

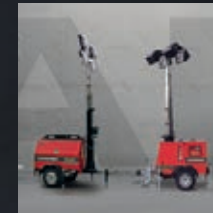
LIGHTING TOWERS



APOLO RANGE



HIMOINSA



The full APOLO range includes compact, robust and versatile lighting towers that offer high autonomy. Its LED versions consume substantially less fuel.



APOLO START lighting towers, with a manual mast, are considered one of the most versatile and competitive on the market.



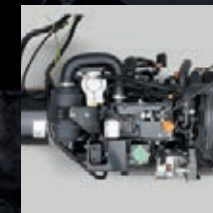
The APOLO COMPACT lighting towers own a hydraulic mast extensible up to 9 metres high in less than 25 seconds and allows a 360° rotation.



Up to 20 APOLO BOX lighting towers can be transported in a 40-foot container, making it a star product in the rental, construction and events sectors.



The KIT TOWER series is composed of lighting towers with an independent lighting kit without generator sets. They can enlighten up to 110,000 square metres.



Lighting towers in the APOLO range are equipped with YANMAR engines. Five engine models are available ranging from 4.5 to 7.5 kW (comprising 50Hz and 60Hz).



The M7T controller monitors and indicates levels of pressure, frequency, power and other engine alerts such as the fuel reserve, oil pressure and water temperature.



HIMOINSA has a large technical support network and a centralised system for supplying original spare parts. Its primary objective is to extend the product life.



HIMOINSA®
THE ENERGY






APOLO

PRODUCT MAP

TECHNICAL ICONOGRAPHIC INDEX USED IN THIS CATALOGUE







	Water		Manual		1500 1800 rpm		KIT Kit		Metal Halide Quartz iodine		Max. Height
	Air		Hydraulic		3000 3600 rpm		360° Rotation		LED		Lumens

START
AS4005ECO

-  Rated Speed
-  Cooling System
-  LED (standard)
-  Lifting System
-  Rotation









START
AS4006
AS4008

-  Rated Speed
-  Cooling System
-  Metal Halide
-  Led (optional)
-  Lifting System
-  Rotation









START
AS4006V

-  Rated Speed
-  Cooling System
-  Metal Halide
-  Led (optional)
-  Lifting System
-  Rotation









COMPACT
STANDARD

-  Rated Speed
-  Cooling System
-  Metal Halide
-  Led (optional)
-  Lifting System
-  Rotation








COMPACT
HEAVY DUTY

-  Rated Speed
-  Cooling System
-  Metal Halide
-  Led (optional)
-  Lifting System
-  Rotation









COMPACT
ECO

-  Rated Speed
-  Cooling System
-  Led (standard)
-  Lifting System
-  Rotation








BOX
BOX

-  Rated Speed
-  Cooling System
-  Metal Halide
-  Led (optional)
-  Lifting System
-  Rotation








KIT TOWER
MINI KIT

-  Kit
-  Metal Halide
-  Led (optional)
-  Lifting System
-  Rotation



KIT TOWER
KT8000
KT12000

-  Kit
-  Quartz iodine
Metal Halide
-  Led (optional)
-  Lifting System
-  Rotation



START

COMPACT

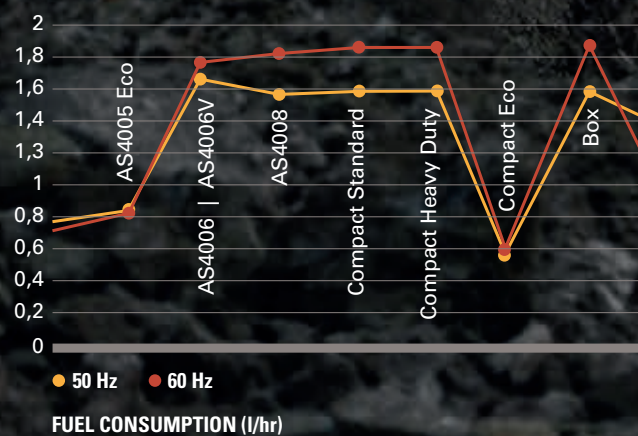
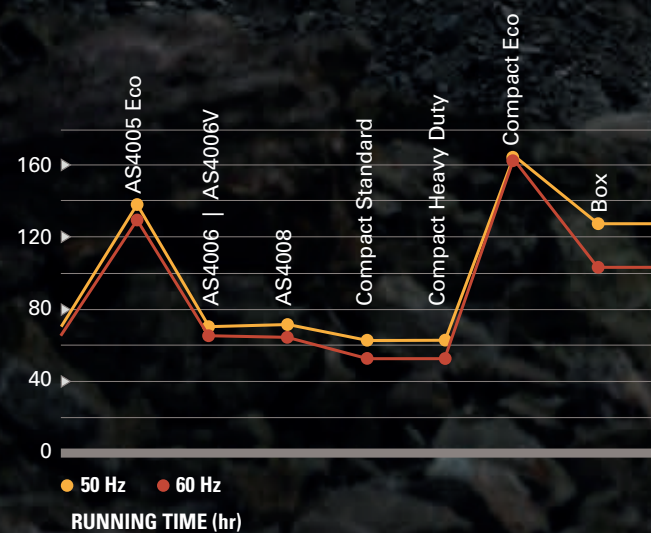
BOX

KIT TOWER

LIGHT ON SITE

HIMOINSA HAS DESIGNED A FULL RANGE OF LIGHTING TOWERS THAT ARE COMPACT, ROBUST, VERSATILE AND OFFER EXTENDED AUTONOMY. **WITH A LIGHTING CAPACITY OF UP TO 1,320,000 LUMENS, SOME OF THE TOWERS IN THE APOLO RANGE CAN LIGHT UP AN AREA OF 110,000 SQUARE METRES AND HAVE 166-HOURS AUTONOMY, EQUIVALENT TO 17 NIGHTS WITHOUT BEING REFUELLED.**

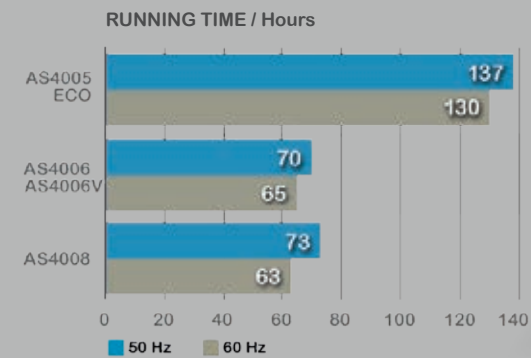
THEIR CAREFULLY THOUGHT-OUT DESIGN INCLUDES LED VERSIONS THAT CONSUME SUBSTANTIALLY LESS FUEL. THEIR SMALL MEASURES MAKE THEM EASIER TO TRANSPORT, REDUCING THE SHIPPING COSTS.



APOLO
START

MODELS
AS4005ECO | AS4006 | AS4006V | AS4008

THE APOLO START SERIES COMPRISES ROBUST LIGHTING TOWERS DESIGNED TO OPERATE CONTINUOUSLY AND WITHSTAND TEMPERATURES FROM -20°C TO 45°C. FITTED WITH A NINE-METRE MANUALLY EXTENDIBLE MAST, THE AS4006 LIGHTING TOWER IS ONE OF THE MOST VERSATILE AND COMPETITIVE ON THE MARKET.



AS4005 ECO

Has two 500W LED spotlights, with fuel consumption of 0.83 l/h.

120,000 LUMENS

6 meters MAXIMUM HEIGHT



AS4006

Can run up to 70 hours uninterrupted, more than 7 nights without refueling.

384,000 LUMENS

9 meters MAXIMUM HEIGHT



AS4006V

Incorporates a new vertical telescopic mast, activated manually.

384,000 LUMENS

9 meters MAXIMUM HEIGHT



AS4008

Offers an autonomy of 70 hours and illuminates up to 32,000 square meters.

384,000 LUMENS

9 meters MAXIMUM HEIGHT



1 Emergency stop



2 4 Stabilisers



3 Easy access for maintenance



4 Holder for 4 floodlight



5 Transport Kit

APOLO START

AS4005ECO | AS4006 | AS4006V | AS4008

		AS 4005 ECO		AS 4006		AS 4006V		AS 4008	
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
LIGHTING TOWER									
Tower Model		APL4005ECO M5	APL4005ECO M6	APL 4006 M5	APL 4006 M6	AS4006V M5	AS4006V M6	APL 4008 M5	APL 4008 M6
Power (P.R.P)	kVA/kW	4.5	5.2	5.1	6	5.1	6	6.4	7.5
Voltage	V	230	240	230	240	230	240	230	240
Weight	Kg	600	600	755	747	782	774	768	759
Fuel Type		Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Fuel tank capacity	L	114	114	114	114	114	114	114	114
Running time (only lights)	Hrs	137	130	70	65	70	65	73	63

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ALTERNATOR								
Nº Polos	2	2	4	4	4	4	4	4

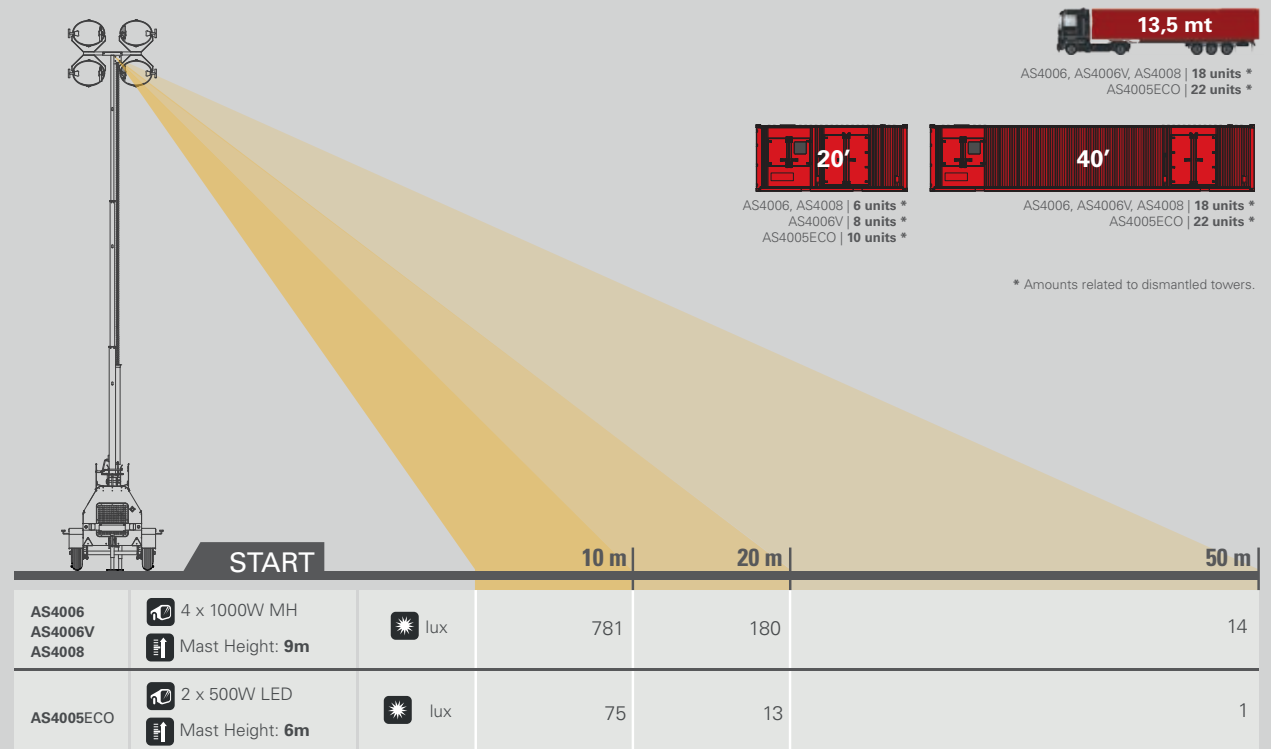
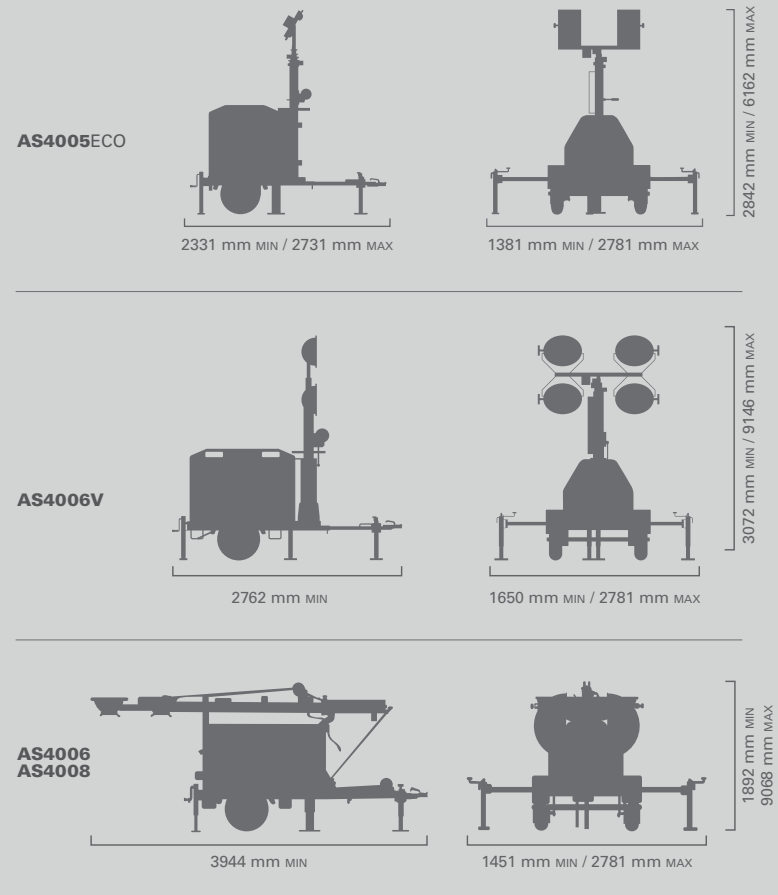
FEATURES								
Rotation	360° (manual)	360° (manual)	360° (manual)	360° (manual)	360° (manual)	360° (manual)	360° (manual)	360° (manual)
N° Lamps	2x500W	2x500W	4x1,000W	4x1,000W	4x1,000W	4x1,000W	4x1,000W	4x1,000W
Lamps type	LED	LED	Metal halide	Metal halide	Metal halide	Metal halide	Metal halide	Metal halide
Total lumens	120,000	120,000	384,000	384,000	384,000	384,000	384,000	384,000
Illuminated Surface	10,000 m²	10,000 m²	32,000 m²	32,000 m²	32,000 m²	32,000 m²	32,000 m²	32,000 m²
Auxiliary sockets	2x16 A	2x16 A	2x16 A	2x16 A	2x16 A	2x16 A	2x16 A	2x16 A
Wheels	2x165R13	2x165R13	2x165R13	2x165R13	2x165R13	2x165R13	2x165R13	2x165R13
Stabilisers	4	4	4	4	4	4	4	4
Forklift pockets	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Hinged mast	-	-	Standard	Standard	-	-	Standard	Standard

FOLDS DOWN BY HAND

For the AS4006/AS4008 models, the nine-metre high mast manually folds down to make it easier and faster to transport. Its four lights fold up, enabling 18 units to be fitted into one 40-foot container.

The four 1,000W lamps provide a total of 384,000 lumens and its mast can be rotated 360 degrees, lighting up to 32,000 square metres.

Apolo Start series, available also with LED lamps.

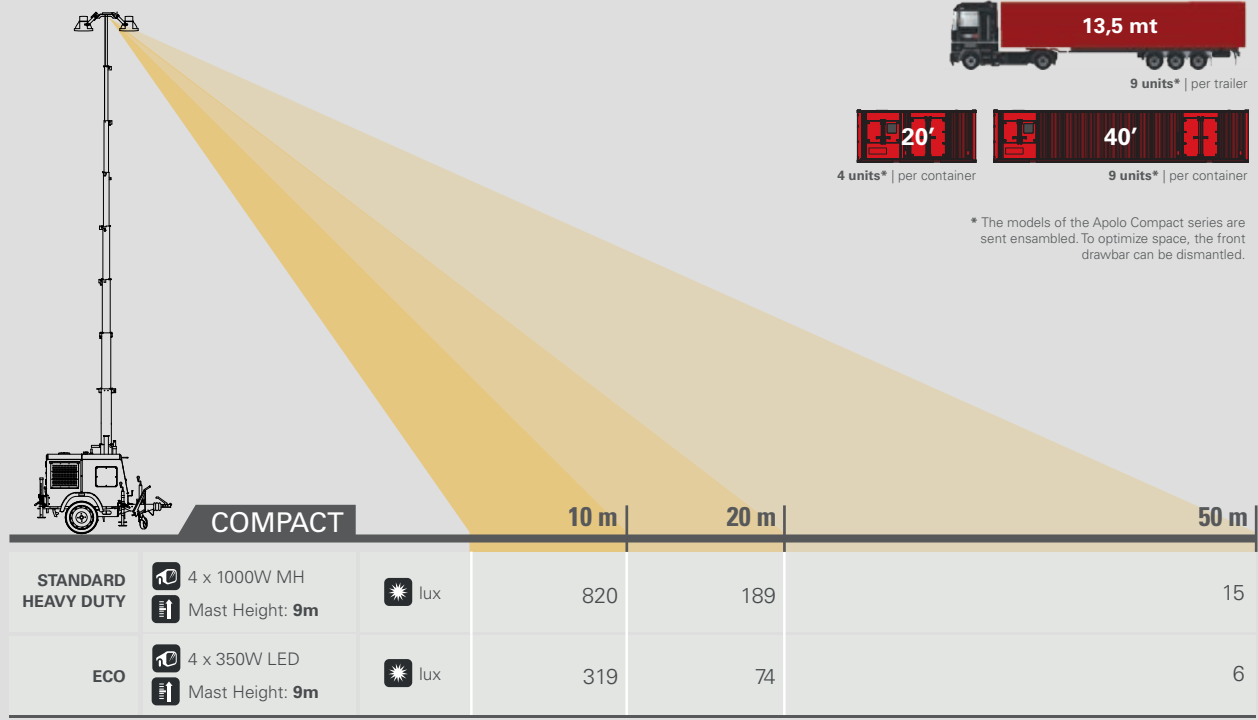
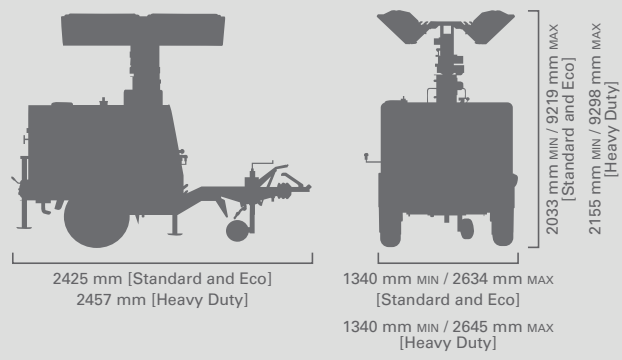


STANDARD | HEAVY DUTY | ECO

FEATURES						
Rotation	360° (manual)	360° (manual)	360° (manual)	360° (manual)	360° (manual)	360° (manual)
N° Lamps	4x1,000W	4x1,000W	4x1,000W	4x1,000W	4 x 350W	4 x 350W
Lamps type	Metal halide	Metal halide	Metal halide	Metal halide	LED	LED
Total lumens	400,000	400,000	400,000	400,000	191,820	191,820
Illuminated Surface	33,000 m²	33,000 m²	33,000 m²	33,000 m²	16,000 m²	16,000 m²
Auxiliary sockets	2 x 16 A	2x16 A	2x16 A	2x16 A	2x16 A	2x16 A
Wheels	2 X 165R13	2x165R13	2x165R13	2x165R13	2x165R13	2x165R13
Stabilisers	4	4	4	4	4	4
Forklift pockets	Standard	Standard	Standard	Standard	Standard	Standard
Reinforced stabilisers and Jockey wheel	-	-	Standard	Standard	-	-

The Compact Heavy Duty lighting tower is fitted with jacks that can be used to stabilise the tower on irregular ground. It also has a reinforced chassis and jockey wheels, a hoisting hook and rear lifting points for transport by forklift truck.

Apolo Compact ECO, only available with LED lamps



APOLO
BOX

MODEL
BOX

THE NEW LIGHTING TOWERS OF THE APOLO BOX RANGE ARE CHARACTERISED BY THEIR SIZE AND SQUARE SHAPE; TWO FEATURES THAT MAKE THEM QUICKER AND EASIER TO MOVE. **THEY HAVE 126-HOUR AUTONOMY AND ARE FITTED WITH FOUR 1,000W LAMPS CAPABLE OF ILLUMINATING UP TO 33,000 SQUARE METRES.** ITS HYDRAULIC MAST ALLOWS A 360° ROTATION AND EXTENDS UP TO 9 METERS HIGH IN LESS THAN 25 SECONDS.





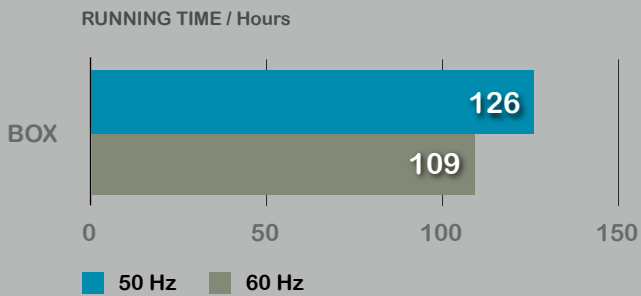
9 meters
Maximum Height



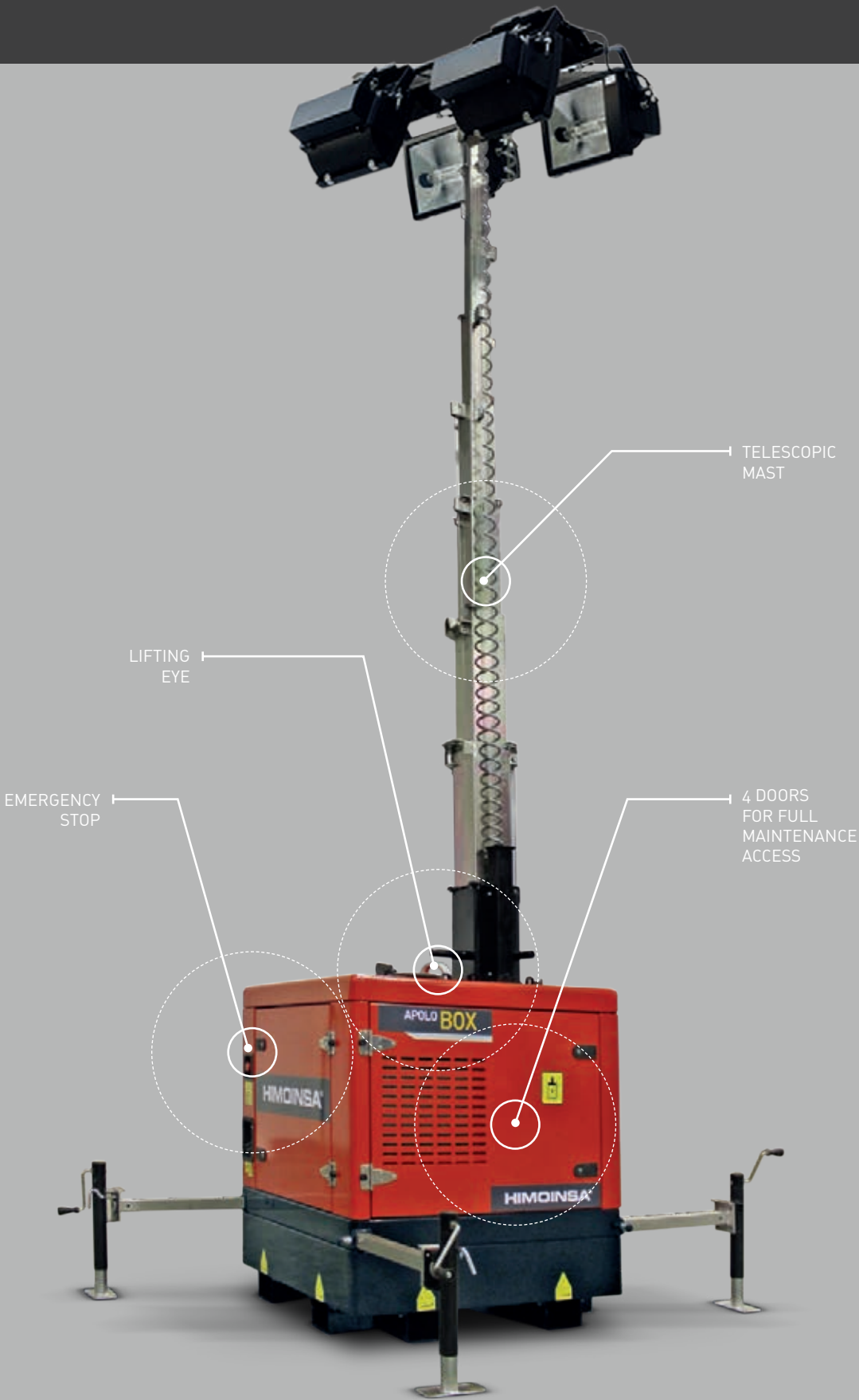
400,000
Lumens



360°
Rotation



- 1 Mast with holder for 4 floodlight (standard)
- 2 External fuel filler
- 3 Emergency stop
- 4 Metal door to improve control panel IP level
- 5 Auxiliary Input and Output Sockets



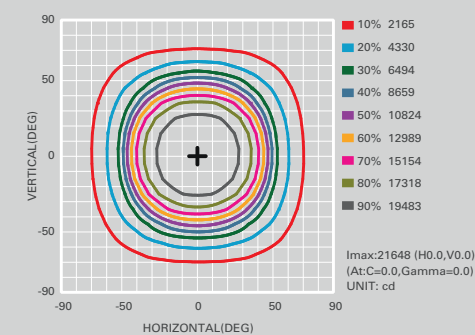
APOLO
BOX
BOX

		BOX	
		50 Hz	60 Hz
LIGHTING TOWER			
Tower Model		APL BOX M5	APL BOX M6
Power (P.R.P.)	kVA/kW	6.4	7.2
Voltage	V	230	240
Weight	Kg	950	950
Fuel Type		Diesel	Diesel
Fuel tank capacity	L	200	200
Running time (only lights)	Hrs	126	109
ENGINE			
Model		YANMAR - 3TNV76 - GGEH	YANMAR - 3TNV76 - GGEH
N° Cylinders and disposition		3L	3L
Aspiration		Natural	Natural
Rated speed		1,500 rpm	1,800 rpm
Cooling system		Liquid coolant	Liquid coolant
Fuel consumption (only lights)	l/hr	1.59	1.84
Speed governor		Mechanical	Mechanical
ALTERNATOR			
N° Poles		4	4
FEATURES			
Rotation		360° (manual)	360° (manual)
N° Lamps		4x1,000W	4x1,000W
Lamps type		Metal halide	Metal halide
Total lumens		400,000	400,000
Illuminated Surface		33,000 m²	33,000 m²
Auxiliary input socket		1x32 A	1x32 A
Auxiliary output sockets		2x16 A	2x16 A
Stabilisers		4	4
Forklift pockets		Standard	Standard

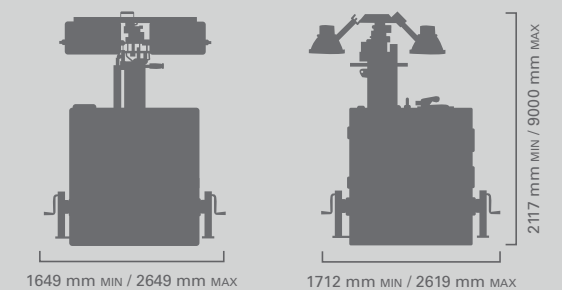
REDUCED SIZE THAT MAXIMISES TRANSPORTABILITY

Up to 20 units can be transported in a 40-foot container, making it a star product in the construction, leisure, events, and emergency sectors.

A LED version of the Apolo Box series is also available, fitted with four 350W lamps, cutting fuel consumption and therefore saving energy.



Apolo BOX, available with LED lamps.



APOLO

KIT TOWER

THE KIT TOWER SERIES INCLUDES FOUR MODELS OF LIGHTING TOWER **WITHOUT GENERATOR SET.** THE MINI KIT OR KT1000 TOWER HAS BEEN DESIGNED WITH A STAND-ALONE TOWER KIT THAT CAN BE COUPLED TO A SINGLE-PHASE GENERATOR SET WITH A MINIMUM POWER RATING OF **5.5KW.** THE MINI KIT TOWER HAS A LIGHTING CAPACITY OF 433,000 LUMENS, CAPABLE OF ILLUMINATING UP TO 36,000 SQUARE METRES.





9 meters
Maximum Height

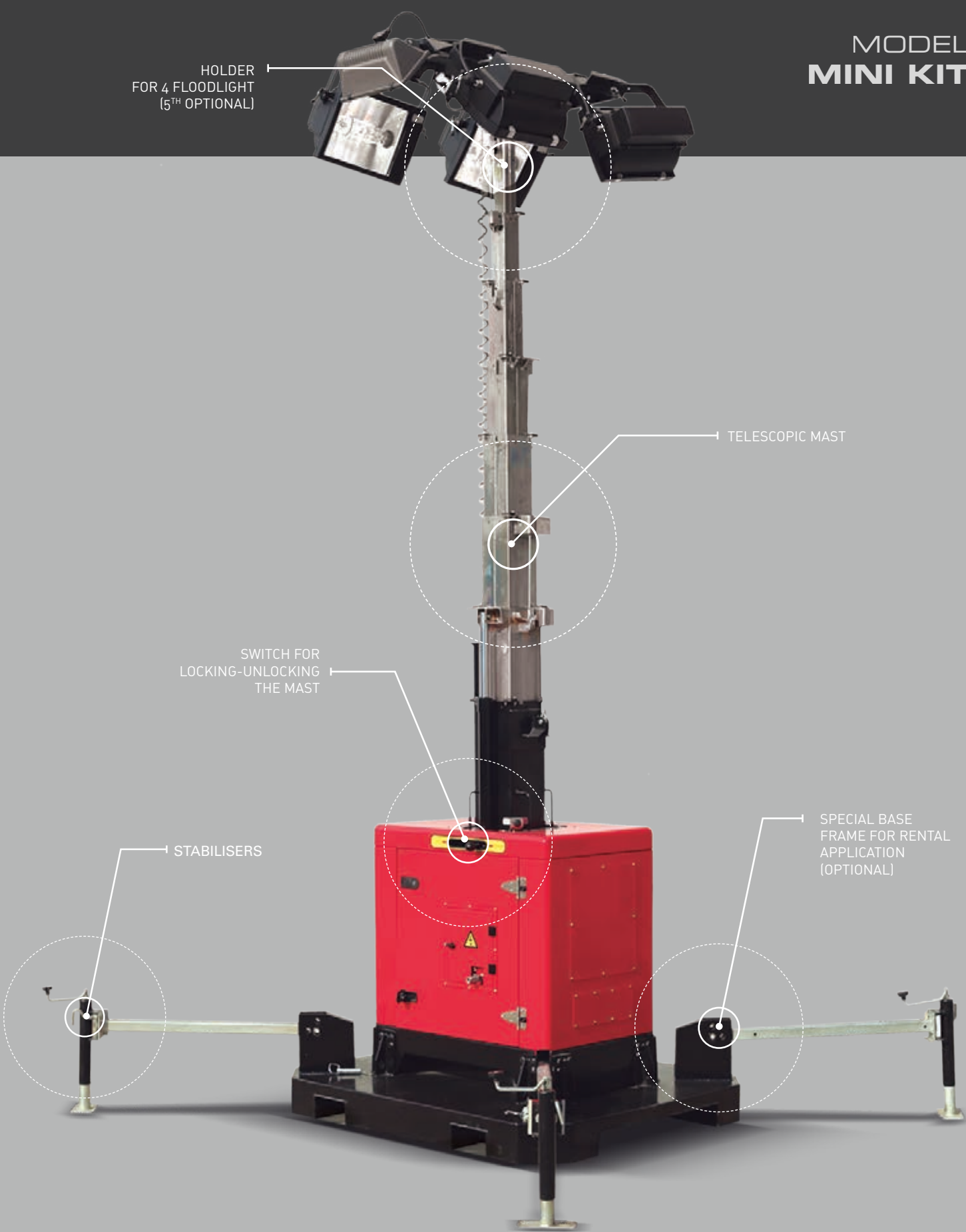


433,000
Lumens



360°
Rotation

- | | |
|---|---|
| 1 | 2 auxiliary power sockets |
| 2 | Holder for 4 floodlight (standard) |
| 3 | Mast control panel |
| 4 | Special base frame for rental application |



APOLO

KIT TOWER

MINI KIT

MINI KIT		
50 Hz / 60 Hz		
LIGHTING TOWER		
Tower Model	MINI KIT M5/M6	
Voltage (2P + T)	V	200 - 250
Weight	Kg	530
CANOPY		
Battery	12V-60AH-600CCA	
Battery Switch	Standard	
Battery Charger	Standard	
Hydraulic Pump	12VDC	
Lifting eye	4	

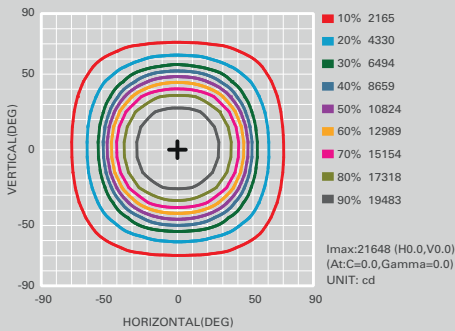
FEATURES	
Rotation	360° (manual)
N° Lamps	4MH x 1000W (+ 1HD x 1500W optional)
Lamps type	4x Metal Halide (+ 1x Halogen optional)
Total lumens	400,000 (+ 33,000 optional)
Illuminated Surface	33,000 m² (36,000 m² optional)
Auxiliary sockets	2 x 16 A
Special base frame	Optional
Stabilisers *	4
Forklift pockets *	Standard

* Stabilisers and forklift pockets included with special base frame

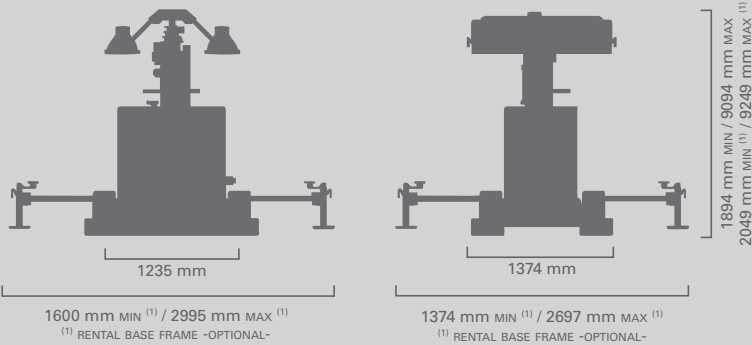
STABILISING BASE







Its design offers as an option a stabilising base for use on irregular ground; commonplace in the construction and mining sectors. The tower is easily transported and adaptable to any work space thanks to its small size.

It is fitted with a hydraulic mast, and four 1,000W and one 1,500W lamps. A LED version is also available.

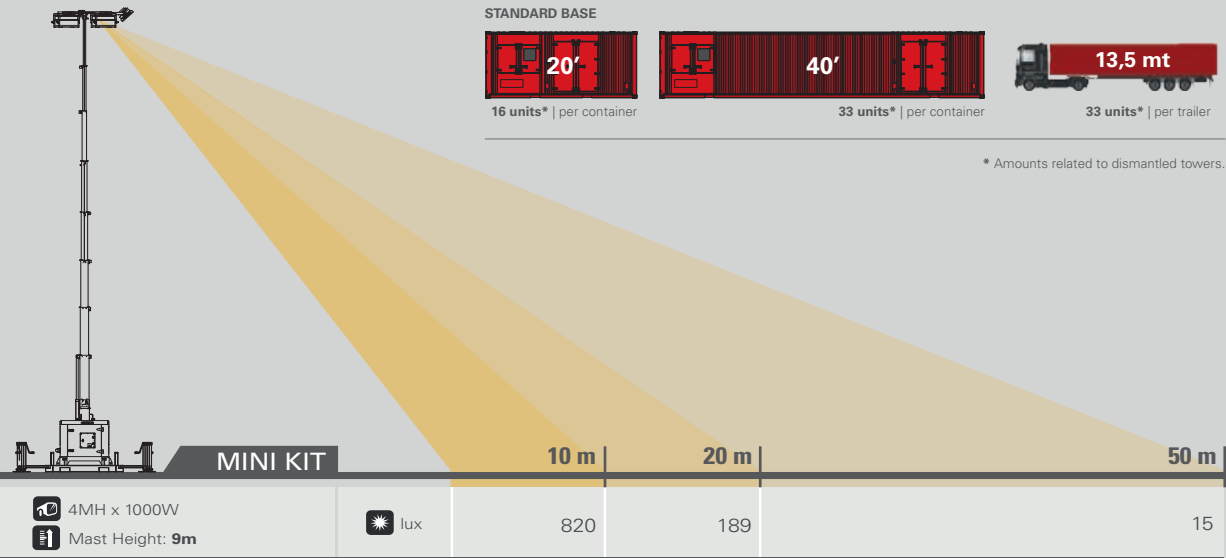


Kit Tower series, available with LED lamps.



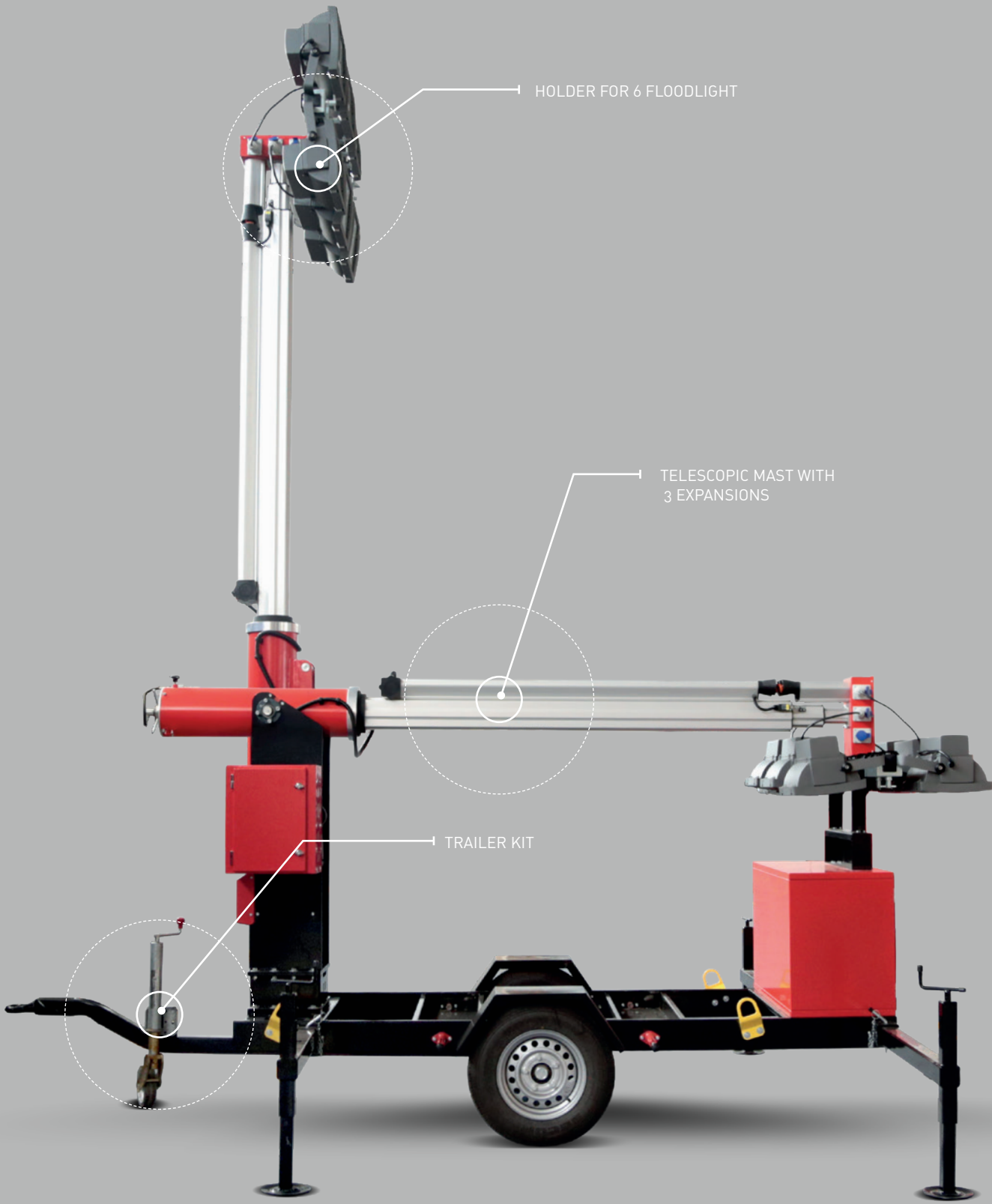
RENTAL BASE		
 10 units* per container	 22 units* per container	 13,5 mt 22 units* per trailer
STANDARD BASE		
 16 units* per container	 33 units* per container	 13,5 mt 33 units* per trailer

* Amounts related to dismantled towers.



APOLO
KIT TOWER

MODELS
KT8000 | KT12000



THE KT8000 AND KT12000 LIGHTING TOWERS CONSIST OF A MOBILE, **AUTOMATICALLY EXTENDIBLE MAST AND DIESEL GENERATOR KIT**. THEY HAVE A NINE-METRE HIGH MAST AND OFFER 360° HAND-OPERATED ORIENTATION.



9 meters
Maximum Height



198,000
Lumens
KT8000
Quartz iodine



1,320,000
Lumens
KT12000
Metal Halide



360°
Rotation

- 1 Watertight control and maneuvering box
- 2 Holder for 6 floodlight
- 3 Extensible levelling feet
- 4 Rear cabinet
- 5 Trailer kit

KT8000

Thanks to its nine-metre high mast and six 1,500W lamps, the tower has a lighting capacity of 200,000 lumens, covering a surface area of 16,500 square metres.

KT12000

With six 2,000W halogen lamps, the tower has a lighting capacity of 1,320,000 lumens, covering a surface area of 110,000 square meters.



APOLO

KIT TOWER

KT8000 | KT12000

	KT8000	KT12000
--	--------	---------

50 Hz / 60 Hz

50 Hz / 60 Hz

LIGHTING TOWER

Tower Model	KT8000T5/T6		KT12000T5/T6	
Voltage (3P + N +T)	V	440 - 220		440 - 220
Weight	Kg	970		1345

WATERPROOF CONTROL AND MANEUVERING BOX

Control press buttons protection, panel and connection hose with genset	Standard		Standard	
Protection level	IP66		IP66	
Maneuver press buttons	2 (1xrising, 1xdescending)		2 (1xrising, 1xdescending)	

FEATURES

Rotation	360° (manual)		360° (manual)	
N° Lamps	6 x 1500W		6 x 2000W	
Lamps type	Quartz iodine		Metal Halide	
Total lumens	198,000		1,320,000	
Illuminated Surface	16,500 m²		110,000 m²	
Wheels	2x185R14		2x185R14	
Stabilisers	4		4	
Lifting eyes	4		4	

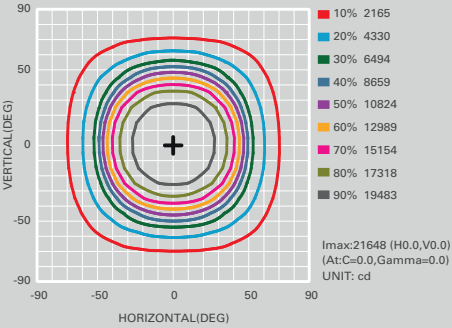
GENERATOR SET

Canopy (Standard FuelTank: 100L)	B10		B10	
Trailer kit fixation	Safety bolts		Safety bolts	

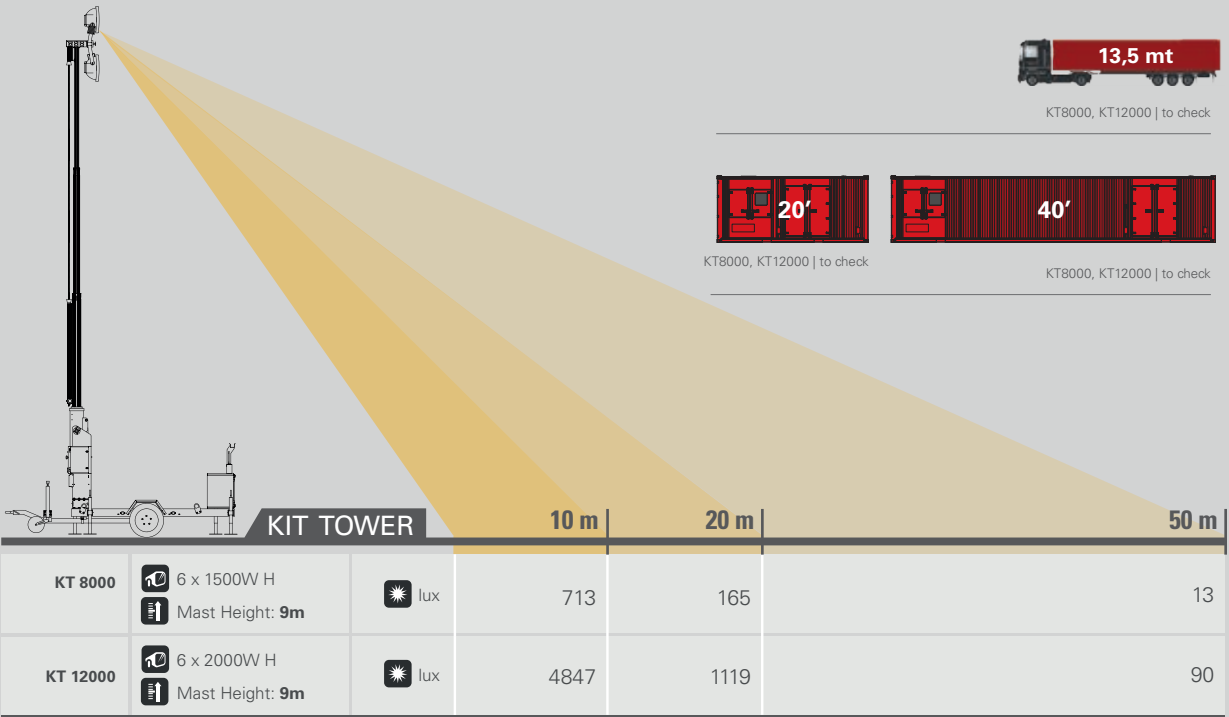
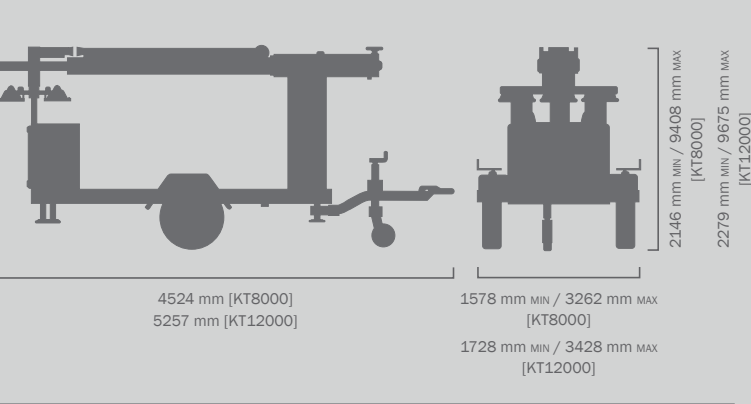
MOBILE KIT

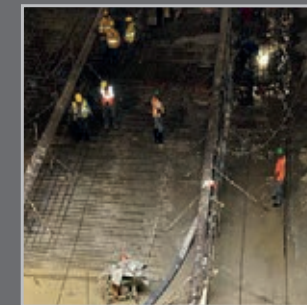
The fixed axle, articulated shaft and retractable jockey wheel make them easier to transport around work sites, mainly in construction and mining environments.

HIMOINSA generator sets coupled to the KT8000 and KT12000 towers are fitted with the soundproofed B10 canopy, ensuring they are extremely quiet.

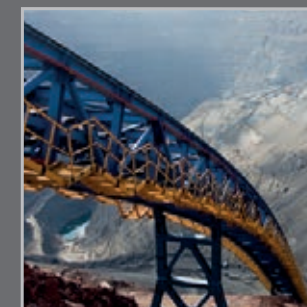


Kit Tower series, available with LED lamps.





Construction work for bridges, roads and underground car parks requires illumination 24 hours a day. HIMOINSA lighting towers are a safe and high quality solution for spaces where daylight does not reach. A full range of compact, robust and resilient equipment for construction market.



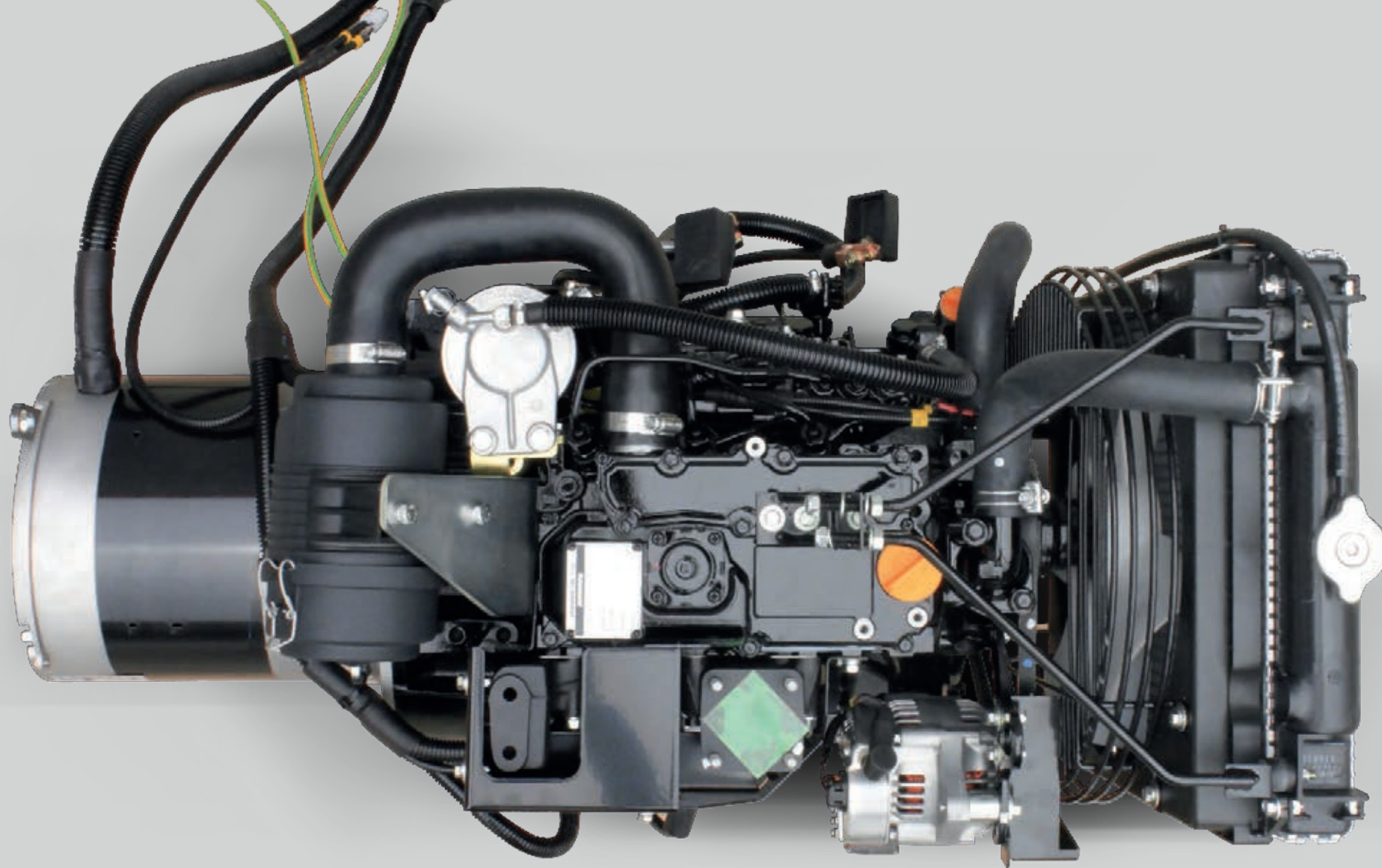
Industries such as mining work incessantly. Therefore, continual, uninterrupted illumination is required, even in remote areas where there is no access to conventional lighting systems. Built to withstand erosion and extreme temperatures, HIMOINSA lighting towers are the best solution for your mining projects.



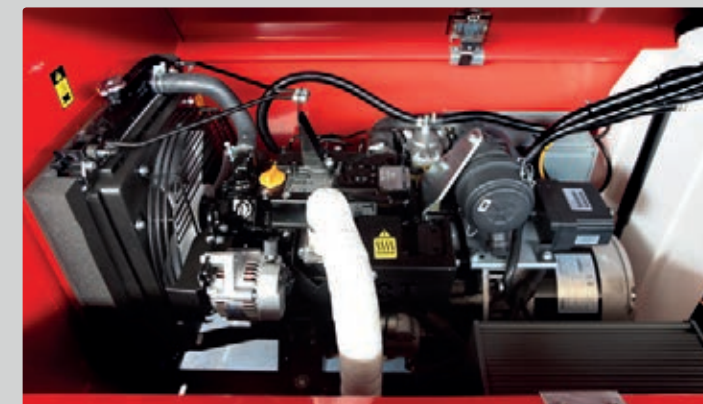
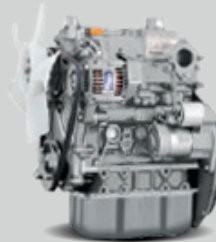
Mobile and stand-alone towers with an enormous lighting capacity. HIMOINSA lighting towers provide illumination for large sporting and musical events across the globe. A mobile, powerful, generator-run lighting source that is towable and easy to transport. Its high autonomy and low consumption ensure any event will be profitable.

ILLUMINATING THE WORLD

The Panama Canal expansion works, major sporting events in Abu Dhabi, the construction of the high speed train link in Spain and the underground railway in Poland are some of the projects that have been illuminated with HIMOINSA lighting towers.



The AS4006 / AS4006V towers are equipped with a YANMAR 3TNM72 liquid coolant engine, with between 6.6 and 7.8 kW of power at 50 and 60Hz, respectively.



The AS4006 / AS4006V / AS4008 lighting towers were designed with two folding side doors in the upper section to provide access for engine and alternator maintenance.



POWERED BY **YANMAR**

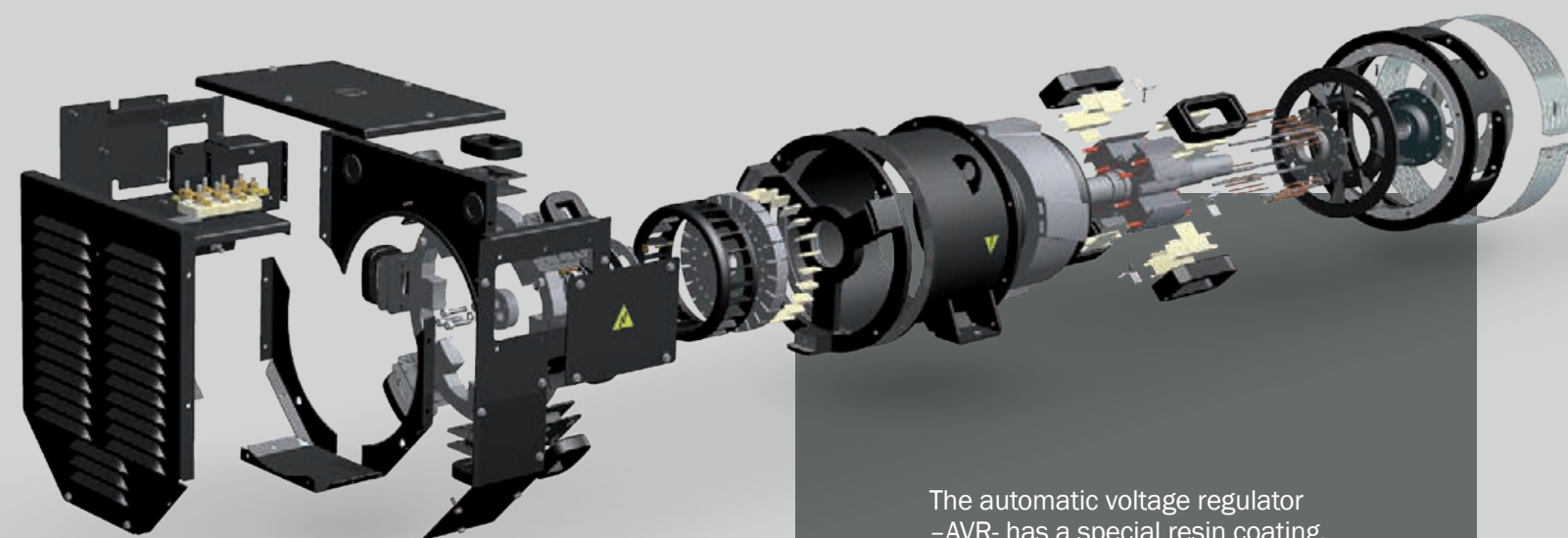
Lighting towers in the APOLO range are equipped with Yanmar engines. Five engine models are available ranging from 6 to 10 kW.

High Performance and Low Emissions

The secret to that power density lies in the new cylinder body. Yanmar engines offer high combustion performance and low emissions, as they comply with EPA and Tier 4 standards.

Low Noise & Vibration

The ladder frame structure of the cylinder block achieved drastic reductions of noise and vibration from the engine body.



The automatic voltage regulator -AVR- has a special resin coating, which means it can be used under any operating conditions.

M7T

CONTROL PANEL



AS A VERTICAL MANUFACTURER, HIMOINSA CAN PRODUCE VERSATILE AND INTUITIVE CONTROLLERS THAT SIMPLIFY THE USE AND CONTROL OF THE DIESEL GENERATORS AND PROVIDE ADDED VALUE, MAKING IT EASIER TO ADAPT TO SPECIFIC CUSTOMER REQUIREMENTS AND ENSURING ALL SPARE PARTS ARE EASILY AVAILABLE.

THE M7T CONTROLLER, BUILT INTO ALL LIGHTING TOWERS IN THE APOLO RANGE, MONITORS AND CONTROLS THE GENERATOR SET THAT SUPPLIES POWER TO THE LIGHTING TOWER.

M7TCONTROLLER

MULTILINGUAL CONTROLLER

Single-phase voltage
Current (A)
Frequency (Hz)
Active & aparent power (kW, kVA)
Oil pressure and coolant temperature (kPa, °C)
Battery voltage & battery charging alternator voltage (V)
Engine speed (rpm)

ENGINE ALARMS

High coolant temperature
Low oil pressure
Battery charging alternator alarm
Start failure
Fuel storage
Overspeed
Underspeed
Low battery voltage
High coolant temperature (analog)
Low oil pressure (analog)
Low fuel level
Unexpected shutdown
Stop failure
Emergency stop

GENERATOR ALARMS

Over-load
Overvoltage
Undervoltage
Overfrequency
Underfrequency
Overamperage
Inverse power
Emergency stop

LAMP CONTROL AND PROTECTION

Sequential on and off
Independent outputs for switching each lamp on and off
Hot restart protection

- 1 The display enters in low consumption mode (off the backlighting) after 10 minutes without any detection on the keyboard.
- 2 Buttons allow the user to command and program the generator set.
- 3 START/STOP engine push button (manual mode only)
- 4 M7T controller provides a set of alarms whose working mode can be configured to perform actions or to be shown in the display.
- 5 Manual, Automatic or Shutdown mode



The M7T controller monitors and indicates levels of pressure, frequency, power and other engine alerts such as the fuel reserve, oil pressure and water temperature.

Interaction with the user is therefore simple and comprehensive, making the lighting tower easy to start and use.

The control switches allow the mast to be moved using two simple buttons. The upper button raises the hydraulic mast to a maximum height of 9 metres.

The lower button and folds down the mast. The lower magneto-thermic switches turn the lights on and off. There is also an emergency stop button.

TECHNICAL DATA APOLO RANGE



		AS4005ECO M5	AS4006V M5	AS4006 M5	AS4008 M5	COMPACT STANDARD M5	COMPACT HEAVY DUTY M5	COMPACT ECO M5	BOX M5	MINI KIT M5	KT8000 T5	KT12000 T5
POWER (PR.P)	kVA	4,5	5,1	5,1	6,4	6,4	6,4	4,5	6,4	-	-	-
VOLTAGE	V	230	230	230	230	230	230	230	230	200-250	440-220	440-220
MAXIMUM DIMENSIONS,WORKING MODE	(L x W x H)	2731 x 2781 x 6162	3162 x 2781 x 9147	3162 x 2781 x 9068	3162 x 2781 x 9068	2425 x 2634 x 9219	2457 x 2645 x 9298	2425 x 2634 x 9219	2619 x 2649 x 9000	1374 x 1235 x 9094 ⁽¹⁾	4254 x 3262 x 9408	4715 x 3428 x 9675
MINIMUM DIMENSIONS,TRANSPORT MODE ⁽²⁾	(L x W x H)	2331 x 1381 x 2340	2762 x 1425 x 2260	3544 x 1424 x 1892	3544 x 1424 x 1892	2425 x 1340 x 2033	2457 x 1340 x 2155	2425 x 1340 x 2033	1120 x 1150 x 2082	1000 x 650 x 1894 ⁽¹⁾	4254 x 1578 x 2146	4715 x 1728 x 2279
WEIGHT	Kg	600	782	755	768	911	911	749	950	530	970	1345
FUEL TANK CAPACITY	L	114	114	114	114	100	100	100	200	-	-	-
TANK REFILLING		Internal	Internal	Internal	Internal	External	External	External	External	-	-	-
RUNNING TIME (ONLY LIGHTS)	Hr	137	70	70	73	63	63	166	126	-	-	-
NOISE LEVEL (POWER- AT 7M)		104LWA-78dB(A)	99LWA-74dB(A)	99LWA-74dB(A)	94LWA-69dB(A)	90LWA-65dB(A)	90LWA-65dB(A)	90LWA-65dB(A)	91LWA-66dB(A)	-	-	-
ENGINE												
MODEL		YANMAR - L100N5	YANMAR - 3TNM72-GHFCL	YANMAR - 3TNM72-GHFCL	YANMAR - 3TNV76	YANMAR - 3TNV76 - GGEH	YANMAR - 3TNV76 - GGEH	YANMAR - L100N5	YANMAR - 3TNV76 - GGEH	-	-	-
CYLINDERS		1L	3L	3L	3L	3L	3L	1L	3L	-	-	-
ASPIRATION		Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	-	-	-
RATED SPEED	rpm	3000	1500	1500	1500	1500	1500	3000	1500	-	-	-
COOLING SYSTEM		Air	Liquid Coolant	Liquid Coolant	Liquid Coolant	Liquid Coolant	Liquid Coolant	Air	Liquid Coolant	-	-	-
FUEL CONSUMPTION (ONLY LIGHTS)	L/Hr	0.83	1,64	1,64	1,57	1,59	1,59	0,4 - 0,7	1,59	-	-	-
SPEED GOVERNOR		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	-	-	-
ALTERNATOR												
POLES	n°	2	4	4	4	4	4	2	4	-	-	-
TYPE		Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	-	-	-
VOLTAGE REGULATOR		Capacitor	Capacitor	Capacitor	Capacitor	AVR (electronic)	AVR (electronic)	AVR (electronic)	AVR (electronic)	-	-	-
INSULATION		Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	-	-	-
BEARINGS		1	1	1	1	1	1	1	1	-	-	-
COUPLING		SAE J609 B/6	SAE5-6.5"	SAE5-6.5"	SAE5-7.5"	SAE5-7.5"	SAE5-7.5"	SAE J609 B/6	SAE5-7.5"	-	-	-
MAST												
MAST TYPE		Manual	Manual	Manual	Manual	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
MAST SECTIONS		4	3	3	3	9	9	9	9	9	3	3
UPRAISING TIME		-	-	-	-	13/25 sec	13/25 sec	13/25 sec	13/25 sec	13/25 sec	-	-
ROTATION		360° manual	360° manual	360° manual	360° manual	360° manual	360° manual	360° manual	360° manual	360° manual	360° manual	360° manual
DOUBLE SAFETY BLOCK		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
LAMPS	n°	2 x 500 W	4 x 1000 W	4 x 1000 W	4 x 1000 W	4 x 1000 W	4 x 1000 W	4 x 350 W	4 x 1000 W	4 MH 1000 W (+ 1 HD 1500 W optional)	6 x 1500 W	6 x 2000 W
LAMP TYPE		LED	Metal Halide	Metal halide	Metal halide	Metal halide	Metal halide	LED	Metal halide	4x Metal Halide (+ 1x Halogen optional)	Quartz iodine	Metal Halide
TOTAL LUMENS	lm	2 x 60,000 = 120,000	4 x 96,000 = 384,000	4 x 96,000 = 384,000	4 x 96,000 = 384,000	4 x 100,000 = 400,000	4 x 100,000 = 400,000	4 x 47,955 = 191,820	4 x 100,000 = 400,000	4x100,000 = 400,000 (+1x33,000 optional = 433,000)	6 x 33,000 = 198,000	6 x 220,000 = 1,320,000
REMAINING POWER		3,5 kW	1,1 kW	1,1 kW	2,4 kW	2,3 kW	2,3 kW	3,06 kW	2,3 kW	-	-	-
CANOPY												
SOUNDPROOF CANOPY		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	-	-	-
LIQUID RETENTION BASIN (ENGINE & TANK)		-	-	-	-	120%	120%	120%	-	-	-	-
AUXILIARY SOCKETS		2 x 16 A	2 x 16 A	2 x 16 A	2 x 16 A	2 x 16 A	2 x 16 A	2 x 16 A	2 x 16 A	2 x 16 A	-	-
AUXILIARY INPUT SUPPLY SOCKET		-	1 x 32 A	1 x 32 A	1 x 32 A	1 x 32 A	1 x 32 A	1 x 32 A	1 x 32 A	1 x 32 A	-	-
LIFTING EYE		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
CHASSIS												
CHASSIS TRACTION KIT		Standard	Standard	Standard	Standard	Standard	Standard	Standard	-	-	Standard	Standard
ROAD LIGHT AND REFLECTORS		Reflectors (rear light kit optional)	Reflectors (rear light kit optional)	Reflectors (rear light kit optional)	Reflectors(rear light kit optional)	Standard	Standard	Standard	-	-	Standard	Standard
WHEELS		2 x 165R13	2 x 165R13	2 x 165R13	2 x 165R13	2 x 165R13	2 x 165R13	2 x 165R13	-	-	2 x 185R14	2 x 185R14
STABILISERS		4	4	4	4	4	4	4	4	4 (included with special base frame)	4	4
FORKLIFT POCKETS		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Included with special base frame	-	-
CONTROL PANEL												
CONTROL PANEL AND PROTECTION CONTROLLER		M7T manual controller	M7T manual controller	M7T manual controller	M7T manual controller	M7T manual controller	M7T manual controller	M7T manual controller	M7T manual controller	-	-	-
THERMAL MAGNETIC SWITCHES FOR THE FLOODLIGHT AND AUXILIARY SOCKETS		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
MANEUVERING PUSH BUTTONS		-	-	-	-	2 (1 rising, 1 descending)	2 (1 rising, 1 descending)	2 (1 rising, 1 descending)	2 (1 rising, 1 descending)	2 (1 rising, 1 descending)	2 (1 rising, 1 descending)	2 (1 rising, 1 descending)

⁽¹⁾ DIMENSIONS WITH RENTAL BASE OPTION
MAXIMUM: 2995 x 2697 x 9249 | MINIMUM: 1590 x 1300 x 2049

⁽²⁾ DIMENSIONS CORRESPOND TO THE TOWERS MOUNTED WITHOUT FLOODLIGHTS, EXCEPT ON THE COMPACT SERIES, WHERE THE MEASURES OF THE FLOODLIGHTS ARE INCLUDED

TECHNICAL DATA APOLO RANGE



MODEL		AS4005ECO M6	AS4006V M6	AS4006 M6	AS4008 M6	COMPACT STANDARD M6	COMPACT HEAVY DUTY M6	COMPACT ECO M6	BOX M6	MINI KIT M6	KT8000 T6	KT12000 T6
POWER (PR.P)	kVA	5,2	6	6	7,5	7,2	7,2	5,2	7,2	-	-	-
VOLTAGE	V	240	240	240	240	240	240	240	240	200-250	440-220	440-220
MAXIMUM DIMENSIONS, WORKING MODE	(L x W x H)	2731 x 2781 x 6162	3162 x 2781 x 9147	3162 x 2781 x 9068	3162 x 2781 x 9068	2425 x 2634 x 9219	2457 x 2645 x 9298	2425 x 2634 x 9219	2619 x 2649 x 9000	1374 x 1235 x 9094 ⁽¹⁾	4254 x 3262 x 9408	4715 x 3428 x 9675
MINIMUM DIMENSIONS, TRANSPORT MODE ⁽²⁾	(L x W x H)	2331 x 1381 x 2340	2762 x 1425 x 2260	3544 x 1424 x 1892	3544 x 1424 x 1892	2425 x 1340 x 2033	2457 x 1340 x 2155	2425 x 1340 x 2033	1120 x 1150 x 2082	1000 x 650 x 1894 ⁽¹⁾	4254 x 1578 x 2146	4715 x 1728 x 2279
WEIGHT	Kg	600	774	747	759	911	911	749	950	530	970	1345
FUEL TANK CAPACITY	L	114	114	114	114	100	100	100	200	-	-	-
TANK REFILLING		Internal	Internal	Internal	Internal	External	External	External	External	-	-	-
RUNNING TIME (ONLY LIGHTS)	Hr	130	65	65	63	54	54	166	109	-	-	-
NOISE LEVEL (POWER- AT 7M)		106LWA-80dB(A)	101LWA-76dB(A)	101LWA-76dB(A)	94LWA-69dB(A)	92LWA-67dB(A)	92LWA-67dB(A)	92LWA-67dB(A)	93LWA-68dB(A)	-	-	-
ENGINE												
MODEL		YANMAR - L100N6	YANMAR - 3TNM72-GHFCL	YANMAR - 3TNM72-GHFCL	YANMAR - 3TNV76	YANMAR - 3TNV76 - GGEH	YANMAR - 3TNV76 - GGEH	YANMAR - L100N6	YANMAR - 3TNV76 - GGEH	-	-	-
CYLINDERS		1L	3L	3L	3L	3L	3L	1L	3L	-	-	-
ASPIRATION		Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	-	-	-
RATED SPEED	rpm	3600	1800	1800	1800	1800	1800	3600	1800	-	-	-
COOLING SYSTEM		Air	Liquid Coolant	Liquid Coolant	Liquid Coolant	Liquid Coolant	Liquid Coolant	Air	Liquid Coolant	-	-	-
FUEL CONSUMPTION (ONLY LIGHTS)	L/Hr	0.7 - 0.9	1.75	1.75	1.81	1.84	1.84	0.4 - 0.7	1.84	-	-	-
SPEED GOVERNOR		Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	-	-	-
ALTERNATOR												
POLES	n°	2	4	4	4	4	4	2	4	-	-	-
TYPE		Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	Brushless	-	-	-
VOLTAGE REGULATOR		Capacitor	Capacitor	Capacitor	Capacitor	AVR (electronic)	AVR (electronic)	AVR (electronic)	AVR (electronic)	-	-	-
INSULATION		Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	-	-	-
BEARINGS		1	1	1	1	1	1	1	1	-	-	-
COUPLING		SAE J609 B/6	SAE5-6.5"	SAE5-6.5"	SAE5-7.5"	SAE5-7.5"	SAE5-7.5"	SAE J609 B/6	SAE5-7.5"	-	-	-
MAST												
MAST TYPE		Manual	Manual	Manual	Manual	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
MAST SECTIONS		4	3	3	3	9	9	9	9	9	3	3
UPRAISING TIME		-	-	-	-	13/25 sec	13/25 sec	13/25 sec	13/25 sec	13/25 sec	-	-
ROTATION		360° manual	360° manual	360° manual	360° manual	360° manual	360° manual	360° manual	360° manual	360° manual	360° manual	360° manual
DOUBLE SAFETY BLOCK		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
LAMPS	n°	2 x 500 W	4 x 1000 W	4 x 1000 W	4 x 1000 W	4 x 1000 W	4 x 1000 W	4 x 350 W	4 x 1000 W	4 MH 1000 W (+ 1 HD 1500 W optional)	6 x 1500 W	6 x 2000 W
LAMP TYPE		LED	Metal Halide	Metal Halide	Metal halide	Metal halide	Metal halide	LED	Metal halide	4x Metal Halide (+ 1x Halogen optional)	Quartz iodine	Metal Halide
TOTAL LUMENS	lm	2 x 60,000 = 120,000	4 x 96,000 = 384,000	4 x 96,000 = 384,000	4 x 96,000 = 384,000	4 x 100,000 = 400,000	4 x 100,000 = 400,000	4 x 47,955 = 191,820	4 x 100,000 = 400,000	4x100,000 = 400,000 (+1x33,000 optional = 433,000)	6 x 33,000 = 198,000	6 x 220,000 = 1,320,000
REMAINING POWER		3.5 kW	2 kW	2 kW	3.5 kW	3.2 kW	3.2 kW	3.76 kW	3.2 kW	-	-	-
CANOPY												
SOUNDPROOF CANOPY		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	-	-	-
LIQUID RETENTION BASIN (ENGINE & TANK)		-	-	-	-	120%	120%	120%	-	-	-	-
AUXILIARY SOCKETS		2 x 16 A	2 x 16 A	2 x 16 A	2 x 16 A	2 x 16 A	2 x 16 A	2 x 16 A	2 x 16 A	2 x 16 A	-	-
AUXILIARY INPUT SUPPLY SOCKET		-	1 x 32 A	1 x 32 A	1 x 32 A	1 x 32 A	1 x 32 A	1 x 32 A	1 x 32 A	1 x 32 A	-	-
LIFTING EYE		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
CHASSIS												
CHASSIS TRACTION KIT		Standard	Standard	Standard	Standard	Standard	Standard	Standard	-	-	Standard	Standard
ROAD LIGHT AND REFLECTORS		Reflectors (rear light kit optional)	Reflectors (rear light kit optional)	Reflectors (rear light kit optional)	Reflectors (rear light kit optional)	Standard	Standard	Standard	-	-	Standard	Standard
WHEELS		2 x 165R13	2 x 165R13	2 x 165R13	2 x 165R13	2 x 165R13	2 x 165R13	2 x 165R13	-	-	2 x 185R14	2 x 185R14
STABILISERS		4	4	4	4	4	4	4	4	4 (included with special base frame)	4	4
FORKLIFT POCKETS		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Included with special base frame	-	-
CONTROL PANEL												
CONTROL PANEL AND PROTECTION CONTROLLER		M7T manual controller	M7T manual controller	M7T manual controller	M7T manual controller	M7T manual controller	M7T manual controller	M7T manual controller	M7T manual controller	-	-	-
THERMAL MAGNETIC SWITCHES FOR THE FLOODLIGHT AND AUXILIARY SOCKETS		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
MANEUVERING PUSH BUTTONS		-	-	-	-	2 (1 rising, 1 descending)	2 (1 rising, 1 descending)	2 (1 rising, 1 descending)	2 (1 rising, 1 descending)	2 (1 rising, 1 descending)	2 (1 rising, 1 descending)	2 (1 rising, 1 descending)

⁽¹⁾ DIMENSIONS WITH RENTAL BASE OPTION
MAXIMUM: 2995 x 2697 x 9249 | MINIMUM: 1590 x 1300 x 2049

⁽²⁾ DIMENSIONS CORRESPOND TO THE TOWERS MOUNTED WITHOUT FLOODLIGHTS, EXCEPT ON THE COMPACT SERIES, WHERE THE MEASURES OF THE FLOODLIGHTS ARE INCLUDED



SMART CONTROL

Smart warehousing centres where spare parts can be located and picked automatically



FLEET MANAGER

Used to locate and determine the condition of leased assets



TECHNICAL SERVICE

Comprehensive technical support through qualified professionals and authorized technical centres.



24/7 ONLINE SPARES

Offers a 24-hour service to purchase spare parts on line

SERVICE

HIMOINSA provides its customers with a fast and efficient technical service through a technical support network across the entire market. Its spares department supplies spare parts for maintaining and repairing lighting towers. HIMOINSA has a centralised system for supplying original spare parts for each of the lighting towers components to customers through its distribution centres around the world.

Personalised care.

The company's technical experts provide customers with a plethora of solutions over a product's life.

Quality guarantees.

The after-sales service guarantees any investment in new equipment is available through its extensive network of technical support, distributors and approved technicians.



HIMOINSA®
THE ENERGY



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