



REDHAWK
ENERGY



RP Series Retractable Mast

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RP Series Retractable Mast

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RedHawk Energy Systems, LLC

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RP Series Mast

Pioneer for Safety & Convenience

The innovative RP Series Retractable Mast is a safe and convenient solution for mounting solar arrays to a pole structure at ground level. Introduced in 2001, following a 3 year development, the patent pending RP Series Retractable Mast system is the first and only mast system of it's kind to retract to ground level along the same axis. The RP Series Retractable Mast provides unparalleled convenience and dramatically improved safety to the installation, operation, troubleshooting and maintenance of pole mounted solar power systems.

How It Works

The RP Series Retractable Mast features a movable exterior sleeve that travels up and down a fixed mast. This allows equipment (solar arrays) to be mounted to the pole structure at ground level. The equipment (solar arrays) can then be raised along the same axis manually (hand-crank) or via a power drill. In like fashion, periodic maintenance, troubleshooting and equipment replacement can be achieved by lowering the sleeve to ground level. The system remains fully operational, even in its lowered position.



RP Series Mast in lowered position



Versatile

Available in 20', 25' and custom height configurations.



Heavy-Duty Construction

8" and 6" Schedule 40 aluminum masts with retractable sleeves.



Stainless Steel Hardware

Standard corrosion resistant hardware, tamper resistant (option).



Fail-Safe Fall Protection

Sleeve fall protection device (brake) actuates should lifting cable/chain break to prevent sleeve from falling down pole.



Corrosion Resistant Direct Drive Chain

Supports positive raising and lowering functionality.



Multiple Guide Bearings

Provide smooth, bind-free operation of the traveling sleeve.



Full Length Alignment Track

Maintains equipment directional alignment from the lower to upper positions of the system.



Integrated Wiring Management

All wiring is self-contained within the pole in a helical coiled assembly eliminating wiring handling by personnel when raising and lowering the mast.



360° Rotation of Equipment

Welded rotational collars allow equipment to be rotated a full 360° for proper alignment without slippage down the pole.



Heavy Duty Dual Drive Gear Winch

Robust dual drive gear design gives personnel the choice of either a high gear or low gear to help facilitate faster and easier raising and lowering capabilities.



System Footprint

Raises and lowers along the same axis as the foundation and thus it's footprint is identical when it's in the raised and lowered positions.



Fully Operational in All Positions

Raising and lowering along the same axis as the foundation enables the mast to be fully operational in both raised and lowered positions. In environments prone to high winds or hurricanes, the mast can be lowered to prevent damage, but all the while remain operational.



Optional Tilt-Down Wind Generator Adaptor

An optional tilt-down adaptor is available for mounting additional equipment (wind generator) to the mast system.



Made in the USA



Can be raised and lowered manually (hand-crank) or via a power drill



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About Us

RedHawk Energy Systems, LLC is a manufacturing and value-added subsidiary of the Arthur N. Ulrich Company. We specialize in the design, engineering, fabrication and installation of alternative energy systems, battery systems and battery maintenance accessories for critical remote site, utility grid-tie and backup power applications.

Quality Wayside Power Solutions:

-  ***Positive Train Control***
-  ***Intermediate Signals***
-  ***Highway Crossings***
-  ***Track Circuit Power***
-  ***Control Points***
-  ***AEI, Hot Box & Defect Equipment Detectors***
-  ***Pole Line Replacement Programs***
-  ***Telecommunications***



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