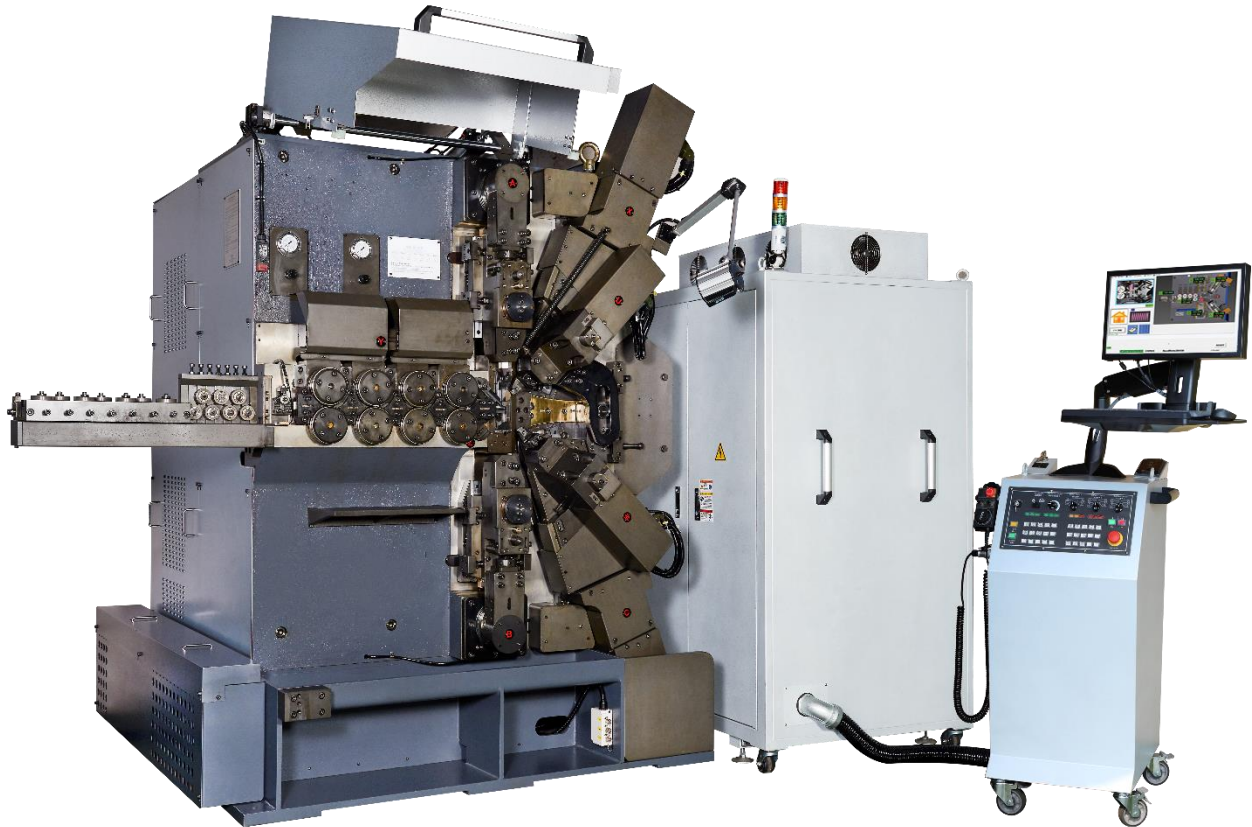


# CNC SPRING COILER



YM-80

## YM-series (1.2~8.0 mm)



**A. Specification:**

Model No.		<i>YM-35</i>	<i>YM-50</i>	<i>YM-60</i>	<i>YM-80</i>
Wire Diameter (mm)		1.2-3.5	1.6-5.0	2.4-6.0	3.5-8.0
Standard Axes		6	6	7	8
Feed Roller (pair)		2	4	3	4
Mini. Spring Index		3			
Max. Spring O.D. (mm)		50	80	100	120
Feed Speed (m/min)		80	80	80	80
Max. Production Rate (pcs/min)		250	200	175	150
Power Supply		220V, 3Ø (transformer 380/400/415/440V is available)			
Machine Dimension (mm)	L	1600	1950	1800	2400
	W	1250	1500	1670	1900
	H	2200	2300	2500	2600
Machine Weight (kg)		2250	2850	4650	7200

The specifications are subject to change without notice.

**B. Feature:**

- Standard axes with servo motors - feeding (x2 for EM-80), cutter, wedge, pitch, coiling x2, arbor down/up for EM-60& EM-80
- Casting frame with international standard liner slides of coiling and cutting
- Modular design for high precision and easy maintenance.
- Yaskawa advanced servo system and Omron/Schneider electricity parts
- Yaskawa Mechatronlink Controller
- Comply with Industry 4.0 data output, and real-time production information
- Adjustment available for arbor (forward/backward)
- Setup tools are made by carbide, SKD11 and H.S.S
- Cutting mode comes in straight cut, swing cut, twist cut and fly cut
- Quick shift in Right hand/Left hand coiling
- Patented spring software with touch screen based on Windows 10 OS
- USB device available for loading and saving spring program
- Auto editing programming for easily setting up spring program







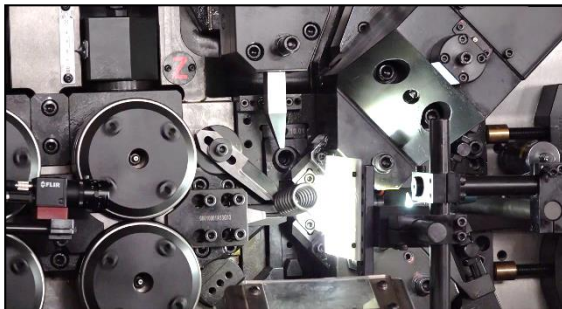
## D. Optional Tooling:

- Full set of standard tooling, included feed roller, wire guide, arbor, coiling tool, pitch tool, wedge tool, cutter, etc.
- Customized tooling for torsion spring, tension spring, wave spring, flat spring, elliptical spring.



## E. Optional Accessory:

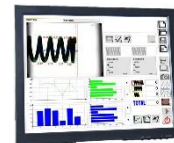
### - Camera Spring Length Detector



Software

Lens Set

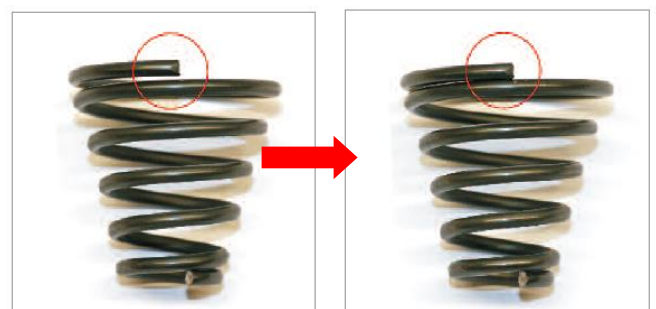
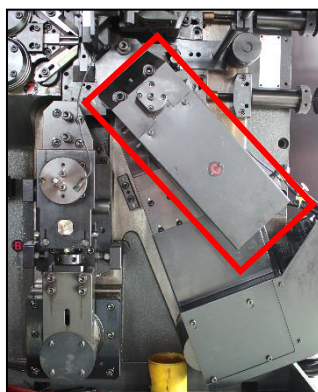
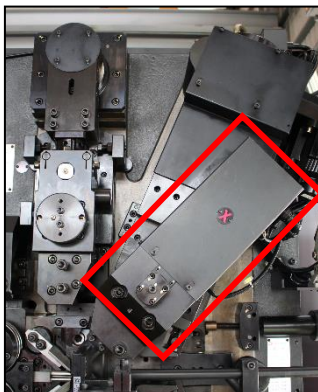
Sorter



Measure and compensate pitch/length of springs.  
Minimum accuracy is  $\pm 0.03$  mm.

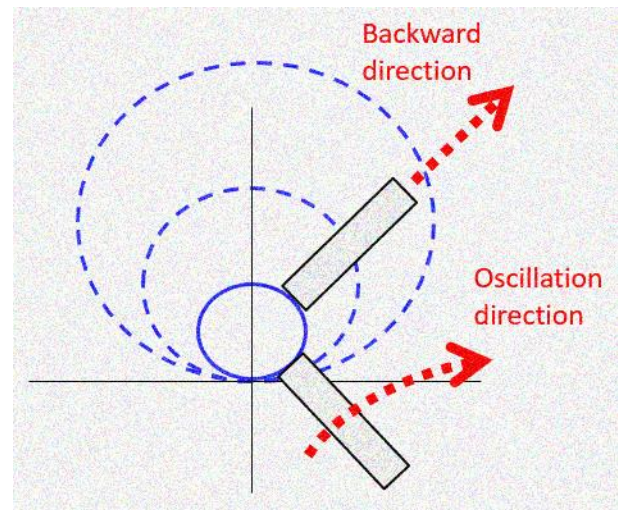
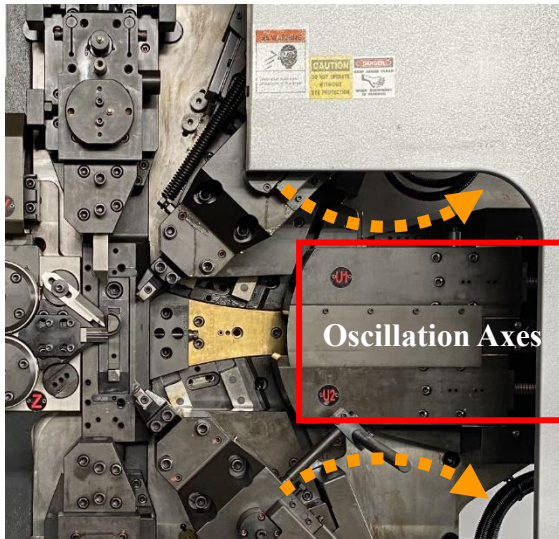
### - Initial Tension Device

Individual axis of the initial tension device enables the upper and the lower coiling slides to adjust initial tension conditions in production.

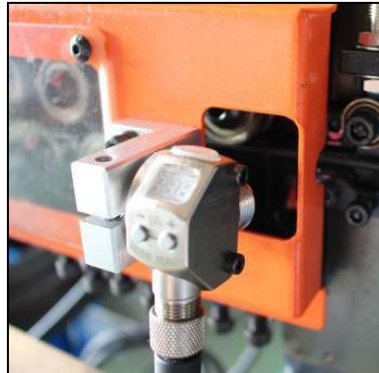
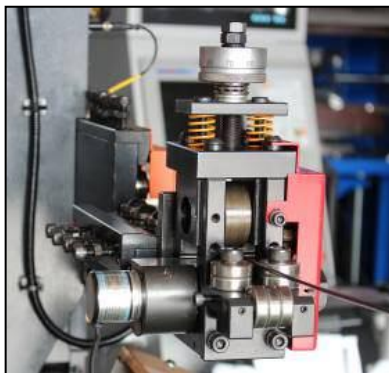


## - Oscillation Device

Initial axis of oscillation device enables the upper and the lower coiling slides to move in oscillation direction for better concentricity.



## - Wire Slippage Detector / Painting Detector / Safety Cover



## - Automatic Pay off (Decoiler)



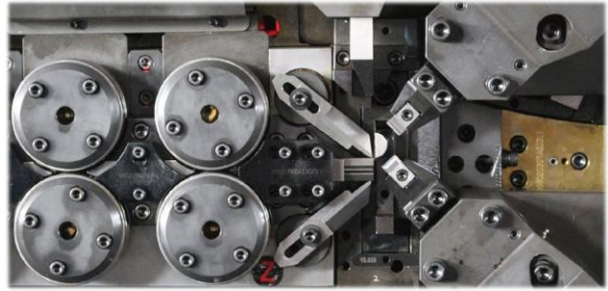
500KG



1000/1500KG

**F. Safety & Maintenance:**

1. Industrial heat exchanger
2. Temperature monitoring system
3. Phase & NFB protector and noise filter
4. C4 emergency stop sensor
5. Auto lubrication system
6. Working timer



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