



## **CYTORQ DX PRO 5000**

### **TOWER TOP ANTENNA POSITIONER**

#### **INTRODUCTION**

**CYTORQ DX PRO** represents a new generation of antenna positioners. They are designed specifically for handling large antenna arrays in extreme conditions.

We wanted to build the worlds best rotator, we started by asking users what they wanted. They said "give us quality, reliability and strength".

Our design incorporates the latest components and materials. The design is implemented using the latest computer based tools and solid modeling software. Our production uses the latest precision CNC manufacturing techniques.

The quality is designed in -- not patched on.

#### **DESCRIPTION**

The **CYTORQ DX PRO** provides up to 5000 in/lbs of rotating torque in a compact package that will fit in a wide range of towers.

The positioner mounts in the tower below the mounting shelf for torque transfer directly from the output stage to the tower. Machined saddles are used to clamp the mast to the output flange which is connected to the output shaft with high strength dowel pins. Double seals are used between the output flange and housing.

The output stage is contained in a CNC machined billet aluminum housing. The output shaft runs through massive back-to-back roller bearings to handle extreme axial and radial loads.

Output torque is through five heat treated planet gears driven by a two stage planetary reducer (20,000 hour service life). Drive is a high torque stepper motor. A disc brake doubles as a mechanical circuit breaker.

A companion controller, **CYTROL**, provides convenient desk top operation plus an interface for remote computer control. Units may be slaved together for tracking of horizontal or stacked arrays.

**CYTROL** features intuitive operator controls. All operation is accessible by a single level menu. Operating parameters are programmable in precise digital increments.

With the **CYTROL** controller, accuracy is achieved by advanced motion control software. Precision acceleration/deceleration profiling minimizes tower, antenna and positioner stress.



#### **FEATURES**

- 5,000 in/lbs turning torque
- Up to 45 sq ft antenna
- Rugged stackable friction mast clamps
- Mechanical overload protection
- Brushless digital motor
- 90 second slew over full range
- 0.1 degree accuracy, 1 minute resolution
- Programmable acceleration, speed and limits
- Point and shoot preset
- Slaved tracking with other **CYTORQ** models
- Serial interface

## SPECIFICATIONS

### General

Rotating torque in/lbs	5,000
Holding torque in/lbs	18,000
*Ant size sq/ft	45
Vertical load lbs	2,000
Radial load lbs	2,500
Backlash arc/min	20
Tower compatibility	
US Tower	TX, HDX up
Rohn	45, 55 up

### Physical

#### Size

Positioner length in	18
Weight lbs	47
Diameter in	6.5

Construction	Steel drive train with heat treated chrome moly gears Machined aluminum case
Finish (exterior)	Aluminum - natural/painted Steel - plated

### Electrical

Cable	8 conductor (std rotor cable)
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### Environmental

Operating temp °C	-20 to +55
Humidity %	0 to 100
Altitude ft	- 200 to 10,000

\*Specified at STP (standard temperature and pressure), 50 MPH average wind speed with 125% gust factor and 5% antenna wind imbalance (typical Yagi).

Specifications subject to change without notice or obligation.

## ORDERING INFORMATION

Pricing - shown in US dollars (\$)

Model

**CYTORQ DX PRO 5000**      \$3,199.00

Includes mast clamps - Specify mast OD when ordering.

Requires **CYTROL** controller - see separate data sheet for description and pricing.

Contact factory for assistance on special requirements.

**MADE** in the USA by **ULTRALINK**, Inc.

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