# XS-50NC Single-head hydraulic pipe bending machine











**Is the largest diameter: Φ 50 * 2.5 mm, maximum bending radius: 300 mm**




**Product features:**

1.NC pipe bender is controlled by microcomputer

2.It has manual control, semi-circular control and full automatic control

3.Overload automatic protection

4.Automatic detection of machine failures and operational failures

5. mobile foot switch has urgent stop function

6.The screen shows the touch button

7.Automatic memory function

8.Power failure automatic protection function

1. **XS-50NC technical parameter ：**

| **Project** | **Unit** | **XS-50NC** |
|---|---|---|
| Maximum use of carbon steel pipe | mm | Φ50*2.5 |
| Best for stainless steel pipe | mm | Φ45*2.0 |
| Maximum square tube | mm | 40*40*2.0 |
| Maximum bending radius | mm | 250 |
| Maximum bending Angle | degree | 185° |
| Maximum core length | mm | 2200 |

| | | |
|---|---|---|
| Control system | | NC Microcomputer control |
| The number of bends can be set for each pipe | Pcs | 16 |
| Motor power | kw | 5.5 |
| Maximum oil pressure | MPa | 15 |
| Hydraulic control system | | Solenoid valve |
| Oil pump discharge capacity | L | 12 |
| Oil storage tank | KG | 150 |
| Machine weight | kg | 1100 |
| Machine size (length x width x height) | mm | 3000*900*1300 |

2. **Structural type**

1. Adopting the straight-clamping structure of the rotating arm

2. The hydraulic guide plate is used to assist the push structure

3. The hydraulic system of the machine is equipped with a water cooling device, which is convenient for users to control the oil temperature

4. The main drive adopts rack mechanism

5. The bending direction of the pipe fittings is the top view and the clockwise rotation is the bending direction

6. Install the front core pulling device

## 3.Equipment configuration:

### I. hydraulic parts

| | | |
|---|---|---|
| **1.** | The electromagnetic valve | Joint venture Rexroth series |
| **2.** | hydraulic pump | JV Best |
| **3.** | hydraulic pipe | JV Witt |
| **4.** | Oil cylinder UN ring | Taiwan DZ |
| **5.** | Cylinder "O" ring | Taiwan DZ |
| **6.** | hydraulic cylinder | Precision homemade |

### 2. Electrical configuration

| Serial number | Name | Brand | Origin |
|---|---|---|---|
| **1.** | Oil pump motor | Taihu Lake | Wuxi |
| **2.** | motherboard | water | Changzhou |
| **3.** | proximity switch | Chint | Zhejiang |
| **4.** | AC contactor | Chint | Zhejiang |
| **5.** | thermal relay | Chint | Zhejiang |
| **6.** | other | Chint | Zhejiang |
| **7.** | transformer | Jiuchuan | Zhejiang |
| **8.** | Encoder | Internal secret | Japan |

| | | | |
|---|---|---|---|
| | | control | |

## 4.**Electrical control and operation interface requirements**:

1. Touch control screen is used in the operation interface

2. Digital display resolution: turn 0.1 °

3. The control system can store 400 sets of processing cases

4. The bending parameters on the operation interface can be set

## **5**.**Bending process:**

1. The equipment meets the requirements of the drawings provided, and the quality of the manufactured product is not as good as the product samples, and the deformation of the bending part is not more than 5%

2. Provide the sample making tube to make the mold according to the buyer

3. No folds exist on the pipe surface at the bend

4. There are no grooves and obvious depressions on the surface of the pipe after bending

## 6. **Equipment performance:**

1. Directly input bending machining parameters

2. The machine has the functions of circulation, semi-circulation, manual and pause. Start with the switch when the next cycle is running, and the emergency stop button is needed when the emergency stop is needed

3. The operation interface is Chinese (Language can be customized)

4. Energy storage: up to 20 workpieces, each of which can be programmed with 14 bent hardware storage parameters

5. Directly input data and edit

**7.Technical data:**

(1) operation manual

The Chinese instruction manual of each hydraulic pipe bender includes (installation and maintenance operation instruction, vulnerable parts list, hydraulic schematic diagram, electrical schematic diagram, mold diagram)

**8.After-sales service:**

1.Warranty period: We guarantee machine quality for one year, during this year, if spare parts of the machine were damaged, we can send the component to the customer by DHL, TNT freely.

2.Our factory can send our engineer to the customer’s factory install, commission and training freely. The customer provide the double trip tickets, food and accommodation for our engineer. The customer also can send the engineer to our factory to learn the operation and maintains freely.

3.Our factory provide the service for the customer forever, if the customer need operation help, can contact us by Skype,Whatsapp,WeChat, Email and Telephone at any time, we provide 24 hours on-line service.

**9.Equipment acceptance:**

Pre-acceptance is carried out at the seller's factory, and the qualified test pieces specified by the buyer are processed.

**Acceptance Criteria**:

Acceptance according to the relevant terms of this technical agreement;

Trial processing and acceptance according to the actual sample of the bidding workpiece drawings.

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