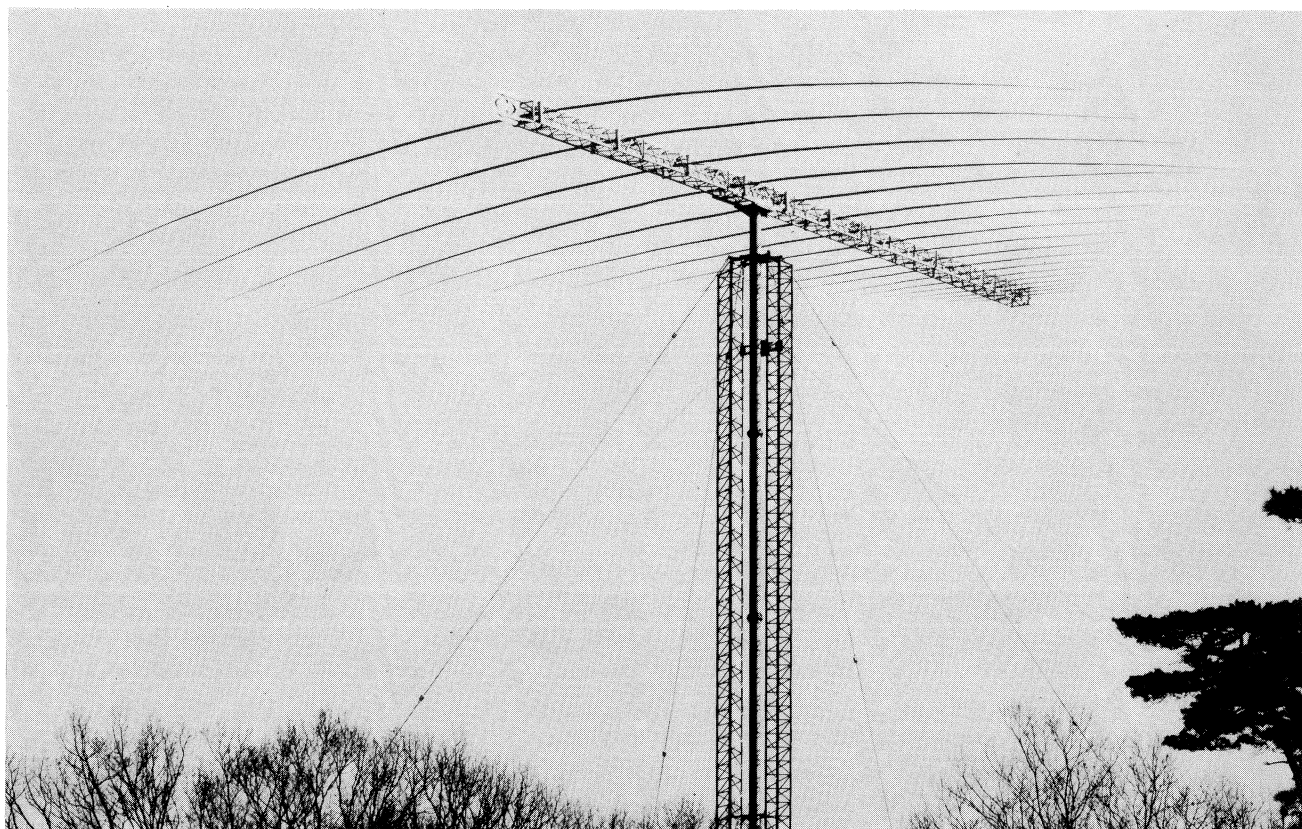




Rotatable Log-Periodic Antenna

CLP4030

- ★ Broad Band 4 ~ 30MHz
- ★ Small Land Area
- ★ Easy to Erect



DESCRIPTION AND APPLICATION

The CD 4030 series rotatable log-Periodic antenna systems offer a performance capability previously unavailable. The unique characteristics of these system provide reliable communications over short, medium and long-range paths. Design innovation incorporates broad frequency coverage of 4 to 30MHz together with a mechanically stable structure. Two models of rotatable log-periodic antenna systems covering the frequency range of 4 to 30MHz are available. Engineered and developed by CD, these are the first antennas of their type to offer the operation and performance capability over the entire 4to 30MHz range. The model CLP4030B is a high gain ruggedly constructed log-periodic antenna. The CLP4030 series is a reduced-element length version of the CLP6030B. Needing neither matching circuits nor ground screen, these antenna can be easily erected wherever there is space enough for the tower. The performance specifications and operational characteristics have been authenticated by actual field tests. The systems are complete with antenna array, support structure, all the necessary guys and guy anchors, rotator assembly and remote control unit. Each models are equipped with dual support structures. Installation of these systems may be accomplished without the use of cranes, boom trucks or other heavy equipments.

SPECIFICATION SUMMARY

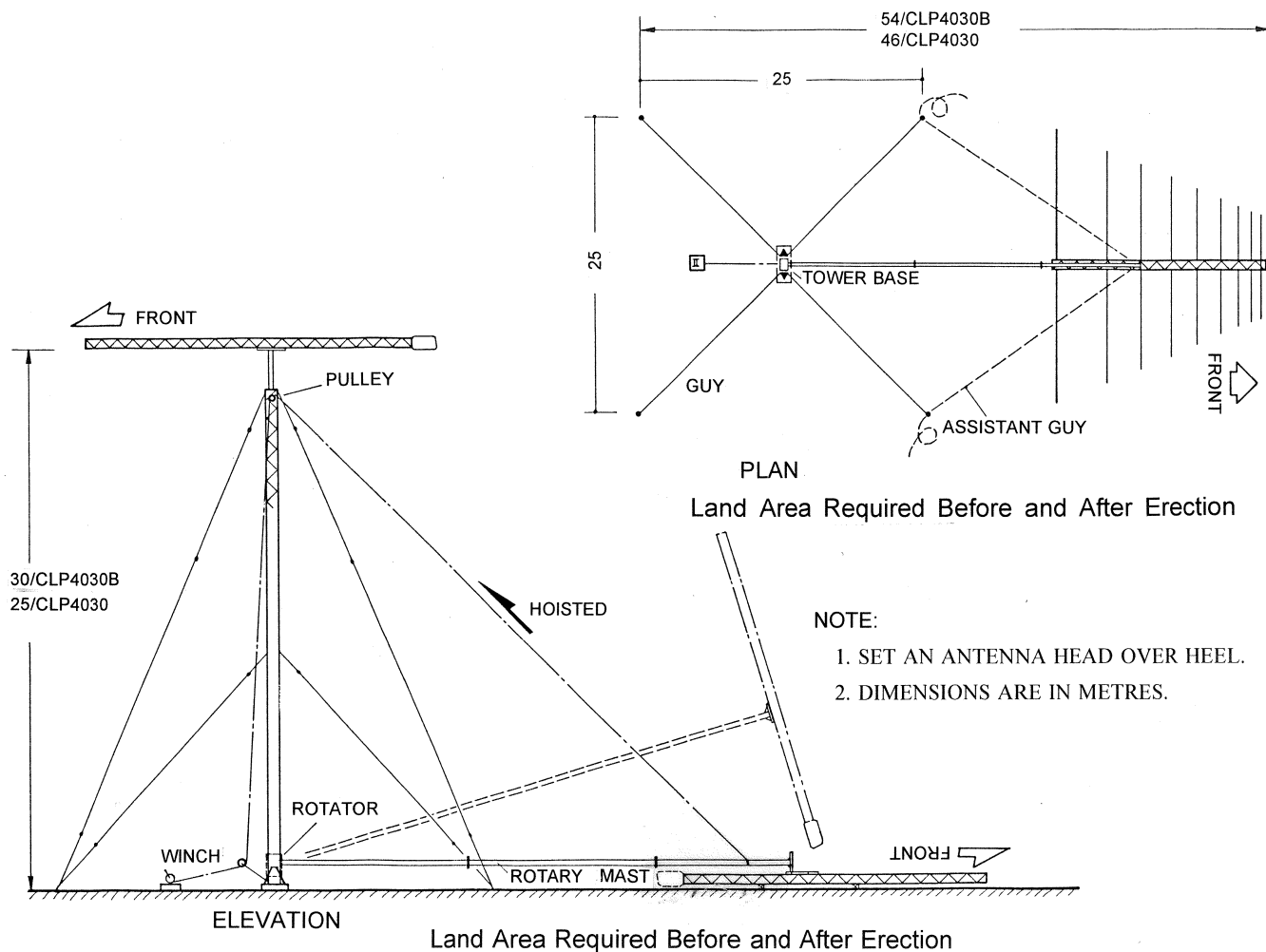
Model No.	CLP4030	CLP4030B
Frequency Range	4~30 MHz	4~30 MHz
Polarization	Horizontal	Horizontal
Forward Gain		
Above 6 MHz	11 dBi	12 dBi
Below 5 MHz	9 dBi	10 dBi
Front To Back Ratio	8~14 dB	8~14 dB
Azimuth Beamwidth	80~70°	70~60°
Input Impedance	50 ohms	50 ohms
VSWR Above 6 MHz	2.0:1	2.0:1
Below 5 MHz	2.8:1	2.0:1
Antenna Height	25 m	30 m
Boom Length	18 m	21 m
Longest Element	25 m	25 m
Turning Radius	16 m	18 m
Total Number of Elements	16	17
Wind Loading Capability	45 m/s	45 m/s
System Net Weight	3450 kg	3950 kg
Recommended Rotator	RC100	RC100B

Power Capability and Input Connector:

CLP4030-x-1	Transmit 1kW/2kW PEP, Type -N-
CLP4030-x-2	Transmit 3kW/5kW PEP, Type 7/8" EIA
CLP4030-x-3	Transmit 6kW/12kW PEP, Type 1-5/8" EIA
CLP4030-x-4	Transmit 10kW/20kW PEP, Type 1-5/8" EIA

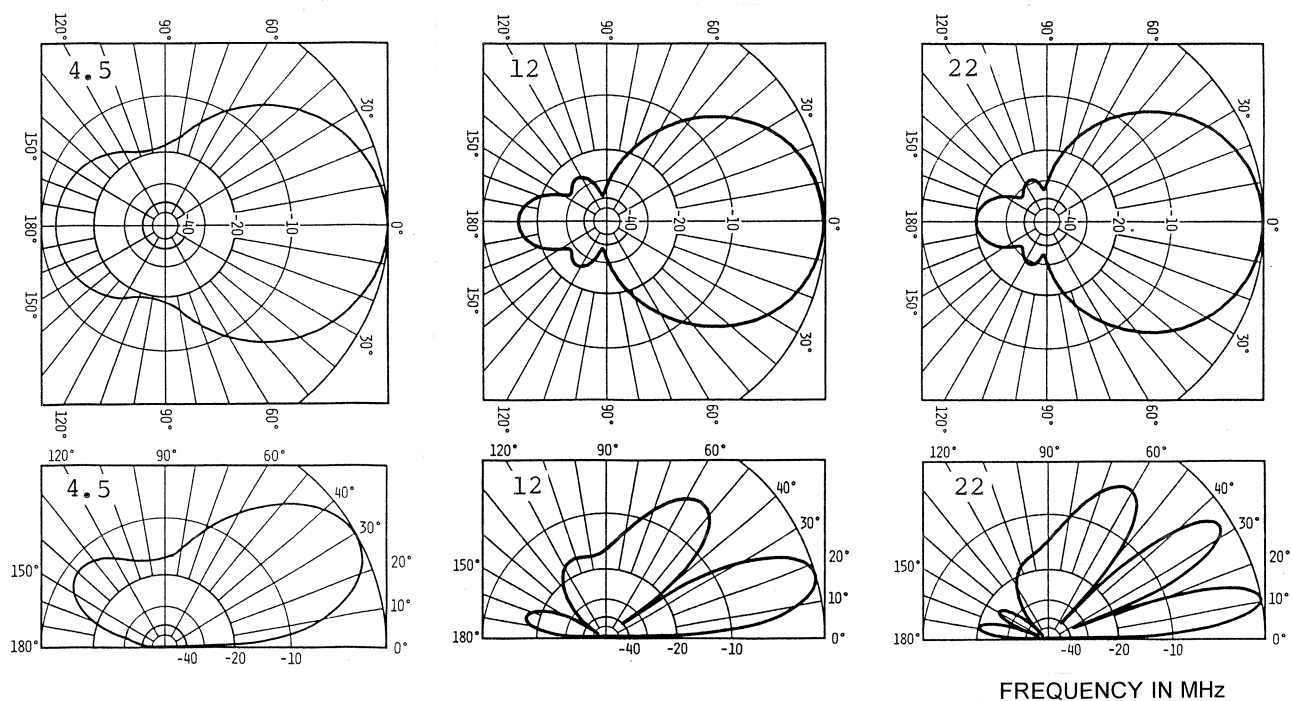
ERECTION

Rotatable HF LP-Antennas are very large structures which can present problems during the erecting and lowering phases. These problems are associated with the weight of the antenna, the antenna/rotary mast configuration during the erection/lowering process and the procedures used. The CD model CLP4030 has a tiltable rotary mast is extremely important during the initial installation phase and more importantly at the times of normal routine maintenance.



Radiation Patterns

Model CLP4030B Mounted on 30m Above the Ground



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