

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

CNC 3 in 1 Busbar Processing Machine

DGWMX303E-3-S

Bending Angle Control | Turret Punching Unit | Double Working Benches



Bullet points:

- The three units are integrated into one device and can work independently at the same time without interfering with each other.
- Turret-type mold library (4/6/8 stations) + mold and turret clearance 0-0.03mm, eliminating the need for mold changes every time, and ensuring high concentricity.
- The closed bending structure, with a 50mm thick beam connecting the output and load points, exhibits rigidity far exceeding that of open bending.
- The 3mm steel plate welded oil tank with phosphate treatment prevents oil from deteriorating; each pump and cylinder has independent oil supply, ensuring no interference between them.

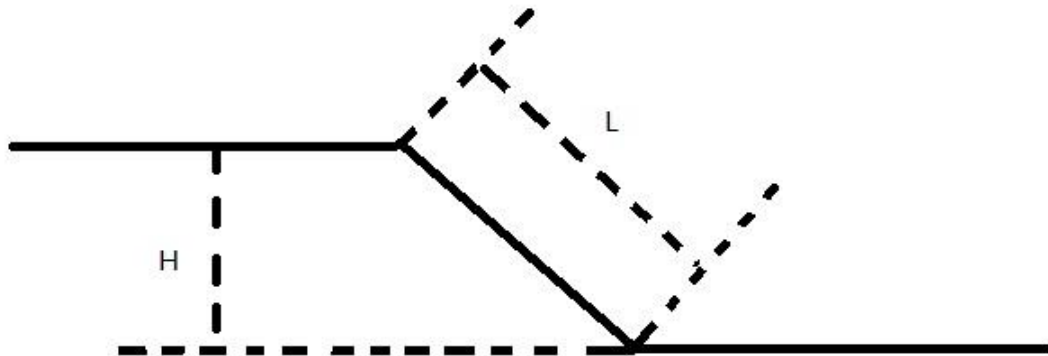
Introduction:

The machine is equipped with punching cutting bending three units, the three units can work at the same time, and will not influence each other. The punching unit is turret structure, the bending unit is closed on the top, the bending angle is with storage function. The main function is processing different types of copper (brass) aluminum bus bar. When it is working, workers just need to choose the unit, then machine will cutting and punching (holes, long holes square holes special holes), horizontal bending, vertical bending, embossing, leveling, twisting, and ect.

Main Characteristic:

- (1) ★SIEMENS 40 PLC control system from German, which is with Automatic shutdown function, and can control the down time of cutting unit and punching unit, it is more stable and reliable than traditional relays.
- (2) Punching unit is with nodular-cast-ironed and turret typed turntable with 4/6/8 molds holes, which is a whole one, so that the holes for molds (the molds is processed by our processing center) with higher precision and the clearance of the molds and turntable is 0.00-0.03mm, improving the concentricity, then the life of molds can be longer and need not change the molds so frequently.
- (3) By added punching position, the machine can locate x axis and y axis mechanical double direction location. That makes workers don't need cross lines and make punching marks, then improving the operating efficiency and accuracy of punching.
- (4) Cutting unit is with double upright pillars and double blades cutting structure (Patent NO.ZL201120262802.1) the above blade and below blade are installed vertically parallelly, make sure the cut smooth, no waste, no deformation for longtime used.
- (5) Bending unit is with closed bending, output point and force bearing force are connecting with beam of 50mm thickness, the mechanical strength is stronger than those open bending.
- (6) Bending angle is controlled by numerical control system. Z bending can be processed through enter H (vertical height of above and below planes) and L (length of Hypotenuse) (it can calculate the angel that needed itself). When it is working, workers just need enter the angel

and the thickness for the busbar that needed then the machine can processing the parts conveniently and fast. And the machine is with storage function and error compensation.



- (7) Bending unit can processing U bending. The minimum distance is 40mm.
- (8) Hydraulic oil tank is welded by 3mm thickness steel plate, and with phosphating, making the hydraulic oil can be used longer and will not be deterioration.
- (9) The machine offers the oil one to one, three cylinders/three pumps, not influence each other.
- (10) Cylinder oil tubes are with international A type connection, durable and easy to repair.
- (11) The machine is with casters, easy to move.



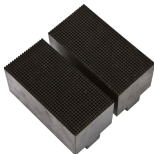
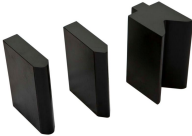
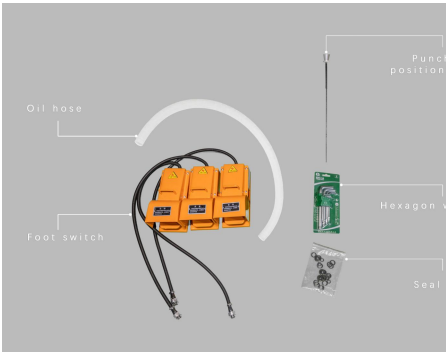
Main parts:

1	Main Motor	Juliweite	3
2	Hydraulic Oil Pump	LIJIAN (MADE IN TAIWAN, China)	3
3	Electromagnetic reversing valve	FENGYI	3
4	Electromagnetic relief valve	FENGYI	3
5	AC contactor	SIEMENS	3
6	Thermal relay	SIEMENS	3
7	PLC	SIEMENS	1
8	Encoder	GUANGYU	1
9	Touch screen	PanelMaster	1

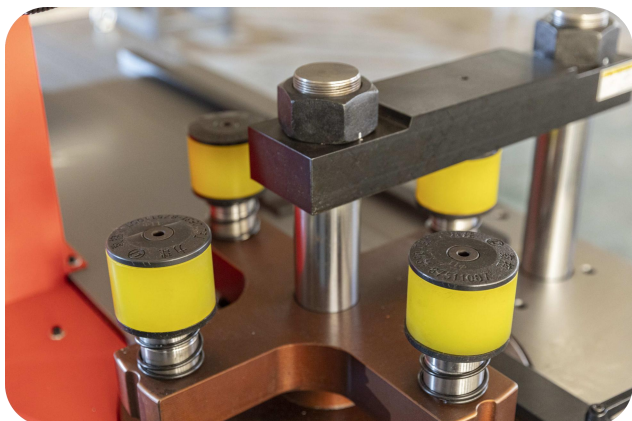
Parameter:

Nominal Pressure	350 kN
Maximum Cutting Size	12 mm × 160 mm
Punching Size	Φ4.3 mm - Φ25 mm
Maximum Horizontal Bending Size	12 mm × 160 mm
Maximum Vertical Bending Size	12 mm × 120 mm
Workbench Maximum Size	First: 1500 mm × 1200 mm Second: 940 mm × 420 mm
Machine Size	1750 mm × 1350 mm × 1500 mm
Machine Weight	1390 kg

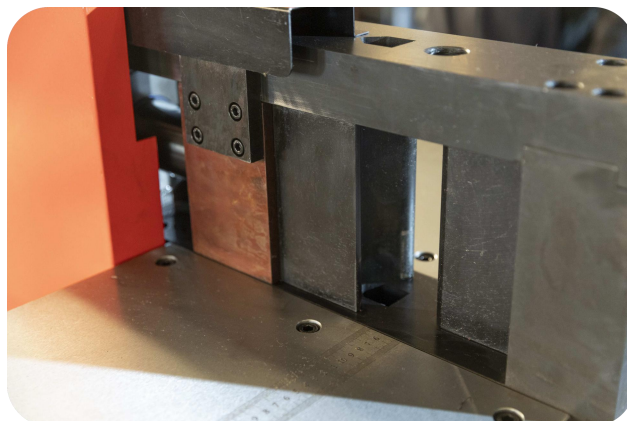
Accessories

No.	Configuration	Quantity	Photo
1	Punching molds $\phi 7$, $\phi 9$, $\phi 11$, $\phi 13$, $\phi 17$, $\phi 11 \times 15$, $\phi 13 \times 17$, $\phi 17 \times 21$	8 sets	
2	Embossing mold	1 set	
3	Cutter	1 set	
4	Horizontal bending mold	2 sets	
5	Punching positioning pin	1 pc	
6	Hexagon wrench	1 set	
7	Seal ring	1 set	
8	Foot switch	3 pcs	

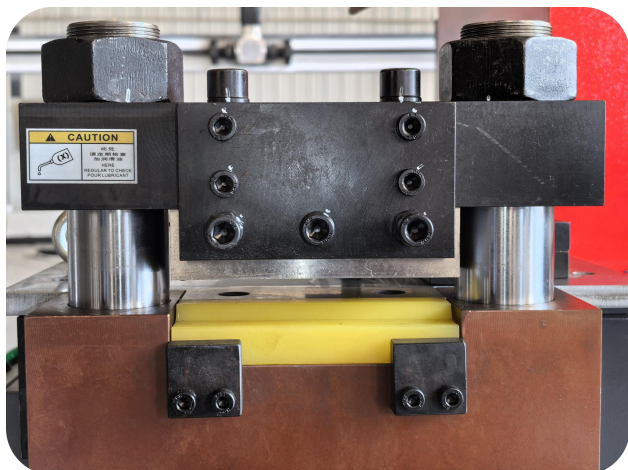
Machine Display



Punching unit



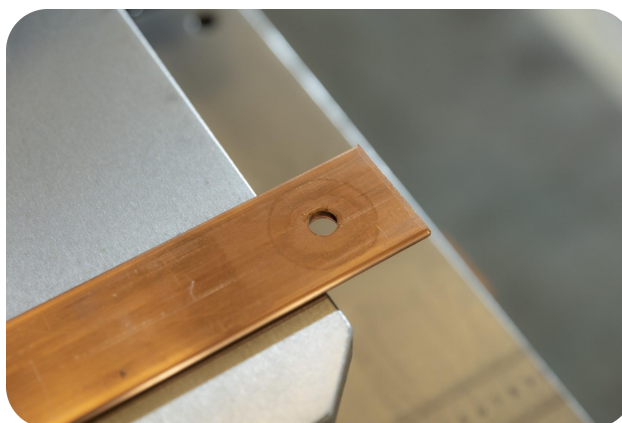
Bending unit



Cutting unit

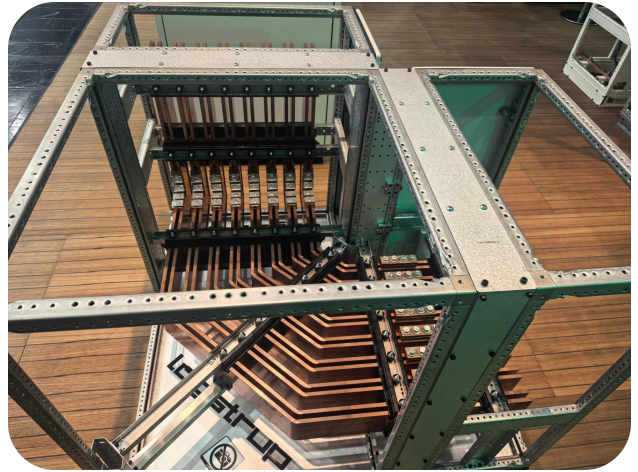
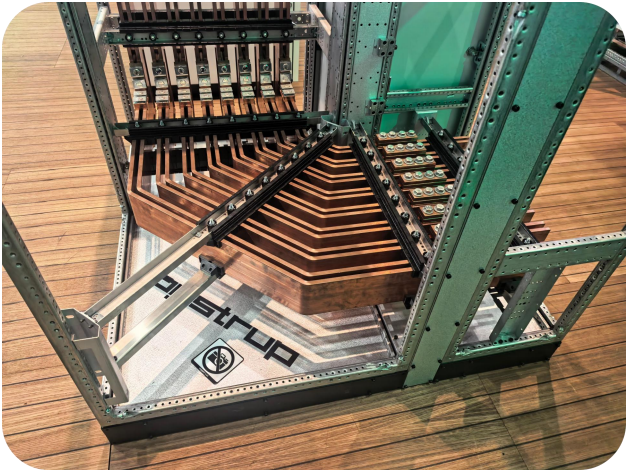


Double workbench



Busbar sample

Customer Reference:



Cooperation Partner:



Let's Shape the Future of Power Automation Together.

Inquiry Email:

Phone/WhatsApp:

Factory Address:

Website: