



TetraTek Products, Inc.

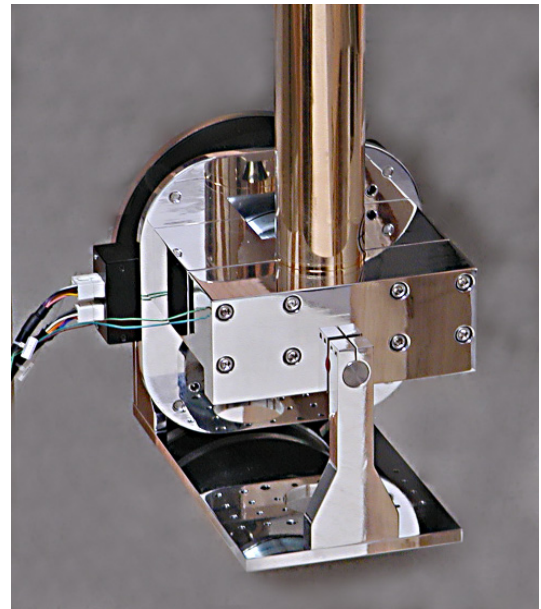
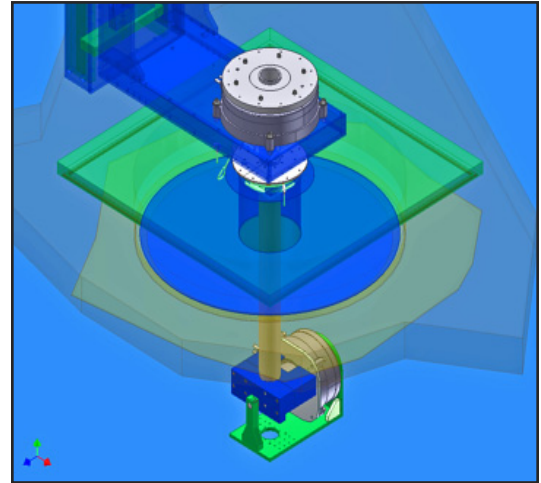
We Put It All Together

Large Scale Servo Controlled Product Positioning System

Upgrading a previously manufactured TetraTek vertical transfer robot, TetraTek has manufactured a high precision rotational azimuth and angular gimbal (pitch) system.

This assembly includes:

- A precision hollow core servomotor with a built-in 819,200 count per revolution resolver and an absolute position detector to rotate the shaft assembly in the Azimuth direction.
- A closed loop digital servo 32-bit microprocessor driver equipped with Device Net Communications for the Azimuth motor.
- A precision hollow core servomotor with a built-in 819,200 count resolver with an absolute position detector and an attached brake to rotate the Gimbal assembly in the Pitch direction.
- A closed loop digital servo 32-bit microprocessor controlled driver with a Device Net Communications for the Pitch motor.
- A machined, mechanically polished and electropolished, aluminum Pitch Plate and Pitch Motor Mounting Assembly with a secondary bearing to support the Pitch Plate.
- A machined, mechanically polished, and gold plated, stainless steel Stem Tube.



This system is capable of:

- Azimuth repeatability of + or - 1.6 arc seconds.
- Pitch repeatability of + or - 1.6 arc seconds.
- An operating load of 75 pounds.

TetraTek Products, Inc.

501 South Reino Road, Unit 335, Newbury Park, CA. 93012, USA
Telephone: 805-376-0540, Email: applications@tetratekproducts.com
Internet: <http://www.tetratekproducts.com>

