

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

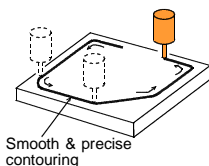
General and optional functions.

◆ small interpolation with precise continuity

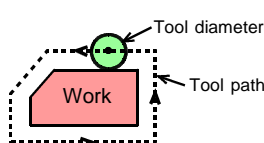
Small interpolation with precise continuity (0.5msec)
 ◆ Precision
 ◆ Smooth



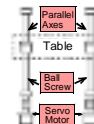
◆ accurate contouring



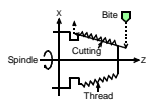
◆ tool diameter compensation



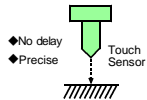
◆ parallel axes & Gantry



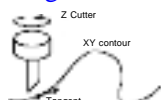
◆ lathe & thread-cutting



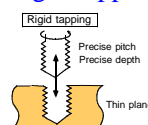
◆ tool set



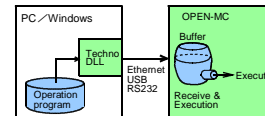
◆ tangent-control



◆ rigid tapping



◆ DNC



◆ 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-MIEX

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



milling



rigid tapping machine



Desktop Precise Cutting



5-axes CAM



operation screen



precision analysis for a perfect circle.

