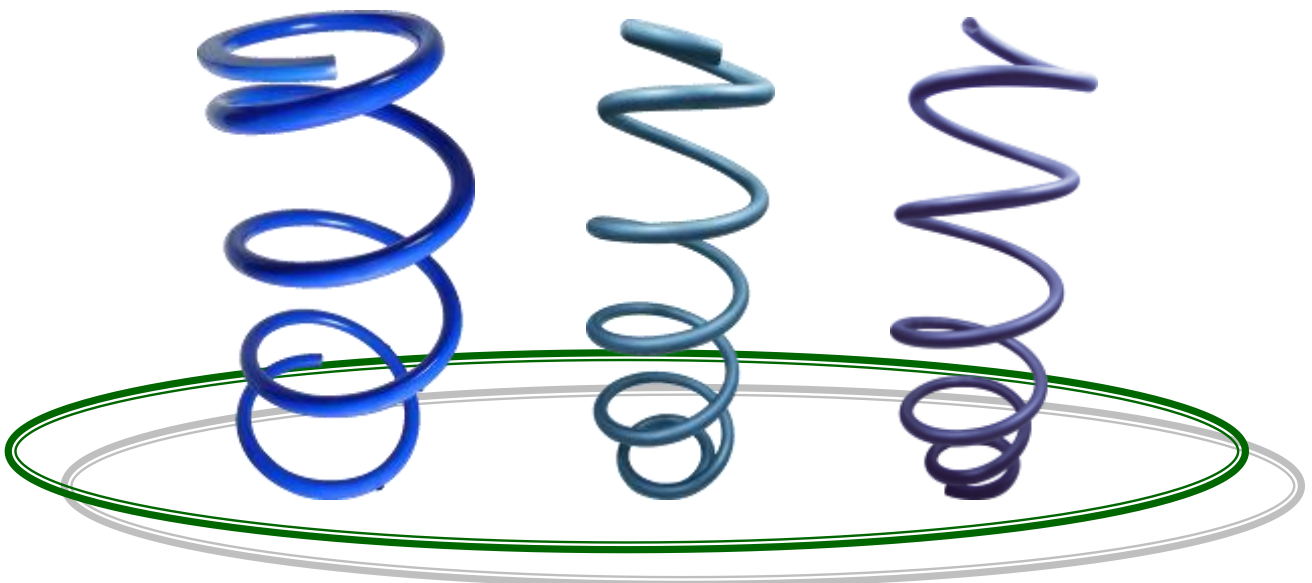


CNC SPRING COILER



EJ-250

EJ-series (5~32 mm)

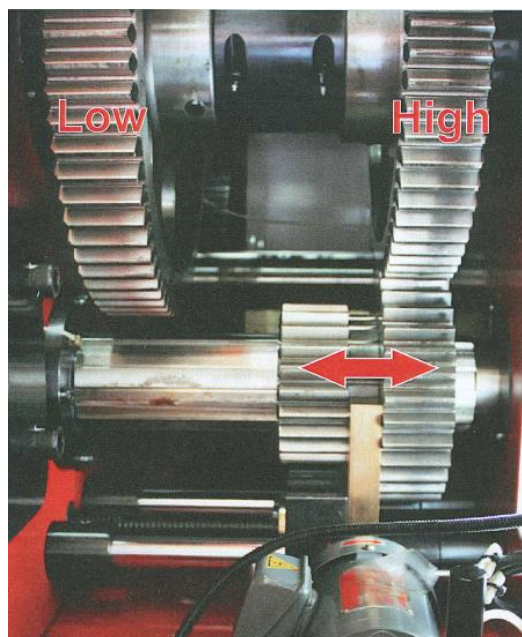


A. Specification:

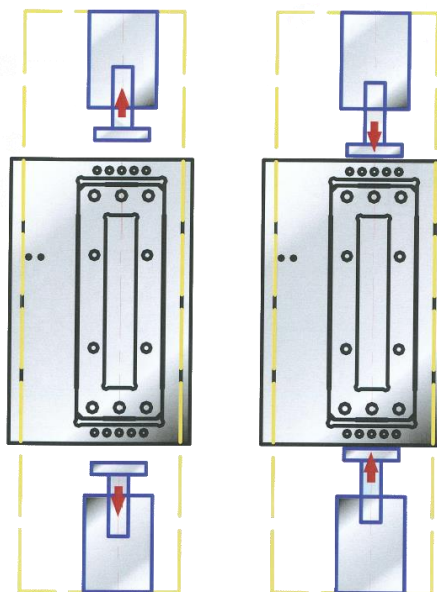
Model No.		<i>EJ-120</i>	<i>EJ-160</i>	<i>EJ-200</i>	<i>EJ-250</i>	<i>EJ-320</i>
Wire Diameter (mm)		5.0~12.0	8.0~16.0	10.0~20.0	13.0~25.0	20.0~32.0
Standard Axes		6				
Feed Roller (pair)		4	4	5	6	8
Mini. Spring Index		3				
Max. Spring O.D. (mm)		150	250	250	300	350
Feed Speed (m/min)	Std.	38	40	40	32	27
	High	76	55	55	65	55
Max. Production Rate (pcs/min)	Std.	35	30	30	20	15
	High	65	50	50	30	25
Power Supply		220V, 3Ø			380V,3Ø	
		(transformer 380/400/415/440V is available)				
Machine Dimension (mm)	L	3600	4500	4800	5800	7500
	W	2150	2200	2200	2300	2800
	H	2300	2610	2610	2820	3400
Machine Weight (kg)		10000	17000	18000	25000	32000

B. Machine Design:

- Dual gear design with consideration of powerful feeding and high speed production, by shifting the gear to produce spring of small index, and normal springs at high production speed. Hydraulic Feed roller pressure, with oil temperature and filter sensor, machine will stop when detecting any abnormality.

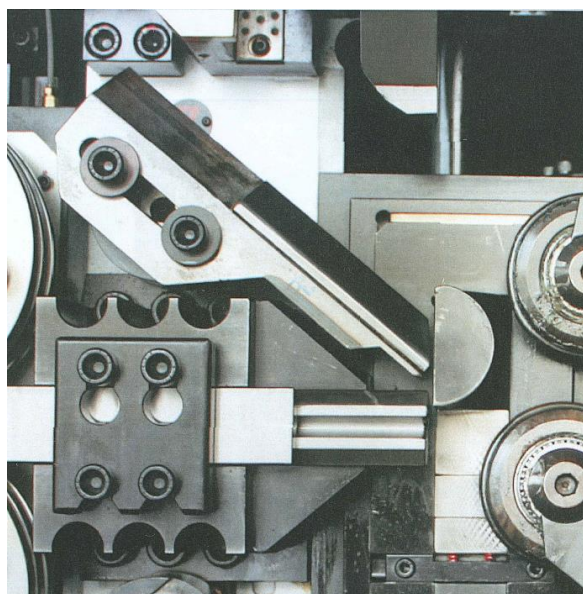


● New design for mandrel box supporting, the Jack-like hydraulic device clamps the mandrel box from top and bottom, giving proper support and absorb the impact force from cutting. Air hammer helps to quickly change mandrel. O.D. adjustment is quick and effort-saving. Mandrel is retractable by air cylinder

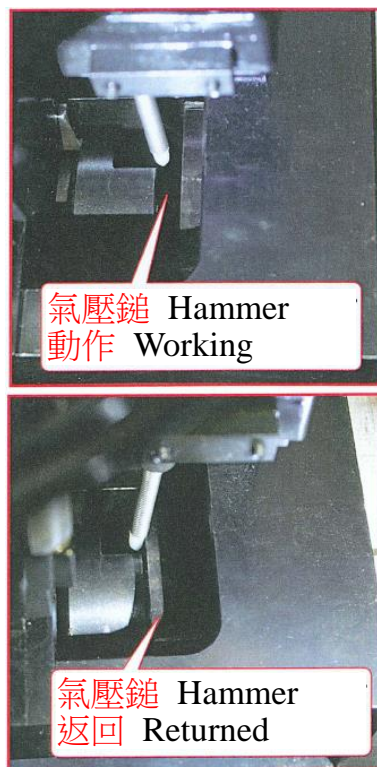
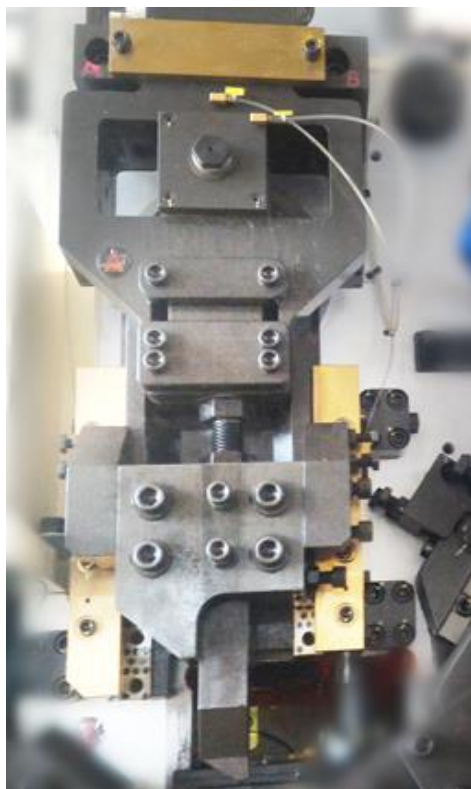


● The OD system is driven by two independent servo motors, no spanner adjustment, quick shift for L/H & R/H coiling, can produce torsion spring. Cam-less design, completely numerical control, setup data can be saved and restored, training is easy and operator can quickly pick up the job. Using ball screws of global standard, with the advantage of good accuracy, free of cam abrasion problem, the production is stable. Simple mechanism is easy for maintenance

● The push pitch controlled by independent servo motor, driven by ball screw of global standard, powerful, responsive and accurate. Software limit and sensors ensures safe operation. Rigid structure and simple transmission gives stable output. Maintenance is easy.



- The cutter with strong structure and adding up the copper slide rail makes production stable and powerful in cutting. Noise is reduced.

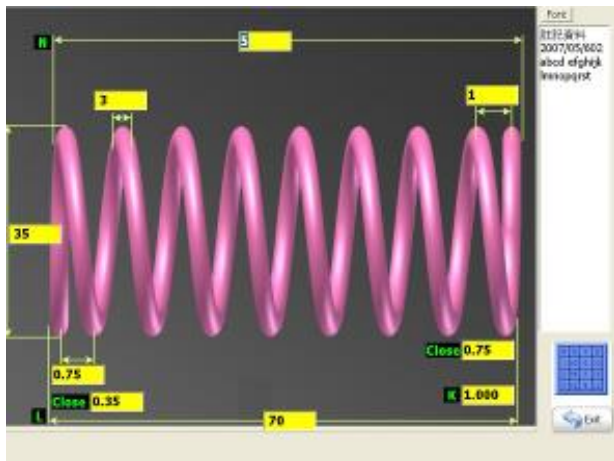
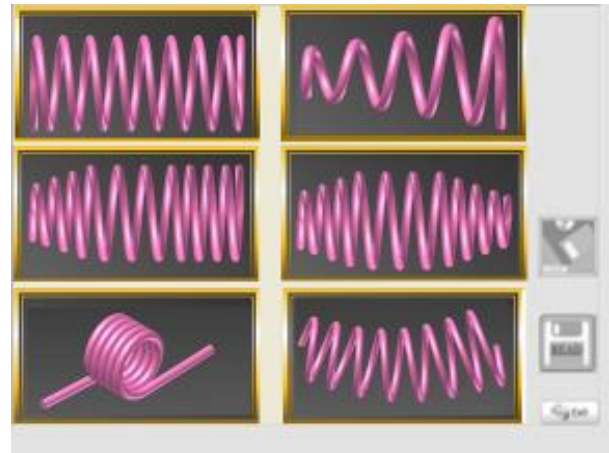


- When the arbor is stuck in the arbor holder, the hydraulic hammer is able to hit the arbor out

C. Feature:

1. 6 axes (feeding, cutter, wedge, pitch, coiling x 2) with HiWin ball screws
2. High rigid structure and simple transmission for stable output
3. Japanese Yaskawa servo motors and Schneider electricity parts
4. Dual gear design to switch standard/high speed for different torque demands
5. Jack hydraulic device to champ the arbor seat for absorbing impact from cutting.
6. Hydraulic hammers design for easily changing arbor
7. Feed roller shaft with tap hole for easily changing feed rollers
8. Automatic lubrication system for easy maintenance
9. Setup tools are made by carbide, SKD11 and H.S.S
10. Cutting mode has straight cut and twist cut
11. Quick shift in Right hand/Left hand coiling
12. Option for Windows software and touch screen
13. Single chip controller with advantage of virus-proof
14. USB device available for loading and saving spring program
15. Auto edition programming for easily setting up spring program

D. Touch Screen with Windows Spring Software (option):



- Industrial computer with SSD
- Windows OS Internet connection for remote service
- LAN connection for integration of network resource
- Friendly graphical interface and chart analysis for OD, pitch and feed
- Program generator for straight, conical, barrel, hour-glass, banana and torsion
- 3D spring preview for indicating programming steps
- Spring coils and feed length analysis
- Safety key for computer software
- Tool position record

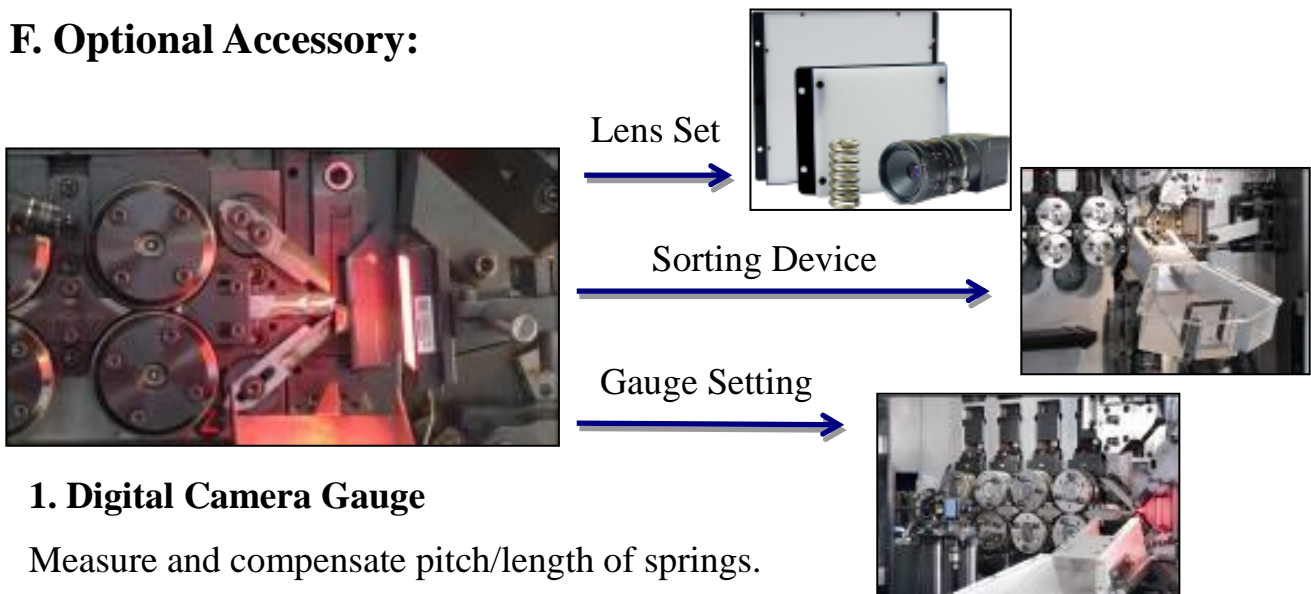
E. Optional Tooling:

1. Full set of standard tooling, included feed roller, wire guide, arbor, coiling tool, pitch tool, wedge tool, cutter, etc.

2. Customized tooling for torsion spring, flat spring, and ovate wire spring

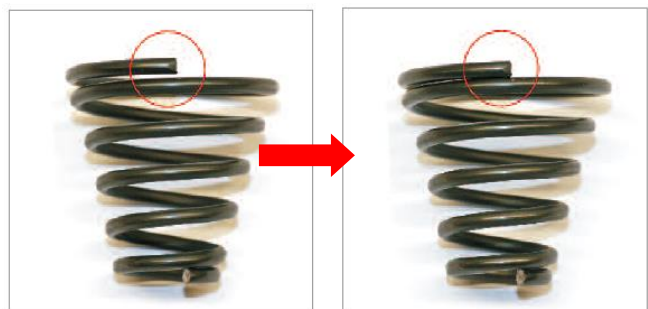


F. Optional Accessory:



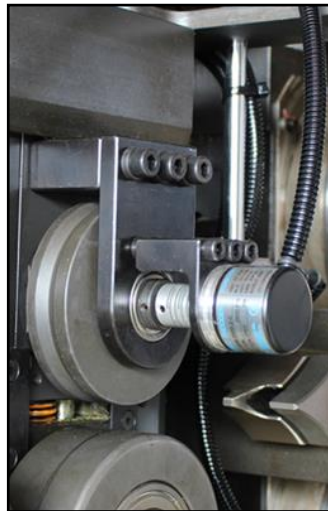
1. Digital Camera Gauge

Measure and compensate pitch/length of springs.
Minimum accuracy is ± 0.03 mm.



2. Upper / Lower Initial Tension Device (PTP Coiling Finger)

Individual axis of initial tension device enables the adjustment of the different initial tension conditions in production cycle, and available for upper and lower slides

**3. Safety Interlock and Cover****4. Wire Slippage / Painting Detector****5. Automatic Pay off (Decoiler) 2000/2500/3000KG**

G. Safety & Maintenance:

1. TECO Air conditioner
2. Temperature monitoring system
3. Oil temperature sensor
4. Phase & NFB protector and noise filter
5. C4 emergency stop sensor
6. Automatic lubrication
7. Working timer



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