

WCDE-4-20KW-MHL

20,000 Watt Generator - Water Cooled Diesel Engine - 30' Telescoping Tower - 4 Metal Halide Fixtures

Product ID: 106097

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



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WCDE-4-20KW-MHL Mobile Light Tower

Power: KUBOTA Water Cooled Diesel Engine

Generator: 20,000 watts, 120V/240V @ 50/60hz, 1800rpm

Lamps: 4- 1000 watt Metal Halides

Total Lamp Watts: 4,000 watts

Fuel: 25 Gallon Fuel tank

Auxiliary Power Supplies): 120V Duplex Receptacle, 240V Twist Lock

Boom Height: Up to 30 Feet

Efficiency: 110 Lumens per Watt

Total Lumens: 440,000

Coverage: 5 to 7 Acres

Noise Level: Db level 63 @ 23 ft

Mounting: Towable Trailer, 2000lbs Axle, 2" Ball Coupling

Run Time: 60 Hours on Single Tank of Fuel

Protection

External Grounding

Low Oil, High Engine Temp Auto Shut-Off

Three Point Outrigger System

Hour Meter - Alternator Warning

Individual Light Switch Circuit Breakers

Withstands 65Mph Winds at Full Extension

Special Orders - Special Requirements

Contact us for special requirements

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Made in the USA

The WCDE-4-20KW-MHL mobile light tower from Larson Electronics is a towable lighting package powered by a water cooled diesel engine turning a single bearing 4 pole generator which produces 6,000 watts and 120/240V@60Hz. With four 1,000 watt metal halide lamps producing 440,000

lumens this unit will illuminate a 5-7 acre area continuously without refueling for 60 hours.

The WCDE-4-20KW-MHL mobile light tower is a self contained towable light tower package that produces enough light to illuminate an area up to 7 acres in size. This unit contains a water cooled diesel engine powering a 20,000 watt generator, which supplies the current to four 1,000 watt metal halide lamps producing 110,000 lumens each for a combined total of 440,000 lumens of light. This unit can run uninterrupted for 60 hours straight without refueling and includes a telescoping light mast which can elevate the four metal halide lamps to a height of 30 feet. This mobile floodlight package is ideal for emergency services, large scale event illumination, construction, mining, industrial operations and anywhere an extended operation capable mobile lighting solution is needed.



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The WCDE-4-20KW-MHL mobile light tower incorporates a long list of impressive features. The diesel engine is a water cooled Kubota that operates at 1800 rpm. This engine features key operated electric starting, a full twelve volt electrical system, automatic low oil pressure and high temperature safety shutoffs, dual fuel filters and easy access oil and radiator drain ports to facilitate maintenance. A 25 gallon fuel tank allows the engine to operate for 60 hours continuously without refueling. The 20,000 watt generator is a single bearing design and produces 120/240 volt current at 60 Hz. The generator uses a four wire hookup system with an external ground allowing for setting up both electrical and mechanical safe grounding systems.



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Lights: The lighting system on this unit is comprised of four 1,000 watt metal halide lamps producing 110,000 lumens of light each attached to the end of the telescoping light boom. These floodlights produce a wide flood light pattern capable of illuminating a minimum of 5 acres with a combined total of 440,000 lumens of light. Each floodlight is securely fastened to the light boom and each lamp includes a support bracket to help maintain lamp stability within its housing. The lamps are connected to the power source via a water tight male pin connector that attaches to a receptacle located on the end of the telescoping boom.



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Controls: The operations system for this unit is a centrally located control panel within the light tower enclosure. Four circuit breaker protected switches allow individual control of the lights while an individual hour meter tracks unit operating time. Also included is an alternator warning light, fuel primer system, preheating switch, 120 volt GFCI duplex receptacle for auxiliary power takeoff and a 240V twist lock power receptacle.

Telescoping Boom: The telescoping boom consists of three sections extending up to 30 feet through the use of two manual self braking winches and allows for rotating the lights 360 degrees. One winch is mounted to the trailer tongue and acts to raise the tower into a vertical position while the other is mounted to the boom and is used to extend the tower to the desired height. The telescoping boom is constructed of galvanized steel to resist rusting and corrosion and is capable of withstanding 65 mph winds when extended to its full height and the stabilizing outriggers are deployed. The stabilizing outriggers are a three point design with one located under the trailer tongue and two on the rear sides of the unit. The two rear outriggers are adjustable and include 1,000 lbs swivel jacks for leveling and stabilizing the tower.

Housing: All of the operating components are housed within a protective compartment constructed of 14 gauge steel and designed to provide airflow for cooling. Side doors provide access to the interior while latches provide secure closing while the unit is in use. The design and construction of this enclosure along with the commercial grade muffler system helps this unit operate at a low 63 Db noise level @ 23 ft. The entire unit can be loaded and unloaded onto trucks via forklift sleeves mounted to the outer section of the light mast. The entire unit is mounted onto a two wheel trailer with a 2,000 lbs leaf spring axle. A standard two inch ball coupling and two standard safety chains allow for easy hookup and towing.

Frequently Asked Questions (FAQ)











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Export Control Classification Number (ECCN): EAR99

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