



A “VALUE ADDED” Manufacturer
 Modifying Light Towers to Meet Customer’s
 Specific Application Requirements

Special Build:

- Telescoping Towers
 - 100 ft. Electric
 - 60 ft. Electric
 - 45 ft. Electric
- Skid Base Towers
 - Construction Sites
 - Truck Mounted
 - Rail Mounted Utility
- Light Tower Kits
 - Gen-Set Trailers
 - Utility Vehicles



Offshore Hazardous Location

Add-On Kits:

- Electrical Outlet Panels
 - 20A, 120V RV Outlets
 - 30A, 125V RV Outlets
 - 50A, 125/250V RV Outlets
 - 50A, 125/250V Spider Outlets
- Hazardous Location
 - Floodlighting
 - Plugs - Receptacles - Switches
 - Mufflers/Exhausts
- Gen-Set Packages/Light Tower
 - 25 KVA
 - 50 KVA
 - 75 KVA
 - 125 KVA



The Ultimate Light Tower



Mobile Security Surveillance Tower



Emergency Response Vehicle Mount



Offshore Skid-Mounted Light Tower



Light Tower / Gen-set Combo

35 Years Experience in Designing and Manufacturing Light Tower Products

Visit us on the web at www.bossltg.com



The Ultimate Light Tower

70 Acres of Illumination

Stadium Style Flood-Lighting

Applications:

- Large Construction Projects
- Environment Containment Cell
- Earth Moving Requirements
- Dam Projects, Earth Moving, and Concrete Continuous Pours
- Petrochemical and Refinery "Turn-a-Rounds"
- Levee and Embankment Reconstruction
- Open Pit Mining / Rock Quarries
- Airport Construction and Concrete Pours

Scope of Design:

To define a mobile floodlight package equipped with a water-cooled diesel engine, attached to a 20,000 watt generator, to supply power to operate 16-1000 watt Metal Halide Floodlights positioned on a **60 ft. electric 120 volt automatic telescoping tower**, assembled on a four-wheel towable trailer. This completed package will be able to illuminate approximately 7 to 70 acres and project a beam to illuminate a target area 1,000 ft. from the light source. This unit will operate continuously for 32 hours without refueling. Total Package will be sound attenuated for quiet operations. **Available in 50hz or 60hz packages.**

**60 ft. Electric Telescoping Tower
(55mph Wind Load)**

**16-1000 Watt or 1500 Watt
Stadium Floodlights**

**25kva to 75kva Gen-Set Package
Sound Attenuated**



Model# BUP2516MH-60FT/E





The Ultimate Light Tower

Model# BUP2516MH-60ft/E

Engine:

Water-Cooled Diesel Engine, no less than 40.5 hp @ 1800 rpm. Complete with low oil and high temperature Engine automatic shutdowns, Key switch with a 12 volt stop/start solenoid, dual fuel filter system, industrial quiet type muffler and a dry-type air cleaner filter. Easy access to oil drain and radiator ports. 12 volt high amp battery with battery cables with a 12 volt alternator. 45 gallon fuel tank, 32 hour continuous operation without refueling. Cold Weather Package Optional

Generator:

20,000 watt Single Bearing Design, 4 – pole, 3ph, **208y/120v volt @ 60 Hz**, Class F minimum insulation. AVR type voltage regulation. A five-wire generator hook-up with an external ground for completing both an electrical and mechanical safe grounding system.

Control Panel:

Control panel for Floodlight operation. Complete with 4 - floodlight switches circuit breaker protected. Engine Controls include a running time meter and a battery charging indicator. Key switch for start and stopping engine. Glow plug indicator for preheating the engine before starting. And two 120 volt GFCI duplex receptacles, 2 - 50amp Spider Receptacles and lug panel for full power take off.

Floodlights:

Minimum of sixteen (16) floodlights attached to the telescoping boom. These floodlights will have a wide beam pattern to produce a sufficient amount of light to provide safe illumination over a minimum of 7 to max of 70 acres. Each floodlight will be equipped with a lamp support bracket to stabilize the lamp inside the floodlight housing. Each floodlight will have its own water-tight rated male pin plug that will mate to a female receptacle located at top on telescoping tower.

Lamps:

Metal Halide Lamps will be supplied. Rated at 1000 watts each producing a minimum of 110,000 lumens of light per lamp.

Floodlight Projection:

There will be 16 1000w Metal Halide Floodlights. 8 Fixtures will have NEMA 3 reflectors (750 ft. beam projection) with approx. 60 degree horizontal spread. 8 – Fixtures will have NEMA 2 reflectors (1000 ft. beam projection) with approx. 40 degree horizontal spread.

Telescoping Tower:

This will be a 60 foot – four section telescoping design tower. Each section will be hot-dipped galvanized to prevent friction and rusting between tower sections. The zinc used in the galvanizing process will act as a lubricant so that the tower sections can interact freely. The tower will be raised through the use of two 120 volt electric winches, one located on the trailer base to pivot tower to upright position and the other to be located on the outer section of the first boom so that the tower can be raised easily to its desired 60 ft. mounting height. There will be two push-button stations located on the control panel to operate both winches.

Compartment:

The gen-set and operating components of the light tower package will be mounted inside a protective compartment constructed of 14 gauge sheet metal. The compartment will have side doors for servicing and operation. Each door will have latches to hold door securely while in use. The compartment will have air-flow ventilation and will be designed to operate with the doors closed. Sound attenuation panels will be added.

Trailer:

This will be a four wheel design with a dual 7,500 lb. rated leaf spring axles. 15 inch wheels with protected galvanized fenders and a 3 inch standard ring hitch with running lights and safety chains. Trailer will be construction of heavy gauge steel and powder coated with corrosion-resistant paint.

Outrigger System:

This will be a six-point design. Each outrigger will be equipped with a 2,000 lb. swivel jack for leveling tower. When outriggers are positioned, the tower, at its full operating height will withstand wind loads up to 55 mph. Each outrigger will be hot-dipped galvanized to ensure operational performance within the outrigger sleeves.

Dimension: Travel 32 ft. Long x 8.6 ft. Wide x 9.0ft Tall. Wt: 10,000 lbs.

Large Area Floodlighting Projects

Turn-A-Rounds

All Models are Available in
50hz or 60hz packages

Model#: ELEC-8L-480V



- 8 - 1000W Metal Halide Bulbs
- 480V Input @ 10KW
- Illuminates 15 Acres at 30 ft.

Model#: ELEC-16L-480V



- 16 - 1000W Metal Halides
- 480V input @ 20KW
- Illuminates 70 Acres at 60 ft.

Construction Sites

Genie Telehandlers



Rental Units
Available

Heights-Forward Reach

- 50 ft. - 27 ft.
- 60 ft. - 42 ft.

With Floodlights Mounted

Mobile Positioning and Elevating
of Stadium Floodlight Systems

Model#: ELEC-4L-120/240V



- 4 - 1000W Metal Halides
- 120/240V input @ 6KW
- Illuminates 7 Acres at 30 ft.



Stadium Style Lights Electric Powered Light Towers

Model#: ELEC-16L-480V

Scope of Design:

This Light Product is designed to be used in areas where system can be elevated and secured in heights 40 to 60 feet above grade. At 60 feet, this unit can project a beam pattern to illuminate up to 70 acres. Unit can be powered by a portable gen-set or utility power. 150 feet of SO Cord is hardwired to system's Main ON/OFF fused disconnect switch. Once power cord is connected to power source, one switch operates all 16 floodlights. Each floodlight can be adjusted to illuminate specific targeted work areas.

Electrical Specifications:

16-1000 watt Metal Halide Floodlight Package within a protected metal cage powered by 480 volt, 3ph, 60hz, 25kva Electrical Supply. Main Power ON/OFF system fused disconnect switch that supplies 480 volt power to control panel ballast box. Each floodlight ballast is protected with 600v – 5amp fuses. Floodlights and Controls are all rated Nema 3R for use outdoors.

Dimensions: 48" Wide x 48" Deep x 144" Tall Weight: 1,200 lbs

Model#: ELEC-8L-480V

Scope of Design:

System is designed to be used in areas where Light Tower Package can be elevated and secured in heights 30 to 40 feet above grade. At 40 feet, this unit will project a beam pattern to illuminate up to 30 acres. Unit can be powered by a portable gen-set or utility power. 75 feet of SO Cord is hardwired to systems Main ON/OFF fused disconnect switch. Once power cord is connected to power source, On switch operates all 8 floodlights. Each floodlight can be adjusted to illuminate specific targeted work areas.

Electrical specifications:

8-1000 watt Metal Halide Floodlight Package within a protected metal cage powered by 480 volt, 3ph, 60hz, 10kva Electrical Supply. Main Power ON/OFF system fused disconnect switch that supplies 480 volt power to control panel ballast box. Each Floodlight ballast is protected with 600v – 5amp fuses. Floodlights and Controls are all rated Nema 3R for use outdoors.

Dimensions: 48" Wide x 48" Deep x 72" Tall Weight: 600 lbs

Model#: ELEC-4L-120/240V

Scope of Design:

This system is designed to be used in areas where Light Tower Package can be elevated and secured in heights up to 30 feet above grade. At 30 feet, this unit will project a beam pattern to illuminate up to 7 acres. Unit can be powered by a portable gen-set or utility power. 50 feet of SO Cord is hardwired to systems Main ON/OFF fused disconnect switch. Once power cord is connected to power source, on switch operates all 4 floodlights. Each floodlight can be adjusted to illuminate specific targeted work areas.

Electrical Specifications:

4 1000 watt Metal Halide Floodlight Package within a protected metal cage powered by 120/240 volt, 1ph, 60hz, 6kva Electrical Supply. Main Power ON/OFF system fused disconnect switch that supplies 120/240v power to control panel ballast box. Each floodlight ballast is protected with 120v – 20amp fuses. Floodlights and Controls are all rated Nema 3R for use outdoors.

Dimensions: 48" Wide x 48" Deep x 48" Tall Weight: 300 lbs.



Light Tower/Gen-Set Combo 25kva - 50kva - 75kva Gen-Sets

Jobsite Electrical Power Supply 3Φ & 1Φ 480V - 208/120V - 120/240V



Model# BCK204MH

4-1000W Metal-Halide Light Tower Package

Scope of Design:

To define a mobile floodlight package equipped with a water cooled diesel engine attached to a 20,000 watt generator to supply power to operate FOUR (4) 1000 watt Metal Halide NEMA 4 Floodlights positioned on a 30 ft. telescoping tower assembled on a two-wheel towable trailer. This completed package will be able to illuminate approximately 5 to 7 acres and project a beam to illuminate a target area 200 ft. from the light source. This unit will operate continuously for 36 hours without refueling. Electrical outlets include 2-20A, 120V GFI Duplexes and 2-50A, 120/240 spider receptacles with full load lug panel. **Available in 50hz or 60hz packages.**





Light Tower/Gen-Set Combo

Model# BCI204MH

Engine:

Water-Cooled Diesel Engine, no less than 40.0 hp @ 1800 rpm. Complete with low oil and high temperature Engine automatic shutdowns, Key switch with a 12 volt stop/start solenoid, dual fuel filter system, industrial /quiet type muffler and a dry-type air cleaner filter. Easy access to oil drain and radiator ports. 12 volt high amp battery with battery cables with a 12 volt alternator. 65 gallon fuel tank, 36 hour continuous operation without refueling.

Generator:

25kva Single Bearing Design, 4 pole, **480V-3PH 208Y/120V, 3ph.** And **120/240 volt, 1ph. @ 60hz**, Class F minimum insulation. AVR type voltage regulation.

Control Panel:

Centrally located control panel inside of light tower enclosure. Complete with 4 floodlight switches individually circuit breaker protected. A running time meter and a battery charging indicator. Key switch for start and stopping engine. Glow plug indicator for preheating the engine before starting. **Two (2) - 120 volt GFCI duplex receptacle, (2) 50amp, 125/250 volt Spider Box receptacles with Full Power Lugs.**

Floodlights:

Minimum of four (4) floodlights attached to the telescoping boom. These floodlights will have a wide beam pattern to produce a sufficient amount of light to provide safe illumination over a minimum of 7 acres. Each floodlight will be equipped with a lamp support bracket to stabilize the lamp inside the floodlight housing. Each Floodlight will have its own water-tight rated male pin plug that will mate to a female receptacle located at top on telescoping tower.

Lamps:

Metal Halide Lamps will be supplied. Rated at 1000 watts each producing a minimum of 110,000 lumens of light per lamp.

Telescoping Tower:

This will be a 30 foot three section telescoping design tower. Each section will be galvanized to prevent friction and rusting between tower sections. The zinc used in the galvanizing process will act as a lubricant so that the tower sections can interact freely. The tower will be raised through the use of two manual winches, one located on the trailer tongue to pivot tower to upright position and the other to be located on the outer section of the first boom so that the tower can be raised easily to its desired 30 ft mounting height.

Boom Fork Lift Sleeves:

Forklift sleeves mounted on the outer section of the telescoping boom section will be provided so that the tower package can be easily loaded and unloaded on to trucks and trailers for transporting.

Compartment:

The gen-set and operating components of the light tower package will be mounted inside a protective compartment constructed of 14 gauge sheet metal. The compartment will have side doors for servicing and operation. Each door will have two latches to hold door securely while in use. The compartment will have air flow ventilation and will be designed to operate with the doors closed.

Trailer:

This will be a single axle, two-wheel design with a 3,500 lb. rated leaf spring axles. 15 inch wheels with protected fenders. Standard ball coupling with running lights and safety chains.. Trailer will be construction of heavy gauge steel.

Outrigger System:

This will be a three-point design with the two rear outriggers being adjustable. Each outrigger will be equipped with a 1,500 lb. Swivel jack for leveling tower. When outriggers are positioned, the tower at its full operating height will withstand wind loads up to 65 mph. Each outrigger will be powder coated to ensure operational performance within the outrigger sleeves.

Painting:

Units will be POWDER-COATED with CORROSION-RESISTANT white paint.



Emergency Response Vehicle Mount Model# BTBK64MH

Truck Mounted Light Towers

Remote Controlled From INSIDE Truck Cab

- Electric Winch Raises and Lowers Tower
- Start & Stop Engine Controls
- Spring Mounted Floodlights



A skid-mounted light tower that fits inside the beds of pickup trucks. Full-operation of the package can be done remotely from inside the vehicle cab. Uses spring mount floodlights that will endure off-highway abuse. An 8KW gen-set for emergency electrical power needs

Special Designs Available

Applications

Emergency Response

- Search and Rescue
- Fire Fighting
- Off-Highway Accidents
- Airplane Crashes
- Train Derailments
- Environmental Cleanup
- Natural Disasters
- Security / Policing
- Traffic Accidents
- Border Patrols

Mining/Construction

- Strip Mining
- Mineral Exploration
- Rock Quarries
- Pipeline Construction
- Utility Transmission Line Construction
- Highway Construction
- Railroad Maintenance & Construction
- Airport Maintenance & Construction

Unit Specifications

- Water-cooled diesel engine
- Engine safety shutdowns
- 8,000 watt generator
- 25 gallon (45 hr.) fuel tank
- 120 volt GFCI duplex outlets
- 13 ft. tower height clearance (mounted in standard truck bed)
- 4-1000 watt Metal Halide spring mounted floodlights
- Available in 50hz or 60hz packages

Dimensions :
8'8" Length, 33" Width, 5'2" Tall,
1500 lbs. Weight



Light Tower Kit Model # LTK4-1000MH



**90° Pivot up to
30 ft. Telescoping Tower**

Model # LTK4-1000MH

**Vertical Stationary up to 40 ft.
Telescoping Tower**



Model # LTK2-1000MH

Scope:

To define a Telescoping Light Tower kit equipped with two or four 1000 watt Metal Halide NEMA 4 floodlights positioned on a 30 ft. manual telescoping. This completed package will be able to illuminate approximately 5 to 7 acres and project a beam to illuminate a target area 200 ft. from light source. This unit will operate continuously off of 120/240 volt, 1ph, 60 Hz requiring 3,000 or 6,000 watts of gen-set or utility power. **Available in 50hz or 60hz packages.**

Control Panel:

Centrally located control panel. Complete with 2 or 4 floodlight switches individually circuit breaker protected. And at least one 120 volt GFCI duplex receptacle for auxiliary power 20 amps.

Floodlights:

Minimum of two or four floodlights attached to the telescoping boom. These floodlights will have a wide beam pattern to produce a sufficient amount of light to provide safe illumination over a minimum of 5 acres. Each floodlight will be equipped with a lamp support bracket to stabilize the lamp inside the floodlight housing. Each floodlight will have its own water-tight rated male pin plug that will mate to a female receptacle located at top on telescoping tower.

Lamps: Metal Halide Lamps will be supplied. Rated at 1000 watts each producing a minimum of 110,000 lumens of light per lamp.

Telescoping Tower:

This will be a 30 foot three section telescoping design tower. Each section will be **powder-coat painted** to prevent friction and rusting between tower sections. The paint used in the coating process will act as a lubricant so that the tower sections can interact freely. The tower will be raised through the use of two manual self-braking winches. One located on the upper-right support to pivot tower to vertical position and the other to be located on the outer section of the first boom so that the tower can be raised easily to its desired mounting height.

Base Support Section:

½" plate steel 15' x 15" used to anchor the tower package to trailer or truck bed.

Painting:

Units will be painted to customer specifications and color requirement. Standard Color.... BLACK

Options:

Electric Winch System



Oilfield Utility Trailer Model # BRV1204MH-16ft

“The Original”

4-1000W Metal Halides

30 ft. Telescoping Tower
360° Rotation

20kw Gen-Set

120/240 Volt
RV Receptacle



Model# BRVK204MH-16FT.

350 Gallon Water Tank

150 Gallon Auxiliary Fuel Tank

Complete Oilfield Servicing Package

Scope:

To define a mobile floodlight package equipped with a water-cooled diesel engine attached to a 20,000 watt generator to supply power to operate FOUR (4) 1000 watt Metal Halide NEMA 4 Floodlights positioned on a 30 ft. manual telescoping tower assembled on a FOUR-wheel 16 ft. towable trailer. This completed package will be able to illuminate approximately 5 to 7 acres and project a beam to illuminate a target area 200 ft from the light source. This unit will operate continuously for 50 hours without refueling. Package includes a 350 gallon water tank with 120volt transfer pump and a 150 gallon auxiliary fuel tank. Electrical Outlets to include 2-20A, 120V GFI Duplexes, 1-30A, 125V RV outlet, and 1-50A, 125/250V RV outlet.

Available in 50hz or 60hz packages.



Oilfield Utility Trailer Model # BRVI204MH-16ft

Engine:

Water-Cooled Diesel Engine, no less than 40.5 hp @ 1,800 rpm. Complete with low oil and high temperature engine automatic shutdowns, Key switch with a 12 volt stop/start solenoid, dual fuel filter system, industrial quiet type muffler and a dry-type air cleaner filter. Easy access to oil drain and radiator ports. 12 volt high amp battery with battery cables with a 12 volt alternator. 60 gallon fuel tank, 50 hour continuous operation without refueling. Plus a 150 gallon auxiliary fuel tank.

Generator:

20,000 watt Single Bearing Design, 4 pole, **120/240 volt @ 60hz**, Class F minimum insulation. A four-wire generator hook-up with an external ground for completing both an electrical and mechanical safe grounding system.

Control Panel:

Centrally located control panel inside of light tower enclosure. Complete with 4 floodlight switches individually circuit-breaker protected. A running time meter and a battery charging indicator. Key switch for start and stopping engine. Glow plug indicator for preheating the engine before starting. **Two (2) 120 volt GFCI duplex receptacle, one 30amp, 125volt and one 50amp, 125/250v office trailer RV receptacle.**

Floodlights:

Minimum of four (4) floodlights attached to the telescoping boom. These floodlights will have a wide beam pattern to produce a sufficient amount of light to provide save illumination over a minimum of 7 acres. Each floodlight will be equipped with a lamp support bracket to stabilize the lamp inside the floodlight housing. Each Floodlight will have its own water-tight rated male pin plug that will mate to a female receptacle located at top on telescoping tower.

Lamps:

Metal Halide Lamps will be supplied. Rated at 1000 watts each producing a minimum of 440,000 lumens of light per light tower.

Telescoping Tower:

This will be a 30 foot three section telescoping design tower. Each section will be hot-dipped galvanized to prevent friction and rusting between tower sections. The zinc used in the galvanizing process will act as a lubricant so that the tower sections can interact freely. The tower will be raised through the use of two safety style self-braking manual winches, one located on the trailer tongue to pivot tower to upright position and the other to be located on the outer section of the first boom so that the tower can be raised easily to its desired 30 ft. mounting height. Tower will be able to rotate 360 degrees at any positioned height..

Boom Fork Lift Sleeves:

Forklift sleeves mounted on the outer section of the telescoping boom section will be provided so that the tower package can be easily loaded and unloaded onto trucks and trailers for transporting.

Compartment:

The gen-set and operating components of the light tower package will be mounted inside a protective compartment constructed of 14 gauge sheet metal. The compartment will have side doors for servicing and operation. Each door will have two latches to hold door securely while in use. The compartment will have air-flow ventilation and will be designed to operate with the doors closed.

Trailer:

This will be a 4-wheel design with a 7,000 lb. rated leaf spring axles. 15 inch wheels with protected galvanized fenders. A coupling with running lights and safety chains. 16 foot in length.

Water Tank:

350 gallon BLACK water tank with 120v transfer pump.

Auxiliary Fuel Tank:

150 gallon Aluminum fuel cell.



**“When Profits Depend”
on Performance**

VAB System



Rough Service Spring-Mounted Fixture

45 Foot Electric Telescoping Light Tower

- Spring-Mounted 1000W Metal Halide Floodlights
- Cold Weather Package
- 60 Gallon Fuel Supply
- 10kw Gen-Set
- 45 ft. Electric Telescoping Tower
- Optional Six Light System



Scope:

To define a mobile floodlight package equipped with a water-cooled diesel engine attached to a 10,000 watt generator to supply power to operate FOUR (4) 1000 watt Metal Halide NEMA 4 spring-mounted floodlights positioned on a 45 ft. electrical telescoping tower assembled on a two-wheel towable trailer. This completed package will be able to illuminate approximately 5 to 7 acres and project a beam to illuminate a target area 200 ft. from the light source. This unit will operate continuously for 50 hours without refueling. **Available in 50hz or 60hz packages.**



Open Pit Mining - 45 ft. Light Tower

Model# BLMK104MH-45FT-E

Engine:

Water-Cooled Diesel Engine, no less than 20 hp @ 1800 rpm. Complete with **low oil and high temperature engine automatic shutdowns**, Key switch with a 12 volt stop/start solenoid, dual fuel filter system, industrial / **quiet type muffler** and a dry-type air cleaner filter. Easy access to oil drain and radiator ports. 12 volt high amp battery with battery cables with a 12 volt alternator. 60 gallon fuel tank, 50 hour continuous operation without refueling. Cold weather package to include 120v remote battery charger, engine block heater, and electrical components capable of withstanding (-40) degree temperatures.

Generator:

10,000 watt Single Bearing Design, 4 – pole, **120/240 volt @ 60hz** , Class F minimum insulation. Capacitor type voltage regulation. A four wire generator hook-up with an external ground for completing both an electrical and mechanical safe grounding system.

Control Panel:

Centrally located control panel inside of light tower enclosure. Complete with 4 – floodlight switches individually circuit breaker protected. A running time meter and a battery charging indicator. Key switch for start and stopping engine. Glow plug indicator for preheating the engine before starting. **Two (2) - 120 volt GFCI duplex receptacle and one- 30amp, 125/250volt Office trailer RV receptacle**

SPRING MOUNTED Floodlights: Minimum of four (4) spring mounted floodlights attached to the telescoping boom. These floodlights will have a wide beam pattern to produce a sufficient amount of light to provide safe illumination over a minimum of 7 acres. Each floodlight will be equipped with a lamp support bracket to stabilize the lamp inside the floodlight housing. Each floodlight will have its own water-tight rated male pin plug that will mate to a female receptacle located at top on telescoping tower.

Lamps:

Metal Halide Lamps will be supplied. Rated at 1000 watts each producing a minimum of 440,000 lumens of light per Light Tower.

Telescoping Tower:

This will be a 45 foot five section Electric Push-button telescoping design tower. Each section will be **hot-dipped galvanized** to prevent friction and rusting between tower sections. The Zinc used in the galvanizing process will act as a lubricant so that the tower sections can interact freely. The tower will be raised through the use of two safety-style electrical winches, one located on the trailer to pivot tower to upright position and the other to be located on the outer section of the first boom so that the tower can be raised easily to its desired 45 ft. mounting height. .

Boom Fork Lift Sleeves:

Forklift sleeves mounted on the outer section of the telescoping boom section will be provided so that the tower package can be easily loaded and unloaded onto trucks and trailers for transporting.

Compartment:

The gen-set and operating components of the light tower package will be mounted inside a protective compartment constructed of 14 gauge sheet metal. The compartment will have side doors for servicing and operation. Each door will have two latches to hold door securely while in use. The compartment will have air-flow ventilation and will be designed to operate with the doors closed

Trailer:

This will be a two-wheel design with a 3,500 lb. rated leaf spring axles. 15 inch wheels with protected take out fenders. A 2 inch standard ball coupling with running lights and safety chains. Trailer will be construction of heavy gauge steel.

Outrigger System:

This will be a five-point design. Each outrigger will be equipped with a 2,000 lb. swivel jack for leveling tower. When outriggers are positioned, the tower at its full operating height will withstand wind loads up to 65 mph. Each outrigger will be **hot-dipped galvanized** to ensure operational performance within the outrigger sleeves.

Painting:

Corrosion resistant Coating – Heat treated Pearl **White**.



Hazardous Location Light Towers Rail Mounted - Trailer Mounted

Oilfield, Marine, and Environmental Applications

Class I Division II Lights
with Explosion-Proof Connections



Class 1 Division 2 Floodlights 1000w or 400w Metal Halides

Emergency Air-Inlet Engine Stainless Shutdown Valve

Class 1 Division 1 Fixture Plugs and Receptacles

Heat-Insulated Exhaust and Industrial Muffler

Class 1 Division 1 120V Power Receptacle

Class 1 Division 1 Light Switches

Marine Style Battery Enclosure

Spark Arrestor



Model# BTK64MH-HL400/Rail Mounted

Model# BTK64MH-HL1000/Trailer Mounted

400 Watt or 1000 Watt MH Fixtures

6kw - 8kw - 10kw - 20kw

Gen-Sets Available

Scope of Design:

To define a **HAZARDOUS LOCATION** designed mobile floodlight package equipped with a water-cooled diesel engine attached to a **6,000 watt 60HZ generator** to supply power to operate four METAL HALIDE Floodlights rated **CLASS 1 – DIVISION 2, GRP CD** positioned on a **30 ft. telescoping, 360 degree** rotating tower assembled on a two-wheel towable trailer or rail-mounted system. This completed package will be able to illuminate approximately 2 or 7 acres depending on wattage of lights, and operate continuously for 48 hours without refueling. **Available in 50hz or 60hz packages.**



Hazardous Location Light Towers Rail-Mounted - Trailer-Mounted

Engine: Water-Cooled Diesel Engine, no less than 12.5 hp @ 1800 rpm. Complete with low oil and high temperature automatic shutdowns, Key switch with an insulated 12 volt stop/start solenoid, dual fuel filter system, industrial /SPARK ARRESTOR muffler and a dry-type air cleaner filter. **EMERGENCY AIR-INLET SHUTDOWN VALVE with KILL CABLE.** Easy to access oil drain and radiator ports. 12 volt high amp battery with battery cables, **MARINE BATTERY ENCLOSURE** with a 12 volt alternator. **30 gallon non** – metallic fuel tank, 48 hour continuous operation without refueling.

Generator: **6000 watt** Single Bearing Design, 4 – pole, **110 volt @ 60hz** , Class F minimum insulation. A four wire generator hook-up with an external ground for completing both an electrical and mechanical safe grounding system.

Control Panel: Centrally located control **LIGHT SWITCHES, rated Class 1-Division 1, EXP-PROOF inside of light tower enclosure.** Floodlight switches individually circuit breaker protected. A running time meter and a battery charging indicator. Key switch for start and stopping engine. Glow plug indicator for preheating the engine before starting. One 120v Exp Receptacle.

Floodlights: Minimum of four (4) floodlights attached to the telescoping boom. **Rated: CLASS 1 – DIVISION 2, Grps.CD. For HAZARDOUS LOCATION USE ONLY.** These floodlights will have a wide beam pattern to produce a sufficient amount of light to provide safe illumination over a minimum of 2 acres. Each floodlight will be equipped with a lamp support bracket to stabilize the lamp inside the floodlight housing. Each Floodlight will have its own **EXP-PROOF rated male plug** that will mate to an **EXP-PROOF female receptacle** located at top on telescoping tower.

Lamps: METAL HALIDE Lamps will be supplied. Rated at 400 watts or 1000 watts each producing a minimum of 176,000 lumens and a maximum of 440,000 lumens of light per light tower.

Ballast: Ballast system will be mounted inside of trailer compartment. Individual ballast design for simple replacement. Each ballast will be circuit-breaker protected. Ballast position in compartment to receive adequate air transfer of fresh air being pulled from blower fan of radiator of engine. (400 Watt Ballast Fixture Mounted)

Telescoping Tower: This will be a **30 foot** three section telescoping, **rotating** design tower. Each section will be galvanized to prevent friction and rusting between tower sections. The zinc used in the galvanizing process will act as a lubricant so that the tower sections can interact freely. The tower will be raised through the use of two manual self-braking winches, one located on the trailer tongue to pivot tower to upright position and the other to be located on the outer section of the first boom so that the tower can be raised easily to its desired 30 ft. mounting height. The retractable Lamp cord will be protected in a metal sleeve.

Boom Forklift Sleeves: Forklift sleeves mounted on the outer section of the telescoping boom section will be provided so that the tower package can be easily loaded and unloaded onto trucks and trailers for transporting.

Compartment: The gen-set and operating components of the light tower package will be mounted inside a protective compartment constructed of 14 gauge sheet metal. The compartment will have side doors for servicing and operation. Each door will have two latches to hold door securely while in use. The compartment will have air-flow ventilation and will be designed to operate with the doors closed at 102 degrees F.

Trailer: This will be a two-wheel design with a 2,000 lb. Rated leaf spring axles. 14 inch wheels with protected plastic fenders. A 2 inch ball hitch with running lights and safety chains. Trailer will be construction of heavy gauge steel and powder coated after fabrication.

Outrigger System: This will be a five-point design on trailer unit with the two rear outriggers being adjustable. Each outrigger will be equipped with a 1,500 lb. swivel jack for leveling tower. When outriggers are positioned, the tower at its full operating height will withstand wind loads up to 55 mph. Each outrigger will be hot-dipped galvanized to ensure operational performance within the outrigger sleeves.

Paint: The Sheet metal Enclosure will be Powder-Coated with a Corrosion Salt Water resistant Paint. Units will be painted: WHITE

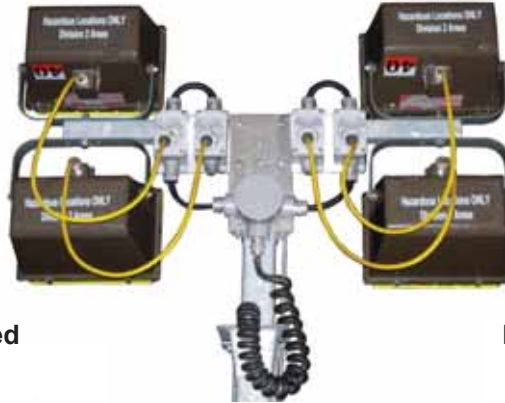
Dimensions:

15.5 ft. Long, 6.0 ft Wide, 6.6 ft. Tall, Weight: 2400 lbs



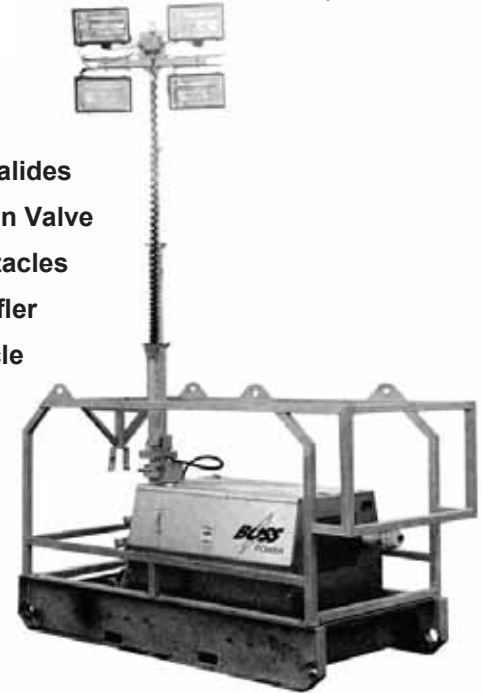
Offshore Platform Hazardous Location Light Towers

**4-400W Class I Division II Lights
with Explosion-Proof Connections**



Model# BTK64MH-HL400/Rail-Mounted

Model # BOK64MH-HL/0S (Skid-Mounted)



- Class 1 Division 2 Floodlights 400w Metal Halides**
- Emergency Air-Inlet Engine Stainless Shutdown Valve**
- Class 1 Division 1 Fixture Plugs and Receptacles**
- Heat-Insulated Exhaust and Industrial Muffler**
- Class 1 Division 1 120V Power Receptacle**
- Class 1 Division 1 Light Switches**
- Marine Style Battery Enclosure**
- Spark Arrestor**

Fuel Containment Base Design

Rail-Mount Unit can be retrofitted onto Trailer Frames, Bolted to barge/workboat decks or made with custom offshore skid.



**Explosion-Proof
Receptacle and On/Off Switches**

Scope

To define a **HAZARDOUS LOCATION** designed OFFSHORE SKID-or RAIL-MOUNT floodlight package equipped with a water-cooled diesel engine attached to a **6,000 watt generator** to supply power to operate four (4) 400 watt METAL HALIDE Floodlights rated **CLASS 1 – DIVISION 2, GRP CD** positioned on a **30 ft. telescoping, 360 degree** rotating tower assembled on an Offshore Skid-or Rail-Mount. This completed package will be able to illuminate approximately 2 acres and operate continuously for 48 hours without refueling. **Available in 50hz or 60hz packages.**



Offshore Platform Hazardous Location Light Tower Model # BOK64MH-HL/0S

Engine:

Water-Cooled Diesel Engine, no less than 12.5 hp @ 1800 rpm. Complete with low oil and high temperature automatic shutdowns, Key switch with an insulated 12 volt stop/start solenoid, dual fuel filter system, industrial / **SPARK ARRESTOR** muffler and a dry-type air cleaner filter. **EMERGENCY AIR-INLET SHUTDOWN VALVE with KILL CABLE**. Easy to access oil drain and radiator ports. 12 volt high amp battery with battery cables, **MARINE BATTERY ENCLOSURE** with a 12 volt alternator. 30 gallon non-metallic fuel tank, 48 hour continuous operation without refueling.

Generator:

6,000 watt Single Bearing Design, 4 pole, 120 volt @ 60hz, Class F minimum insulation. A four-wire generator hook-up with an external ground for completing both an electrical and mechanical safe grounding system.

Control Panel:

Centrally located control **Class 1-Division 1- EXP-PROOF LIGHT SWITCHES** inside of light tower enclosure. Floodlight switches individually fused protected. A running time meter. Key switch for start and stopping engine. Glow plug indicator for preheating the engine before starting. One 120 volt, 20amp **EXP-PROOF** duplex receptacle.

Floodlights:

Minimum of four (4) floodlights attached to the telescoping boom. Rated: **CLASS 1 – DIVISION 2, CD**. For **HAZARDOUS LOCATION USE ONLY**. These floodlights will have a wide beam pattern to produce a sufficient amount of light to provide safe illumination over a minimum of 2 acres. Each floodlight will be equipped with a lamp support bracket to stabilize the lamp inside the floodlight housing. Each Floodlight will hard-wired directly into **EXPLOSION PROOF ENCLOSURE** located at top on telescoping tower.

Lamps:

METAL HALIDE Lamps will be supplied. Rated at 400 watts each producing a minimum of 44,000 lumens of light per lamp. Ballast: Ballast system will be mounted inside of fixture. Individual ballast design for simple replacement. Each ballast will be **FUSED** protected.

Rotating Telescoping Tower:

This will be a 30 foot three section telescoping, rotating design tower. Each section will be galvanized to prevent friction and rusting between tower sections. The zinc used in the galvanizing coating process will act as a lubricant so that the tower sections can interact freely. The tower will be raised through the use of two manual self-braking winches, one located on the trailer tongue to pivot tower to upright position and the other to be located on the outer section of the first boom so that the tower can be raised easily to its desired 30 ft. mounting height. The retractable lamp cord will be protected in a metal sleeve.

Forklift Sleeves:

Forklift sleeves mounted within the skid base will be provided so that the tower package can be easily loaded and unloaded onto trucks and trailers for transporting. Four Point Lifting: Protective cage of offshore skid will have four-corner lifting eyes **USCG** approved.

Compartment:

The gen-set and operating components of the light tower package will be assembled inside a protective compartment constructed of 14 gauge sheet metal. The compartment will have two side doors for servicing and operation. Each door will have two latches to hold door securely while in use. The compartment will have air-flow ventilation and will be designed to operate with the doors closed at 102 degrees F.

SKID:

This will be a **OFFSHORE SKID** with protect cage frame construction of heavy gauge steel and hot-dipped galvanized after fabrication.

Dimensions:

12.5ft Long, 6.0 ft Wide, 6.6 ft. Tall, Weight: 3,000lbs



Inland Marine Skid Mounted Light Towers

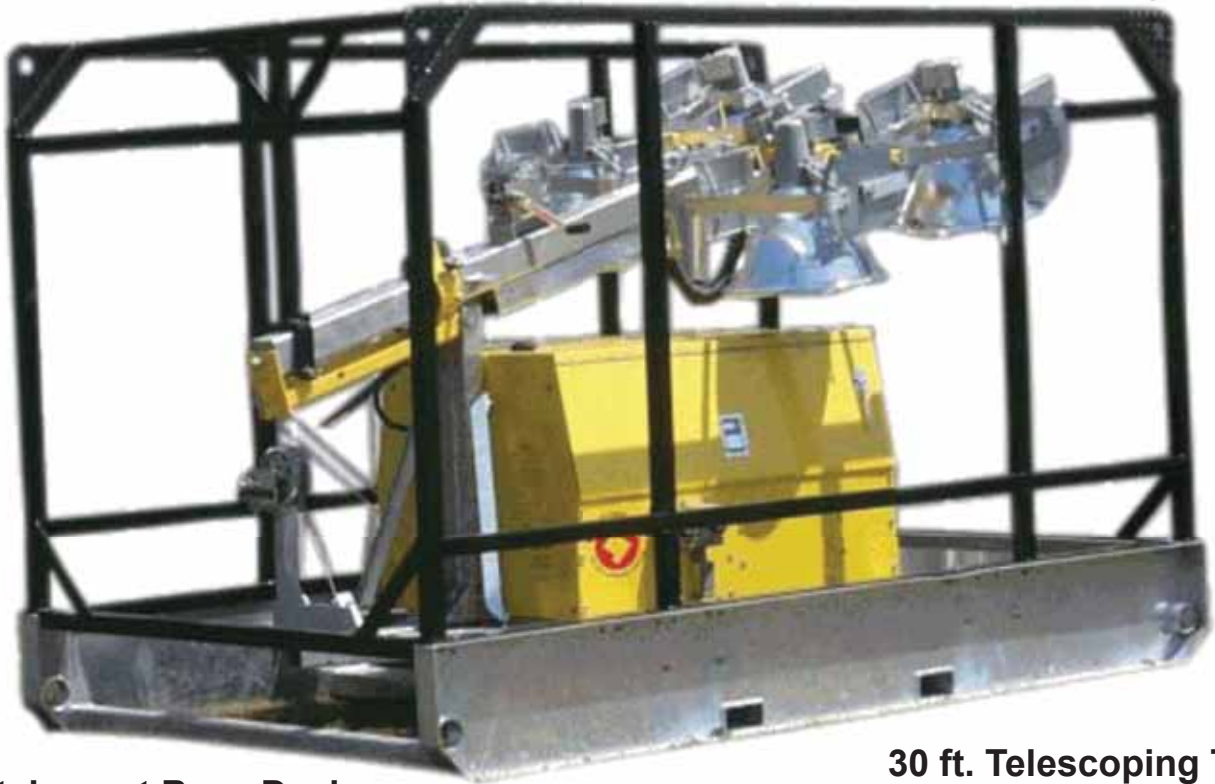
Model# BTK64MH-T/S

Trailer Mount to Skid Mount Conversion Package

**Spring-Mounted
4-1000 Watt
Metal Halide Floodlights**

**Four Point Lifting Eyes
and Forklift Pockets**

**Galvanized Offshore Skid
with Protective Cage Frame**



Fuel Containment Base Design

30 ft. Telescoping Tower

**1000 Watt MH Floodlights
Marine Rated Power Receptacles
6kw - 8kw - 10kw - 20kw
Gen-Sets Available**

Scope:

To define a mobile Offshore floodlight package equipped with water cooled diesel engine attached to a 6000 watt generator to supply power to operate four (4) – 1000 watt Metal Halide NEMA 4 Floodlights positioned on a 30 ft. manual telescoping tower assembled on a two wheel towable trailer then mounted within a Galvanized Offshore Skid base. This completed package will be able to illuminate approximately 5 to 7 acres and project a beam to illuminate a target area 200 ft. from light source. This unit will operate continuously for 48 hours. **Available in 50hz or 60hz packages.**



Inland Marine Skid-Mounted Light Towers

Model# BTK64MH-Trailer/Skid

Engine:

Water-Cooled Diesel Engine, no less than 12.5 hp @ 1,800 rpm. Complete with low oil and high temperature Engine automatic shutdowns, Key switch with a 12 volt stop/start solenoid, dual fuel filter system, industrial spark arrestor muffler and a dry type air cleaner filter. Easy access to oil drain and radiator ports. 12 volt high amp battery with battery cables and 12 volt alternator, 30 gallon fuel tank, 48 hour continuous operation without refueling.

Generator:

6,000 watt Single Bearing Design, 4 – pole, 120/240 volt @ 60hz, Class F minimum insulation. A four-wire generator hook-up with an external ground lug for completing both an electrical and mechanical safe grounding system.

Control Panel:

Centrally located control panel inside of light tower enclosure. Complete with 4 – floodlight switches individually circuit breaker protected. A running time meter and a battery charging indicator. Key switch for start and stopping engine. Glow plug indicator for preheating the engine before starting. And at least one 120 volt GFCI duplex receptacle for auxiliary power.

Spring Supported Floodlights:

Minimum of four (4) floodlights attached to the telescoping boom. These floodlights will have a wide beam pattern to produce a sufficient amount of light to provide save illumination over a minimum of 5 acres. Each floodlight will be equipped with a lamp support bracket to stabilize the lamp inside the floodlight housing and a Spring mounted fixture support system to absorb vibration abuse. Each floodlight will have its own water-tight rated male pin plug that will mate to a female receptacle located at top on telescoping tower.

Lamps:

Metal Halide Lamps will be supplied. Rated at 1000 watts each producing a minimum of 110,000 lumens of light per lamp.

Telescoping Tower:

This will be a 30 foot three section telescoping design tower. Each section will be **hot-dipped galvanized** to prevent friction and rusting between tower sections. The zinc used in the galvanizing process will act as a lubricant so that the tower sections can interact freely. The tower will be raised through the use of two manual self-braking winches, one located on the trailer tongue to pivot tower to upright position and the other to be located on the outer section of the first boom so that the tower can be raised easily to its desired mounting height. Tower will be able to rotate 360 degrees.

Boom and Skid Forklift Sleeves:

Forklift sleeves mounted on the outer section of the telescoping boom section will be provided so that the tower package can be easily loaded and unloaded onto trucks and trailers for transporting.

Compartment:

The gen-set and operating components of the light tower package will be mounted inside a protective compartment constructed of 14 gauge sheet metal. The compartment will have side doors for servicing and operation. Each door will have two latches to hold door securely while in use. The compartment will have air-flow ventilation and will be designed to operate with the doors closed.

Trailer/Skid:

This will be a two-wheel design trailer with a 2,200 lb. rated leaf spring axles. 14 inch wheels with protected fenders. A 2 inch standard ball coupling with running lights and safety chains. Trailer will be construction of heavy gauge steel. Skid will be **hot-dipped galvanized** after fabrication. Designed to allow the light tower package less tires to mount within base frame of skid. USCG Approved Lifting Eyes.

Outrigger System:

This will be a three-point design with the two rear outriggers being adjustable. Each outrigger will be equipped with a 1,500 lb. swivel jack for leveling tower. When outriggers are positioned, the tower at its full operating height will withstand wind loads up to 65 mph. Each outrigger will be **hot-dipped galvanized** to ensure operational performance within the outrigger sleeves. Outrigger removed when on skid.

Painting:

Units will be painted to customer specifications and color requirement. Standard Color.... WHITE

Applications:

Offshore Platform Lighting
Security Lighting Work-Over Rigs
Offshore Construction Projects
Barge Lighting - Work Boat Lighting

Standard 4-1000W Metal halide Floodlights



Electric Light Tower
Model# OSE-41000MH/OS

4-400W Metal halide Hazardous Location/ Explosion-Proof Floodlights



Explosion-Proof Electric Light Tower
Model# OSE-4400MH-EXP/OS

Hazardous Location Electric Light Tower
Model# OSE-4400MH-HL/OS

- 4-1000 Watt Metal Halide Bulbs
- 480V Input or 120/240V
- Illuminates 3 to 5 Acres
- Tower Rises to 25 ft.

- 4-400W Metal Halide Explosion-Proof Floodlights, Class 1 Div. 1 Group. CD.
- 4-400W Metal Halide Hazardous Location Floodlights, Class I Div. II
- 480V or 120/240V Input with Exp. Proof Plug
- Explosion-Proof On/Off Switch
- Tower Rises to 15 ft.
- Illuminates 3 to 5 Acres

USCG Approved Four Point Lifting Eyes - Forklift Pockets

All Models are Available in 50hz or 60hz Packages



Model#: OSE-41000MH/OS

Scope of Design:

This Light Product has 4-1000 watt Metal Halide Floodlight designed to be used around OFFSHORE work platforms and barge areas where system can be secured to deck grade. At 25 feet telescoping height of floodlights, this lighting package can project a beam pattern to illuminate up to 5 acres. Unit can be powered by a portable gen-set or utility power. 75 feet of SO Cord is hardwired to systems Main ON/OFF fused disconnect switch. Once power cord is connected to power source, one switch operates all 4 floodlights. Each floodlight can be adjusted to illuminate specific targeted work areas. These floodlights are not rated for hazardous use.

Electrical Spec:

4-1000 watt Metal Halide Floodlight Package within a protected metal cage powered by 480 volt, 3ph, 60hz, 6kva Electrical Supply. Main Power ON/OFF system fused disconnect switch that supplies 480 volt power to control panel ballast box. Each floodlight ballast is protected with 480v – 10amp fuses. Floodlights and Controls are all rated Nema 3R for use outdoors.

Dimensions: 48" Wide x 48" Deep x 120" Tall Weight: 350 lbs

Model#: OSE-4400MH-HL/OS Hazardous Location Design

Scope of Design:

This System is designed to be used in hazardous location areas. Light Tower Package can be secured to deck grade. At 15 feet telescoping height, this unit will project a beam pattern to illuminate up to 2 acres. Unit can be powered by a portable gen-set or utility power. 75 feet of SO Cord is hardwired to systems Main ON/OFF fused disconnect switch. Once power cord is connected to power source, On switch operates all 4 floodlights. Each floodlight can be adjusted to illuminate specific targeted work areas.

Electrical spec:

4-400 watt Metal Halide Floodlight rated for Hazardous Locations. Class 1 Div 2. Package within a protected metal cage powered by 480 volt, 3ph, 60 Hz, 3kva Electrical Supply. Main Power ON/OFF system fused disconnect rated Class 1 – Div 1 supplies 480 volt power to a 3kva Transformer with 120v output to explosion proof control panel fused disconnect ON/OFF switch. Floodlights and Controls are all rated for HAZARDOUS LOCATION USE / MARINE.

Dimensions: 48" Wide x 48" Deep x 120" Tall Weight: 300 lbs

Model#: OSE-4400MH-EXP/OS Explosion-Proof Design

Scope of Design:

This System is designed to be used in areas where hazards are present. Light Tower Package can be secured to deck grade. At 15 feet telescoping height, this unit will project a beam pattern to illuminate up to 2 acres. Unit can be powered by a portable gen-set or utility power. 75 feet of SO Cord is hardwired to systems Main ON/OFF fused explosion-proof disconnect switch. Once power cord is connected to power source, an explosion-proof switch operates all 4 floodlights. Each floodlight can be adjusted to illuminate specific targeted work areas.

Electrical spec:

4-400 watt Metal Halide Floodlight explosion-proof Rated. Class I Division I, Group C,D, T3 Temperature Code. Package within a protected metal cage powered by 480 volt, 3ph, 60 Hz, 3kva Electrical Supply. Main Power ON/OFF system fused disconnect rated Class 1 – Div 1 supplies 480 volt power to a 3kva Transformer with 120v output to Explosion Proof control panel fused disconnect ON/OFF switch. Floodlights and Controls are all rated for EXPLOSION-PROOF USE / MARINE.

Dimensions: 48" Wide x 48" Deep x 120" Tall Weight: 450 lbs



Industry Standard Light Towers

6KW - 8KW - 10KW - 15KW - 20KW

CONSTRUCTION-OILFIELD

SCOPE OF DESIGN

- 4-1000W Metal Halide Floodlights
- 30 foot Telescoping / 360° Rotating Tower
- 120 & 240 Volt, 1Ø, 60 Hz Generators
- Electrical Outlets
- 30 gallon Fuel Tanks

Options:

- Electric Winch Towers
- 45 Foot Towers
- 6-Floodlight System
- 1500W/1250W Lamps
- Spring Mounted Fixtures
- 50 Hz - 220V Electrical
- 125V/250V RV Oilfield Outlets
- 480V-208/120V. 3Ø Generators
- 3Ø Electrical Panels
- 60 gallon Fuel Tanks
- Cold Weather Kits
- Auto Start Systems
- Hazardous Location Package



BT-Models



BH-Models

Engine Panel:

Key switch to pre-heat, start/stop engine, limit breaker, hour meter, automatic low oil / high temperature shutdowns.

Engines:

Kubot water-cooled diesel: 6KW-8KW-10KW

Izusu water-cooled diesel: 15KW-20KW

Generators:

120/240V, 1Ø, 60 Hz, 1800 RPM... (50 Hz-220V optional)

Floodlights:

Four-(4) - 1000 Watt Metal Halides, Nema 4 wide beam spread

Tower:

30 foot telescoping, three section (galvanized) tower boom sections

360° rotating, coil tower cord, manual winches.

Trailers:

BT Model – 2200 lb. axel leaf spring, 14 inch tires, plastic fenders, 2 inch ball.

BH Model – 3500 lb. axel leaf spring, 15 inch tires, plastic fenders, 2 inch ball.

Electrical System & Controls:

Individual light switches ballast circuit protection, plug-in design.

BT-Model 120V only. BH-Model 120/240V.



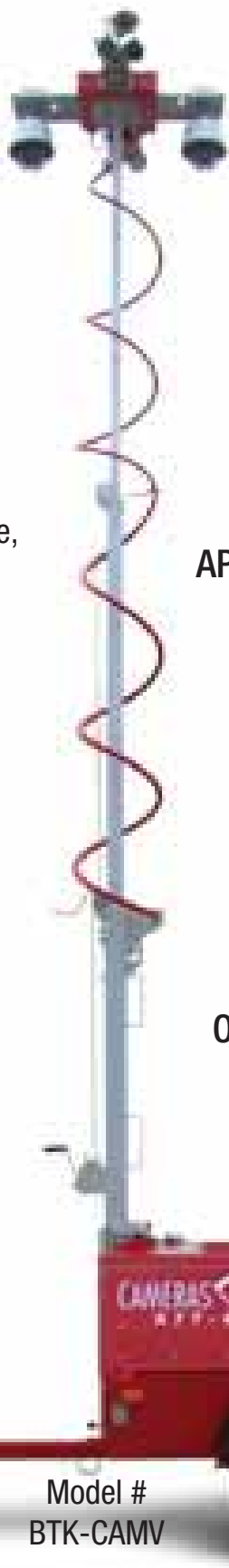
**Who is watching
Your Jobsite!**

CAM-V

.... Features onboard recording, wireless communication, multiple power options, and ALL infrared illumination. Also available, thermal imaging camera.

CAM-V delivers high quality video 24 hours a day.

Our rapid deployment mobile trailer design allows for one person set-up to monitor any location...



USA Manufacturer

Portable Jobsite

“ Watch-dog”

**Monitoring and Recording
SECURITY SYSTEM**

APPLICATIONS:

Project Management Tool allows viewing of Projects from anywhere in the World...

- Construction Site Monitoring
- Short / Long term surveillance
 - * Personnel Productivity
 - * Shipping / Receiving Verification
- Deters Theft and Criminal Activity

Onsite Cameras... keeps a watchful eye on your jobsite when you are not, On-site !!!



Model #
BTK-CAMV

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AVAILABLE**

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**Sales & Service Facilities
Houston, Texas**



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