



JTM NC50



TECHNICAL INFORMATION



Automatic NC50 pipe bending machine

(Equipment picture)

Picture of sample machine (have two colour cream and blue)



產品運用實例

航空業 	汽車部品 	機車零件 	大型車製造 	造船業
運動器材 	農機製造 	鑄造零件 	鋼管加工 	鋼絲繩

(二)、Mechanical properties and main application scope and steps

Semi automatic pipe bending machine adopts NC single mould bend around C (axis), the move has bend big power, high control precision, all programming and input directly in the dialogue type on touch screen, all the information that can be automatically selected in Chinese or English, The operation is very convenient, fast and accurate.

(三)、Main technical parameters of Automatic NC pipe bending machine

1) The design and manufacture of the equipment shall comply with ISO international standards and national standards related to machine tools.

2) The measurement units of all parts and various instruments conform to SI international standards.

Major technical parameters	Unit	Range of value
Maximum bending capacity	mm	φ 50×2.0t×2D
Bending radius range	mm	Min 1,5 DR, Max 250mm
Bending angle range	degree	0-190°
Workbench(mold center to ground height)	mm	600
Set the bending quantity for each pipe	↑	12 point

fitting		
Data entry Method	Degrees	Input degree value
Maximun effective distance	mm	2200
Bending speed	Deg/sec	60 (adjustable)
Bengding accuracy	degree	±0.1
Hydraulic system motor	KW	5,5
Hydraulic system power	Mpa	12 Max
Machine weight	kg	900
Machine size	mm	3280×1150×1400

(四) 、 Functional characteristics of Automatic NC pipe bending machine

1, Two or Three-dimensional semi automatic numerical control bending machine adopts PLC numerical control system and man-machine interface dialogue operation, files can be opened, edit, save a new file, copy, delete, and other editing functions, program setting is simple and easy.

2, in the process of industrial controller is shown on the touch screen half cycle, the whole cycle operation, at the same time can be free to choose, manual, semi-automatic and automatic, slow corners, using elastic button switch, With automatic start, emergency stop, tight stop to continue working three functions, convenient for bending special pipe fitting manual intervention treatment, high safety performance.

3. The bend (C) axis, right moving mode (D) are all driven by Hydraulic Cylinder. each bend can set the rebound compensation value and demoulding clearance according to the change of material.

4, with the function of automatic detection of errors and faults, when there is any abnormal action or any danger, the machine will immediately stop the alarm, show the cause of the fault, to help the operator troubleshoot.

5, the hydraulic system adopts the hydraulic pressure valve centralized control loop, can prolong the life of each mechanical driving mechanism parts. so that the machine runs more stable.

(五) Automatic NC pipe bending machine mechanical, electrical appliances, hydraulic configuration part

NAME	Material or brand	Production Place
Machine body	Steel plate welding (tempered)	SLD
Machine head	Adopt the rail track clamping mode	SLD
Bearing	HRB	HRB
Sealing element		TaiWan DZ
Oil pump motor	taihu	wuxi
Power switch	Ming wei	Taiwan
Proximity switch	Omron	Taiwan
A.C. contactor	T-verter	Taiwan
Intermediate relay	T-verter	Taiwan
Thermorelay	T-verter	Taiwan
Magenetic exchange valve	Lianji	China
Oil pump	BEST	Hezi

(六)、 Use conditions and power supply part of Automatic NC pipe bending machine

1. Ambient temperature: 0-45 degrees The machine works smoothly, precise and reliable.

2. Relative humidity: 90% of the machine runs smoothly, precise and reliable.

3. Power supply: the power supply is 380VAC (+ / -10%), 50Hz ((+ / -1Hz).

(七) Details of packing accessories of Automatic CNC pipe bending machine

Number	Name	Specs	Pcs
1	Machine	by contract	
2	internal hexagonal wrench	4、 5、 6、 8、 10、	1
3	monkey spanner	0-30MM	1
4	grease gun		1
5	machine tool isolator		4
6	Mould	by contract	
7	working instruction		1

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Our mechanical specifications can meet the bending pipe of various industries:

- **Transportation:** Locomotive/car/bicycle - exhaust pipe, brake/fuel line, directioner, air conditioning pipe Road, seat, balancer, bumper, window frame/handlebar, frame etc.
- **Furniture industry:** indoor and outdoor desks and chairs, office desks and chairs, shelves, beds and other furniture.
- **Leisure industry:** fitness equipment, buggies, strollers, amusement facilities.
- **Heating and cooling industry:** water heater, electric heater, gas furnace, refrigerator, air conditioning, etc.
- **Heavy industry:** boiler, power plant, chemical plant, diesel engine, shipbuilding and other piping.
- **Other Industries:** Household Products, Rehabilitation medical equipment, Bathroom equipment, Decoration industry, Construction industry, Agriculture.