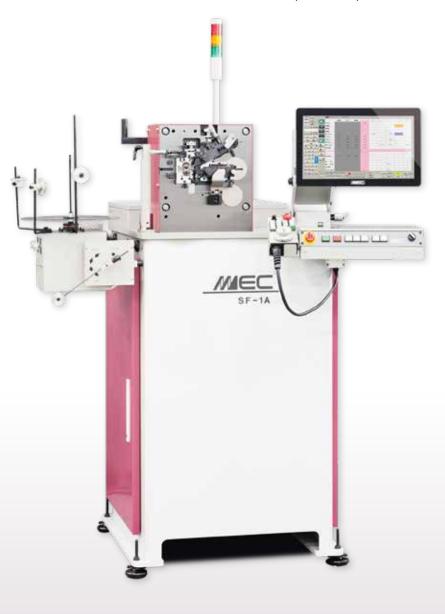
SF-1A

MEC 5-AXIS CNC SINGLE-POINT COILING MACHINE for Ultra-Fine Wire

For wire diameters of Ø0.016 ~ Ø0.1 mm / Ø0.0006" ~ Ø0.0039"

One of the world's best ultra-fine wire coiling machines, with the ability to process wire under ø20 μm.

High-precision coiling has been made a reality, with the operation accuracy of various adjustment mechanisms and the ability for the length measurement of the ultra-high precision sensor "MSD" to be controlled in units of 0.001 mm (0.00004").





Features

ЛЛАЕ

5-axis control with an emphasis on operability

- The 5-axis control is equipped with feed, cut, pitch, and outer coil diameter point functions and MSD sensors as standard features.
- The coiling mechanism has been designed exclusively for ultra-fine wires. Consistent coil processing is achieved by shortening the feed roller diameter to ø16 mm (0.630") and the wire guide length to 6 mm (0.236").
- The standard MSD contact sensors for ultra-fine wire allow for free length measurement. This makes it possible to adjust the servo motor control in 0.001 mm increments.
- The tool has adopted a standard structure in which the wire guide is mounted relative to the feed roller. The newly developed pitch arbor unit can be moved up, down, left, and right to adjust the arbor position in respect to the wire guide.

Support for IOT

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





Coiling area Coiling area with a 6 mm long wire guide

Specifications

Precision spring products with **SF-1A**

- Improved operability with the MNO2 (MEC New Operation 2) programming software
 - The **MEC** original **MNO2** software easily organizes important statistics about the machine, including program flow, operating status of each axis, inputs/outputs, jump, etc., as with our other spring machines.
 - The program editing function has greatly evolved, and the navigation system function and touch screen make it easier to create programs and shorten the setup time.
 - It has a built-in servo motor control sensor system, which achieves high resolution.
 - 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.

Options

Computer numerical control is possible by a program by adding an initial tension servo, arbor front, and arbor rear servo units, enabling more consistent, high-quality coiling.

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Production control screen

Machine name

Wire diameter

Feed axis*

Cut axis*

Pitch axis*

Point axis*

Solenoid valves

Max air pressure

Power source

Control device

External memory

Temperature

Net weight

Software

Display

This program displays line graphs, histograms, standard deviations, process capability production quantity, production speed, wire remaining amount, etc., during spring production in real time.

Outer coil diameter ø1.5 mm (ø0.059")

0.001°

0.5 MPa

Windows

MNO2

SF-1A

ø0.016 ~ ø0.1 mm (ø0.0006" ~ ø0.0039")

0.0001 mm (0.000004")

0.0001 mm (0.000004")

0.0001 mm (0.000004")

3-phase AC 200V, 15A

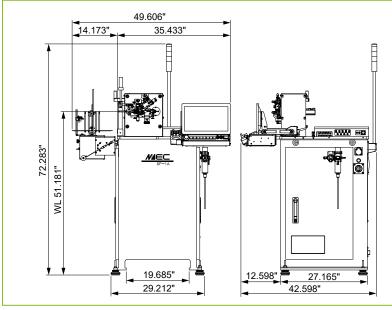
15.6" Full HD touch screen

4 pcs (Max 8 pcs)

380 kg (838 lbs)

USB Thumb drive

5~40°C (41~104°F)



*Resolution: Program input unit, which does not represent accuracy. Specifications are subject to change without notice for product improvement.

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Inquiry

