

**ADTECH**

## CNC Spring Machine

ADTECH-The Best Spring Machine Supplier

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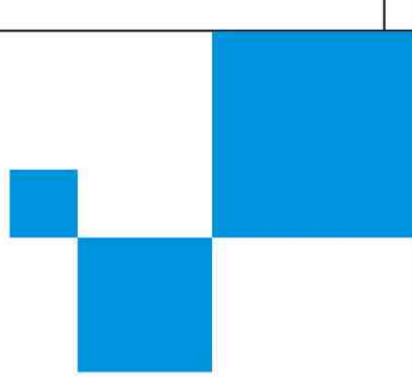
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## ADTECH-The Best Spring Machine Supplier

ADTECH (SHENZHEN) TECHNOLOGY CO., LTD is located in Shenzhen,Guangdong.Insisting of the principle of "Respond to customer fastest; Resolve the customer's problem fastest; Cooperate with the customer's production fastest", ADTECH is dedicated to designing and manufacturing spring equipments and accessories high precision, high speed,low price and easy operation. By means of introducing the spring former and technology from Japan and Taiwan, through years of production and practice, ADTECH is gardually focused on many spring formers including computerized two-axis GH-CNC2208 compression spring former, computerized four-axis GN-CNC416 compression spring former, computerized four-axis GH-CNC428 compression spring former, GH-CNC20 universal coiling spring former, GH-CNC35 computerized universal coiling spring former, GH-cnc50 computerized universal coiling spring former, ten-axis GH-CNC10A non-cam universal coiling spring former, GH-CNC210 mid-hock tension spring former, automatic spring wire feeder etc.

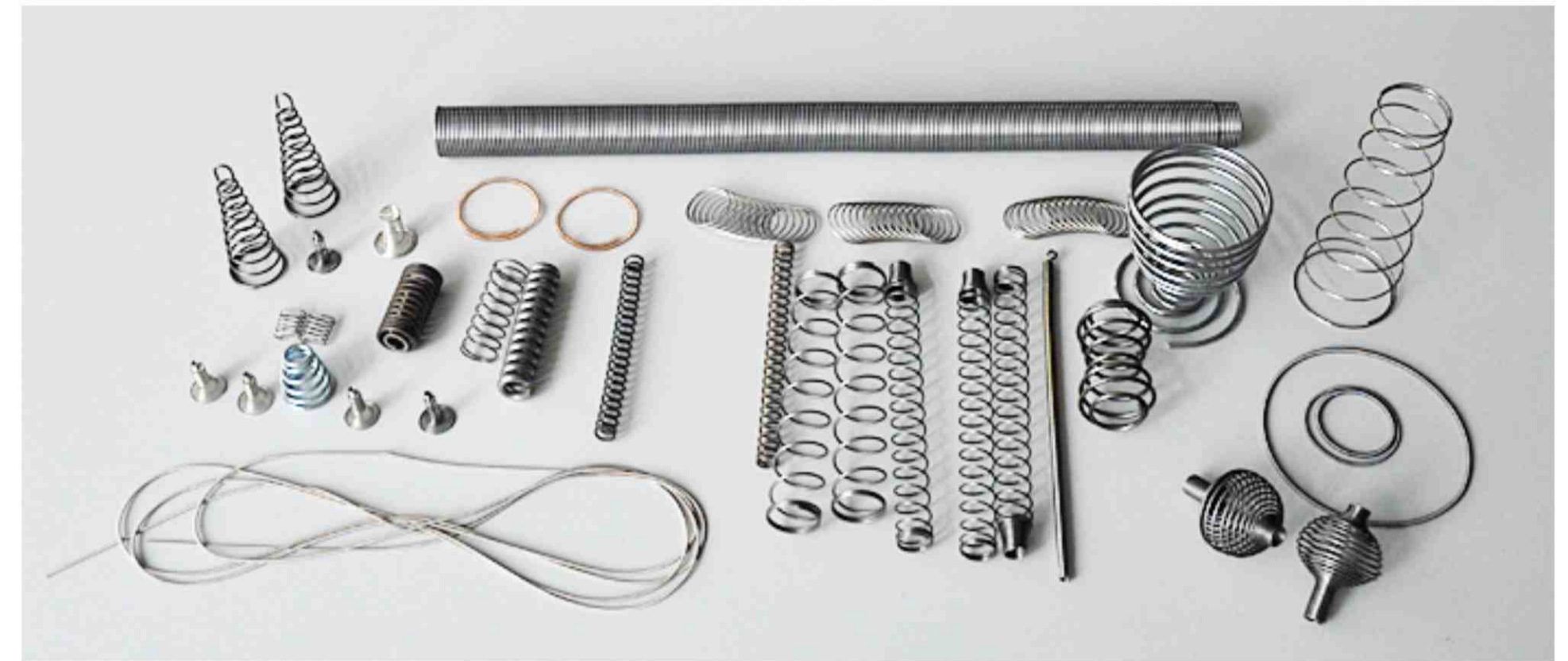
The equipments are widely used to manufacture compression spring, tension spring, torsion spring and wire molding etc. We can meet the needs in different industrial fields.



# Content

- GH-CNC2208 Compression Spring Machine \_\_\_\_\_ 03
- GH-CNC416 Four-Axis Compression Spring Machine \_\_\_\_\_ 05
- GH-CNC428 Four-Axis Compression Spring Machine \_\_\_\_\_ 07
- GH-CNC580 Five-Axis Compression Spring Machine \_\_\_\_\_ 09
- GH-CNC20 Coiling Spring Machine \_\_\_\_\_ 11
- GH-CNC35 Coiling Spring Machine \_\_\_\_\_ 13
- GH-CNC50 Coiling Spring Machine \_\_\_\_\_ 15
- GH-CNC210 Mid-Hook Spring Pulling Machine \_\_\_\_\_ 17
- GH-CNC10A Ten-Axis Non-Cam Coiling Spring Machine \_\_\_\_\_ 19
- Automatic Spring Wire Feeder \_\_\_\_\_ 21
- GH-210 Temper Furnace \_\_\_\_\_ 23
- Supporting \_\_\_\_\_ 25

# GH-CNC2208 Compression Spring Machine



## Features & function

- GH-CNC2208 machine is a two-axis compression spring machine consisting of wire feeding axis and cam axis. The two axis can act independently or synchronously by building the program ;
- The pitch, outside diameter and cutter are driven by the cam motors. The wire feeding is controlled by an independent motor ;
- The cutter can be adjusted inside and outside of the cabinet easily and flexibly ;
- Optional accessories :Torsion device, oil seal device, prize-up device, length gauge.

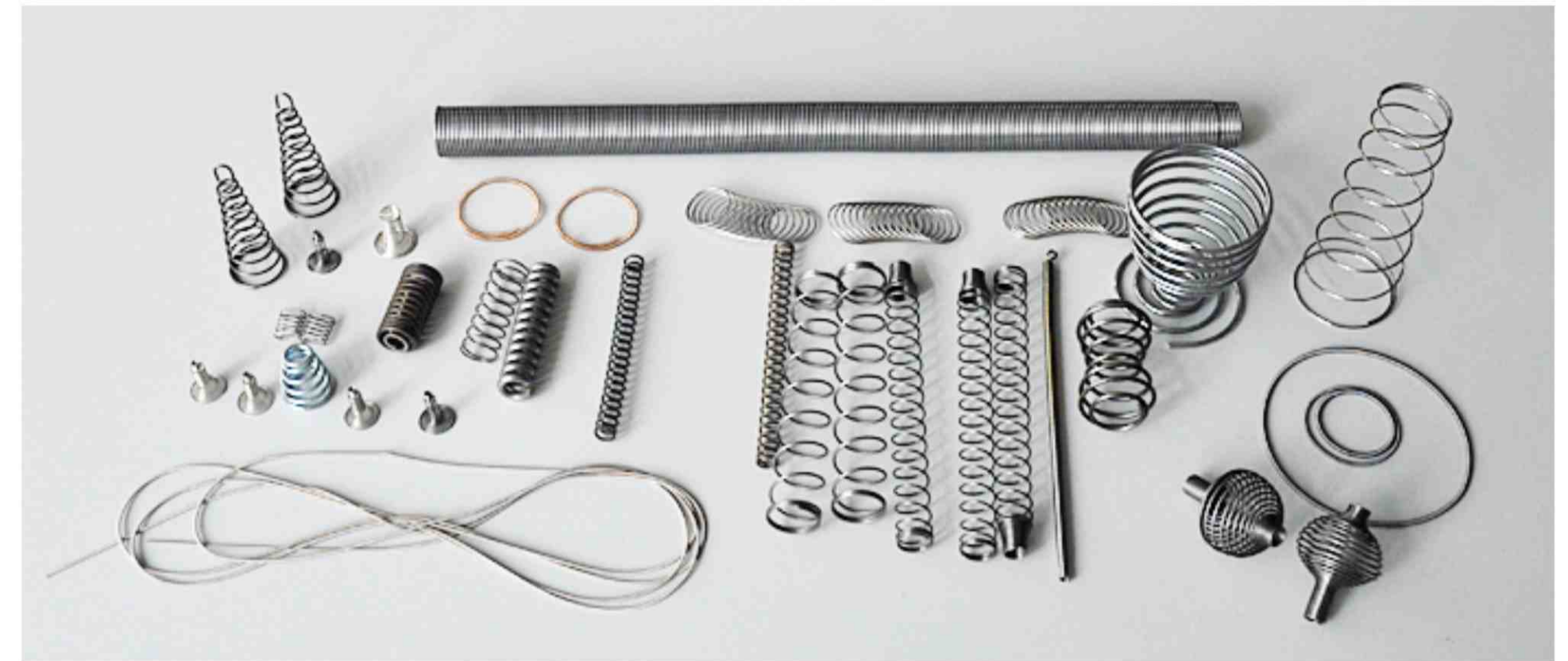
## Product range

This machine can make various compression springs, oil seal springs, battery springs, taper springs, double-taper springs, safe springs, clip spring as well as various simple wire molding.

## Specification

Model	GH-CNC2208
Wire Diameter	Φ0.15 ~ 0.8mm
Axis	2
Maximum Outside Diameter	20mm
Maximum Feeding Length	Unlimited
Maximum Manufacture Speed	500Pcs/Min
Memory Number	1000Pcs
Wire Feed Servo Motor	1.0KW
Cam Servo Motor	1.0KW
Power AC	3Phase,220V
Dimensions(L*D*H)	870X780X1600mm
Machine Weight	350kg

# GH-CNC416 Four-Axis Compression Spring Machine



## Features & function

- GH-CNC416 machine is a four-axis compression spring machine consisting of wire feeding axis, outside diameter axis, pitch axis and cutter axis. The four axis can act independently or synchronously ;
- The upper and lower are driven by two motors independently for controlling the space and cutting tool. The two axis can be exchanged ;
- The pitch can be adjusted by two methods easily: cam inclined knife type and shaft pushing type ;
- The outside diameter is driven independently. The outside diameter can be adjusted by the preset program easily;
- This machine can manufacture the compression springs of any shape without adjusting the mechanical parts and absolutely avoid changing the cam plate.

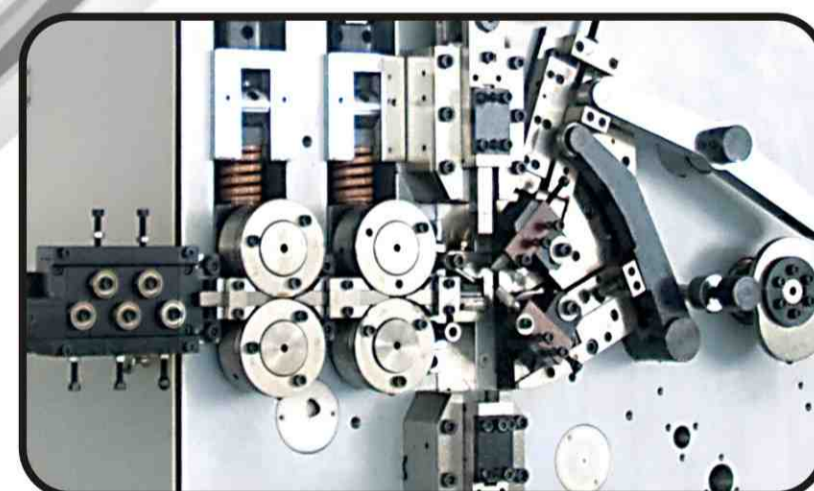
## Product range

This machine can make various compression springs, oil seal springs, battery springs, taper springs, double-taper springs, safe springs, clip spring as well as various simple wire molding.

## Specification

Model	GH-CNC416
Wire Diameter	Φ0.4 ~ 1.6mm
Axis	4
Maximum Outside Diameter	20mm
Maximum Feeding Length	Unlimited
Maximum Manufacture Speed	300Pcs/Min
Wire Feed Servo Motor	1.5KW
Outside Diameter Servo Motor	1.0KW
Pitch Servo Motor	1.0KW
Cutter Servo Motor	1.0KW
Power AC	3Phase,220V
Dimensions(L*D*H)	1040*600*1575mm
Machine Weight	450kg

# GH-CNC428 Four-Axis Compression Spring Machine



## Features & function

- ◆ GH-CNC428 machine is a four-axis compression spring machine consisting of wire feeding axis, outside diameter axis, pitch axis and cutter axis. The four axis can act independently or synchronously ;
- ◆ The upper and lower are driven by two motors independently for controlling the space and cutting tool. The two axis can be exchanged ;
- ◆ The pitch can be adjusted by two methods easily: cam inclined knife type and shaft pushing type ;
- ◆ The outside diameter is driven independently. The outside diameter can be adjusted by the preset program easily;
- ◆ This machine can manufacture the compression springs of any shape without adjusting the mechanical parts and absolutely avoid changing the cam plate.

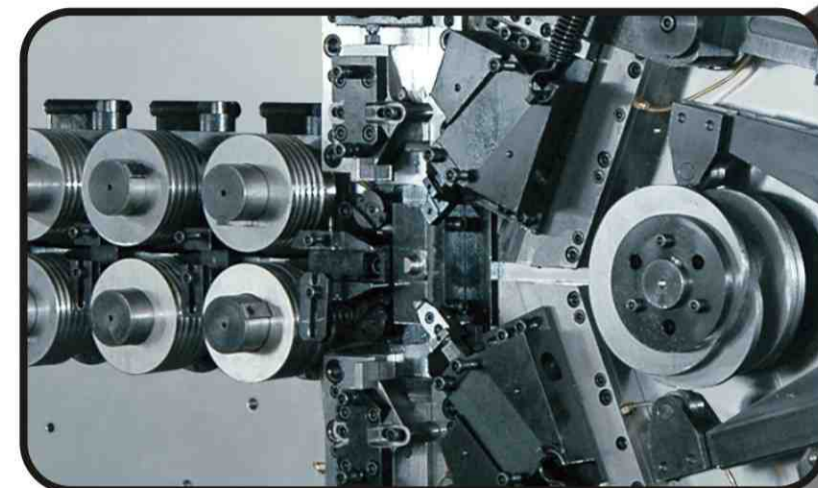
## Product range

This machine can test various compression springs, oil seal springs, battery springs, taper springs, double-taper springs, safe springs, clip spring as well as various simple line molding.

## Specification

Model	GH-CNC428
Wire Diameter	Φ0.8 ~ 3.0mm
Axis	4
Maximum Feeding Length	Unlimited
Maximum Wire Feed Speed	120meters/min
Maximum Manufacture Speed	400Pcs/Min
Wire Feed Servo Motor	2.7KW
Outside Diameter Servo Motor	2.0KW
Pitch Servo Motor	2.0KW
Cutter Servo Motor	2.0KW
Power AC	3Phase,380V
Dimensions(L*D*H)	750 × 1150 × 1700mm
Machine Weight	900kg

# GH-CNC580 Five-Axis Compression Spring Machine



## Features & function

GH-CNC580, it's a high precision CNC compression spring machine, and which is independently designed by ADTECH. GH-CNC580 could make spring wire diameter 3-8mm, orbit rate 4-8. Maximum outside diameter of different springs is 150mm, such as Columns, cone springs, and also different pitch different wire diameter tension springs. GH-CNC580 coil spring machine is a kind of high precision, high efficiency, reasonable structure, convenient use, debugging simple, people, machine processing equipment of dialogue best spring.

## Specification

Axis	5
Wire Diameter	3-8mm
Max. Diameter	150mm
Maximum Feeding Length	Unlimited
Maximum Manufacture Speed	30Pcs/Min
Wire Feeding Servo Motor	30KW
Wire Diameter Servo Motor	3.8KW
Pitch Servo Motor	2.7KW
Cutter Servo Motor	7KW
Power AC	380V
Wire Feed Rolles	3
Wire Feed Rolles Working Model	by cylinder
Dimensions(LxWxH)	2500x1800X2250 ( mm )
Weight	6000kg

## Standard Accessories

Wire feed rolles 3 sets 6 pcs(6 wire diameters,  $\phi$  3.2,  $\phi$  4,  $\phi$  5,  $\phi$  6,  $\phi$  7,  $\phi$  8), optional(  $\phi$  3,  $\phi$  3.6,  $\phi$  4.5,  $\phi$  5.5,  $\phi$  6.5,  $\phi$  7.5 )

Curve 6 wire diameters(  $\phi$  3.2,  $\phi$  4,  $\phi$  5,  $\phi$  6,  $\phi$  7,  $\phi$  8)

Quill: 1 set with 6 wire diameters

Left, middle, right input wire tool( every one is 3 sets--6 wire diameters)

Wire Feeder: 2000KG(Automatic)

# GH-CNC20 Coiling Spring Machine



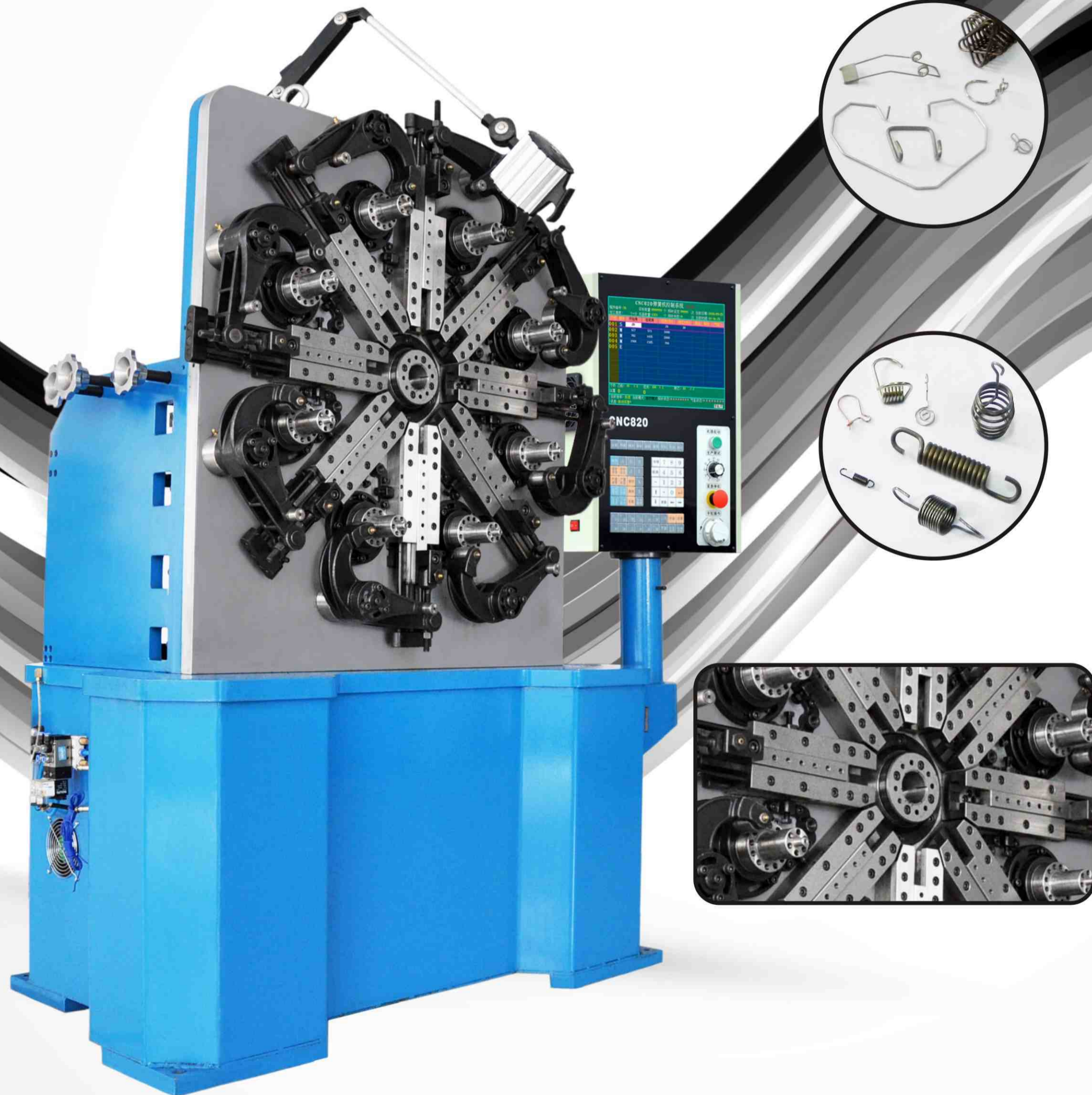
## Features & function

- GH-CNC20 coiling spring machine is divided into the cam, send the line, switch to the core, curl four-axis, the mechanical part of a total of eight sets of slide, crank and cam rotation axle. Cam fixed to the rotating axle, you can screw adjustment front and rear, and used to promote the movement of the slide. Mechanical action in three ways: extrusion, stamping and molding ;
- The computerized cam rotation system can be set from 0.1-359.9°, every two wire feeding wheels constitutes of one group, totally three groups ;
- GH-CNC20 coiling spring machine is equipped with ADT-CNC820 computer. The computer system can save 1000 material numbers. Axis location, feeding data, production speed and production output are displayed on the screen. The program data can be set and changed easily ;
- The rotation core system is installed on the axis. The axis can rotate leftwards and rightwards. The rolling axis is installed on the sliding house. The cam drives it rotate 360°, also can control direction action or designated moves back and forth ;
- Optional accessories: Cutting tool, Rolling axis, safety door.

## Specification

Model	GH-CNC20
Wire Diameter	Φ0.3 ~ 2.5mm
Axis	3
Maximum Feeding Length	Unlimited
Maximum Manufacture Speed	100Pcs/Min
Cam Server Motor	2.7KW
Wire Feed Servo Motor	2.7KW
Z-axis Servo Motor	1.0KW
Power AC	3Phase,220V
Dimensions ( L*D*H )	1040X600X1575mm
Machine Weight	800kg

# GH-CNC35 Coiling Spring Machine



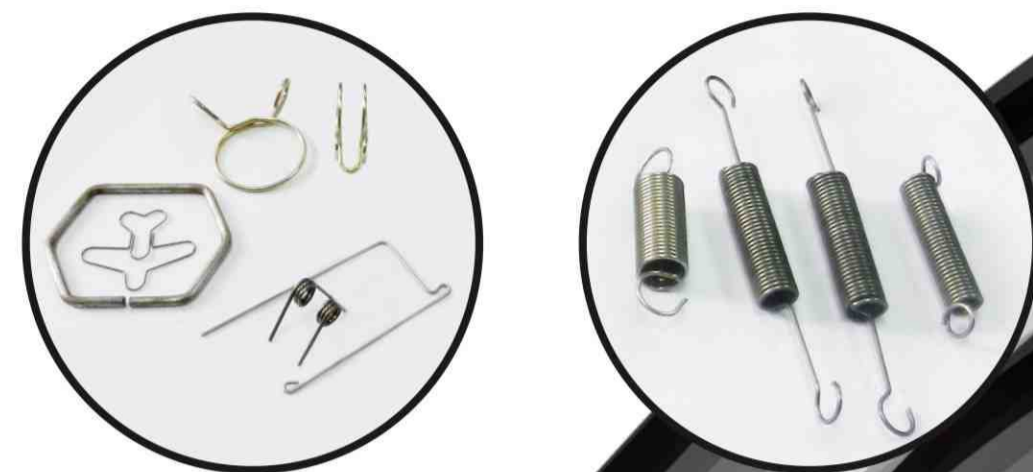
## Features & function

- ◆ GH-CNC35 coiling spring machine is divided into the cam, send the line, switch to the core, curl four-axis, the mechanical part of a total of eight sets of slide, crank and cam rotation axle. Cam fixed to the rotating axle, you can screw adjustment front and rear, and used to promote the movement of the slide. Mechanical action in three ways: extrusion, stamping and molding;
- ◆ The computerized cam rotation system can be set from 0.1-359.9°, every two wire feeding wheels constitutes of one group, totally three groups;
- ◆ GH-CNC35 coiling spring machine is equipped with ADT-CNC820 computer. The computer system can save 1000 material numbers. Axis location, feeding data, production speed and production output are displayed on the screen. The program data can be set and changed easily;
- ◆ The rotation core system is installed on the axis. The axis can rotate leftwards and rightwards. The rolling axis is installed on the sliding house. The cam drives it rotate 360°, also can control direction action or designated moves back and forth;
- ◆ Optional accessories: Cutting tool, Rolling axis, safety door .

## Specification

Model	GH-CNC35
Wire Diameter	Φ0.8 ~ 3.5mm
Axis	3
Maximum Feeding Length	Unlimited
Maximum Manufacture Speed	75Pcs/Min
Wire Feed Servo Motor	5.5KW
Cam Server Motor	5.5KW
Z-axis Servo Motor	1.0KW
Power AC	3Phase,380V
Dimensions ( L*D*H )	1900X1005X1900mm
Machine Weight	1800kg

# GH-CNC50 Coiling Spring Machine



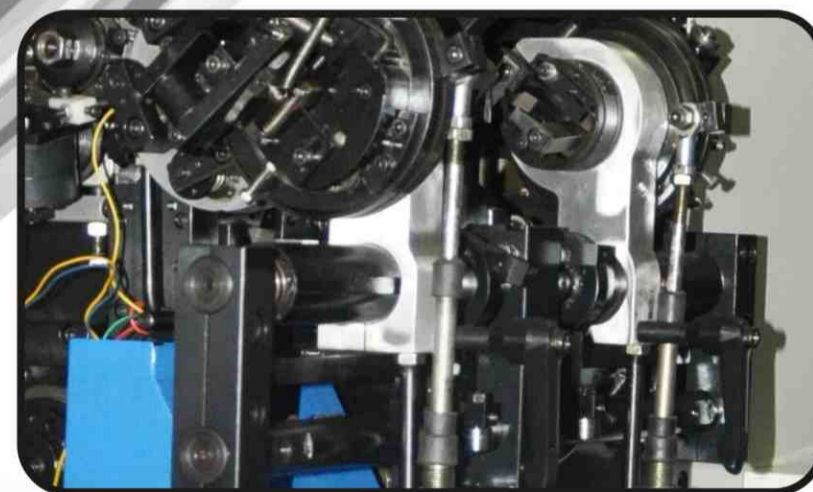
## Features & function

- GH-CNC50 coiling spring machine is divided into the cam, send the line, switch to the core, curl four-axis, the mechanical part of a total of eight sets of slide, crank and cam rotation axle. Cam fixed to the rotating axle, you can screw adjustment front and rear, and used to promote the movement of the slide. Mechanical action in three ways: extrusion, stamping and molding ;
- The computerized cam rotation system can be set from 0.1-359.9°, every two wire feeding wheels constitutes of one group, totally three groups ;
- GH-CNC50 coiling spring machine is equipped with ADT-CNC820 computer. The computer system can save 1000 material numbers. Axis location, feeding data, production speed and production output are displayed on the screen. The program data can be set and changed easily ;
- The rotation core system is installed on the axis. The axis can rotate leftwards and rightwards. The rolling axis is installed on the sliding house. The cam drives it rotate 360°, also can control direction action or designated moves back and forth ;
- Optional accessories: Cutting tool, Rolling axis, safety door .

## Specification

Model	GH-CNC50
Wire Diameter	Φ2.0 ~ 5.0mm
Axis	3
Maximum Feeding Length	Unlimited
Maximum Manufacture Speed	60Pcs/Min
Wire Feed Servo Motor	7.0KW
Cam Server Motor	5.5KW
Z-axis Servo Motor	1.5KW
Power AC	3Phase,380V
Dimensions ( L*D*H )	1800X1300X2100mm
Machine Weight	3500kg

# GH-CNC210 Mid-Hook Spring Pulling Machine



## Features & function

- The mechanical parts are specially designed for various extension springs with the up-to-the date design philosophy ;
- With the operation habit of spring making machine, it is added with more functions. It supports on-line programming and it is easy to operate ;
- The update program is available from the internet ;
- It supports hand wheel and testing knob control processing ;
- It shuts down automatically in case of break-up, winding or missing ;
- The line feeder runs synchronously to meet the needs of high speed production ;
- Specializing in the production of a variety of ultra-precision English German-style extension spring .

## Specification

Model	GH-CNC210
Wire Diameter	0.1-1.0mm
Axis	2
Maximum Feeding Length	Unlimited
Maximum Manufacture Speed	100Pcs/Min
Probe	2
Cam Server Motor	1.5KW
Cam Servo Motor	1.0KW
Power AC	3Phase,220V
Dimensions ( L*D*H )	850X940X1900mm
Machine Weight	380kg

# GH-CNC10A Ten-Axis Non-Cam Coiling Spring Machine



## Features & function

- No cam, no rocker, no need to arrange the cam plate, reusable cutting tools ;
- The mechanical parts are specially designed for various ultra precision springs with the up-to-the date design philosophy ;
- The sliding house is designed with full rolling guide track without rocker ;
- Safety device is equipped to avoid knife collision ;
- With the operation habit of universal machine, it is added with more functions. It supports on-line programming and it is easy operation ;
- The update program is available from the Internet ;
- It supports hand wheel and testing knob control trial processing ;
- The location of cam and rotation core can be set by means of the parameters, which still exist after shutdown ;
- High-sensibility probe control, angle can control  $\pm 2^\circ$ .

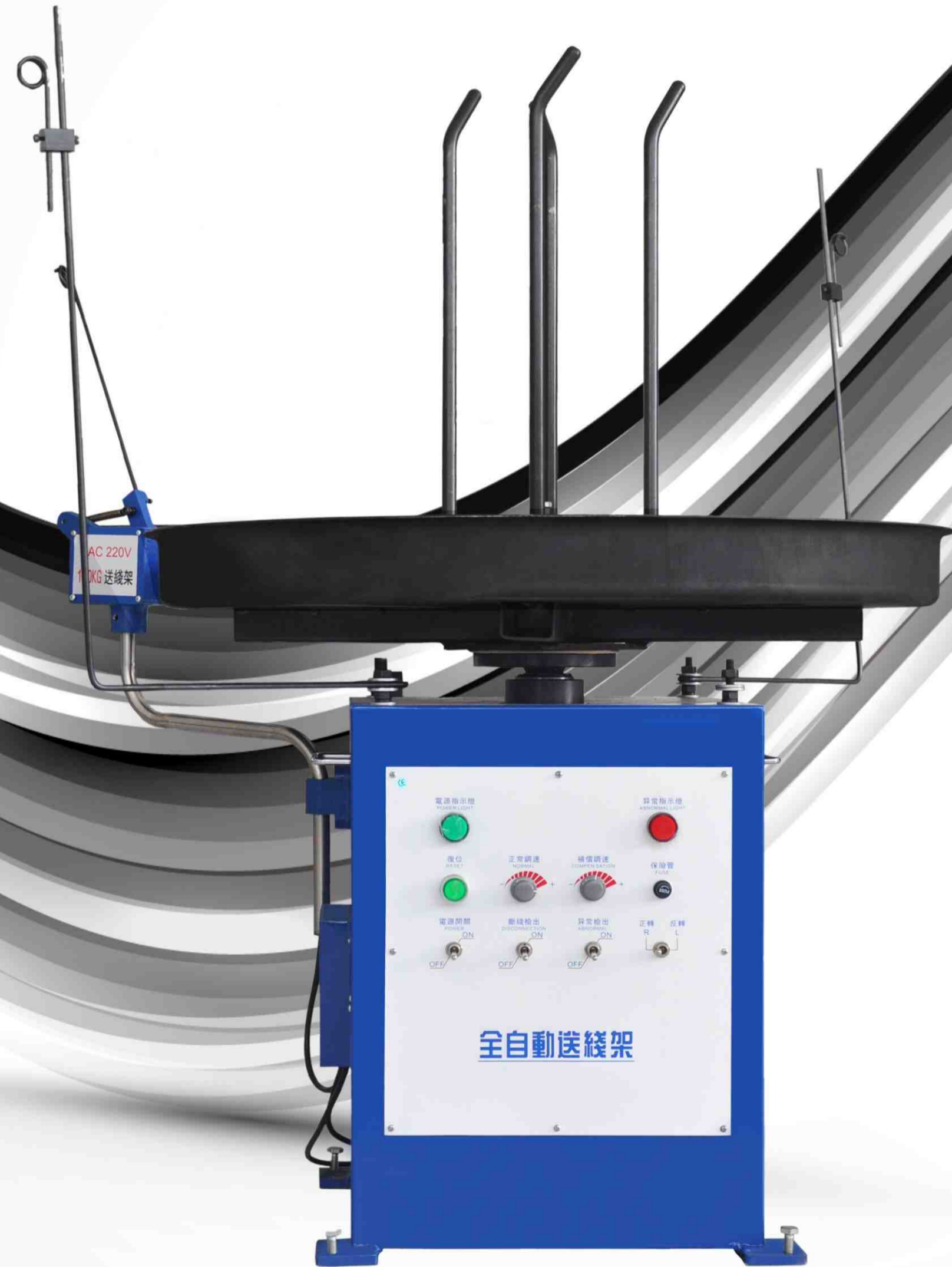
## Product range

It can be used to manufacture various ultra-precision irregular springs, compression springs, pulling springs, dual-torsion spring, flat line(spiral power spring)and line molding spring etc.

## Specification

Model	GH-CNC10A
Wire Diameter	0.08-0.3mm
Axis	10
Maximum Feeding Length	Unlimited
Maximum Manufacture Speed	100Pcs/Min
Probe	4
Total Power Of Motor	2.8KW
Power AC	3Phase,220V
Dimensions(L*D*H)	1200X520X1750mm
Machine Weight	350kg

# Automatic Spring Wire Feeder



## Specification

Feeder Model	Disk Diameter	Rotation	Load Weight
GH-60	62cm	150RPM	60KG
GH-150	82cm	150RPM	150KG
GH-200	110cm	150RPM	200KG
GH-300	110cm	150RPM	300KG
GH-500	130cm	150RPM	500KG
GH-2000	170cm	60RPM	1500KG

## Features & function

- ◆ Alarming for tangling wire ;
- ◆ Alarming for broken wire ;
- ◆ Point start wire pay off ;
- ◆ Automatic wire feed ;
- ◆ Manual of uniform wire feed ;
- ◆ Positive and reversal rotation .

# GH-210 Temper Furnace



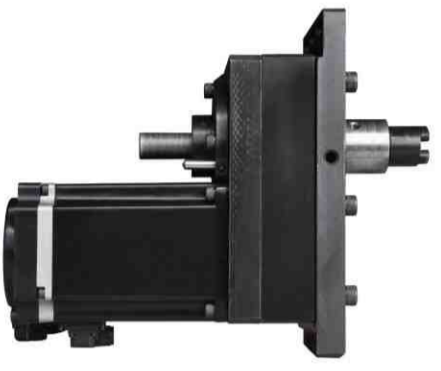
## Features & function

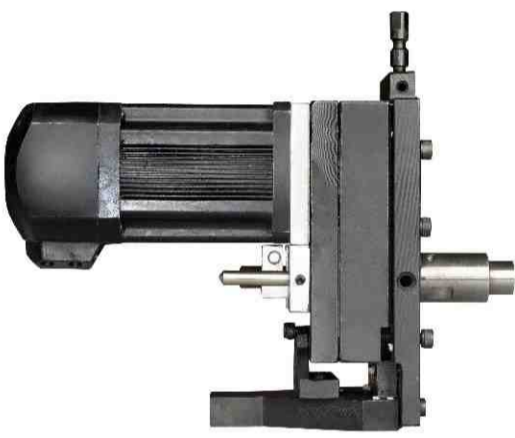
- ♦ Rated Max temperature of furnace:500 degree ;
- ♦ Limited precision degree of furnace temperature:+/-5 degree ;
- ♦ Temperature raise range from 20 degree to 500 degree less than 30 minutes ;
- ♦ Rated Voltage:380V/220V ;
- ♦ Range of furnace schedule, definite as how long work piece stay in furnace, designed as customer required ;
- ♦ Air Mixer, definite as Fans ;
- ♦ Large model tempering furnace could be designed running by electricity ;
- ♦ Height of furnace could be designed as customer required ;
- ♦ Shell according to customer requirements, design stainless steel decortive surface ;
- ♦ Furnace temperature 500 ° C can be adjusted within the thermostat after power consumption by about 30%.  
To achieve energy saving and environmental protection requirements ;
- ♦ Supporting intelligent temperature controller, high-temperature, high density fiber lining insulation, to ensure the consistency of the spring mass .


## Temper furnace Optional model

Model	Outside Dimensions			Hearth Dimensions			Power (KW)	Range Of Tempering Time(min)	Diameter Of Tempered Pieces(min)	Output Of Tempered Pieces(kg/h)	Weight Of Furnace Body(kg)
	Length	Width	Height	Length	Width	Height					
GH-210	2000	850	1250	1000	200	60.9	8	2.5-50	0.1-6	18-25	250
GH-315	2600	950	1250	1500	300	90	16	4-55	0.1-6	35-50	750
GH-320	3300	950	1300	2000	300	90	20	6-60	0.1-6	50-70	950
GH-420	3300	1050	1300	2000	400	90	26	6-60	0.5-6	60-80	1000
GH-520	4100	1100	1600	2000	500	100	30	6-60	0.5-10	80-100	1400
GH-540	6100	1100	1900	4000	500	130	50	10-100	1-14	200-250	2400
GH-630	5100	1200	1900	3000	600	120	48	8-60	1-12	160-200	2200

# Supporting

CNC1A Rolling Axis	Specification
	Applicable Model: GH-CNC20 Type Coiling Spring Machine
	Wire Diameter: 0.2-2.5mm
	Server Motor: 0.4KW
	Max Rotation Speed: 600RPM
	Max Coils: 99

CNC3A Rolling Axis	Specification
	Applicable Model: GH-CNC50 Type Coiling Spring Machine
	Wire Diameter: 2.0-4.5mm
	Server Motor: 1KW
	Max Rotation Speed: 600RPM
	Max Coils: 99

Length Gauge	Specification		
	Working Speed	With Selector	200Pcs/Min
		Without Selector	200Pcs/Min
	Length Display	0.01-5994mm	
	Scale Display	0.01-999mm	
	Precision	0.005mm	
	Min Setting	0.01mm	
	LCD Screen	128*72mm	
	Power Input	AC220	
	Weight	22kg	

## Features & function

- ◆ Automatic spring length calibration ;
- ◆ Automatic nonconforming product screening ;
- ◆ Detecting alarm function ;
- ◆ Easy operation and use .