



Standard Model Scope

The Hilight V5+ is designed to offer the widest choice when it comes to finding the light tower that is right for your application. The Hilight V5+ comes with a HardHat® canopy as standard, which ensures maximum protection of internal parts and provides users with a robust and easy-to-transport option.

This light tower offers the ultimate in fuel economy and reliability. Its LED lighting technology provides extended benefits and represents outstanding value for our customers.

The Hilight V5+ comes with an undercarriage (frame, axle and towbar) and 4 floodlights of 4x350 W LED. The light tower is driven by air-cooled, two cylinders Kubota diesel engine.

Special attention has been given to the overall product quality, user friendliness, ease of serviceability, and economical operation to ensure best in class cost of ownership.

Features	Benefits
<ul style="list-style-type: none">• HardHat® canopy• COB type LED lamps• Robust Undercarriage• Compact and safe concept and sturdy design• Designed and built to last	<ul style="list-style-type: none">• Easy Transportation and Robust use• High Luminosity and Fuel efficiency• Match any site requirements• Increased transport efficiency• Superior resale value / longer lifetime

Manufacturing and Environmental Standards

The Hilight V5+ is manufactured following stringent ISO 9001 regulations, and by a fully implemented Environmental Management System fulfilling ISO 14001 requirements.

Attention has been given to ensure minimum negative impact to the environment. The Hilight V5+ complies with the latest noise emission directives.

1. Performance Data

General		Hilight V5+
Rated frequency	Hz	60
Rated Voltage	Vac	240
Rated Power (4 lamps)	kW	1,5
Rated Power (4 lamps + sockets)	kW	3,8
Operating temperature (min/max)	°C	-10/50
Max Sound Power level (LWA)1 at 1m	dB(A)	71,5
Max towing speed	km/h	40
Power per sockets lamps on	kW	1,5
Power per sockets lamps off	kW	2,3
Light		
Floodlights type		LED
Power	W	4 x 350
Average luminosity over coverage area	lux	20
	m	5000
Protection	IP	67
Mast		
Type		Manual vertical, 5 section
Mast rotation	°	360
Mast height	m	7,5
Maximum wind speed	Km/h	80

2. Engine

General		Hilight V5+
	rpm	1800
Manufacturer		Kubota
Model		Z482
Standard		ISO 3046 / ISO 8528-2
Rated net output	kW	3,63
Number of cylinders	u.	2
Configuration		2 vertical in line
Aspiration		Naturally Aspirated
Bore	mm	67
Stroke	mm	68
Electrical system (DC)	V	12
Compression ratio		23,5 : 1
Displacement (swept volume)	l	0,479
Combustion system		Direct injection
Charged air cooling system		Intercooled
Lubrication system		
Type		PAROIL E
Capacity of oil system (including filters + sump)	l	2,5
Air intake system		
Air filter cleaning efficiency	%	99.9%
Cooling system		
Coolant		Parcool
Capacity of engine	l	3,0

3. Alternator

General		Hilight V5+
	rpm	1800
Manufacturer		Meccalte
Model		LT3N-75
Standard		EN50082-1 / ISO8528
Rated net power	kVA	6,0
Number of bearings		1

Hilight V5+ BQD - Product Reference Sheet

Degree of protection / Insulation class		IP 21/H
Insulation		Epoxy resins
Voltage regulation	%	+/-6
Number of poles		4 Pole
Air flow	m³/min	3,5
Phase		Single-phase
Excitation system		Brushless with auxiliary coil

Derating Table (%)

		temperature (°C)											
		0	5	10	15	20	25	30	35	40	45	50	
height (m)	4 lamps on	●	●	●	●	●	●	●	●	●	●	●	
	3 lamps on	●	●	●	●	●	●	●	●	●	●	●	
	0	●	●	●	●	●	●	●	●	●	●	●	
	500	●	●	●	●	●	●	●	●	●	●	●	
	1000	●	●	●	●	●	●	●	●	●	●	●	
	1500	●	●	●	●	●	●	●	●	●	●	●	
	2000	●	●	●	●	●	●	●	●	●	●	●	
	2500	●	●	●	●	●	●	●	●	●	●	●	
	3000	●	●	●	●	●	●	●	●	●	●	●	
	3500	●	●	●	●	●	●	●	●	●	●	●	
		●	●	●	●	●	●	●	●	●	●	●	
		●	●	●	●	●	●	●	●	●	●	●	

Limitations

		Hilight V5+
Maximum ambient temperature	°C	50
Altitude capability	m	3500
Minimum running temperature	°C	-10

Application Data

		Hilight V5+
Mode of operation		PRP
Start-up and control mode		Manual
Climatic exposure		Open Air

Speed	rpm	1800
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Fuel Consumption at:

0% Load	l/h	0,48
Fuel consumption at 1 lamp	l/h	0,50
Fuel consumption at 2 lamps	l/h	0,60
Fuel consumption at 3 lamps	l/h	0,62
Fuel consumption at 4 lamps	l/h	0,72

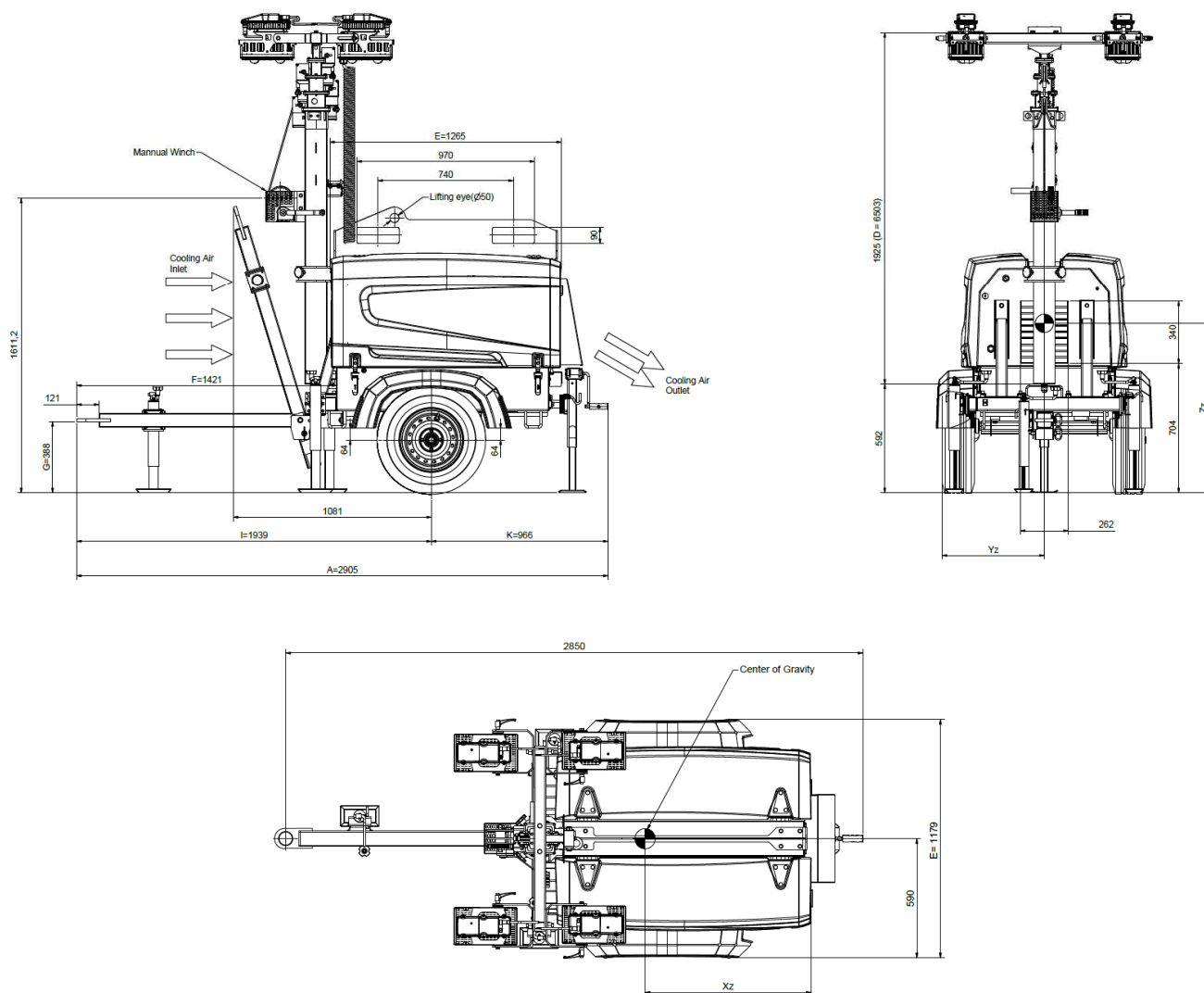
Specific Fuel Consumption at:

at 4 lamps	kg/kWh	0,153
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* for different conditions contact technical team from Atlas Copco

4. Dimensions

		Hilight V5+
Dimensions (L x W x H) – for transport	m	2047 x 1180 x 2618
Dimensions (L x W x H) – for operation	m	2850 x 2343 x 7111
Weight		
Net mass	Kg	622
Wet mass	Kg	737
Capacity of spillage free frame	l	128
Mast rotation	°	360
Mast height	m	7,5
Foam silencer		
Thickness	mm	30
Temperature	°C	Min -30 Max 120



5. Power Output

			Hilight V5+
Circuit Breaker (main)			
Brand			Siemens
Model	240V		5SX1
Pole(s)			1
Rated current (In)	A	240V	10
Thermal release (It)	A	240V	1,13 – 1,45 x In
Overload protection (Ir)	A	240V	3 x In
Manual			Manual
Circuit Breaker (lamps)			
Brand			Siemens
Model	240V		5SX1
Pole(s)			1
Rated current (In)	A	240V	6
Thermal release (It)	A	240V	1,13 – 1,45 x In
Overload protection (Ir)	A	240V	3 x In
Manual			Manual

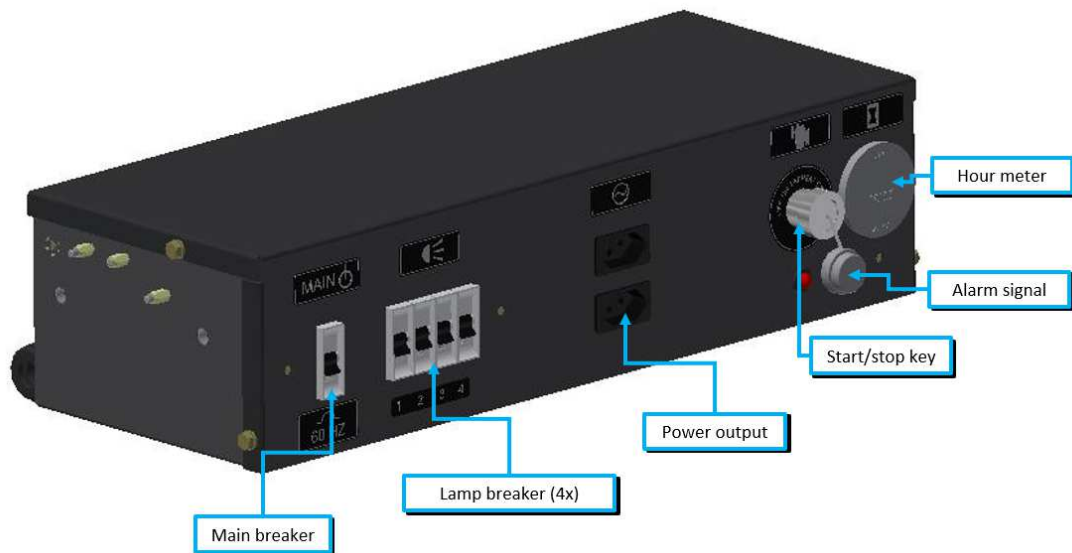


Figure 1 - Hilight V5+ control panel

6. Options

		Hilight V5+
Special Equipment		
Spark arrestor		OP
Road signalization		OP
Photocell		OP
Lamps 250W		OP
Controllers		
Control panel		STD
Lc1003		OP

Spark arrestor is a device that is designed to trap any exhaust particles or combustible materials, such as sparks or other flaming debris, from escaping into hazardous areas where they might cause fires. Exhaust particles are centrifuged in the spark arrestor, then collected and stored in a reservoir until emptied by an operator.