitted to this tower, as tested by the lamp manufacturer at a mounting height close to this tower's maximum reach. Actual site illuminance depends on the number of fixtures in use, aiming angle, mast height and ground reflectance — use as a design reference, not a site guarantee.

Light Tower Illumination Simulation

Name: LED Project Lamp Model: vt1-400W
Lamp Power: 400W Luminous Flux: 71841.7m
Lamp Quality: 4PCS Mounting Height: 8.7m

Illuminance Value Table:



SOUND PRESSURE LEVEL FREE FIELD CONDITION

Sound pressure level of the running unit measured at increasing distance under free-field conditions.



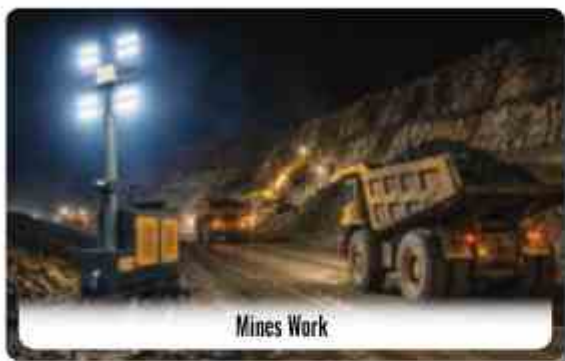
WHERE IT WORKS



Wind Mill Construction



Road Construction



Mines Work



Harbour Construction

EXPORT CONTAINER LOADING PROCESS

1. UNIT READY FOR LOADING	2. MOVING THE UNIT WITH FORKLIFT	3. ALIGNING WITH RFT CONTAINER	4. UNIT ONTO THE RAMP
5. UNIT ENTERING THE CONTAINER	6. POSITIONING INSIDE CONTAINER	7. EIGHT UNITS LOADED	8. SIXTEEN UNITS LOADED (2 LEVELS)
9. CONTAINER DOORS CLOSED	10. READY FOR TRANSPORT		

LOADING DETAILS

- Container Size : 80 Feet HQ
- Units Per Container : 16 Units
- Loading Method : Forklift & Ramp
- Securing Method : Wheel Chocks, Nylon Ropes, Lashing Straps
- Destination : Export Shipment

Export Unit

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