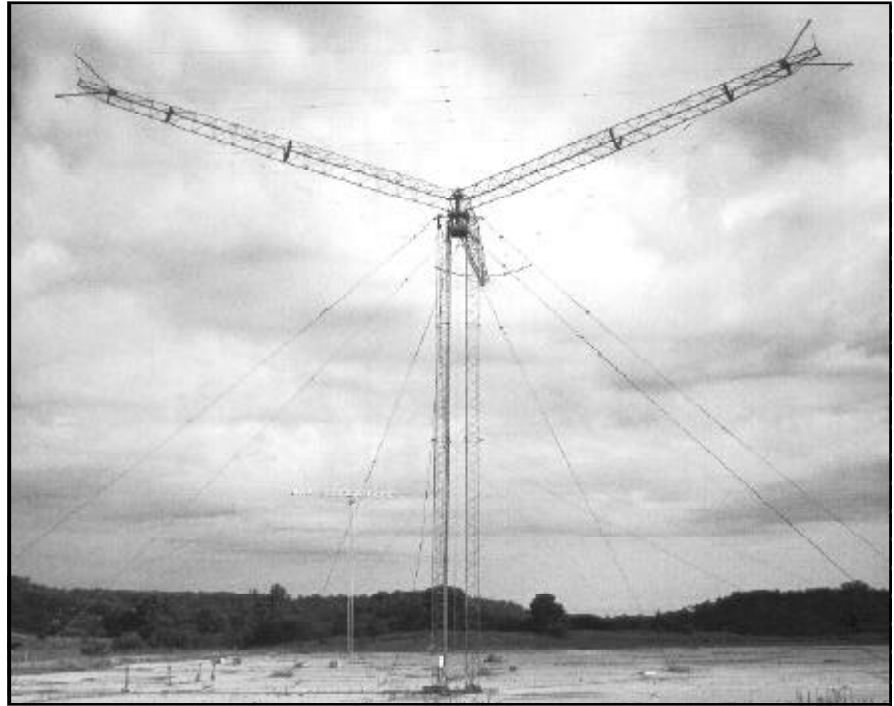
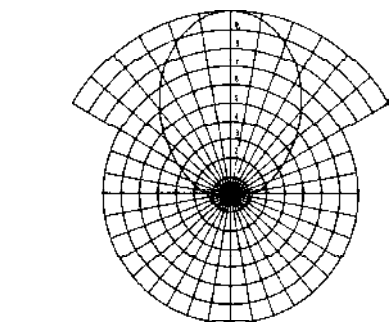
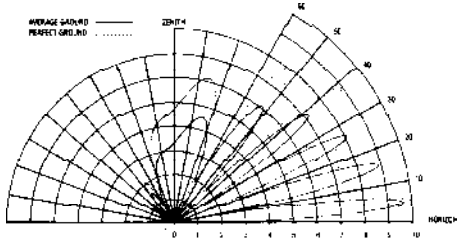
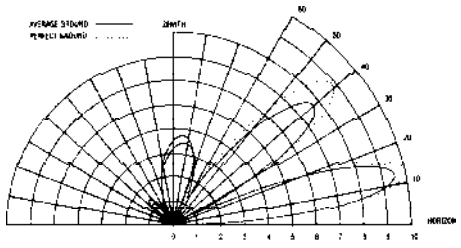
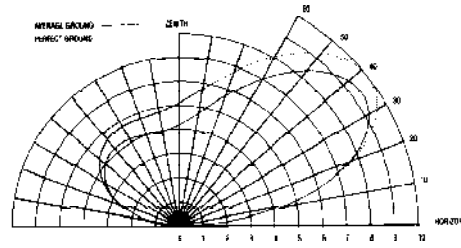


LPH-89

- ROTATABLE
- HORIZONTAL POLARIZATION
- LOG PERIODIC
- MIL TYPE NUMBERED



Applications

The LPH-89 provides excellent reliability in medium to long range HF circuits. The rotatable antenna allows high-power communications between a fixed station and mobile station, such as ships, aircraft, or tactical deployments.

Features

The LPH-89 is a heavyweight rotatable log periodic antenna which has unique six-way guying that gives the twin towers added rigidity in hurricane-force winds. A base-mounted balun matches the 200 Ohm antenna to the customer's 3-1/8 inch, 50 Ohm input.

Characteristics

The LPH-89 (Military Type AS-3482/GRC) is a heavy-duty, 4-30 MHz rotatable log periodic antenna produced to U.S. Air Force and Navy standards. The alumoweld strand radiating array is completely factory preassembled with

well-rounded swaged fittings enhancing reliability and high power capability. The top-mounted rotator can seek at 0.4 rpm any selected azimuth allowing for rapid acquisition of a mobile communications target. The three support booms are constructed of 6061-T6 aluminum for high strength, low weight, and good corrosion resistance.

Equipment Supplied

Radiation array, three support booms, rotator twin towers and guys, feedline, balun transformer, and remote control.

Optional Equipment

Obstruction lights, climbing devices, electric erection winch, erection kit, and computer interface.

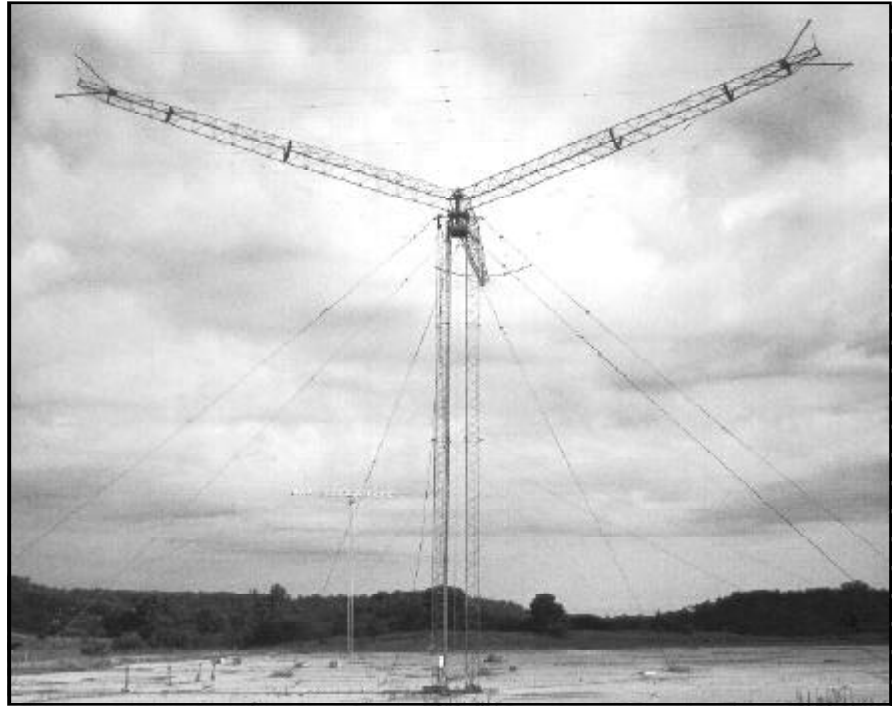
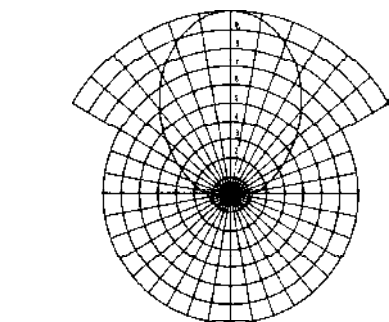
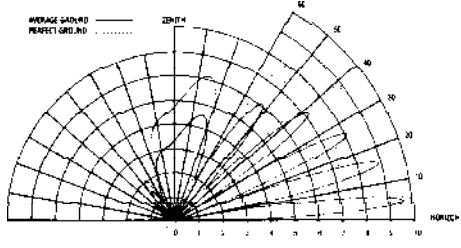
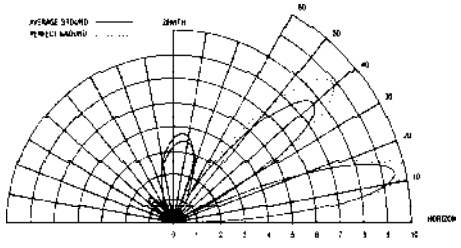
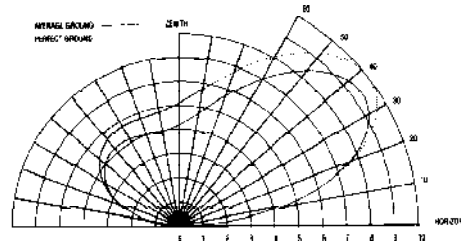


SPECIFICATIONS	LPH-89	LPH-89I
Frequency Range	4-30 MHz	2-30 MHz
Power Capability	25 kW avg/50 kW PEP	10 kW avg/20 kW PEP
Input Impedance*	50 Ohms unbalanced	50 Ohms unbalanced
VSWR	2:1 maximum	2:1 maximum
Input Connector	3-1/8" EIA	3-1/8" EIA
Gain	4-6 MHz 9 dBi	9 dBi
	6-30 MHz 12 dBi	12 dBi
Front-To-Back-Ratio	4-6 MHz 10 dB minimum	10 dB minimum
	6-30 MHz 14 dB minimum	14 dB minimum
Side Lobes	13 dB	13 dB
Rotation	± 180°, seeks azimuth at 0.4 rpm	± 180°, seeks azimuth at 0.4 rpm
Wind Loading	150 mph, no ice 90 mph, 1/2" ice	150 mph, no ice 90 mph, 1/2" ice
Erected Dimensions (H x L x W)	92 ft x 182 ft x 160 ft	92 ft x 182 ft x 160 ft
Radius of Rotation	70 ft	70 ft
Shipping Weight	17,000 lbs	17,000 lbs
Shipping Volume	970 cu ft	970 cu ft

*With Balun Transformer (supplied)

LPH-89

- ROTATABLE
- HORIZONTAL POLARIZATION
- LOG PERIODIC
- MIL TYPE NUMBERED



Applications

The LPH-89 provides excellent reliability in medium to long range HF circuits. The rotatable antenna allows high-power communications between a fixed station and mobile station, such as ships, aircraft, or tactical deployments.

Features

The LPH-89 is a heavyweight rotatable log periodic antenna which has unique six-way guying that gives the twin towers added rigidity in hurricane-force winds. A base-mounted balun matches the 200 Ohm antenna to the customer's 3-1/8 inch, 50 Ohm input.

Characteristics

The LPH-89 (Military Type AS-3482/GRC) is a heavy-duty, 4-30 MHz rotatable log periodic antenna produced to U.S. Air Force and Navy standards. The alumoweld strand radiating array is completely factory preassembled with

well-rounded swaged fittings enhancing reliability and high power capability. The top-mounted rotator can seek at 0.4 rpm any selected azimuth allowing for rapid acquisition of a mobile communications target. The LPH-89J variant has the frequency range extended to 2 MHz with resistive loading.

Equipment Supplied

Radiation array and support booms, rotator, towers, guys, feedline, balun, computer interface remote control, safety climb devices, erection winch and LED obstruction lights.

Optional Equipment

Solar powered LED Obstruction lights, and powder coating finish for maximum corrosion prevention.

SPECIFICATIONS	LPH-89	LPH-89J
Frequency Range	4-30 MHz	2-30 MHz
Power Capability	25 kW avg/50 kW PEP	10 kW avg/20 kW PEP
Input Impedance*	50 Ohms unbalanced	50 Ohms unbalanced
VSWR	2:1 maximum	2:1 maximum
Input Connector	3-1/8" EIA	3-1/8" EIA
Gain	4-6 MHz 9 dBi	9 dBi
	6-30 MHz 12 dBi	12 dBi
Front-To-Back-Ratio	4-6 MHz 10 dB minimum	10 dB minimum
	6-30 MHz 14 dB minimum	14 dB minimum
Side Lobes	13 dB	13 dB
Rotation	± 180°, seeks azimuth at 0.4 rpm	± 180°, seeks azimuth at 0.4 rpm
Wind Loading	150 mph, no ice 90 mph, 1/2" ice	150 mph, no ice 90 mph, 1/2" ice
Erected Dimensions (H x L x W)	92 ft x 182 ft x 160 ft	92 ft x 182 ft x 160 ft
Radius of Rotation	70 ft	70 ft
Shipping Weight	17,000 lbs	17,000 lbs
Shipping Volume	970 cu ft	970 cu ft
*With Balun Transformer (supplied)		