Precise Cutting Package.

Precise Cutting Motion Controller

Precise Cutting Motion Controller provides the type of operation such as precision cutting and welding as same as a high level NC machine. Also this controller broadens the possibility of the various operations and give opportunity to meet customer's expectations.

■ Achievements
precision cutting, laser cutting, welding, lathe, auto lathe, drilling, polisher, marking, EDM, molding, bending, knitting machine, forming press, wiring, dispense

■ Tangible merit base on examples
◆ double productivity by implementing Precise Cutting Pack. into a general machine
◆ 5-axes cutting at high speed DNC on the original CAM
◆ lens polishing by 9 axes interpolation
◆ precise cutting for minute modeling

■ General and optional functions.
◆ small interpolation with precise continuity  
  ![Small interpolation with precise continuity](image)
◆ accurate contouring
  ![Accurate contouring](image)
◆ tool diameter compensation  
  ![Tool diameter compensation](image)
◆ parallel axes & Gantry
  ![Parallel axes & Gantry](image)

◆ lathe & thread-cutting  
  ![Lathe & thread-cutting](image)
◆ tool set
  ![Tool set](image)
◆ tangent-control
  ![Tangent-control](image)
◆ rigid tapping
  ![Rigid tapping](image)
◆ DNC
  ![DNC](image)

◆ others  
  corner override, S-curve acceleration/deceleration, manual pulse generator, spindle control, tool length compensation, pitch error compensation, torque control, macro function, multitask, CAM interface, DFX interface

■ Performance like an advance NC.
G code TECHNO code
Multi-axis interpolation (9 axes)
Multitask

■ High performance and functions beyond a normal NC
Small interpolation with accurate continuity (0.5 msec)
Combination of the cutting machine and other type of machine for auto control with various options

■ High-precision
High precision contouring
Precision analysis (locus, velocity)

■ Operation by original application software
Software interface is open so that EXCEL or general software is allowed to operate precise cutting motion controller directly.

■ effective customization (over hundreds cases)
◆ customized IO control: control for a laser power or a specific type of head for main axis
◆ special motions : effectively customize a canned cycle and precise motions

■ Precise Cutting Motion Controller
◆ SLM4000
  one board stand alone
  4 pulse train axes control
  32 inputs 32 outputs
  RS232 /USB
◆ PLMC-MIIEX
  plc module type
  MECHATROLINK- II
  4/9/16 axes  Max 30 axes
  extension by plc other modules
◆ PLMC40
  plc module type
  4 pulse train axes control
  16 inputs  16 outputs
  extension by plc other modules
◆ Multi Axes Motion AMP.
  Motion Control
  Servo AMP.  Max 7 Axes
  42 inputs 42 outputs
  (max 256/256)  Cable-less