



Communications & Power Industries



malibu division

CPI Malibu Division Company Profile

Telemetry Products Overview



CPI Malibu Division is one of the world's leading suppliers of telemetry antenna systems. Since our beginning in 1975 we have fielded more than 700 antenna systems. Our facility is fully certified to ISO-9001:2008 and is compliant to US and Foreign military standards. We offer a full range of services from design and prototype development to manufacturing, testing, installation, field service and support.

Our facility has over 38,000 sq. ft. of floor space including 15,000 sq. ft. of high bay assembly area and an in-house CNC machining center. A large anechoic chamber and a compact range enable us to run a full range of tests prior to delivery of each antenna system.

Systems can be supplied as ground-based, transportable, mobile or shipboard (gyro stabilized). CPI Malibu equipment is providing reliable service from the polar to the equatorial regions of the world.

We specialize in mobile platform installations such as single or tandem axle trailers or vans. These systems can be outfitted to include scissor lifts, storage racks/boxes, tool boxes, cable reels, operational warning lights, dehydrators, and other optional items.

Products:

Our product line includes the reliable Harmonic Drive (HD) series pedestals which are capable of high pointing accuracy with fast slew rates. Parabolic reflectors from one meter to seven meters in diameter are available.

Pedestals have high output torque with low backlash; this is accomplished through the use of planocentric gearboxes and brushless DC motors. These rugged gearboxes use

built-in angular ball bearing construction, which improves their ability to support external loads, increases stiffness and maximum allowable moment. The result is increased reliability and a reduction in maintenance. Roller bearings are used throughout the gearbox to yield low backlash while pedestals are designed with servo amplifiers that have protection for over-current, voltage, and temperature.

Antenna Control Units (ACU) with analog or digital interfaces come as standard 19 inch rack mount units. They utilize commercial off-the-shelf hardware for a high level of functionality, field-proven software, and superior reliability. The Operating systems are based in Windows™, or Linux; ACU interfaces are available in analog, Ethernet, RS-232, RS-485, IEEE-488 and fiber-optic connections.

We manufacture conically scanned feeds that will cover the L and S frequency bands as well as conscans for the recently approved C-band. System design is accomplished with internally developed, computer-aided electrical engineering design and RF simulation tools which go beyond commercially available programs. Mechanical engineering analysis and design programs include AUTOCAD and COSMOS/M, Matlab, and SIMULINK Software Tools.

Options that can be fitted to your antenna system include acquisition-aid antennas, boresight antennas, camera systems, and compass / inclinometers.

CPI Malibu also produces several non-autotracking antennas, such as omni-directional, helical and manually steerable antennas.

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Product Support:

Spares:

CPI Malibu maintains a wide inventory of spare parts to support your needs. Spares may be purchased by contacting our factory office below or by contacting your local CPI representative.

Maintenance Agreements:

CPI offers Product Maintenance Agreements customized to meet your individual requirements. Agreements can include installation, maintenance and emergency provisions.

On-Site Installation Assistance:

When your antenna system is delivered, CPI offers on-site installation assistance. Your new equipment is assembled and tested, then we train your local staff to operate it.

Training:

CPI offers training classes at our factory in Camarillo, California or at your local site. Classes include operating instruction, periodic maintenance, and troubleshooting of antenna systems.

