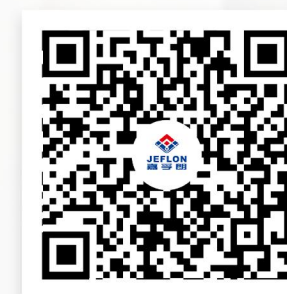


WBS钣金机架系列
WBS Sheet Metal Frame Series

台式触屏版四轴锁螺丝机
Benchtop Touchscreen 4-Axis Screw Fastening Machine



扫码查看公众号



扫码查看视频号

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WBS

钣金机架台式锁螺丝机
Sheet Metal Frame
Benchtop Screw
Fastening Machine

2Y

双工位
Two stations

641

产品序列号
Product Serial
Number

X/C

X: 气吸式 Vacuum
Suction Type
C: 气吹式 Air Blow
Type

产品选型 Product Type	送钉方式 Screw Feeding	锁付范围 Torque Range
WBS-2Y-641X	气吸式 Vacuum Suction Type	220*390mm*2 (双工位 Two stations)
WBS-2Y-641C	气吹式 Air Blow Type	220*390mm*2 (双工位 Two stations)

02 气吸式锁螺丝机/Vacuum Suction Screw Fastening Machine

- ◇ 四轴自动锁螺丝机，双平台锁付，可交替作业，无需等待取放料时间，效率大增；
- ◇ 4-axis automatic screw fastening machine with dual-platform operation for alternating work — no waiting for loading/unloading, greatly improving efficiency.
- ◇ 搭配7寸，分辨率：800*480人机界面触摸屏，可实时动态显示锁付状态：电批转速，电批扭力，锁附圈数；
- ◇ Equipped with a 7-inch HMI touchscreen (800×480 resolution), providing real-time dynamic display of fastening status: screwdriver speed, torque, and tightening turns.
- ◇ 搭载自主研发运动控制系统，后期维护方便，软件更新便捷，编程更简易；
- ◇ Equipped with a self-developed motion control system, ensuring easy maintenance, convenient software updates, and simpler programming.
- ◇ 搭载精密闭环步进电机，力矩大，振幅小，精度高，可位置补偿，不易丢步；
- ◇ Equipped with precision closed-loop stepper motors, featuring high torque, low vibration, high accuracy, position compensation capability, and resistance to step loss.
- ◇ 机器内部框架采用实心铝加工，钣金外壳，刚性强，稳定性高。供料器与Z轴结构高低位置可自由调节，支持高低不一的产品，兼容性强；
- ◇ The machine's internal frame is machined from solid aluminum with a sheet metal enclosure, providing high rigidity and stability. The feeder and Z-axis structure can be freely adjusted in height, supporting products of varying heights with strong compatibility.
- ◇ 智能伺服电批支持一个产品锁付2种不同扭力值，扭矩重复精度高（误差±5%），低噪音，寿命长，免维护，扭力可在触摸屏任意设置（0.3-30kgf.cm，根据应用扭矩需要，更换不同扭矩范围电批）。
- ◇ The intelligent servo screwdriver supports two different torque values for fastening a single product, with high torque repeatability (±5% tolerance), low noise, long service life, and maintenance-free operation. Torque can be set freely on the touchscreen (0.3–30 kgf.cm; different torque-range screwdrivers can be selected according to application requirements).
- ◇ 仅支持同一平面锁付
- ◇ Only supports fastening on the same plane.



气吸式供料器/Vacuum suction feeder

供料器名称：气吸式螺丝供料器
型 号：KL-S30
外形尺寸：W125*H138*D200mm
适用螺钉规格：M1.0-M5.0
出钉速度：2 S/颗
卡钉率：1‰
供料器容积：200 ml
依据当前使用螺丝计算容量：850颗（
示例：M3x6mm的螺丝约可放850
颗）。
依据当前设备节拍计算补料间隔时长：
1.7小时

Product Name: Vacuum suction feeder
Model No: KL-S30
Dimensions: W125*H138*D200mm
Applicable Screw Specifications: M1.0-M5.0
Screw Feeding Speed: 2 S/pcs
Screw Jam Rate: 1‰
Feeder Capacity: 200 ml
Capacity based on current screw type:
850 screws (e.g., approximately 850 pcs of
M3×6mm screws).
Material replenishment interval based on
current equipment cycle time: 1.7 hours.



吸式锁付
Vacuum suction tightening

03 气吹式锁螺丝机/Blow-Feeding Screw Fastening Machine

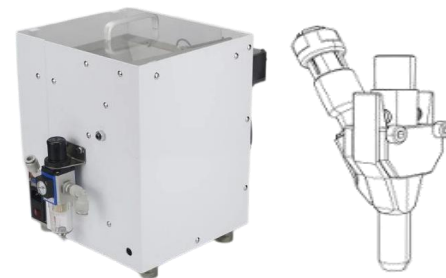
- ◇ 四轴自动锁螺丝机，双平台锁付，可交替作业，无需等待取放料时间，效率大增；
- ◇ 4-axis automatic screw fastening machine with dual-platform operation for alternating work — no waiting for loading/unloading, greatly improving efficiency.
- ◇ 搭配7寸，分辨率：800*480人机界面触摸屏，可实时动态显示锁付状态：电批转速，电批扭力，锁附圈数；
- ◇ Equipped with a 7-inch HMI touchscreen (800×480 resolution), providing real-time dynamic display of fastening status: screwdriver speed, torque, and tightening turns.
- ◇ 搭载自主研发运动控制系统，后期维护方便，软件更新便捷，编程更简易；
- ◇ Equipped with a self-developed motion control system, ensuring easy maintenance, convenient software updates, and simpler programming.
- ◇ 搭载精密闭环步进电机，力矩大，振幅小，精度高，可位置补偿，不易丢步；
- ◇ Equipped with precision closed-loop stepper motors, featuring high torque, low vibration, high accuracy, position compensation capability, and resistance to step loss.
- ◇ 机器内部框架采用实心铝加工，钣金外壳，刚性强，稳定性高。供料器与Z轴结构高低位置可自由调节，支持高低不一的产品，兼容性强；
- ◇ The machine's internal frame is machined from solid aluminum with a sheet metal enclosure, providing high rigidity and stability. The feeder and Z-axis structure can be freely adjusted in height, supporting products of varying heights with strong compatibility.
- ◇ 智能伺服电批支持一个产品锁付2种不同扭力值，扭矩重复精度高（误差±5%），低噪音，寿命长，免维护，扭力可在触摸屏任意设置（0.3-30kgf.cm，根据应用扭矩需要，更换不同扭矩范围电批）。
- ◇ The intelligent servo screwdriver supports two different torque values for fastening a single product, with high torque repeatability (±5% tolerance), low noise, long service life, and maintenance-free operation. Torque can be set freely on the touchscreen (0.3–30 kgf.cm; different torque-range screwdrivers can be selected according to application requirements).
- ◇ 仅支持同一平面锁付
- ◇ Only supports fastening on the same plane.



气吹式供料器/Blow-Feeding Screw Feeder

供料器名称：气吸式螺丝供料器
型 号：KL-S631
外形尺寸：W264*H346*348mm
适用螺钉规格：M1.7-M6 牙长≤42mm
出钉速度：2 S/颗
卡钉率：1‰
供料器容积：3L
依据当前使用螺丝计算容量：13641颗，
(示例：M3.0x8mm, 冒头直径5.3mm, 厚度3mm)
依据当前设备节拍计算补料间隔时长：
1.7小时

Product Name: Blow-Feeding Screw Feeder
Model No: KL-S631
Dimensions: W264*H346*348mm
Applicable Screw Specifications: M1.7-M6.0, Screw thread length ≤42 mm
Screw Feeding Speed: 2 S/pcs
Screw Jam Rate: 1‰
Feeder Capacity: 3L
Capacity based on current screw type: 13,641 screws (e.g., M3.0×8mm screw, head diameter 5.3mm, head thickness 3mm).
Material replenishment interval based on current equipment cycle time: 1.7 hours.

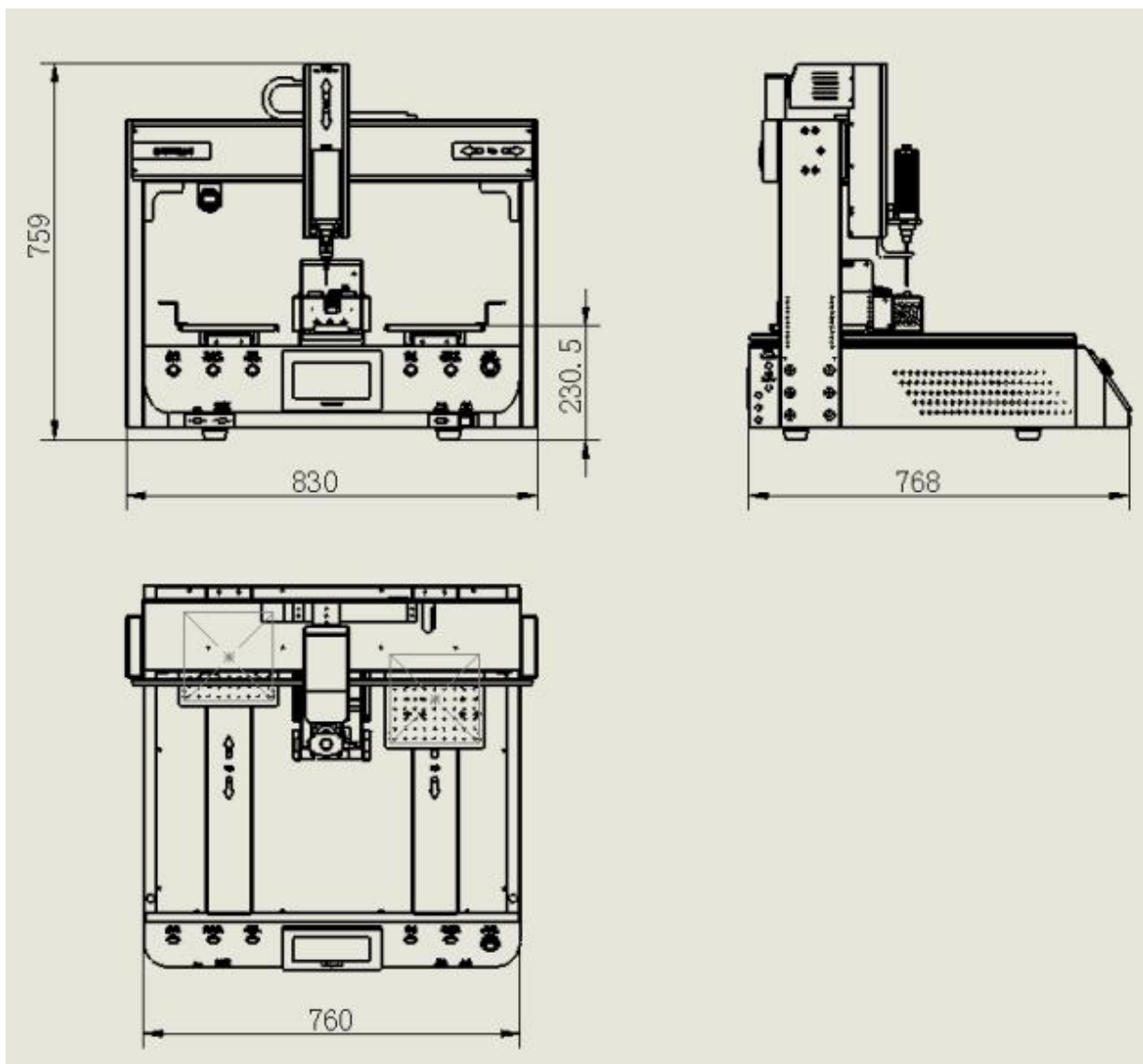


吹式锁付
Blow-type tightening

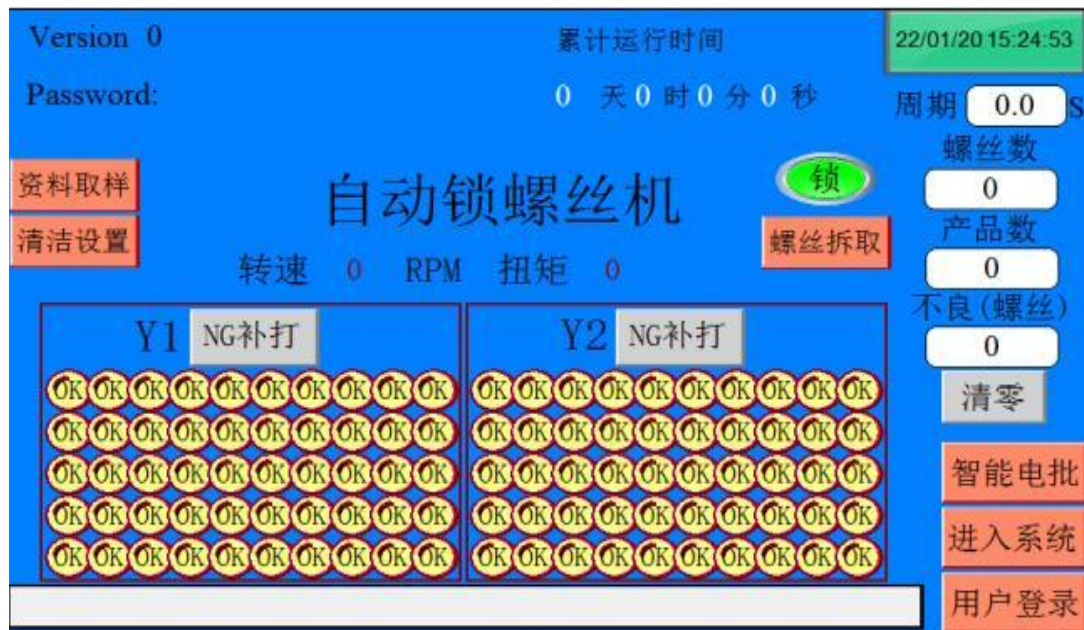
设备基本功能参数/Basic Equipment Function Parameters:

产品名称: Product Name	台式触屏版锁螺丝机 Benchtop Touchscreen 4-Axis Screw Fastening Machine	产品型号: Product Model	WBS-2Y-641X/C
机器尺寸: Machine Dimensions	W830*D768*H759mm	传动方式: Transmission Method	闭环精密步进电机 Closed-loop precision stepper motor
控制系统: Control System	运动控制卡+7寸触摸屏 (分辨率: 800*480) Motion control card + 7-inch touchscreen (resolution: 800×480)	编程方式: Programming Method	7寸触摸屏 (分辨率: 800*480) + 坐标编辑手柄 7-inch touchscreen (resolution: 800×480) + coordinate editing pendant
重复精度: Repeatability	±0.02mm	拧紧机构: Tightening Mechanism	伺服电动螺丝刀 Servo Electric Screwdriver
锁付效率: Fastening Efficiency	≤2S/pcs	设备重量: Equipment Weight	100kg
电 源: Power Supply	220VAC 50HZ	气 源: Air Supply	0.5~0.6Mpa
设备功率: Equipment Power	750W	通讯接口: Communication Interface	USB
Y轴负载: Y-axis Load	Y 轴≤ 15kg	有效行程: Effective Stroke	X600/2-Y400/Z100mm
电机控轴数: Number of Motor- Controlled Axes	四轴 (X,Y1,Y2,Z)	轴动速度: Axis Speed	0.1-2000mm/s (XYZ轴)

主要零部件/Main Components:



序号 NO	名称 Name	品牌 Brand
1	精密闭环步进电机 Precision Closed-Loop Stepper Motor	步驱 BUQU
2	触摸屏 Touchscreen	昆仑通泰 MCGS
3	锁螺丝控制系统 Screw Fastening Control System	JEFLON
4	导轨 Guide Rail	安迪 ANDI
5	电磁阀 Solenoid Valve	亚德客 AirTAC
6	智能伺服电批 Intelligent Servo Screwdriver	JEFLON
7	电源 Power Supply	禾川 HCFA
8	光电传感器 Photoelectric Sensor	华怡丰 HUA YI FENG
9	继电器 Relay	欧姆龙 OMRON
10	气动元件 Pneumatic Components	亚德客 AirTAC
11	螺丝供料器 Screw Feeder	JEFLON



1.高分辨彩屏、全中文操作界面，易学易用；

1.High-resolution color screen with a simple, easy-to-learn and easy-to-use interface.

2.专业的工艺指令，应对各种锁螺丝需求；

2.Professional process commands to meet various screw fastening requirements.

3.多种指令应对，阵列，复制，平移，批量；

3.Multiple command operations: array, copy, offset, and batch.

4.单步执行，全自动及循环运行；

4.Step execution, fully automatic and cycle running.

5.I/O输入输出，条件判断，逻辑；

5.I/O input/output, conditional judgment, and logic functions.

6.产量设定，锁付数据实时显示；

6.Production target setting and real-time fastening data display.

7.大容量储存100个加工文件，单文件最高100个点。

7.Large storage capacity for 100 program files, with up to 100 points per file.

人工/自动螺丝机优劣对比 Comparison of Manual vs. Automatic Screw Fastening		
类别 Category	人工 Manual	自动锁螺丝机 Automatic Screw Fastening Machine
效率对比: Efficiency Comparison	约 5 秒锁一颗螺丝 Approximately 5 seconds per screw	约 1.2 秒锁一颗螺丝, 最多每小时可锁3000颗螺丝 Approximately 1.2 seconds per screw, with a maximum capacity of 3,000 screws per hour.
用人情况: Labor Requirement	需要 (2-3) 名员工完成 Requires 2-3 operators	1人负责将产品放上机器治具, 锁完再取下产品, 设备左右交替工作, 人机无缝衔接 One operator loads the product onto the machine fixture and unloads it after fastening. The machine works alternately on left and right sides, enabling seamless human-machine coordination.
锁付效果: Fastening Result	人工有很多不确定因素, 不良率偏高 Manual operation involves many uncertainties, resulting in a relatively high defect rate.	智能伺服电批, 拥有扭力及圈数双重保障, 精准锁付 Intelligent servo screwdriver with dual assurance of torque and turn count for precise fastening.
不良处理: Defect Handling	易漏锁、滑牙、锁偏 Prone to missed fastening, screw thread stripping, and misalignment.	设备按坐标锁附, 不存在漏锁, 智能识别浮高、滑牙, 出现NG会报警 The machine fastens according to programmed coordinates, eliminating missed screws. It intelligently detects floating height and stripped threads, and triggers an alarm if NG occurs.

感谢支持

Thanks for the support



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