



# **Steel Wire Production Machine (Straightening And Cutting Machine)**

## **Technical specification**

**RONEN GROUP**

-----Technical specification for Straightening And Cutting Machine-----



## 1、 Technical Parameters:

Specification/Model		LZ-600 High Speed Straightening And Cutting Machine
Applicable Wire Diameter		3.0~6.0mm
Maximum Linear Velocity		100 Meters/min
Maximum Cutting Quantity		150 pcs/min
Cutting Length Range		100mm~9000mm
Accuracy		± 0.5mm
Host Size		2200 * 850 * 1500mm
Wire Reel	Load-Bearing	1.5 Tons
	Disc Diameter	1.2 Meters
	Edge Of The Stall	1.4 Meters
	Size	2200*1700*1200mm
Take-up configure	Wire Support Boards	2m ,2pcs
	U-Shaped Material Trough	1.2m ,1pc
	Wire Support	V-shaped bracket,3pcs



## 2、Electrical Configuration:

Number	Name	Brand
1	Motion Controller	Homemade
2	Encoder	Japan Omron
3	Button	Idec
4	Touch Screen	Kinco
5	Wire Feeding Servo Motor	Sine
6	Cutting Blade Servo Motor	Sine
7	Straight Motor	Jiangmen Jiangsheng
8	Inverter	Yidiantong
9	Low Voltage Electrical	Chint, Schneider

## 3、Mechanical Configuration :

Number	Name	Specification/Material/Brand
1	Rack	Square Tube Welding, Gantry Milling Leveling
2	Bottom Plate, Vertical Plate	45 # Ground Flat
3	Axis	40Cr Straightening; Precision Grinding After Machining
4	Wire Feeding Wheels	DC53 Vacuum Heat Treatment
5	Guide Rails, Sliders	Taiwan TBI

## 4、Control Section:

A. The system uses a 7-inch touch screen to set cutting length, wire feeding speed, straightening axis frequency, and other control parameters. Real time detection and calculation of wire speed using a motion controller and encoder to control the operation of the cutting servo motor.

B. Set the straightening axis to enable automatic shutdown protection function;



Automatic shutdown protection for wire breakage.

C. Action sequence:

- ① Manual threading: Loosen the coding wheel handwheel manually, press the manual threading button, and the wire will be fed forward, straightened, encoded, and sent to the cutting position. Tighten the coding wheel handwheel manually.
- ② Automatically preset cutting length, speed, unwinding speed and other parameters, press the start button, the equipment will run automatically, and press the automatic stop button when stopping.

## 5、Mechanical Part:

- A. The rack is welded with 100 \* 100 square tubes.
- B. The feeding and cutting are driven by servo motors and synchronous belts.
- C. The straightening die adopts high-quality alloy die, and the straightening bearing seat adopts water-cooled cooling (built-in).
- D. The cutting blade adopts Taiwan TBI guide rails and sliders.
- E. The machine body shall be equipped with necessary safety protection measures, and the protection of the wire laying part shall be self-made by Party A.

**BEIJING RON-EN MACHINERY AND INTEGRATION CO., LTD**

For and on behalf of  
BEIJING RON-EN MACHINERY&INTEGRATION CO.,LTD.

北京荣恩卓立设备技术有限公司

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