

CNC Automatic Steel Bar Bending Center

WS42



Introduction

The intelligent steel bar slope bending center is mainly used in national infrastructure construction fields such as railways, highways, bridges, tunnels, and underground pipe corridors, and is especially suitable for the bending of bar steel bars in box beams and cap beams. The equipment is mainly composed of conveying roller table, lifting mechanism, left bending head, right bending head, clammer, unloading mechanism, receiving trolley, electric control system, pneumatic system, etc. It adopts PLC control and is equipped with powerful Graphic database, intelligently realize the bending processing of steel bars.

Features



The steel bar support adopts the crank connecting rod mechanism, and the steel bar support. At the same time, the steel bar is sent to the top of the bending machine head, which is convenient for the operator to discharge and reduce the labor

intensity of the workers. In addition, it is driven by a motor reducer. All the supporting rods have the same action and the transmission is stable and reliable.

2. The moving mechanism of the bending head adopts the flexible meshing of the rack and pinion, which solves the problem of incomplete meshing between the rack and the gear due to manufacturing errors. The rack is thickened, rigid enough, and the walking positioning is more accurate and stable.

3. The bending spindle adopts a spline design. The spindle itself is made of high-quality alloy steel through a special process, which has the characteristics of high strength, wear resistance and long service life

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Both the left and right bending heads and the holder are equipped with automatic steel unloading hooks to process longer steel

When reinforcing steel bars, the automatic unloading of steel bars can still be realized



5. The bending plate is equipped with a steel iron filings collection shield to prevent a large amount of iron filings from falling into the reducer and causing wear to the reducer

6. The bending head adopts inclined installation to facilitate the loading and unloading of steel bars

7. The steel bar holder adopts a double-acting air cylinder to ensure that the left and right sides are clamped at the same time when the steel bar is clamped. There is no need to adjust the holder when changing the steel bar specifications.

8、 The walking and bending of the left and right bending heads adopt servo motors, which are sensitive in control and high in bending accuracy.

9、 The operating system has a flexible safety protection function to prevent the bending operation being performed when the photoelectric failure of the bending detection occurs, causing damage to the mechanical mechanism

10、 The operating system is equipped with a powerful database, which can store more than 300 kinds of graphics. For large arcs and length-increasing change bars, they can be set by one button, without manual input of parameters each time. The main operation screen is as shown below



序号	左长度	补偿	递增	左角度	补偿	速度	圆弧	右长度	补偿	递增	右角度	补偿	速度	圆弧
1	200	0	0	90.0	0.0	100		200	0	0	90.0	0.0	100	
2	200	0	0	45.0	0.0	100		200	0	0	45.0	0.0	100	
3	200	0	0	-45.0	0.0	100		200	0	0	-45.0	0.0	100	
4	0	0	0	0.0	0.0	100		0	0	0	0.0	0.0	100	
5	0	0	0	0.0	0.0	100		0	0	0	0.0	0.0	100	
6	0	0	0	0.0	0.0	100		0	0	0	0.0	0.0	100	
7	0	0	0	0.0	0.0	100		0	0	0	0.0	0.0	100	
8	0	0	0	0.0	0.0	100		0	0	0	0.0	0.0	100	
9	0	0	0	0.0	0.0	100		0	0	0	0.0	0.0	100	
10	0	0	0	0.0	0.0	100		0	0	0	0.0	0.0	100	

图号: 0 直径: 20 总长: 0 递增次数: 2 数量/次: 100 产量复位

左底边长: 500 补偿: 0 递增: 0 右底边长: 500 补偿: 0 递增: 0

连续 单步 数据写入 数据清零 参数设置 机头手动 退出 下页

Technical data

MODEL										
Bending Dia.				Φ 12-40mm						
Bending Speed				45-60° /s						
Bending Head Moving Speed				0.5-0.9m/s						
Bending Angle				0-180° Forward Bending						
				0-120° Reverse bending						
Power				27Kw						
The largest conveying roller table lifts the load				1000Kg						
Min. distance of two bending heads				950mm						
Max. distance of two bending heads				11000mm						
Dimension				12.8mx3mx1.1m						
Weight				6.5T						
Bending Capacity										
Bending Φ Dia.	12	14	16	18	20	22	25	28	32	40
Bending Qty	6	5	5	4	3	3	2	1	1	1