

Certificate of conformity.

Product model: Name: Factory number: Inspector:

This product has passed the inspection and is allowed to leave the factory

Date

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1. Overview

Welcome to become a user of our factory.

Our factory specializes in the production and research of mechanical and electrical control boxes for steel bar straightening and cutting. The CNC straightening and cutting machines produced are manufactured using Japanese technology, and the products are sturdy, accurate, fast, and best-selling both domestically and internationally. They are also exported to Southeast Asia, Africa, India and other countries. take care

Before installing, operating, using, and maintaining the machine, please be sure to read this manual thoroughly and master the knowledge related to the machine proficiently. Safety information and all precautions must be followed before use. Improper operation may cause personal

injury and serious consequences of machine damage!
In addition, please keep the user manual of this product properly for easy access and reading when needed. It is essential to provide the user

manual to the end user.

2. Performance characteristics

1. Using microcomputer control, the steel bars (round steel, threaded steel) are automatically straightened and cut (hydraulic cutting).

2. A 'fool like' operating system that can be used immediately after understanding '123'.

- 3. Electronic digital ruler, without mechanical ruler, occupies a small area and is convenient for disassembly and assembly.
- 4. Multiple batches input length and quantity simultaneously, computer storage memory, efficient and convenient.

5. Remote shutdown within 30 meters.

6. Stable operation, low failure rate, and convenient maintenance.

3. Main parameters

1. Straightening and cutting steel bar diameter: round steel \$\phi\$ 4-10mm

φ 4-12mm φ 4-14mm

2. Cutting steel bar length: 0.3m-99m 3. Tapping speed: 31–45m/min 30m/min

4. Production per shift (calculated in 8 hours): φ 6 (3–4 tons); φ 8 (4–6

φ 10 (8–10 tons) φ 12 (10–12 tons)
 Number of cut pieces in a single batch: 1–9999

6. Normal length error: round steel ± 10mm

7. Power supply: 380V/50HZ three–phase AC;8. Motor: National standard copper wire 4kw (type 10)/5.5KW (type 12)/7.5KW (type 14)

9. Host size: 1500 (L) × 500mm (W) × 600mm (H) 1800 (L) × 650mm (W) × 600mm (H)

4. CNC computer box



5, Installation

1. Installation location requirements: A flat cement road surface or ordinary mud ground without water immersion or rain.

2. Install the host and computer box: adjust the level of the machine, and make sure that all four machine feet are stably supported on the ground, and then fix them with Wall plug; When installing on ordinary mud, a 50cm long, 18 large threaded steel can be inserted into the ground and fixed to the machine feet. The installation position of the electric control box should be fixed according to the cover picture. The installed machine should operate smoothly and minimize vibration as much as possible.

3. Installation of material distribution mechanism (self provided):

1/Material distribution bracket: installed 5-8m away from the machine.

2/Material distribution tray frame: installed 2-5m away from the machine.

When the distance is too far, a steel ring with a diameter of 15cm must be installed between the feeding port and the feeding tray frame at an interval of about 1m, to bundle the steel bars and prevent them from popping up and injuring people when they reach the tail!

4. Power installation: Connect a 380V power supply.

The power connection must be carried out by qualified professionals and the

machine must be reliably grounded!

5. Requirements for discharge site: a flat cement floor; If it is an ordinary mud ground, it can be laid with relatively flat things such as star tiles, iron plates, wooden boards, etc.

6. Add hydraulic oil: 46 # high-quality anti-wear hydraulic oil (12kg in winter

and 18kg in summer).

7. Test run: 1/After powering on, turn on the power switch, and the computer

numerical control box will self check and return to zero.

2. Press [Run], the motor should rotate according to the arrow direction; In case of reverse rotation, two of the three-phase wires can be exchanged, and the machine shall operate stably without abnormal noise.

It is strictly prohibited to reverse the motor for a long time (exceeding 10 seconds), as prolonged reverse rotation may cause irreparable damage to the oil pump!

6. Use (operator must read before use)

For your and others' safety:

1/The machine must be kept and used by a dedicated person! 2. Before starting the machine, it is necessary to familiarize yourself with the

operation!

Before opening the machine for adjustment or maintenance, the power must be turned off and live operation is strictly prohibited!

During production, no one is allowed within 3 meters from the material distribution mechanism to the feeding port on both sides to prevent the steel bars from popping out and injuring people!

During the operation of the machine, a dedicated person is required to take care of it. If there are any abnormalities, the machine must be immediately shut down and powered off!

Machine maintenance:

1/CNC instruments are dustproof, moisture-proof, rainproof,

high-temperature resistant, and sun resistant.

2. Protect the wires and prohibit water immersion and rolling. 3. Add lubricating oil to the trolley guide rail once a day.

4/It must be turned off when not in use for a long time or during lightning strikes!

5. Regularly check the hydraulic oil level, and immerse the filter at least 3-4cm. Pay attention to keeping the hydraulic oil clean and replace it every 6-12 months! Specific operation:

1. Length and quantity settings:

After turning on the machine and returning to zero, press [Set], the batch will display "1", and the length number window will flash

2/Enter the length and press [Confirm]; Example: Enter 3.85m, press [3], [8], [5], [Confirm] (note: when the value does not need to be changed. press [Confirm]; if the input is incorrect, press [Return] to return one digit; press [Cancel] to return:

3/Enter the quantity and press [Confirm]; Example: Enter 288 entries, [2]

[8] [8] [Confirm].

4. Enter the length and quantity of all batches according to the steps (up to 20 batches):

After the last batch quantity is confirmed, press' Set Complete', all windows will display zero, and the setting is complete.

2. Automatic production:

After setting, place the steel bars that need to be straightened, press [Run], and the machine can automatically produce according to the set length and quantity. After each batch is completed, it will automatically stop and sound and light alarms for 3 seconds. After stopping, press [Run] to continue producing the next batch of steel bars.

3. Reinforcement winding treatment:

When the steel bar is wrapped, press [Stop]; After cutting off the winding part, follow the steps of "thread end treatment" to straighten and remove the steel bars from the machine.

4. End of line processing:

It takes two people to operate! No one is allowed within 3 meters of the end of the casting and line to prevent steel bars from injuring people!

1/The steel bar reaches the tail, and after stopping the machine, press [No

Cutting], and the display will be "=======";

2. Use wire cutters to clamp the steel bars tightly at the outlet, press [Jog Forward], and straighten the steel bars without cutting them;

3. After stopping the machine, press [No cutting], the display and cutting function will return to normal, and the iron can be released to continue production.

5. Pointing function:

During operation, if it is necessary to manually cut the steel bars, press the [Cutting Time] cutting action to automatically cut the steel bars.

6. Correction: When there is an error in length, it can be corrected:

For example, during the production process, if the measured length of the steel bar is 3 centimeters, the correction is completed according to the length

During the production process, the measured length of the steel bar was 3 centimeters shorter: according to [length+] [3] [confirmation], the correction was completed.

7. Straightening of steel bars:

1. The straightening principle of steel bars: When the steel bars pass through the high-speed rotating straightening frame, four pairs of straightening wheels repeatedly adjust the steel bars to achieve straightening; While straightening, produce the power to move the steel bars forward.

2. The basic principle of straightening: the steel bars pass through the middle, and the first (12) and second (78) pairs of straightening wheels are tightened to import and export the steel bars; The middle two pairs of (34,56) straightening wheels are adjusted tighter to soften and straighten the steel bars.

1. When opening the machine cover for adjustment, be sure to stop the motor first, and then turn off the machine power to avoid danger!

2. Be sure to tighten the adjusting nut after adjustment.

3. The relative relationship between steel bars and straightening wheels is shown in the following figure:

7. Common problems and troubleshooting



number	question	reason	Troubleshooting
group	State Thanks	The straightening wheel pressure iron is not tight enough	Re adjustment, fore and aft adjustment, tighter in the middle
WCG		2. The steel bar is not on the centerline of the straightening frame	Relax and readjust
[ADRI	Uneven	3. New machine straightening wheel not worn in	Try again after a few days of grinding in
nume	casting	4. The steel bars are too hard and of poor quality	Replace with high-quality steel bars and try again
gnip		5. Some straightening wheels do not rotate	Straightening wheel shaft damaged, replace bearing
		6. Straightening wheel severely worn	Replace with a new wheel (300-500 tons need to be replaced

number	question		reason	Troubleshooting		
eris meni Terlucini Terreno	Checkil in connection Science in Connection Delivery in the Connection miles	1. Straightening	wheel pressure iron too tight	Relax the straightening wheel		
		2. Some straigh	tening wheels do not rotate	The straightening wheel bearing is damaged, replace the bearing		
		3. The discharg	e port of the straightening frame is blocked powder	It is easy to appear in rainy days, please clean it up and try again		
			1/The travel switch wheel is not in contact with the lever, and the trolley travel is too large	Try again		
2	Iron twisting	4. Cutting head, hitting the head	2. The travel switch is broken	1/Replace the travel switch		
		diketina	3/The tool head trolley moves outward unevenly	2: When replacing the non travel switch, reduce the cutting time to check if there are any foreign objects on the guide rail and if th car bearings are damaged.		
		5. No material d	istribution mechanism installed	Place the iron in the material distribution mechanism and try again		
	Uneven casting speed without casting iron. Time	1. The straighte	ning wheel pressure iron is not tight enough	Tighten the straightening wheel		
3		2. Some straight	tening wheels do not rotate	The straightening wheel bearing is damaged, replace the bearing		
	fast and time slow	3. The discharg by mud and iron	e port of the straightening frame is blocked	It is easy to appear in rainy days, please clean it up and try again		
Sales on	Scratches on the steel bars during casting	1. The straighter	ning wheel of the new machine is not worn in	After running in for a few days, the fault will disappear automatical		
		2. The feed slee	ve scratches the steel bars	After running in for a few days, the fault will disappear automatical		
4		3. Some straight	ening wheels are too tight on the pressure iron	Relax the straightening wheel		
		4. Some straight	ening wheels do not rotate	The straightening wheel bearing is damaged, replace the bearing		
_	The length is not accurate, but the casting is neat	1. The length is t	oo long	Correct according to [length -]		
5		2. The length is t	oo short	Press [length+] to make corrections		
l and	The length is not accurate, and there is a significant difference in the length of the cast iron	1. The connectin	g hose of the meter encoder is loose	Replace the connecting hose		
6		2. The spring on	the electronic ruler is too loose	Replace or shorten some and try again		
		3. Improper feed	ing	Place the iron in the material distribution mechanism and try a		
		4. The upper or lowe	r wheels of the length measurement do not rotate smoothly	Replacing bearings		
		5. The upper and land there is contain	ower wheels are worn during length measurement, ct between the upper and lower wheels	Replace the length measuring upper and lower wheels		
		6. Reinforcement does	not pass through the middle of the length measuring wheel	Readjust the position of the electronic ruler		
		7. The meter enc	oder or computer board is damaged	Contact the dealer or manufacturer for replacement		

	The steel bars are straight without cutting (length and quantity), and the operation is as follows: do not release the iron. Press the [Run] button when the machine is empty, and press the [Cutter] button after the machine is running.	1. The solenoid valve light (located at the rear) does not	Loose wiring		Check if all connectors from the solenoid valve to the computer board are loose and reconnect them	
		flash	The computer board is broken		Contact the dealer or manufacturer for replacement	
7		edine,	New machine without hydraulic oil added		Add enough hydraulic oil and try again	
7		2. The solenoid	The solenoid valve coil is burnt out		Contact the dealer or manufacturer for replacemen	
		valve light (located at the rear) is flashing		iternal valve core of ilenoid valve is blocked	After disassembling and cleaning the foreign object, reassemble it, taking care to reassemble it as before.	
		i c pro-simultana	The solenoid valve is broken		Contact the dealer or manufacturer freplacement	
		The connecting hose of the meter encoder is broken			Replace the connecting hose	
8	Go straight without cutting off (length numbers do not go)	2. Length data loss			Factory Reset	
		3. Loose or damaged wiring of the meter encoder			Reconnect or replace with a new component	
		4. The computer boa	ard is dan	naged	Contact the dealer or manufacturer for replacemen	
9	Cutting weakness	The oil pump sucks in air and after running for a few minutes, the hydraulic oil turns white		Insufficient hydraulic oil	The hydraulic oil must pass through the filter	
				Loose oil inlet pipe joint	Add enough and try again. Tighten it and try a	
		The pressure adjustment of the pressure valve is too small or damaged			Adjust the pressure appropriately or replace it: Attention! If the pressure adjustment is ineffective, it must be adjusted back to its original position!	
		3. Internal leakage of oil pump			Replace the "3" shaped oil seal insid the oil pump	
		4. The oil seal of the cutting head cylinder is damaged			Replace the oil seal of the same mode and try again	
		5. After running for a period of time in summer, the oil overheats			Insufficient hydraulic oil, add hydraul oil	
		6. In winter, the weather becomes cold and the oil solidifies, making it difficult to cut it off when it is first started.			Operate the engine empty for a perior of time, increase the oil temperature, and then switch again	
					The hydraulic oil is unqualified, replacit with 46 # anti wear hydraulic oil	
		7. Blade wear		1000	Replacing the blade	

ret	The operation without returning the knife is	1. The solenoi d valve light (forward)	Lo	ose control circuit	Check all connectors from the solenoid valve to the computer board for looseness and reconnect them		
	as follows: without releasing the iron,	does not flash	The computer board is broken		Contact the dealer or manufacturer for replacemen		
10	press the [Run] button when the machine is	is dimin	The so	lenoid valve coil is burnt out	Contact the dealer or manufacturer for replacemen		
	empty, and then press the [Cutter] button when the machine is	1. The solenoi d valve light (front) is	of th	internal valve core ne solenoid valve is cked	After disassembling and cleaning the foreign object, reassemble it, taking care to reassemble it as before.		
	running.	flashing	The solenoid valve is broken		Contact the dealer or manufacturer for replacement		
	a seems prof o	DE OL THE	The b	lade oil seal is damaged	Replace the oil seal of the same model		
11 Incision bending	1. Blade wear			Replacing the blade			
	Incision bending	Excessive tool pitch during cutting			Replace qualified blades		
		There is wiring detachment inside the computer box			Replace wiring		
12	The motor runs and does not rotate	2. The AC contactor inside the computer box is damaged			Replace with a new contactor of the same model		
	when reversing	3. The computer box	ard is da	maged	Contact the dealer or manufacturer for replacement		
10	The motor does not rotate and there is	380V lacks one phase of power			Check if the power supply line and wiring terminals are loo		
13	a buzzing sound during operation	The AC contactor in	side the	computer box is broken	Replace with a new contactor of the same model		
a ."E gnji	ayalgala woor	Press [Run] or [Back] without AC contactor		The plug on the computer motherboard is loose	Reinsert		
4.4	The motor does not	sound		2. The computer motherboard is broken	Contact the dealer or manufacturer for replacement		
14	rotate and runs completely silently	There is a sound of AC contactor closing when		The AC contactor inside the computer box is damaged	Replace with a new contactor of the sam model		
	NO DE TENE LESON	pressing [Run] or	[васк]	2. The motor is burnt out	Replace the motor		
	ng prior, mas n diagalar 8° in	The AC light is not on		Burn insurance	replace		
				Poor wiring	Reconnect		
	Par I multipos I	STON W		transformer	Replace the transformer of the same model		
15	No display	The AC light is and the 5V lig also on		The computer motherboard is broken	Contact the dealer or manufacture for replacement		
	The second of th	The AC light is and the 5V lig not on		After disconnecting the encoder cable, it can be turned on	Replace encoder		

8. Internal parameter settings

1. Adjustment of cutting time: After turning on the machine and returning to zero, press [1], [3], [5]

The batch window displays "11", the length window displays "t1", and the quantity window displays "0.160" flashing (default value), indicating that the cutting time is 0.180 seconds. Press the number key to make changes.

and press [Confirm] to proceed to the next step.

The batch window displays "22", the length window displays "t2", and the quantity window displays 0.180 flashing (default value), indicating that the tool return time is 0.180 seconds. Press the number key to change it.

and press the [Confirm] key to end.

2. Internal settings (non professionals should not set them randomly): When the power on self-test does not return to zero, long press and hold

the [Set] button, and after a few seconds

The batch window displays "11", the length window displays "1", and the quantity window displays "0.180" flashing (default value), indicating that the cutting time is 0.180 seconds. Press the number key to make changes,

and press [Confirm] to proceed to the next step.

The batch window displays "22", the length window displays "t2", and the quantity window displays "0.180" flashing (default value), indicating that the tool return time is 0.180 seconds. Press the number key to change it, and press the [Confirm] key to proceed to the next step. The batch window displays "44", the length window displays "L", and the quantity window displays "0.19" flashing (default value), indicating a head length of 0.19m. This value is related to the first length, and can be changed by pressing the number keys. Press [Confirm] to proceed to the next step.

The batch window displays "55", the length window displays "S", and the quantity window displays "0.078" flashing (default value), indicating an amplification factor of 0.078 seconds. This value is related to accuracy and can be changed by pressing the number key. Press the [Confirm] key to

proceed to the next step.

The batch window displays "66", the length window displays "t4", and the quantity window displays "0.300" flashing (default value), indicating a motor delay stop time of 0.3 seconds. Press the number key to change it. and press [Confirm] to end.

3. Restore factory settings:

When the power on self-test does not return to zero, long press and hold [5]. After a few seconds, the batch window displays "8", the length window displays "0", and the quantity window displays "8". Enter [8], [8], [8], and [8] in the length window, press [confirm], and after a few seconds, self check will return to zero, and all parameters will return to factory settings.

9, Installation List

main engine	remote control	hose	spring	wrench	instructions	Certificate of conformity	Warranty Card
1		10cm	2	1	1	1	1

10. Dealer Contact Information

Product Quality Assurance Form

elephone		zip code	
Equipment model			
Equipment number		Warranty period	
Purchase date			
Invoice number			
Sales unit name			
Signature (seal) of sales unit		User signature (seal)	