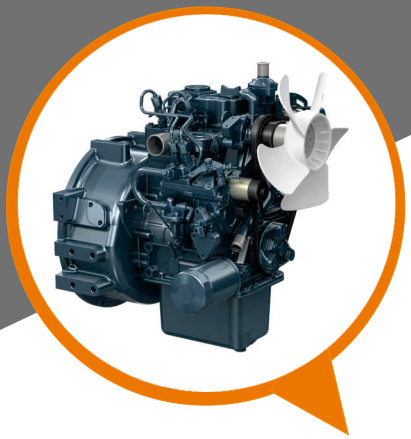
GRANDWATT

Lighting Where You Need
Power When You Need

HYBRID
LIGHT TOWER

Product Introduction

GRANDWATT HYBRID series is an advanced lighting tower that operates from diesel and lithium battery combination. Utilizing latest, hybrid technology, it will save 39% fuel cost, extend 57% maintenance period, running time before refill reach to 520h with big fuel tank capacity 348L, which will save labor cost drastically. In the meanwhile, it will reduce CO_2 emissions and noise at night. The HYBRID is ready to apply in road construction, mining, oil field, events and military, provide continuous all-weather and all years round illumination.



Kubota

SAVE
39%
FUEL COST

SAVE
55%
LABOR COST

SAVE
53%
MAINTENANCE COST

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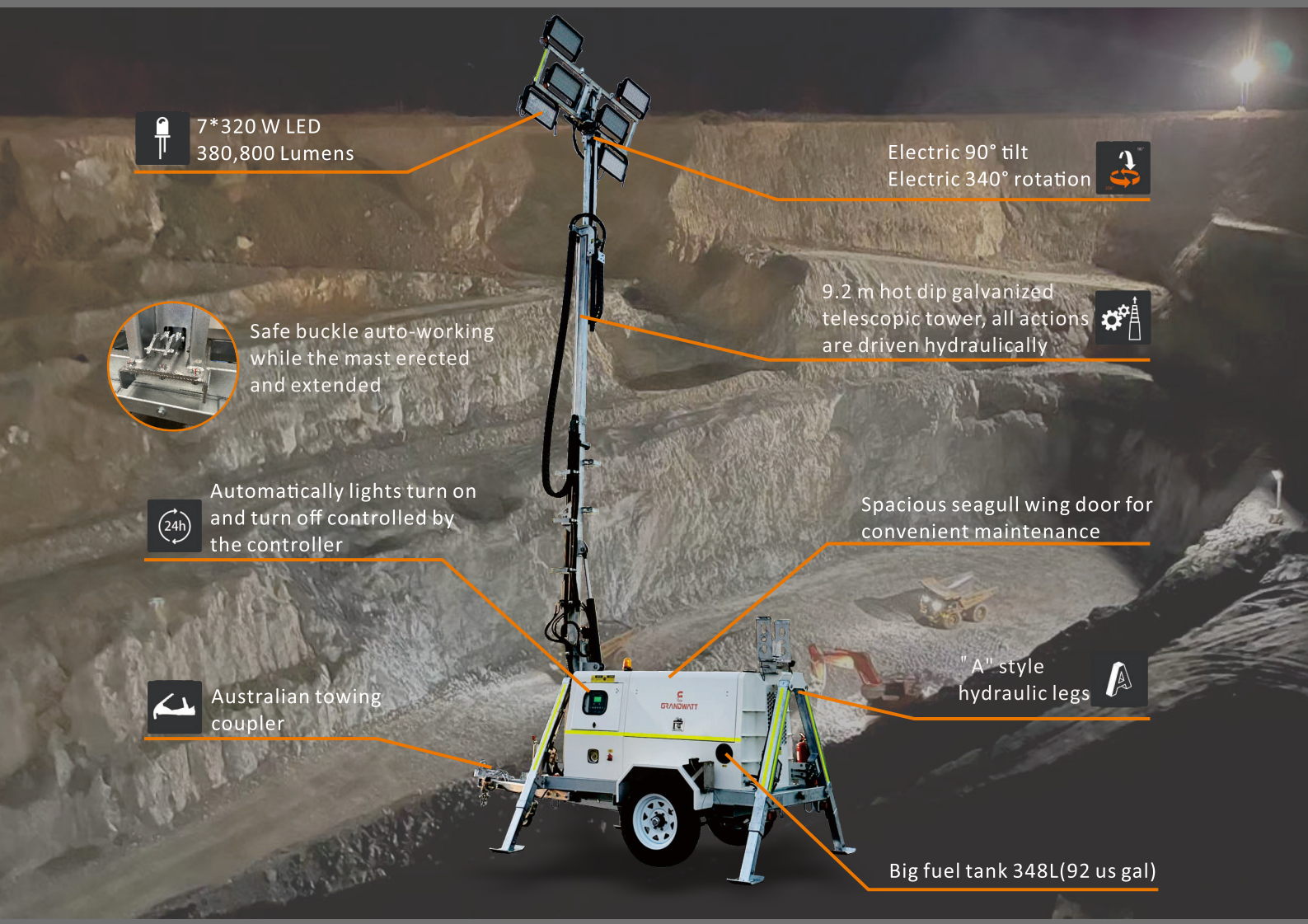
HIGHLIGHT FEATURES



RUNNING TIME

From Battery
8 hrs/day

RUNNING TIME

From Engine
6 hrs/day

RUNNING TIME

Before Refill
520 h
Fuel Tank Capacity 348 L

REDUCTION

Co_2 emissions

REDUCTION

Noise

40,000 sqm
area illuminated

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HYBRID LIGHT TOWER

Standard Model		HT10-M2240/DB
Mast System	Max mast height	9,200mm (30' 2")
	Mast structure treatment	Hot galvanizing
	Mast raise & telecope	Hydraulic
	Light bar rotation	Electric 340°
	Light bar tilt	Electric 90°
Luminaire	Luminaire	7*320 W LED (48 VDC)
	Overall lumens	380,800 Lumens
Dimensions	Overall width	2,070mm (6' 9½")
	Overall height	2,410mm (8')
	Overall length	4,810mm (15'9")
	Weight	2,000 kg (4,409 lbs)
Engine & Alternator	Engine model	KUBOTA D1105
	Engine characters	3 cylinders, 4 cycles & water cooling
	Alternator	DC type
Battery	Lithium battery	2*200Ah
General Data	Fuel tank	348 liters (92 US gal) bunded metal tank
	Fuel consumption	1.78 L/hrs
	Hybrid mode consumption	0.67 L/hrs
	Run time before refuel	455 hours
	Control system	Hybrid controller
	Max wind resistance	20km/h (45mph)
	Max units load in 40' HC	3

Comparison with Diesel and Hybrid Model			
Model	HT10-M2240 (Diesel only)	HT10-M2240/DB (Diesel& Lithium Battery)	Hybrid Model Advantage (Increase or Decrease Percentage)
Engine	Kubota Z482	Kubota D1105	/
Fuel consumption per 14 lighting hours	17.36 liter	10.68 liter	Decrease 38.4%
Bunded metal fuel tank	348 liters (92 US gal)	348 liters (92 US gal)	/
Refueling cycle	280 hrs	520 hrs	Increase 85%
Silent lighting time per day	N/A	8 hrs	/
Engine running time per day	14 hrs	6 hrs	Decrease 57%
Fuel cost calculated as US$1.21/liter, running 2,000 hours	US$3,000	US$1,835	Decrease 39%
Maintenance cost calculated as running 2,000 hours	US$565	US$265	Decrease 53%
Labor cost calculated as running 2,000 hours, estimated US$500 per time	US$5,500	US$2,500	Decrease 55%
Remark: Above calculation has been based on working time 14 hours per day, 30 days per month, not including changing engine oil cost and travelling cost.			

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