



MOBILE LIGHTING TOWER



#BRINGITON

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Illuminates Efficiency by
TAFE POWER MLT



TAFE POWER

TAFE's 65-years rich legacy combined with its expertise in manufacturing diesel engines for the Indian subcontinent, drives the TAFE POWER brand of Diesel Generators and Engines for Asia, Africa, Europe, Middle East, Australia and the Americas. TAFE, through its subsidiary TAFE Motors and Tractors Limited (TMTL), has been one of the pioneers in manufacturing diesel engines in India. With over 1 million satisfied customers of engines, DG sets and allied applications, TAFE is expanding its horizon in power solutions around the world.

TMTL Engines has its origin in European engineering and technology, and currently being used as a prime mover for various applications such as tractors, power generation, construction equipment, agriculture equipment, marine applications and various pumping application including firefighting, dewatering pumps etc.TAFE, through TMTL, has technical collaboration with global players such as Ricardo Consulting (UK), AVL (Austria), Sisu Diesel and Valtra (Finland).

TAFE POWER products have low operational expenses, high fuel efficiency and offer high value for money. The products adhere to prescribed safety norms and can be customized based on the application and requirement.

TAFE POWER Mobile Lighting Tower (MLT) is an advanced solution for versatile and reliable illumination, designed to excel in the toughest environments. From bustling construction sites to critical emergency operations, our MLT delivers exceptional performance, ensuring no workspace is left in the dark.



LED life span
10 years or 90,000 hours with Lumen Maintenance (LM) of 70% i.e. LM70% = 90000 hrsLM90% = 50000 hrs.



Max wind speed (kmph):
110



Service Intervals
500 hrs



Plug & light
External 2 x 16 Amps CEE Sockets provided for single phase supply.



Fuel consumption (Lt/h):
1.6 ltr@75% load
1.9 ltr@100% load



Mast Rotation:
340 degree



Noise Level:
72 dBA at 1 m.



Transport Efficiency:
It is transport efficient, ensuring easy mobility and quick setup



Why Choose TAFE POWER MLT?

- Unmatched Versatility:** Perfect for a wide range of applications, including construction, mining, outdoor events, and disaster response.
- Advanced Engineering:** Thoughtfully designed for durability, mobility, and effortless setup, even in the most challenging terrains.
- Superior Illumination:** High-powered, energy-efficient lighting for consistent, long-lasting performance.
- Rugged Reliability:** Built to endure harsh conditions while maintaining seamless functionality.

TAFE POWER MLT - Your Brightest Choice

FEATURES		BENEFITS	
Rubber Torsion Bar Suspension		Smooth towing on rough terrains, ensuring reliability and durability	
Vibration Isolation		Specially designed AVM pads minimizes vibration for a smoother and quieter operation	
Hand Brake & Emergency Stop		Secure parking and immediate shutdown for emergencies	
Easy Maintenance Access		Faster servicing, easy to maintain and saves time and efforts	
Adjustable Tow Bar		Effortless towing with enhanced safety	
High-Efficiency LED Lights		Vivid illumination, weatherproof durability, and easy maintenance	
High Lumen LED Lights		Simplifies nighttime operations and enhances visibility	
Flippable 180° LED Lights (Both horizontally and vertically)		Adjustable for wide-angle coverage and precision lighting for all job site needs	



MOBILE LIGHTING TOWER SPECIFICATIONS

TP MLT 4400 950E143

LUMINARIES

Light Type	-	FM LED Flood Light
Wattage	W	4 X 400W
Total Lumens	lm	4 x 52000 = 208000
Lumens per Watt	lm/W	130

DIESEL ENGINE

Engine Model	-	143ES
Engine Make	-	TAFE POWER
Rated Speed	RPM	1500
Engine Output	KW	8.3
Number of Cylinders	nos	1
Engine Type	-	4-Stroke Diesel
Injection Type	-	Direct Injection
Aspiration Type	-	NA
Bore and Stroke	mm	100 x 125
Displacement	cc	981
Compression Ratio	-	17±0.5 : 1
Cooling System	-	Air Cooled
Governor	-	Mechanical
Air Filter	-	Dry
Lube Oil Specifications	-	SAE - 15W40 CI4
Oil Change Period	hrs	500

PROTECTION AND SAFETIES

Control panel IP code	IP-54
Controller	Deep Sea (4522 MK-II A1)
Additional Feature	2 x 16 Amp CEE Sockets for Aux Power

FUEL TANK

Fuel Tank Capacity	Litre	50
Fuel consumption @100% Load	Litre/hr	1.9
Fuel consumption @75% Load	Litre/hr	1.6
Fuel Consumption With Only Lamps ON	Litre/hr	0.5

ALTERNATOR

Make		Stamford / Equivalent Make
Rated Output	kVA	7.5 kVA
Type		Self-Regulated Brushless
Insulation	Class	H class
Degree of Protection	IP	IP23
Rated Voltage & Frequency	V & Hz	230 & 50

MAST

Type		Telescopic, Hand Winch, 5 Section
Max Height	m	9
Rotation	degree	340
Max Wind Speed	kmph	110

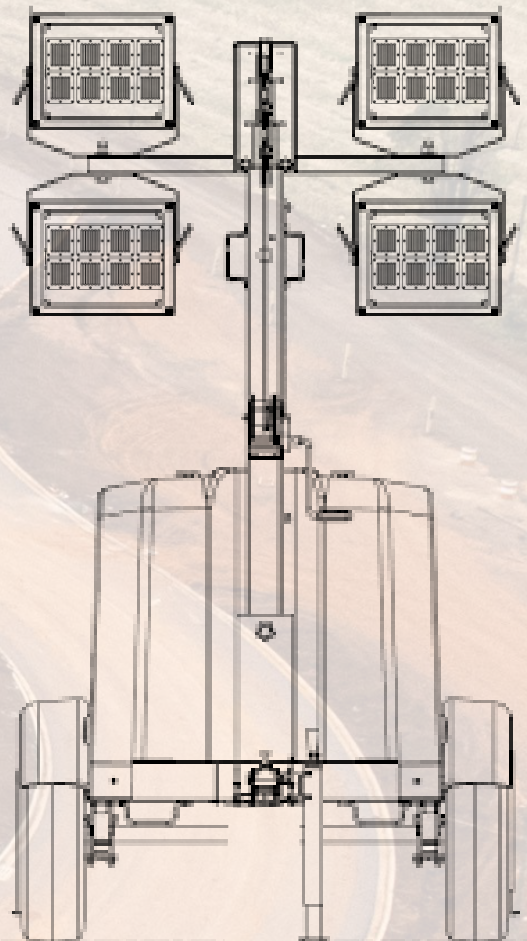
ADDITIONAL FEATURES

Suspension	Rubber Torsion Bar
Tow Hook	Vertically Adjustable
Safeties	Emergency Stop, LLOP, HCT, LFL
Tyre type, Size & Model	Baloon Tyre with Tube (165 D12 HD)



DIMENSIONS & WEIGHT

Overall Dimension in Transport (LxWxH)	mm	2250 x 1382 x 2500
Overall Dimension in Operation (LxWxH)	mm	2890 x 1382 x 9000
Weights (Dry)	Kg	1250 Kg





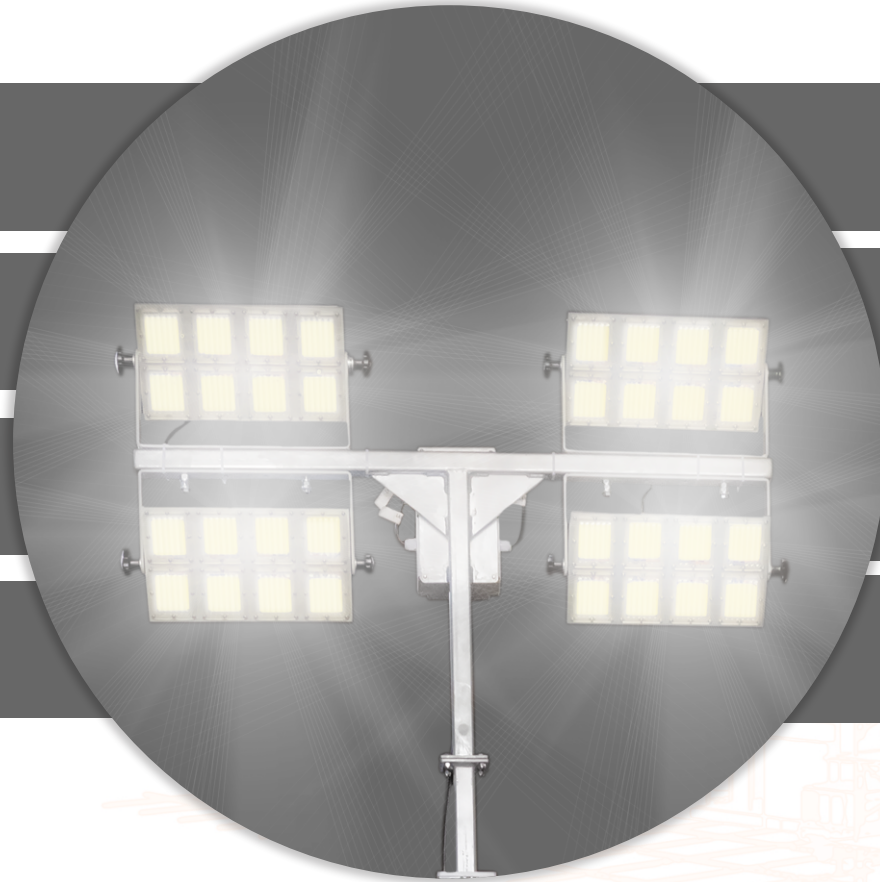
FM LED LIGHTS

8 individual Modules of 50 Watt each.
Replaceable if at all any module gets
damaged for any reason

Each Fm LED strip is protected by
Polycarbonate Lens

Smaller and light weight
LED Driver

Weight of 400 Wall LED Light
is -7.5 Kg each

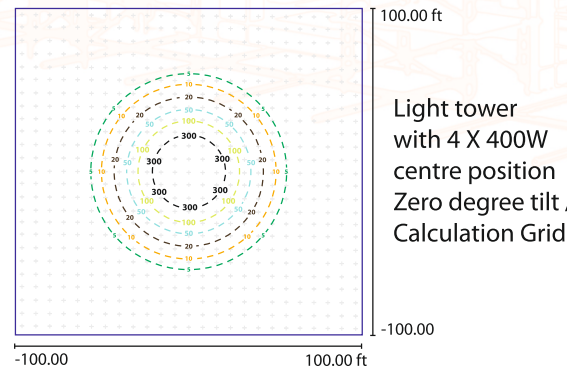
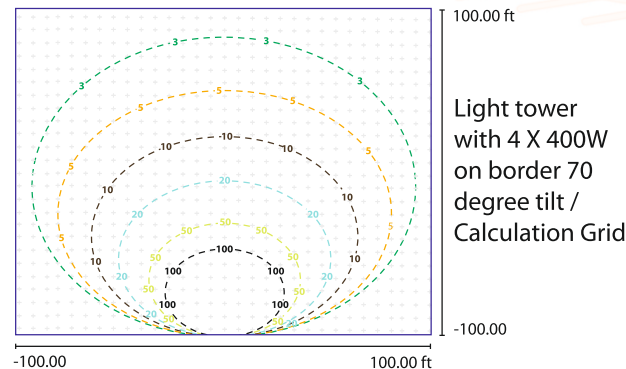
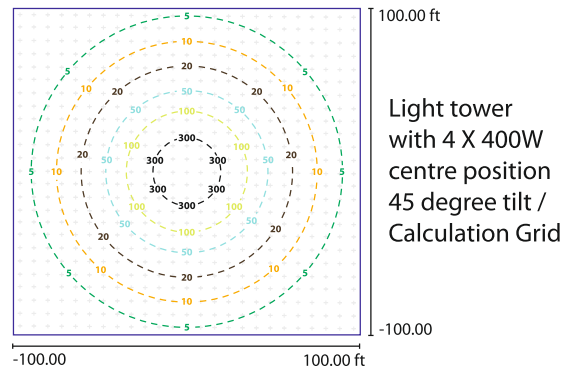


Extruded Aluminum Housing and
Backing Plate duly powder-coated
IP-65 construction

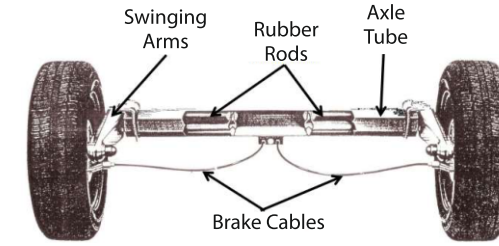
130 lm/W, ensuring excellent energy
efficiency with maximum light output
for every unit of power used

4 x 400W, offering robust and
reliable lighting performance even in
challenging environments

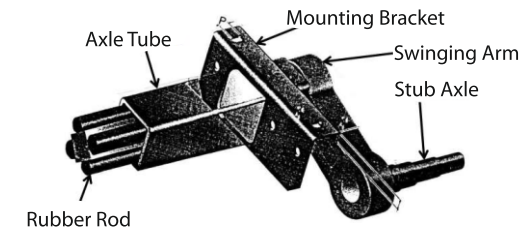
208,000 lumens, providing
brilliant brightness to cover
large areas with ease



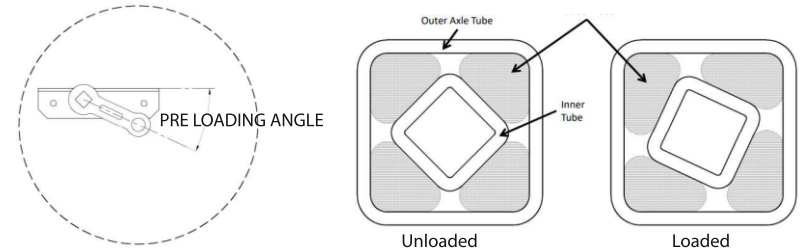
RUBBER TORSION BAR SUSPENSION – CUT SECTION



Cut open section showing position of
Rubber Rods and Swinging Arms

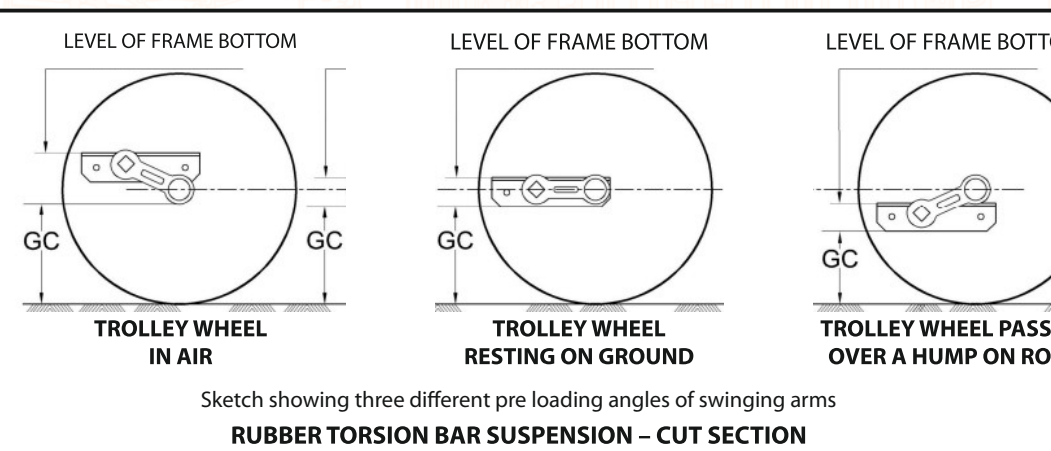
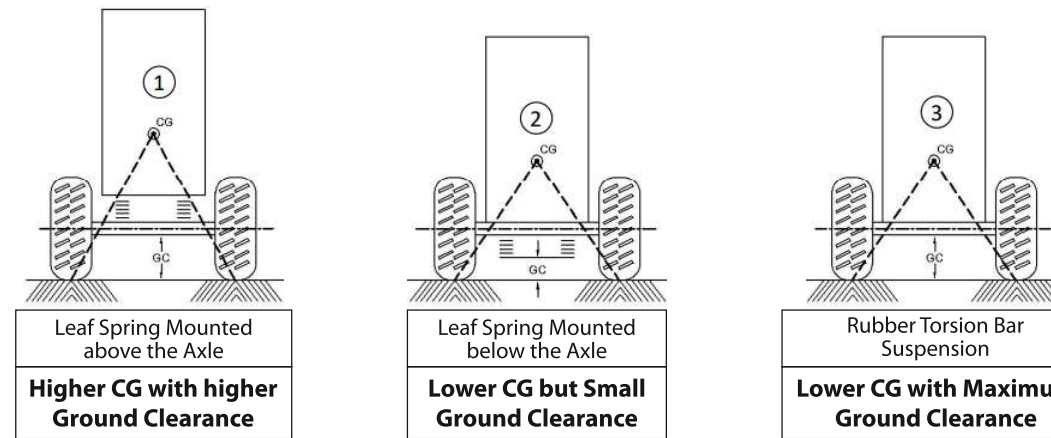


Cut section showing RTB,
Swinging Arm and Stub Axle



Sketch showing
pre loading angle

CROSS SECTION OF RTB



“RUBBER TORSION BAR” SUSPENSION – ADVANTAGE

- The suspension system absorbs twice the shocks of a leaf spring.
- It performs efficiently at high and low temperature range (-25°C to +55°C)
- Provides maximum ground clearance besides lowering the CG
- Low maintenance

*Product images and illustrations are for representation purpose only.

Actual product colors and specifications may vary.

*The mentioned features and figures are subject to change as a part of product improvement.