# SH-3I

### CNC 1POINT COILING MACHINE

## Advanced model of multi-functional SH-3 (1 point coiling, Torsion attachment, Initial tension servo) gives further expansion of variety of torsion forming.

MNO (Mec New Operation system) gives user-friendliness, measurement control and multiple production controls.

As free-length gage, choose suitable one from contact type sensor: Motor Sensor (MSD-1), non-contact type sensor: Capacitance Gage and Image Sensor for your needs.



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#### FEATURES

- Available up to 7-axis to control Feed, Cut, Pitch, Point, Torsion, Initial Tension & Arbor (option).
- Easy setup, shorten setup time and speedup of production for independent Cut axis and Torsion axis.
  - Available to fit assist tool and cutting tool symmetrically that extends the range of work.
- Easy to put on and take off feed rolls with the taper fixture method that provides preciseness of fitting and excellent repeatability. Furthermore, it can control stability of core and surface, i.e. error less than 3/1000. With ultra fine wire attachment, just 16mm long wire guide can be applied instead of 30mm long standard wire guide. It enables to make coiling with very fine wire such as w.d. 0.05mm.
- For making typical cylindrical spring or taper spring, just enter necessary data. The data will be converted by high precision auto program, and desired spring parts will be formed accordingly. When taper syc. rate is adjusted, taper shape can be changed, e.g. straight, mountain, bowl shape so on. 100-step change is available and load can be adjusted easily.
- Program screen displays all axes stationary and columns that can be scrolled from side to side. Program flow and each axis status, INPUT/OUTPUT, JUMP item and so on can be grasped at one view.

#### MOTOR SENSOR SYSTEM (standard equipment)

The contact sensor functions as positioning for cut axis, pitch axis and such drive servomotor. It measures free length, outside diameter, leg portion angle in 1/1000mm resolution, and performs corrective control. It functions as well as capacitance sensor or contact type sensor.





Assist Tool

Applying an assist tool and a cutting tool symmetrically expands work range and gives speedup of production



#### Specifications are subject to change without notice.



#### Standard

UltraFineWire A/T Feed Axis Cut Axis Pitch Axis Point Axis Torsion A/T Axis Initial Tension Axis Arbor Axis (Option) Solenoid Valves Air requirements Power source W e i g h t Control Device

D i s p l a y External memory Service Temperature WireDia.  $\phi 0.08 \sim 0.3$ mm Outside Dia. φ10mm D/d 4 or more WireDia. φ0.03~0.08mm Resolution 0.001mm Resolution 0.001° Resolution 0.001mm Resolution 0.001mm Resolution 0.001° Resolution 0.001mm Resolution 0.001mm 4 pcs (Max 8 pcs available) Max 0.5 Mpa 200VAC 3-phase,15A 400ka Max. 9-axis controllable by PC OS Windows XP 17" TFT Color LCD USB thumb drive 0~40 deg. C (32-104 deg. F)

