CHAMP is a PC based, feature rich conveyor control system developed by Tech King Operations. CHAMP's features provide you with an array of benefits including proven standard software components, and off the shelf, user friendly hardware allowing for maximum cost savings and quick installation. CHAMP combines real time control of material handling equipment with many WCS data handling and interface features. This streamlined approach removes the complexity of the control system architecture and eliminates interface points of failure between multiple controllers.

The base components of CHAMP include:

- Picking, receiving and transportation conveyors
- Pick and pass system
- High speed sortation
- Multiple high speed merge configurations
- Motion Control servo product spacing
- WMS/Host interface
- Human Machine Interface (HMI)

The CHAMP PC-Based Controller configuration provides real time equipment control functions by interfacing directly with the system I/O. Additionally, CHAMP provides access to powerful operator and maintenance information through its user friendly interface and graphical overview screens.

CHAMP's user interface screens provide an excellent HMI to the CHAMP controller allowing one to view the following menus:

- System status
- Alarms
- Graphical system overview with drill down details
- Statistical information
- Maintenance access to I/O, timers, counters and devices
- System timing and calibration
- Carton product data and status
**CHAMP** is configured with Windows2000 server to allow multiple users full access to screen information. **CHAMP** can also be configured to interface with a WCS such as Tech King Operations' SmartMoves or directly to the Host/WMS computer to accept sortation assignment downloads and report diverted carton information. Database functions are handled internally by integrating them into the conveyor controller thus data exchange delays are greatly reduced and the potential for failure of another computer or controller is eliminated. **CHAMP**'s installed base has proven it to be a reliable equipment controller with robust interface and a variety of data handling features.

The above are examples of Tech King Operations' Web based statistical reports. They are clear, accurate and easy to learn and read. They provide real time information for the user.