

Lijian[®] Busbar Machine

Standard Maker of China's CNC Busbar Machine National Standard (GB/T 37946-2021)

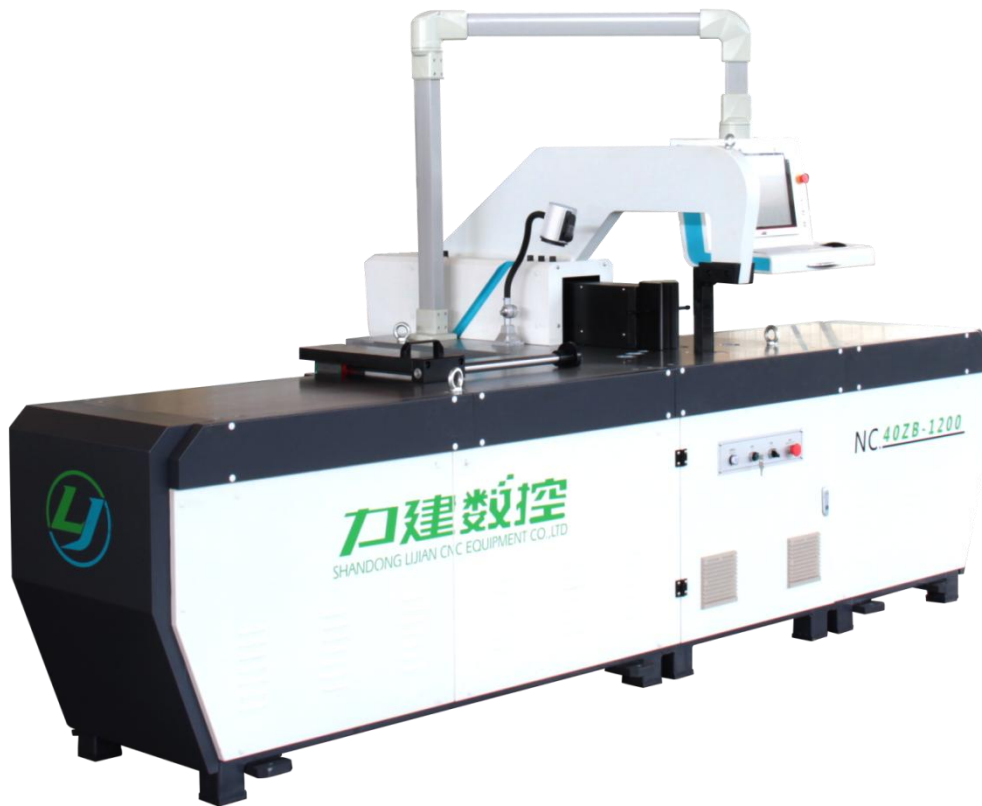


Shandong Lijian CNC Machinery Co., Ltd.

ISO 9001 | CE | SGS | Certified | www.sdljmachine.com

NC. 40ZB-1200 CNC Busbar Bending Machine

Servo Control | Automated | High Precision



WHY CHOOSE ALL-SERVO OVER HYDRAULIC:

- Driven entirely by a servo motor, it completely eliminates the need for hydraulic systems (no oil pumps, no valve groups, and no oil leakage due to aging seals).
- Servo motors operate with extremely low noise.
- The mechanical transmission is unaffected by oil temperature, with a repeatability of $\pm 0.15\text{mm}$ and an angle of $\pm 0.3^\circ$.
- Automatic standby shutdown function provides power on demand, resulting in significant energy savings.

I. Introduction:

The NC.40ZB-1200 CNC busbar bending machine is an efficient, highly automated, and high-precision equipment used for bending copper and aluminum busbars. The machine is powered by servo motors, controlled by CNC units, and equipped with a self-developed CAD/CAM software system. This ensures that the machine's level of automation is at the forefront of the industry. It is an ideal equipment for busbar processing in industries such as complete sets of high and low voltage

equipment, box-type substations, transformers, and busbar slots.

The machine adopts large inertia servo motor as the main power to provide transmission power for high-precision planetary reducer and grinding ball screw.

Compared with the traditional hydraulic bending machine, it has the following advantages:

1. The transmission is stable, the repeated positioning precision is high, the precision is not influenced by the temperature, and the stability is higher.
2. Automatic stop function is available in standby mode, which greatly reduces working energy consumption.
3. The machine adopts servo motor as power, solving the trouble of oil leakage caused by hydraulic transmission.
4. When working, the sound of the servo motor is low, reducing the noise pollution.
5. It has the centering capacity carrying mode, and the linear guide, which balance the stress, and reduce the influence of eccentric load and friction on the service life and processing precision of the lead screw.
6. The material stopping ruler is divided into three gears, which can be adjusted manually according to the processing technology, thereby greatly improving the working efficiency.



II. Selection of main accessories:

1	Servo motor	Rexroth	1 pc	2	Servo drives	Rexroth	1 pc
3	Spindle lead screw	Nanjing Technological Equipment	1 pc	4	Linear guide	HIWIN/PEK	5 pcs
5	Precision planetary speed reducer	Safequipment	1 pc	6	AC contactor	Siemens, Germany	1 pc
7	Computer	Beijing Qiyang	1 pc	8	Positioning lead screw	TBI, Taiwan	1 pc
9	Programmable controller	Beckhoff, Germany	1 pc	Blank here			

III. Parameter comparison:

1.	Nominal pressure	kN	400	2.	Spindle motor power	kW	7.5
3.	Bending accuracy	°	±0.3	4.	Spindle stroke	mm	200
5.	Material blocking accuracy	mm	±0.15	6.	Max. size of flat bending	mm	15×160
7.	Max. size of vertical bending	mm	12×120	8.	Material blocking length	mm	1200
9.	Machine weight	kg	3100	10.	Machine size	mm	3500×1450×1850

IV. Accessories:

1.	Flat bending core	R5	1 pc.	2.	Flat bending core	R10	1 pc.	3.	Flat bending cavity	50mm	1 pc.
4.	Flat bending cavity	80mm	1 pc.	5.	Vertical bending core	R30	1 pc.	6.	Vertical bending core	R100	1 pc.
7.	Vertical bending inserting shaft		4 pcs.	8.	Accompanying tools	1 set	Blank below				

Machine Display:



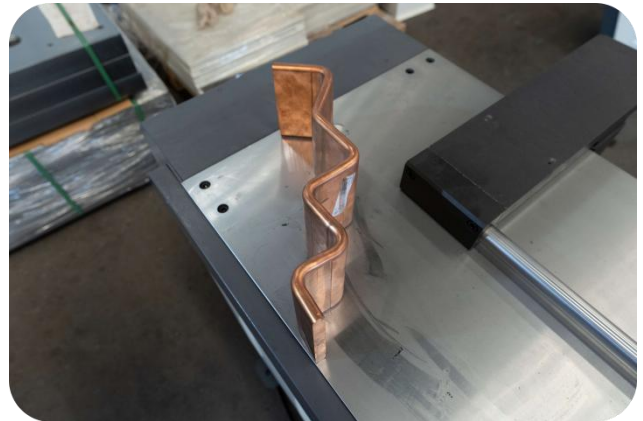
Bending unit



Auto-backgauge

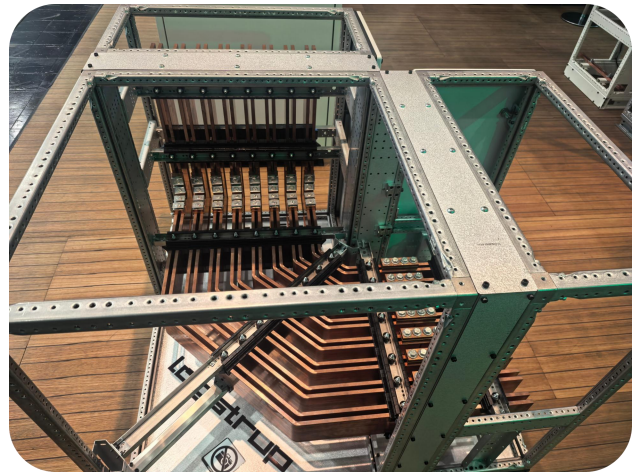
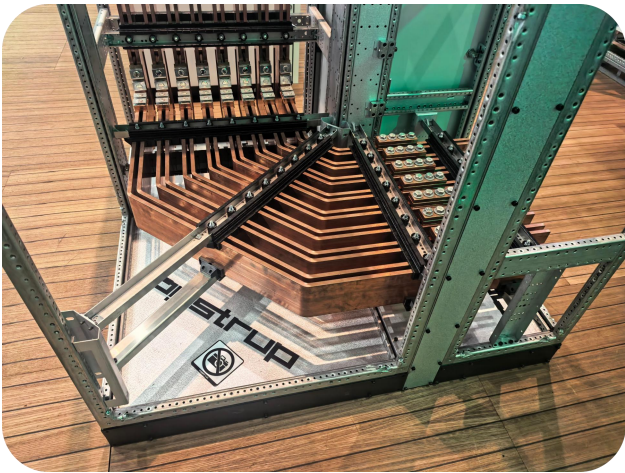


Bending operation



Busbar bending samples

Customer Reference:



Cooperation Partner:



Let's Shape the Future of Power Automation Together.

Inquiry Email:

Phone/WhatsApp:

Factory Address:

Website: