



无锡安博尔机械有限公司

WUXI ANBER MACHINE CO., LTD.

Adjustable Steel Scaffolding Prop Production Line

脚手架钢支撑生产线

PART1

CNC machine &
Auto steel bar stirrup bender
CNC数控车床+自动钢筋弯箍机



PART2

Punching machine
压力机



PART3

Drilling machine
钻孔设备



PART4

Accessories & spare parts
辅助设备及配件



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PART 1

CNC Machine CNC 数控车床

■ Description

This CNC machine is fully automatic pipe cutting machine, can fill a variety of short sleeve type pipe cutting. The machine adopts microcomputer control X, Z servo motor direct drive high-precision ball screw drive small and large carriage to carriage movement in X and Z, respectively complete the pass.

This cutting machine can save technology and equipment, shorten production preparation cycle to ensure parts processing quality, increase production efficiency. A high degree of mechanical and electrical integration, high production efficiency, cutting dimensionally stable, easy to replace and is suitable for long model material cutting, tube feeding is the ideal equipment for cutting production.

■ Main Feature

- (1) Digital AC servo drive, good control performance, simple maintenance. CNC system is reliable, easy to operate, powerful, fast response, rich interface with self-diagnostic function.
- (2) The CNC machine uses liner guideway with characteristics of fast positioning speed, precision positioning, good rigidity, small rolling friction, long operating lift and high precision etc.
- (3) Ball screw uses direct connection of flexible coupling and AC servo motor, screw uses imported bearing with pre-stretched before delivery to ensure the feed system without gaps, rigidity, accuracy and stability work.
- (4) Auto control of feeding and cutting process, trays of CNC machine will automatically turn as lack of material, expected after full induction, trays delay period is automatically stopped, the program can be modified by changing the delay time, fully automatic function.
- (5) Main movement: variable speed for spindle drive, the belt directly to the spindle. Spindle belt round grating encoder can be achieved through synchronous rotation with the spindle.
- (6) Feed movement: X and Z direction are driven by full digital AC servo motor. X to the feed movement directly driven ball screw driven by a small carriage by Vice couplings, enabling X to feed movement. Z to feed movement led directly driven ball screw deputy big carriage through the coupling to achieve Z to feed movement.

■ 设备描述

本机床为全自动割管机，能担任各种短轴套类管料的切割。机床采用微机控制X、Z向运动分别使用伺服电机直接驱动高精度的滚珠丝杆传动小拖板和大拖板完成X向和Z向走刀。

使用该机床可以节省工艺装备，缩短生产准备周期，保证零件加工质量，提高生产效率。机电一体化程度高，生产效率高，切割尺寸稳定，型号更换方便且适合长料切割，是管料切割生产的理想设备。

■ 主要特点

- (1) 全数字交流伺服驱动，控制性能好、维修简单。CNC系统稳定可靠，易于操作，功能强，响应快，界面丰富，具有自我诊断功能。
- (2) 机床采用直线导轨，具有定位速度高、定位准确、刚性好、滚动摩擦小、寿命长、精度高等特点。
- (3) 滚珠丝杠采用弹性联轴器与交流伺服电机直接联结，丝杠采用进口轴承支承，并在出厂前进行预拉伸，保证进给系统无间隙、刚度大、工作精度稳定。
- (4) 机床上料、下料自动控制，车床缺料时料盘自动运转，料满感应后，料盘延时一段时间自动停止，通过更改程序可以修改延时时间，实现全自动功能。
- (5) 主运动：主轴采用变频器无级调速，经同步带直接传给主轴。主轴光栅编码器通过同步带轮可实现与主轴同步旋转。
- (6) 进给运动：机床的X向和Z向进给由全数字交流伺服电机驱动。X向进给运动通过联轴器直接驱动滚珠丝杆副带动小拖板，从而实现X向进给运动。Z向进给运动通过联轴器直接驱动滚珠丝杆副带动大拖板，从而实现Z向进给运动。





ABE-SK-G72 Seires CNC Cutting Machine 数控切管机

Technical parameters

- Model: ABE-SK-G72 series
- Max. Stroke:
- X: 140mm; Z: 140mm;
- Rapid moving speed:
- X: 12000mm/min; Z: 12000mm/min;
- Motor power of main shaft: 4KW-4 three-phase asynchronous motor
- Rotate speed of main shaft: 1200 r/min
- Structure of X rail: imported linear rail
- Structure of Z rail: imported linear rail
- Connection type of X and Z motor: direct connection
- Drive type:
- X : 2.4N/m; Z : 2.4N/m
- Specification of ball screw for X and Z: 25-5T3
- Front bearing of main shaft: NN3028K W33
- Rear bearing of main shaft: 7026-AC-DB
- Diameter range of tube: $\varnothing 30$ - $\varnothing 72$ mm
- Max. Cutting thickness: 10mm
- Cutting length: 3-100mm
- Machine weight: 1.1T
- Overall size: 1650*900*1450mm

技术参数

- 型号 : ABE-SK-G72系列
- 最大行程: X: 140mm; Z: 140mm;
- 快速移动速度 :
- X: 12000mm/min; Z: 12000mm/min;
- 主轴电机功率 : 4KW-4级三相异步电动机
- 主轴转速 (r/min) : 1200
- X轴导轨结构 : 进口直线导轨
- Z轴导轨结构 : 进口直线导轨
- X、Z电机连接方式 : 直联
- 驱动类型 :
- X : 2.4N/m; Z : 2.4N/m
- X、Z滚珠丝杠规格: R25-5T3
- 主轴前轴承 : NN3028K W33
- 主轴后轴承 : 7026-AC-DB
- 加工套圈直径 : $\varnothing 30$ - $\varnothing 72$ mm
- 最大割管壁厚 : 10mm
- 加工长度范围 : 3-100mm
- 机床净重 : 1.1吨
- 机床尺寸 : 1650*900*1450mm



ABE-SK-S80 Seires Automatic CNC Machine 自动精密数控机床

Technical parameters

- Model: ABE-SK-S80 series
- Max. Stroke:
- X: 120mm; Z: 120mm;
- Rapid moving speed:
- X: 12000mm/min; Z: 12000mm/min;
- Transmission ratio: 1:1
- Rotate speed of main shaft: 200-1800r/min
- Structure of X rail: 25 linear rail
- Structure of Z rail: 25 linear rail
- Connection type of X and Z motor: direct connection
- Drive type:
- X : 3.2N/m; Z : 3.2N/m
- Specification of ball screw for X and Z: 25-10T3
- Front bearing of main shaft: 32217
- Rear bearing of main shaft: 32216
- Hydraulic system: 0-3.5Mpa pressure
- Machine weight: 1.5T
- Overall size: 1300*1000*1600mm

技术参数

- 型号 : ABE-SK-S80系列
- 最大行程: X: 120mm; Z: 120mm;
- 快速移动速度 :
- X: 12000mm/min; Z: 12000mm/min;
- 主轴电机功率 : 4KW-4P主轴电机
- 主轴与编码器传动比 : 1:1
- 主轴转速 (r/min) : 200-1800内变速
- X轴导轨结构 : 25直线导轨
- Z轴导轨结构 : 25直线导轨
- X、Z电机连接方式 : 直联
- 驱动类型 : X : 3.2N/m; Z : 3.2N/m
- X、Z滚珠丝杠规格: 25-10T3
- 主轴前轴承 : 32217
- 主轴后轴承 : 32216
- 液压系统 : 压力0-3.5Mpa
- 机床净重 : 1.5吨
- 机床尺寸 : 1300*1000*1600mm

PART 1

ABE-SGW12D-1

Automatic CNC steel bar stirrup bender

自动钢筋弯箍机



Description

Automatic wire feeding system to ensure highly dimensional accuracy;
Movable air compressor design, to ensure better cooling effect, easy transportation and installation;
Split, multifunctional blade design (patented) to reduce consumption costs;
Automatic double wire intake system with more bending shapes to bring high processing efficiency;
High power servomotor to ensure bending bar accuracy;
The intelligent fault identification alarm system with more convenient maintenance;
Aerodynamic design observation door with easy, safe and fast adjustment and maintenance;

Heavy-duty design line planes, equipped with a brake and buffer device, preventing chaotic lines caused by downtime;
High degree automation with large storage capacity of 400 prestored processing geometric graphics for instant use;
Straightening wheels, hauling wheels and metering wheels made with special steel materials to ensure longer service life and lower operating costs;
Touch-screen console to ensure easy and fast operation;
All electrical parts are from Schneider, SIMENS, ABB or OMRON brand to ensure the service life;
Automatic splicing device with one operator for one machine (optional).

设备描述

一体化自动送料机构，确保尺寸精度高。
空压机移动设计，确保散热效果好，运输安装方便。
分体、多用式刀片设计，降低消耗成本。
双线双向弯曲，弯曲形状更多，效率更高。
送料伺服电机功率增大，确保弯曲螺纹钢时的精度。
智能化故障识别报警系统，维修更加方便。
观察门气动设计，调节维修方便、安全、快捷。
重型放线架设计，配备刹车和缓冲装置，可以防止停机而造成放线架乱线。
可预先输入400种加工图形，加工时调取即用，自动化程度高。
调直轮、牵引轮、计米轮特殊钢材制造，使用寿命更长，运行费用更低。
触摸屏式操作台，操作方便、快捷。

Technical parameters

Item	Data
Single wire processing capacity	Φ5-12mm
Deformed steel bar double wire processing capacity	Φ5-10mm
Max bending angle	180°
Max bending speed	80-1050°/sec
Max pulling speed	75-110 m/min
Max length of the stirrup side	1000 mm
Min length of the stirrup side	110 mm
Length tolerance	±1 mm
Bending tolerance	±1°
Average air-compressed consumption	6 l/min
Average electric power consumption	6 - 8 Kw/hour
Labeled electric power	32Kw
Bending direction	bi-direction
working condition	-5°~40°

技术参数

项目	参数
单线弯曲直径范围	Φ5-13mm
双线弯曲直径范围	Φ5-10mm
最大弯曲角度	180°
最大弯曲速度	80-1050°/sec
最大牵引速度	75- 110 m/min
最长箍筋边	1000 mm
最短箍筋边	110 mm
长度误差	±1 mm
折弯误差	±1°
平均压缩空气消耗	6 l/min
平均电耗	6 - 8 Kw/hour
设备总功率	32 Kw
弯曲方向	双向
工作环境	-5°~40°

Structure

Pay-Off; Pre-adjusted assembly; Hauling assembly; Straightening assembly; Observation automatic door; Shear assembly; Bending assembly; Console; Bending arm telescopic cylinder; Bending servomotor; Shear motor; Hauling servomotor; Air compressor; Electric control cabinet

设备结构

放线架，预调组件，牵引组件，调直组件，观察自动门，导向组件，折弯组件，控制台，弯曲臂伸缩气缸，折弯伺服电机，剪切电机，牵引伺服电机，空压机，电气控制箱

PART 2 Punching Machine

ABE-JH21-250B 压力机

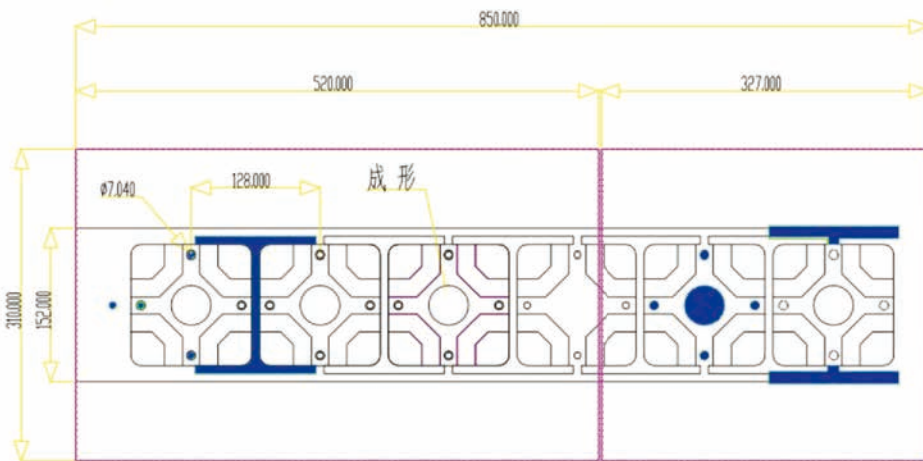


Technical parameters

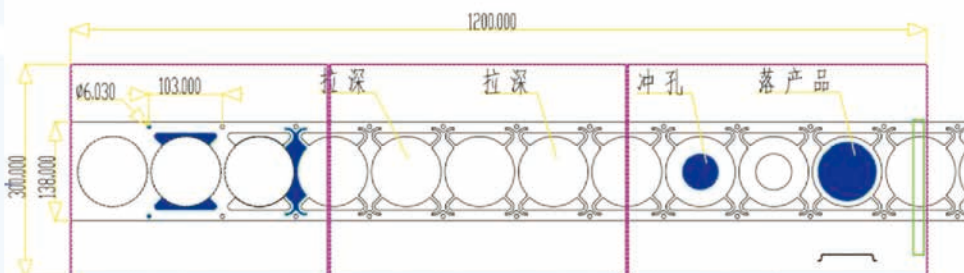
- Model: ABE-JH21-250B
- Normal pressure: 2500KN
- Stroke of normal force: 8mm
- Stroke of slider: 250mm
- Number of block (normal): 30 min
- Number of block (adjustable)(optional): 25-35 min
- Max. die height: 500mm
- Die height adjustment: 120mm
- Depth of throat: 420mm
- Bolster dimension (W*L): 800*1400mm
- Dimensions of recess in slide block (L*W): 370*570mm
- Height of bolster: 170mm
- Dimensions of recess in slide block: 650*850mm
- Dimensions of recess in slide block: $\phi 70 \times 90$ mm
- Distance between uprights of frame: 960mm
- Model of motor: 1LG0207-6AB
- Motor power: 22KW
- Air pressure: 0.55Mpa
- Net weight: 24500kg

技术参数

- 型号: ABE-JH21-250B
- 公称力: 2500KN
- 公称力行程: 8mm
- 滑块行程: 250mm
- 行程次数 (定速): 30min
- 行程次数 (调速) (选配): 25-35 min
- 最大装模高度: 500mm
- 装模高度调节量: 120mm
- 滑块中心至机身距离: 420mm
- 工作台板尺寸 (前后×左右): 800*1400mm
- 机身工作台孔尺寸 (前后×左右): 370*570mm
- 工作台板厚度: 170mm
- 滑块底面尺寸 (前后×左右): 650*850mm
- 模柄孔尺寸 (直径×深度): $\phi 70 \times 90$ mm
- 立柱间的距离: 960mm
- 主电机型号: 1LG0207-6AB
- 主电机功率: 22KW
- 使用空气压力: 0.55Mpa
- 净重: 24500kg



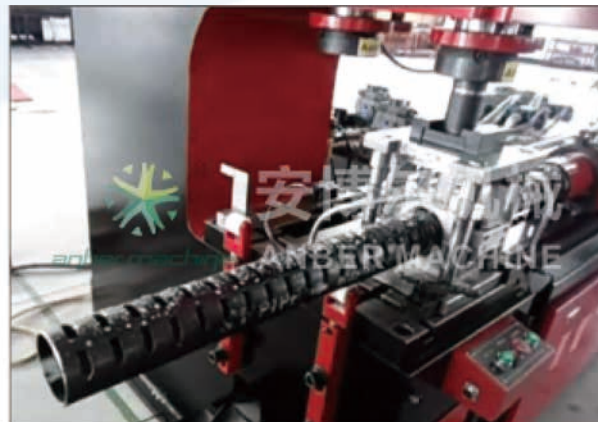
产品版型图A Product version to figure A



产品版型图B Product version to figure B



PART 3 Drilling machine 打孔设备



Description

This hole punching line can punch circle, square, rectangular and oval on rectangular pipes and various shapes of holes.

设备描述

该线性冲孔机可以在管材上冲圆孔、方孔、矩形孔、椭圆形孔及其他异形孔。

ABE-ZB6423x38 Multi spindle drilling machine / 多轴钻床

Item	Parameter 参数
Quality	38 PCS
Hole Size	Φ10-Φ15mm
Max. Stroke	240mm
Rotation speed of main shaft	400 r/min
Main motor power	7.5 Kw

Item	Parameter 参数
最大轴数	38 根
钻孔尺寸	Φ10-Φ15mm
最大行程	240mm
主轴转速	400 r/min
主机功率	7.5 Kw

3.5m Double line hole punching line / 双线线性冲孔机

Item	Parameter 参数
Aperture and thickness	Φ50×τ3~Φ16×τ11
Diameter of the puncturing pipe	Round pipe Φ16~Φ150 mm
	Quartet tube 20×20~75×75mm
	Rectangular tube 15×30~60×120mm
Standard processing length	3.5m Depending on customer's specific request
Over size	5.2m × 1.5m × 2.5M
Weight	5.0T

Item	Parameter 参数
孔径和厚度	Φ50×τ3~Φ16×τ11
管子尺寸	圆管 Φ16~Φ150 mm
	方管 20×20~75×75mm
	矩形管 15×30 ~ 60×120mm
管子长度	3.5m 可根据客户要求定制
外形尺寸	5.2m × 1.5m × 2.5M
重量	5.0T

PART 4 Accessories & spare parts

辅助设备及配件

ABE-G18-7.5FM Screw Air compressor

阿特拉斯螺杆空压机



Item 项目	Parameter 参数
Quality 数量	1 Set / 1 台
Producer 生产厂家	Atlas-Copco
Max. working pressure 最大工作压力	0.75Mpa
Flow 排气量	3.15M ³ /min
Motor power 电机功率	18.5Kw
Over size 外形尺寸	1.255mx0.692mx1.475m
Weight 重量	450KG

ABE-PD65

High efficiency filter / 高效过滤器

Item 项目	Parameter 参数
Quality 数量	1 Set / 1 台
Air flow 排气量	3.9 M ³ /min
Dust Control Precision 除尘精度	0.01μm
Oil precision 排气量	0.01ppm

ABE-FXe7

Air dryer / 风冷式干燥机

Item 项目	Parameter 参数
Quality 数量	1 Set / 1 台
Flow 排气量	3.6 M ³ /min

ABE-DD65

General protective filter / 一般过滤器

Item 项目	Parameter 参数
Quality 数量	1 Set / 1 台
Air flow 排气量	3.9 M ³ /min
Dust Control Precision 除尘精度	1μm
Oil precision 排气量	0.1ppm

ABE-C1-10

Air tank / 储气罐

Item 项目	Parameter 参数
Capacity 容积	1.0 M ³ /min
Working pressure 工作压力	1.0 Mpa



ABE-GF25

Steel bar bending machine

机械弯箍机

Item 项目	Parameter 参数
Diameter of steel bar 钢筋直径	11 mm
Length of steel bar 钢筋长度	350 mm
Spare parts 配件	20 pieces of stroke switch 20个行程开关

Adjustable Steel Scaffolding Prop 脚手架支柱



Technical parameters

Raw material: Q235/Q275/Q345
Height: 0.5-0.8m, 0.7-1.2m, 1.0-1.8m, 1.2-1.7m, 1.5-2.5m, 1.6-2.9m, 1.7-3.0m, 1.8-3.2m, 1.9-3.5m, 2.0-3.5m, 2.0-3.6m, 2.1-3.9m, 2.2-4.0m, 2.3-4.2m, 2.5-4.5m, 3.0-5.0m, 3.5-5.5m, 4.0-6.0m
Thickness: 1.6/1.8/1.9/2.0/2.2/2.5/2.75/3.0/3.25/3.5mm
Diameter: 48/40mm, 56/48mm, 60/48mm, 76/60mm
Top/base plate: Square plate .Flower shape plate.
120*120mm, 110*110mm, 140*140mm, 150*150mm
Size of prop sleeve: 60*3.25*200/220mm,
70*3.5*135mm, 60*3.5*135mm
Diameter of lock pin: 10mm, 12mm, 14mm, 16mm
Surface finish: Painting. Powder coated, Galvanized. Hot dipped galvanized

技术参数

原材料：Q235/Q275/Q345
高度：0.5-0.8m, 0.7-1.2m, 1.0-1.8m, 1.2-1.7m, 1.5-2.5m, 1.6-2.9m, 1.7-3.0m, 1.8-3.2m, 1.9-3.5m, 2.0-3.5m, 2.0-3.6m, 2.1-3.9m, 2.2-4.0m, 2.3-4.2m, 2.5-4.5m, 3.0-5.0m, 3.5-5.5m, 4.0-6.0m
厚度：1.6/1.8/1.9/2.0/2.2/2.5/2.75/3.0/3.25/3.5mm
直径（外管/内管）：48/40mm, 56/48mm, 60/48mm, 76/60mm
底座尺寸：
120*120mm, 110*110mm, 140*140mm, 150*150mm
套子尺寸：60*3.25*200/220mm,
70*3.5*135mm, 60*3.5*135mm
锁紧销尺寸：10mm, 12mm, 14mm, 16mm
表面处理：喷涂，浸塑，热镀锌



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