Electric Cam Package

Electric Cam • Synchronized Motion Controller

This controller operates by the motion pattern data with synchronized multi axes cyclic motion such as servo press and high speed transfer.

- **Achievements**
  - High Speed Insertion: High speed synchronization of Spindle 3000 rpm □ 20 msec cycle □
  - High Speed Transfer: Accurate picking and/or alignment
  - High Speed Assembly: Several tens of msec cycle for insertion/mounting/forming
  - Force and Torque Control: Servo press/Injection Molding/Bending

- **Merits with TECHNO Electric Cam**
  - Precise Motion Pattern: provide accurate and elaborate motion
  - Easy Definition: specify the motion pattern for each axis by direct setting
  - Creating Motion Patterns: create motion patterns by PC software and validate them by the graphical representations
  - Changing Motion Patterns: change the operation pattern immediately on a particular condition during the operation
  - Optimum Setting: adjust and confirm the Force/Speed/Position by the quantitative analysis.
  - Combination with TECHNO code: be compatible with Electric Cam and various motions as a production machine

- **TECHNO Electric Cam**
  - Setting: set the position data □Electric Cam□ on the table for each axis based on the spindle position
  - Control: control multi axes corresponding to the spindle position by real-time calculation

- **PC TECHNO OPEN-MC**

- **Electric Cam Table**

- **Image of synchronized machine**

- **Creation of Motion Pattern by PC software**

- **NC Technology for High Speed Synchronization**
  - Small interpolation with accurate continuity
  - Multi Axes Synchronization
  - The complete synchronization with spindle and the others axes
  - The quantitative analysis for motions

- **Open Motion Controller for Electric Cam**
  - **SLM4000**
    - one board stand alone
    - 4 pulse train axes control
    - 32 inputs 32 outputs
    - RS232/USB
  - **PLMC-MIIE**
    - plc module type
    - MECHATROLINK-
    - 4/9/16 axes Max 30 axes
    - extension by plc other module
  - **PLMC40**
    - plc module type
    - 4 pulse train axes control
    - 16 inputs 16 outputs
    - extension by plc other module
  - **Multi Axes Motion AMP.**
    - Motion Control
    - Servo AMP. Max 7 Axes
    - 42 inputs 42 outputs
    - ( max 256/256 ) Cable-less

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