

# SH-3AG

**MEC 8-AXIS CNC DUAL-POINT COILING SPRING MACHINE  
For Guide Wire Processing**

For wire diameters of  $\varnothing 0.08 \sim \varnothing 0.23$  mm

A high-speed, high-quality production system specialized  
in the processing of guide wires for medical catheters

Achieves a production speed that greatly exceeds  
conventional coiling production methods.

Compression  
spring



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processing video



 **AMADA®**

## Features

### Achieving required quality for guide wires

- The newly developed 2-point coiling unit disperses friction during coiling and contributes to stabilization of the initial coil tension.
- Furthermore, compared to the single-point method, the trace of the coil inner diameter is greatly reduced without an arbor.



- The optional rotary discharge shooter PR-2, which receives the long coil wire, suppresses runout when manufacturing long coils, eliminates the problem of discharge methods, and supports high-precision coiling.

### Supports high-speed production

This machine automatically adjusts the amount of wire drawn out and feeds it into the machine. As a result, in addition to stable high-quality processing, the production speed increases about 3 times\* compared to conventional coiling with the core production method.

\* According to our research

### Supports automated production

- Compared with the conventional coiling production method, the automatic cutting ability structure after coiling makes continuous production of coils. This saves about 90% of labor in one day's work.
- In addition, the yield is improved because there is no extra waste material generated during production.

Length judgment by laser sensor



Image of automatic cutting



### Comparison with SH-3AG and a coiling machine with a core

Conditions	SH-3AG	Coiling machine with a core
Continuous production	optimal	unsuitable
Diameter adjustment program	with	without
Pitch adjustment program	with	without
Setup change	simple	complicated

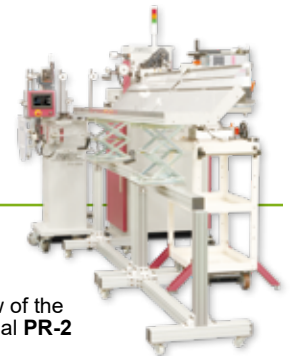
## Specifications

Systems:

- **SH-3AG**--Dual-point coiling machine
- **TY-10A**--Automatic wire supply stand with tension controlled
- **Dedicated cut unit**

Options:

- **Outer coil diameter measuring unit**
- **PR-2** Rotary discharge shooter



A view of the optional PR-2

Machine name	SH-3AG	Machine name	SH-3AG	Machine name	SH-3AG
Wire diameter	φ0.08 ~ φ0.23 mm	Torsion attach axis*	0.001°	Max air pressure	0.5 MPa
Outer coil diameter	φ10 mm	1st point axis*	0.001 mm	Power source	3-phase, AC 200V, 15A
Spring index	D/d 4 or more	2nd point axis*	0.001°	Net weight	380 kg
Feed axis	0.0001 mm	Initial tension axis*	0.001°	Control device	Windows
Max feed speed	85 m/min	Arbor axis*	0.001 mm	Display	15.6" Full HD touch screen
Cut axis*	0.001°	Solenoid valves	8 pcs	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.

