

# WH-2A

## MEC 13-AXIS CNC DUAL-POINT COILING MACHINE for Ultra-Fine Wire

For wire diameters of  $\varnothing 0.03 \sim \varnothing 0.2$  mm

**Achieve high-speed and precision processing,  
with reduced setup time for ultra-fine wire coils.**

Fine adjustments are easy with various adjustment mechanisms using servo motors.

The wire cutting method switching mechanism allows you  
to easily change between straight and rotary cut depending on the situation.

Compression  
Spring



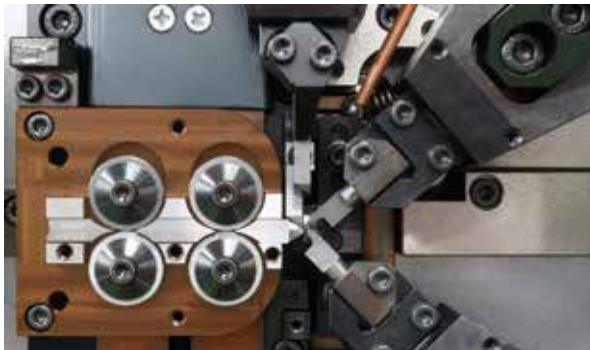
### Features

#### Improving the quality of ultra-small coiling

- The WH-2A supports various shapes with the standard features of 13-axis control: feed, cut, wedge-pitch, push-pitch, point 2-axis, auxiliary point 2-axis, Initial tension 2-axis, feed pressure 2-axis, and arbor front/back.
- With the adoption of a dual feed roller, the feed pressure load applied to the wire is reduced.
- The advanced adjustment mechanism allows smooth fine adjustment of the vertical/horizontal and right/left positions of the arbor.
- The rotary, straight cuts, and wedge-pitch can be switched by simply moving the eccentric pin.
- You can switch programming between right and left-hand coiling without replacing the heavy slide.

#### Achieving required quality for guide wires

The dual-point coiling unit's 4 axes and 2 initial tension axes allow precise control of the outer diameter and initial tension, making it suitable for guide wire forming that requires precision. Peripheral equipment necessary for guide wire forming is also available as an option.



**Dual points coiling area**

A simple and easy-to-understand adjustment mechanism. With rotary cutting, the swing width can be easily adjusted to achieve the optimal cutting surface.

#### Space saving for installation

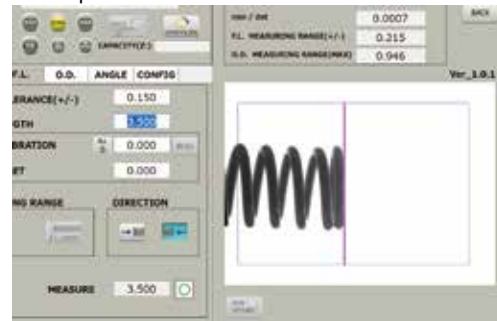
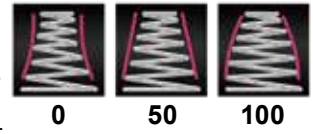
- Even though it is equipped with 13-axis, the WH-2A has a machine size equivalent to the SF-1A 5-axis CNC single-point coiling machine for ultra-fine wire.
- The optional compact automatic wire stand MK-1 can be mounted on the rear of the machine, contributing to space savings.

#### 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.

#### Improved operability with the MNO2 (MEC New Operation 2) programming software

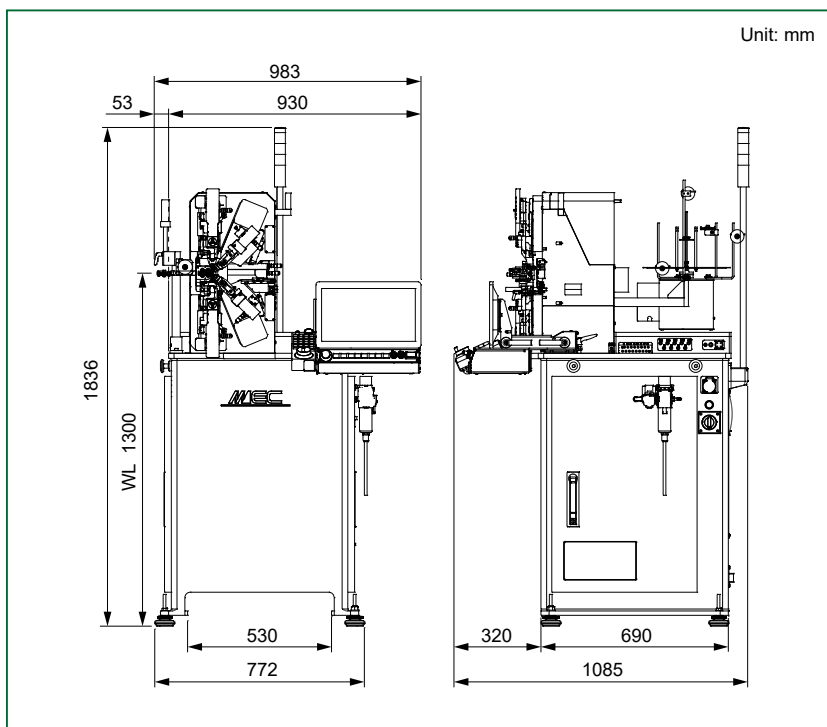
- The MEC original spring program MNO2 easily organizes important statistics about the machine, including program flow, operating status of each axis, inputs/outputs, jump, etc., as with our other spring machines.
- Enables the taper tilt to be managed with a value from 0 to 100. Suitable for load adjustment in addition to shape adjustment, as fine adjustment can be performed in 100 levels.



**Measurement screen**

Equipped with camera sensor ZN-1 as standard, the free length and outer diameter of the coil can be instantly measured and separated.

### Specifications



Unit: mm

Machine name	WH-2A
Wire diameter	ø0.03 ~ ø0.2 mm
Outer coil diameter	ø8 mm
Index	D/d 4 or more
Feed axis*	0.0001 mm
Cut axis*	0.001°
Wedge-pitch axis*	0.001°
Push-pitch axis*	0.001°
Point axis* x2	0.0001 mm
Auxiliary point axis* x2	0.0001 mm
Arbor front/back*	0.0001 mm
Feed pressure axis* x2	0.0001 mm
Initial tension axis* x2	0.001°
Solenoid valves	4 pcs (Max 8 pcs)
Max air pressure	0.5 MPa
Power source	3-phase, AC 200V, 15A
Net weight	820 kg
Control device	Windows
Software	MNO2
Display	15.6" Full HD touch screen
External memory	USB Thumb drive
Temperature	5 ~ 40°C

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

