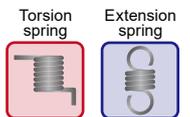# NI-26A

MEC 26-AXIS CNC MULTI-WIRE FORMING MACHINE

For wire diameters of ø1.0 ~ ø2.6 mm

A new world in the spring forming machine industry begins.
A wide variety of wire processing can be freely achieved
with quadruple 3D slides.

Torsion spring

Extension spring

AMADA

MEC

26-AXIS CNC MULTI-WIRE FORMING MACHINE

NI-26A

A multi-functional forming, which enables a wide variety of wire processing, achieves high value-added forming and high productivity.

◉ Features

● Achieve a variety of wire processing with four 3D slides

Intuitive operation is made viable by having high-speed 3D slides on the top and bottom and high-speed dual slides on the left and right sides.

● Free-form processing

This machine has dramatically expanded the application range of forming with the left and right double rotary (WR) servo motors, the upper rotary servo motor, the front rotating grip unit for secondary forming, and the newly developed wire rotary feed mechanism, all as standard equipment.

● Reduced setup time due to high-repeatability

No screw adjustment is needed when installing tooling. An CNC program performs advanced adjustment, greatly reducing setup time.

● High-precision processing

The newly developed bending sensor BS function results in high-precision bending. With the high-rigidity air-cut unit, it cuts without a quill and leaves a beautiful cross section with quiet processing. The rotating unit and the WR servo motors facilitate post-processing after wiring cutting and support high value-added processing.


Servo motor grip attachment unit (Optional)

Wire

WR Servo motors
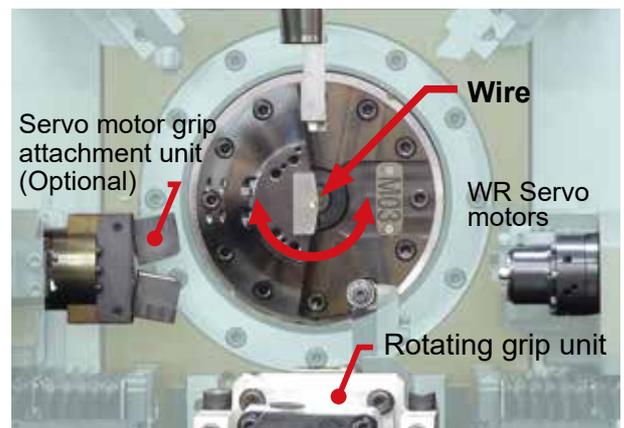
Rotating grip unit

The rotating grip unit can be also used for long length forming.

Rotating grip unit

Air-cut unit
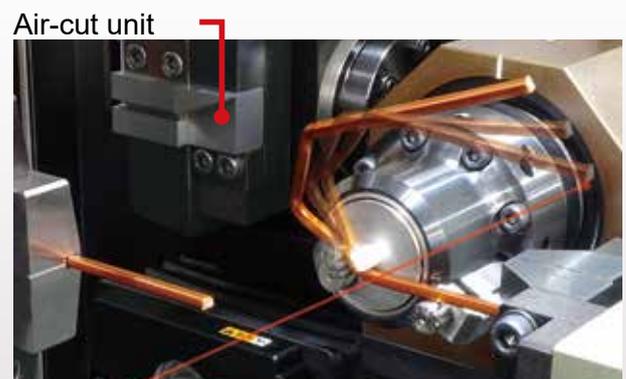
◉ Improved operability with the MNO2 (MEC New Operation 2) programming software

- 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.

- 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.

- Length inspection, coiling angle control, input/output, etc. can be set on a dedicated screen separate from the main screen.

- Both torsion and coiling machines have the same programs, making it very convenient for the user.

- Highly efficient production is supported by a versatile production control screen and production data collection function.
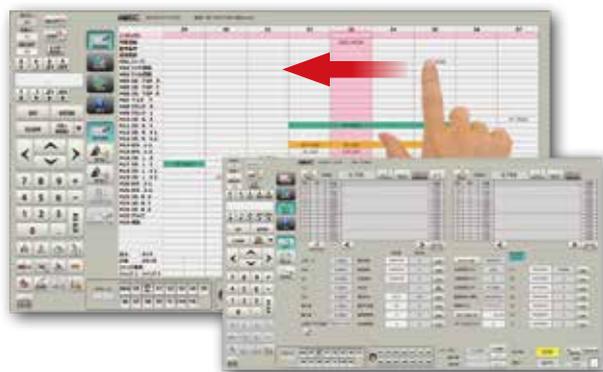

MNO2 main program and production control screen
The touch screen specifications have greatly improved operability.

◉ Support for IOT

The Wi-Fi function, which is standard in the developed spring forming program **MNO2**, allows you to check the operation status of the machine from your computers or smartphones through an optional centralized monitoring unit **MB-1**.

Machines

MB-1 Centralized monitoring unit (Optional)

Screen of computer

Screen of smartphone
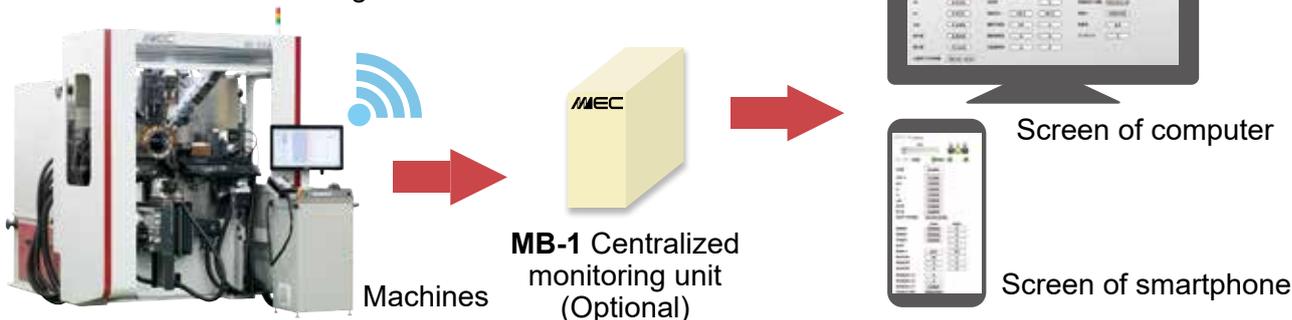
◉ Examples of samples

Parts of EV
Materials: Enamel coated copper wire
Wire: 2.0 x 3.0 mm
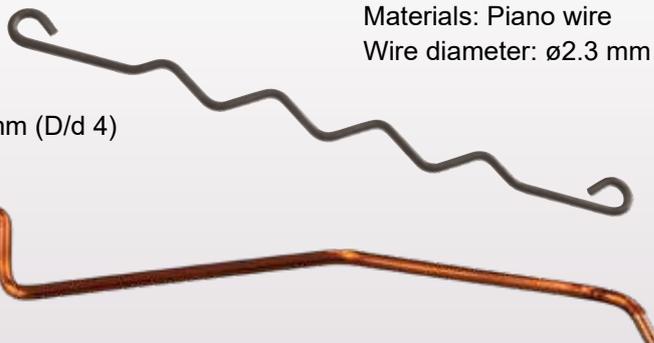
Torsion bar
Materials: Piano wire
Wire diameter: ø2.3 mm

Torsion spring
Materials: Piano wire
Wire diameter: ø2.3 mm

Extension spring
Materials: Piano wire
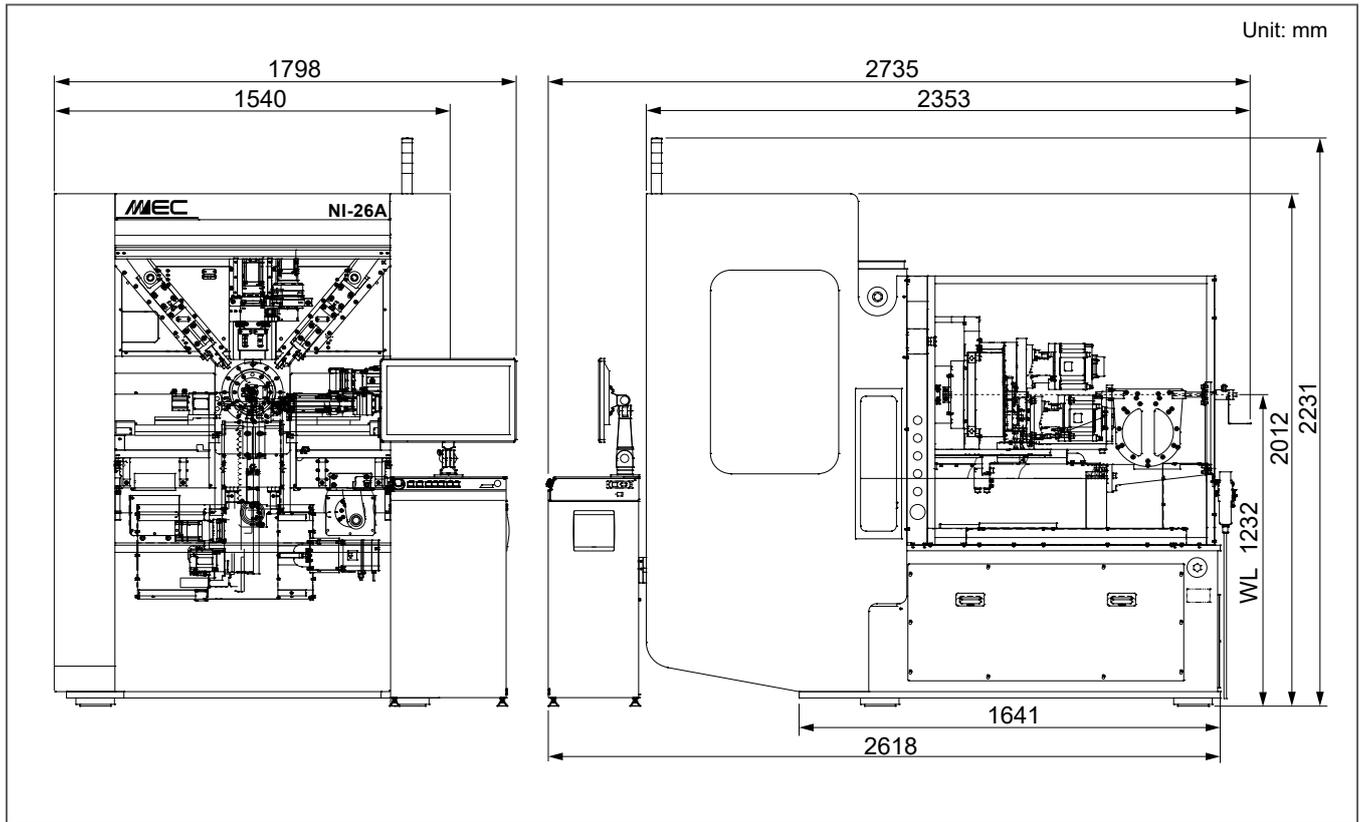Wire diameter: ø2.6 mm (D/d 4)

Bus bar
Materials: Enamel coated copper wire
Wire diameter: ø3.3 mm

● Specifications

Unit: mm

Machine name	NI-26A
Wire diameter	**ø1.0 ~ ø2.6 mm**
Max stroke (Quil)	150 mm
Max stroke (After grip)	330 mm
Index	D/d 4 or more
Feed axis*	0.0001 mm
Max feed speed	118 m/min
Number of axes	26 axis (Max 30 axis)
Solenoid valves	5 pcs (Max 8 pcs)
Max air pressure	0.5 MPa
Power source	3-phase, AC 200V, 30A
Net weight	4,150 kg
Control device	Windows
Software	MNO2
Display	21.5" full HD touch screen
External memory	USB Thumb drive
Temperature	5 ~ 40°C

● Main optional equipment

Arbor holder

Attaching the arbor holder to the crank slide makes high-precision coil processing possible.

Servo motor grip attachment unit

The unit, attached to the WR servo motors, can hold the workpieces such as wire. In combination with other 3D slides, post-processing after wiring cutting is possible. By combining this with the rotating motion, you can raise the hook end of an extension spring.

German hook tooling attachment

You can process D/d 4 extension springs with German hooks.

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