SH-8A

Equipped with a torsion attachment and an initial tension servo motor as standard features, this machine can form push, torsion, and elliptical springs.

The 3D coiling point moves freely, improving operability and allowing high-speed production.

MEC

Features

7-axis control with an emphasis on operability

The 7-axis control is equipped with feed, cut, pitch, coil outer diameter point, torsion, initial tension, and a MSD sensor as standard features.

The standard MSD contact sensors allows for free length measurement. Servo motor control enables measurement in 1/1000 mm increments. (Available as in capacitance length detector as optional.)

The separation of the cut and torsion axes improves production speed and makes setting easier.

Using the bender assist tool makes 3D torsion spring processing possible.

Support for IOT

The operating status of machine can be monitored with mobile phones and computer, and regular maintenance with preventive maintenance functions can contribute to improved production efficiency.

Coiling area

The torsion axis, with a newly designed crank mechanism, can now run in high speed. The initial tension servo is stored in the front plate.
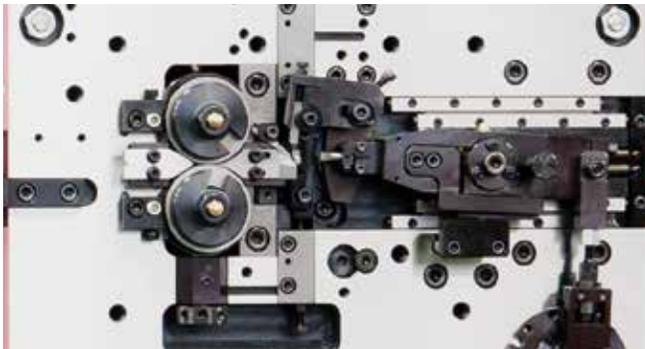
Improved operability with the MEC New Operation 2 (MNO2)

The **MNO2**, a newly developed spring forming-dedicated program, easily organizes important statistics about the machine, including program flow, operating status of each axis, input/output, and jump, etc., as with our other spring machines. Furthermore, the program editing function has greatly evolved, and the new navigation system makes it easier to create a program. The coil number program allows to easily change feed, pitch, outer diameter, and initial tension on the advanced pitch diagram screen, making it easier to adjust basic coils.

Cylinders, tapers, barrels, and double-taper springs can be processed just by inputting their specifications in the program.
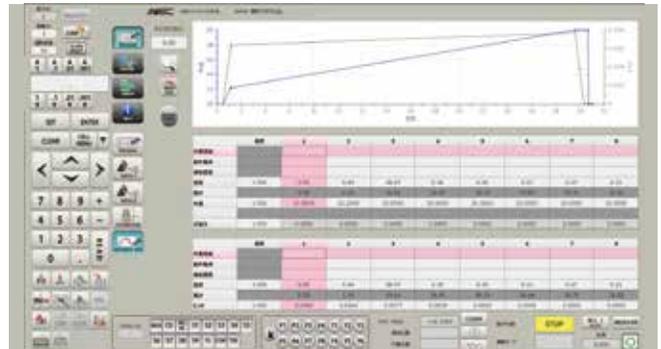
The taper of a spring can be fine adjusted easily with a numerical value between 0 and 100, such as bowl, straight, and mount type, by changing the taper coefficient.

In addition to the automatic function of coil length correction based on the MSD sensor length measurement method, the multi-functional production manager system makes production easy to control.

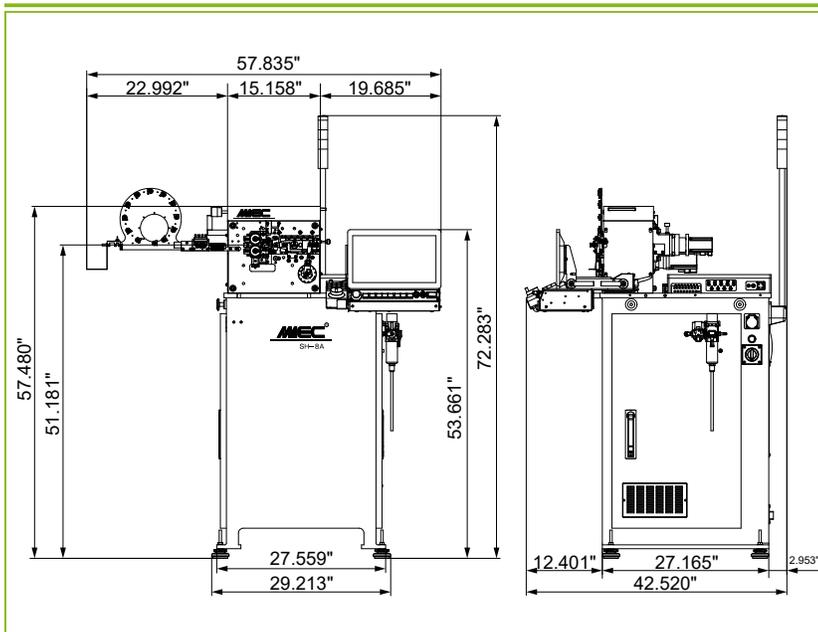**Coil number program** (cylindrical coils)

This program makes it easy to adjust basic coils.

Specifications

Machine name	SH-8A
Wire diameter	ø0.1 ~ ø0.8 mm (ø0.0039" ~ ø0.0314")
Outside diameter	ø20 mm (ø0.7874")
Index	D/d 4 or more
Feed axis*	0.0001 mm (0.00004")
Feed speed	Max 558 ft/min
Cut axis*	0.001°
Pitch axis*	0.0001 mm (0.000004")
Point axis*	0.0001 mm (0.000004")
Torsion axis*	0.001°
Initial tension axis*	0.0001 mm (0.000004")
Arbor axis* (Optional)	0.0001 mm (0.000004")
Solenoid valves	4 pcs (Max 8 pcs)
Air pressure	Max 0.5 MPa
Power source	3-phase AC 200V, 15A
Net weight	793.66 lb
Control device	Windows
Software	MMO2
Display	15.6" Full HD touch screen
External memory	USB Thumb drive
Temperature	0 ~ 40°C (32 ~ 104°F)

Specifications are subject to change without notice for product improvement.

*Program input unit, which does not represent accuracy.

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