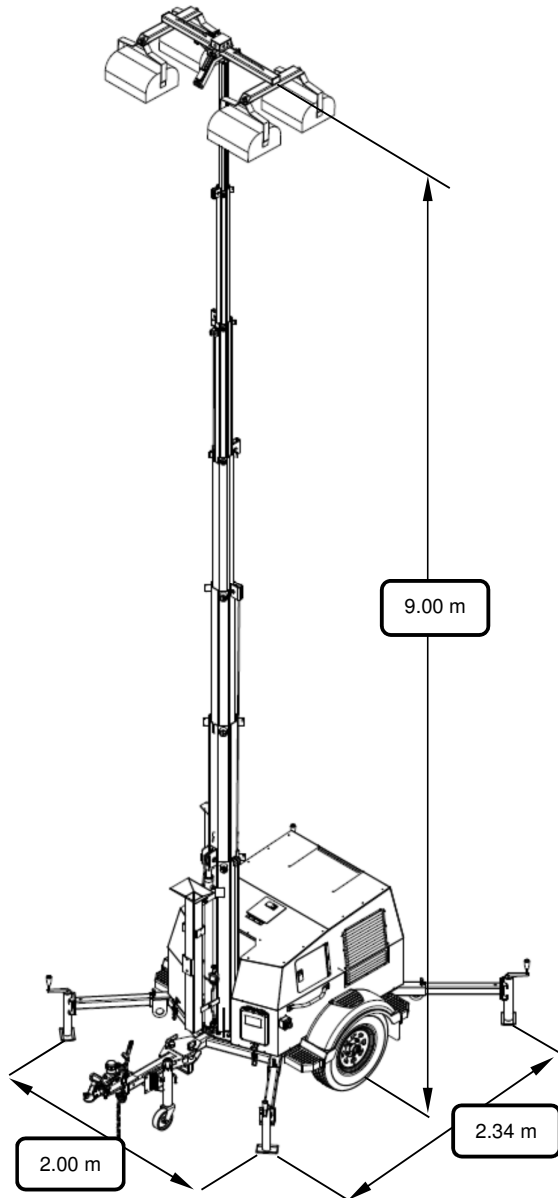
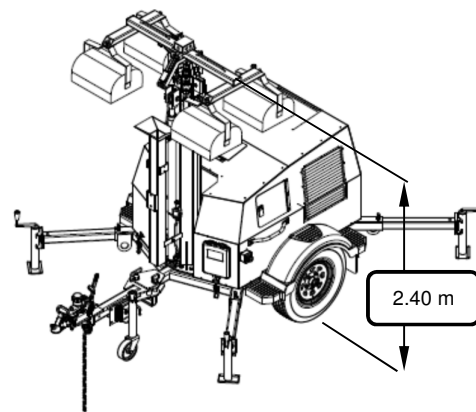


METRO-MH GEOMETRY



Outrigger stabiliser jacks deployed.
Lighthouse at maximum height.



Lighthouse at minimum height.



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METRO-MH SPECIFICATION

1.1 DIMENSIONAL ENVELOPES

Envelope:	towed/stowed
Length	2.90 m/2.25 m
Width	1.65 m/1.75 m
Height	2.40 m
Ground Clearance (min.)	0.25 m

Envelope: Outriggers deployed	
Height mast raised	9.00 m
Length	2.34 m
Width front outrigger	2.00 m
rear outrigger	2.15 m

1.2 MACHINE (TRAILER) MASS

Aggregate (ATM)	1150 kg
Towball "weight"	100 kg
Maximum Towing Speed	80 km/hr

1.3 MACHINE PERFORMANCE

Alternator electrical output	6500 W
Diesel fuel consumption	2.25 L/hr
Load: 4x Metal Halide (HID)	4000 W
Sound Pressure Level @ 7 m	65 dB _A
Wind Speed Rating	100 km/hr
Mast Raise Time	25.0 s
Mast Lower Time	12.5 s

1.4 STORED FLUID VOLUMES

Hydraulic Oil Tank	5.15 L
Fuel Tank (diesel)	125 L
Radiator Coolant	3.1 L
Engine Oil Sump	5.1 L
Fluid Bund Capacity	120%

1.5 HYDRAULIC SYSTEM RELIEF

Relief Valve Setting	125 bar (1800 psi)
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1.6 COMPONENT SPECIFICATION

Engine: D905-BG2 JLG-1

3-Cylinder, water-cooled, aspirated

Total Displacement	898 cm ³
Rated Power Output	5.5 kW @1500 rpm

Alternator: Sincro SK160SA1

Frequency:	4 pole-50 Hz
Voltage:	230 V _{rms}
Power output:	9 kVA
Configuration:	single-phase

Hydraulic System

Pump motor (standard duty)	12 V DC
Operating Pressure (max.)	240 bar
Pump Displacement	0.78 cm ³ / rev

Light Head: Metal Halide (MH) Lights

Type: Metal Halide (HID)	230 V _{rms}
Rating: (electrical power input)	1000 W
Total Light Output (initial)	105 000 lm
Total Light Output (mean)	85 000 lm
Lighthouse Tilt angle	0 ≤ θ ≤ 45°
Rotation angle	-58° ≤ ϕ ≤ 58°

Electrical Controls (Protection)

Motor (hydraulic powepack)	1 x 20 A
Engine control circuit breaker	1 x 20 A
RCD /MCB circuit breaker	1 x 25 A

Battery

Model	MF50ZZ
Voltage	12 V DC
C.C.A.	600 A
Reserve Capacity	120 min @ 25 A
Capacity	75 A hr (20 hr)

Axle / Brake Type

Single High Mount/ Low Swing Arm Axle
 Independent Rubber Suspension (IRS)

Drum and shoe (hydraulic operation)
 or
 Disc Calliper (wire cable operation)

Tyres and Wheels

Tyre Dimensions:	205/80 x 16"
Wheel Dimensions:	14" x 6J
Tyre pressure (gauge) :	450 kPa

METRO-MH

ISOLUX DIAGRAMS [lm/m²]

