

Q4 2025

Spring Maker News

 Coiling Equipment

Coiling Equipment Newsletter



ANNOUNCING

Our Q4 PROMOTION

PURCHASE A WIM-CNC OR A COM-CNC MACHINE

BY DECEMBER 31, 2025

AND GET

**ONE FREE SERVICE CALL
AND
FOLLOW-UP TRAINING**

within 12 MONTHS of the machine installation

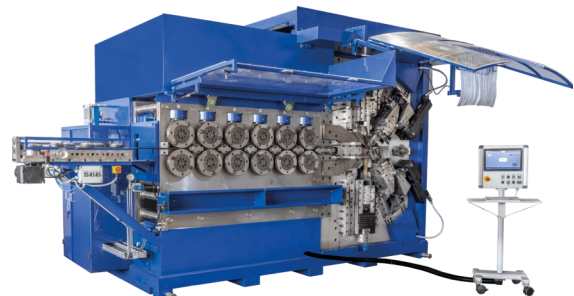
CONTACT US FOR MORE DETAILS

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gerry@coilingequipment.com



WIM-12 CNC SPRING LATHE COILER



COM-16 CNC SPRING COILER

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WIM-36 CNC

Spring Lathe Coiler

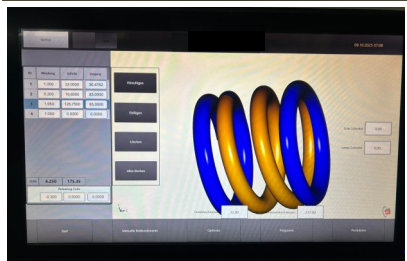
Customer's New WIM-36 Machine delivered and commissioned.

See the video clip of the machine in action: [WIM 36 Coiling 32mm bar.MP4](#)

A new WIM-36 CNC was recently delivered to a customer and is being set up for production. The WIM-36 can **COLD COIL** soft wire up to 36mm or music wire up to 20mm.

Imagine what a new WIM machine could do for your operation!

IN THE NEWS!



Spring Designer 3-D Software

32mm bars were used in production of spring samples

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COM-CNC Spring Coilers



COM-6 CNC

HIGH VOLUME PRODUCTIVITY

COM-CNC Multi axis servo-controlled spring coilers

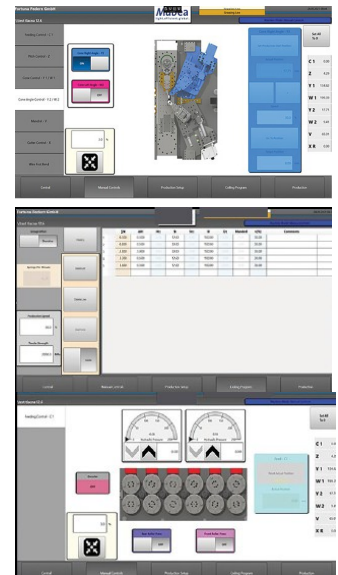
In this issue, we are highlighting Fortuna Federn's COM CNC Spring Coilers. These machines are designed for the high volume production of...

- ◇ **Cylindrical Springs (Compression and Extension)**
- ◇ **Conical Springs (One Side, Both Sides)**
- ◇ **Rings from round spring steel**

The New Real Spring Software

Enables FAST and EASY machine programming.

- **Setup based on spring parameters**
- **Complete control over spring design**
- **Axis setup screen for setting up spring diameter, pitch and the machine tools**
- **Operators will find the machine's features very intuitive**



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COM-CNC Spring Coilers

Using COM-CNC Software

DIAGNOSTICS

Comprehensive diagnostics ensures that all key components are in optimal condition for safe and efficient production. These include monitoring the state of hydraulics, rollers, cutting mandrel holder, machine door, axis in limit position, and the decoiler.

PRODUCTION MANUAL CONTROL

This feature enables the operator to manage the entire production cycle by holding down a single Start touch button on the screen, incorporating double confirmation before starting.

PRODUCTION AUTO CONTROL

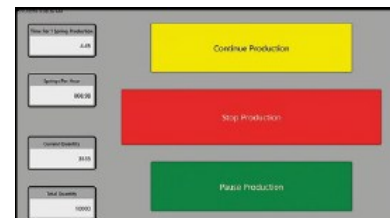
The operator can monitor hourly productivity as well as both the total and current quantity of springs produced. Production planning becomes more streamlined and easy.

MEMORY

Using the Memory screen, it's possible to save over 10,000 spring programs. The machine features an advanced search engine allowing operators to quickly find and load programs from a database of 1,500 programs in under 5 seconds.

GATE MANAGER

Gate Manager is a Remote Connection System to provide remote access to the machine via an Ethernet connection. This system facilitates updating, testing, and maintaining the machine's software, offering a convenient way to ensure the machine operates efficiently without the need for physical presence on-site.





COM-CNC Mechanics

WIRE HANDLING

The wire straightener on the COM machine features an additional powered pair of feeding rolls. These powered rolls are activated only when new wire is being fed into the machine.

TWO POINT COILING SYSTEM

The machine incorporates a new two coiling point system, specially designed to facilitate easy switching between right-hand and left-hand coiling. This is achieved through the software's manual control, allowing for quick and precise adjustment of the two controlled coiling points' positions.

INITIAL FIRST COIL

Creating an initial first coil can be done with a manual gear box or optionally, the first coiling bending device can be outfitted with a motor and operated from the control panel.

WIRE CUTTING

Cutters are constructed from durable materials. The central cutting mandrels stays in place with hydraulics. This provides for quick wire cutting and simplifies replacing the cutting arbor.

GREASE/OILING

The automatic programmable greasing/oiling unit is designed to ensure that important and heavily loaded parts and systems are properly lubricated.

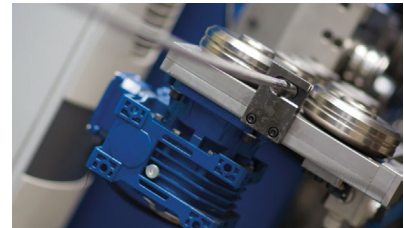
DIGITAL CAMS

COM machines utilize "Digital CAMs" instead of traditional mechanical CAMs, eliminating the need for mechanical CAM set-up. The COM machine creates a "digital CAM" from the production table, adjusting all motors accordingly. Operators can fine-tune axis synchronization parameters to enhance both quality and speed, with digital CAM execution precision set at intervals of 2 ms.

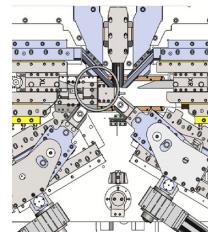
The control; system for the digital CAMs incorporate hardware and software from Bosch-Rexroth, Beckhoff and Lenze.

COM-CNC Spring Coilers

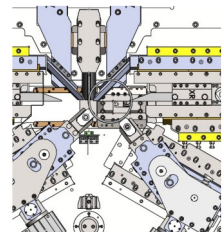
Powered Pair of Rolls



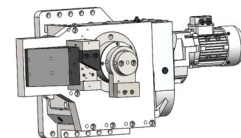
Left-Hand Spring



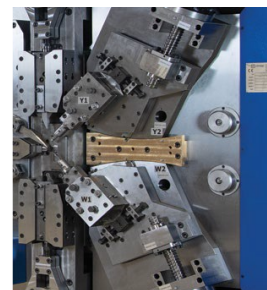
Right-Hand Spring



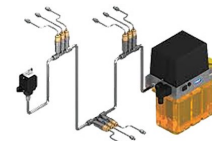
Optional First Coil Bending Device with motor



Central Cutting Mandrels



Automatic Greasing/Oiling Unit



Digital CAM Hardware & Software



COM CNC Basic Series Specs



	COM-6	COM-8	COM-10	COM-12	COM-16	COM-20
Music Wire Diameter	.040" to .197" 1 to 6 mm	.118" to .315" 3 to 8 mm	.157" to .393" 4 to 10 mm	.197" to .472" 5 to 12 mm	.275" to .630" 7 to 16 mm	.393" to .787" 10 to 20 mm
Max diameter of CrSi wire	.157" 5 mm	.276" 7 mm	.315" 8 mm	.393" 10 mm	.551" 14 mm	.630" 16 mm
Spring OD	.236" to 3.150" 6 to 80 mm	.787" to 4.724" 20 to 120mm	.984" to 6.299" 25 to 160 mm	1.181 to 7.874" 30 to 200 mm	1.575 to 9.842" 40 to 250 mm	1.969 to 9.842" 50 to 250 mm
Feeding	Unlimited					
Coiling Direction	Right / Left					
Max Speed of Wire Feed	262 ft./min 80 m/min.	197 ft./min 60 m/min.	164 ft./min 50 m/min.	164 ft./min 50 m/min.	131 ft./min 40 m/min.	131 ft./min 40 m/min.
Production type of the pitch	Central & Up/Down					
Axes	9x Servo Feeding + 2x diameter + Pitch + 2x cut mandrel 0 + 2x coiling point correction					
Pressure Control of feeding rollers	Mechanical	Hydraulic				
Installed Power	33 kW	40 kW	45 kW	50 kW	80 kW	80 kW
Weight	11,000 lbs.	17,600 lbs.	26,400 lbs.	30,800 lbs.	35,200 lbs.	59,500 lbs.
SPC Vision	Spring Gauge Camera System available as an Option					
Decoiler—Advanced HMV for COM CNC	1,320 lbs.	2,640 lbs.	2,640 lbs.	4,400 lbs.	5,290, lbs.	5,290 lbs.

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COM CNC S Advanced Series Specs

	COM-6 S	COM-8 S	COM-10 S	COM-12 S	COM-16 S	COM-20 S
Music Wire Diameter	.040" to .197" 1 to 6 mm	.118" to .315" 3 to 8 mm	.157" to .393" 4 to 10 mm	.197" to .472" 5 to 12 mm	.275" to .630" 7 to 16 mm	.393" to .787" 10 to 20 mm
Max diameter of CrSi wire	.157" 5 mm	.276" 7 mm	.354" 9 mm	.433" 11 mm	.590" 15 mm	.708" 18 mm
Spring OD	.236" to 3.150" 6 to 80 mm	.787" to 4.724" 20 to 120mm	.984" to 6.299" 25 to 160 mm	1.181 to 7.874"	1.575—10.629" 40 to 270 mm	1.969— 11.811" 50 to 300 mm
Maximum spring diameter change in 1 coil	1.968" 50mm	1.968" 50mm	2.775" 70mm	2.775" 70mm	3.149" 80mm	3.543" 90mm
Feeding	Unlimited					
Coiling Direction	Right / Left					
Max Speed of Wire Feed	331 ft./min 101 m/min.	331 ft./min 101 m/min.	331 ft./min 101 m/min.	311 ft./min 95 m/min.	295 ft./min 90 m/min.	246 ft./min 75 m/min.
Production type of the pitch	Central & Up/Down					
Axes	11x Servo Feeding + 2x diameter + Pitch + 2x cut mandrel $\updownarrow$ + 2x coiling point correction					
Machine Options	+2 x servo as an option Mandrel holding +First Coil Bender					
Installed Power	50 kW	70kW	70 kW	80 kW	190 kW	250 kW
Weight	11,000 lbs.	17,600 lbs.	26,400 lbs.	30,800 lbs.	35,200 lbs.	66,138 lbs.
SPC Vision	Spring Gauge Camera System available as an Option					
Decoiler— Advanced HMV for COM CNC	1,320 lbs.	2,640 lbs.	2,640 lbs.	4,400 lbs.	5,290, lbs.	5,290 lbs.

Changes compared to the COM CNC Basic are highlight in Table above

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Rapid Response!

We recognize that a fast response is important when you have an issue or a need!



Gerry Wright Al Uzumcu

We take pride in getting you an answer quickly when you contact us.

Whether you are looking for a replacement part, have a technical question or need a quote for the right machine for your spring making needs—we will provide you with a timely response.

Go to our website, email or call Al or Gerry directly.

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gerry@coilingequipment.com

Cell: 847-525-8891

<https://coilingequipment.com/>

Your Rapid Response Team



Many machines and options are available

COM-CNC Series – Spring Coiling Machines

- Designed for production of compression, extension, conical (one or both sides) springs and rings

Wire Bending & Forming Machine Spring Looper Machines Hydraulic Spring Looper Machines

Easy production for bending and wire forming Manual and electric spring looping machines Heavy duty spring hook forming machines

[Learn More](#) [Learn More](#) [Learn More](#)

WIM-CNC Series – Spring Lathe Coiling Machines

Automatic servo controlled for COLD production of right and left coiled cylindrical, one side conical compression, extension and torsion springs, different wire forms and double torsion springs

Spring Trimming Machines Spring End Grinder Machines Power Reels

Designed for trimming springs Flat end grinding for compression springs Right and left-hand power reels

[Learn More](#) [Learn More](#) [Learn More](#)



Coiling Machinery



Parts & Tooling



Coiling Machinery



Parts & Tooling

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