



Handheld Screwdriver Machine

Model name:BBA-100LS



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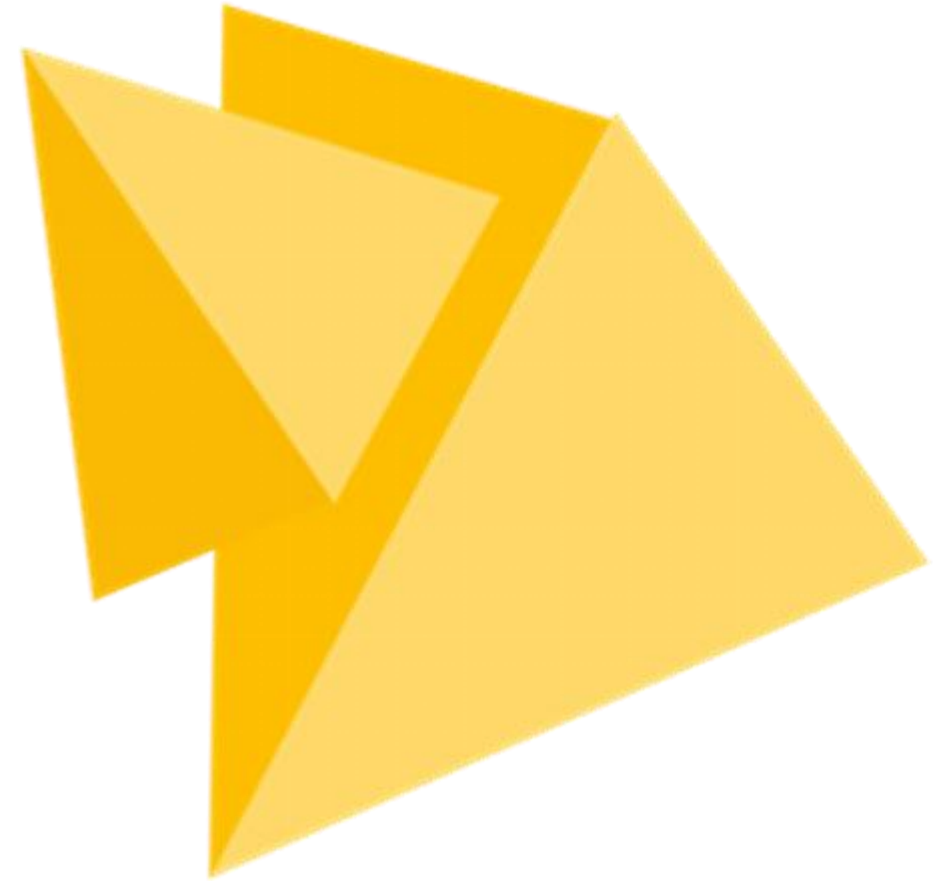
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Handheld screwdriver machine





General Introduction

This equipment is specially designed to replace the complicated picking screw manually. Worker only need to put the qualified screws into the screw feeder and the screws will be conveyed in sequence after the equipment connected with the electricity and air pressure. It can highly improve productivity and reduce labor intensity. The specific features are as below:

- The equipment adopts patented LDC screen control system, humanized screen design for easy operation with password lock function and appearance patent.
- All parts and accessories of the machine adopt international standards to be precise, stable with low noise.
- Easy operation, workers can quickly know how to operate the machine within 10 minutes, which highly improve the productivity and reduce the labor intensity.
- Machine runs smoothly with low noise and no screw stuck issue except for unqualified screws are used. To some extend, it can check the impurities.
- The screw is blown to the screwdriver clamping head by compressed air. The speed to convey the screw is quick to be 0.5S/screw without stuck and upside-down screws. It runs stably and work continuously.
- No need to pick the screw manually can avoid the potential damage of the screws cause by hand touch the screw surface.
- It has the alarm and screw counting function for convenient use. The alarm will be lighten and sound an alarm when there is abnormal situation of material shortage or material jam.
- Applicable for deep hole locking even up to 60mm depth.



Cautions before Start-up

- 1、 Make sure the surrounding working environment is normal. (refers to the working environment description)
- 2、 Make sure there are enough screws in the screw feeder (Screw quantity should be more than 50pcs and lower than the height of guide rail).
- 3、 Connect air source and power supply
 - 3.1 The air tube of the cylinder of screwdriver need connect to the screw feeder correctly with the same color. (No air leakage)
 - 3.2 Connect air tube to pressure regulating filter of the screw feeder and factory air source. Open the air source controller to adjust the pressure. (Normal working pressure 0.5~0.7MPa)
 - 3.3 Connect the screwdriver to the screw feeder.
 - 3.4 Insert the screw delivery tube to the bottom of the connector of the machine body.
 - 3.5 The power cord connect to the screw feeder and factory power supply. Turn on the power switch, the working voltage is AC220V/50HZ.
- 4、 Adjusting the torque ring on the screwdriver to gain the suitable torque for the product.
- 5、 Turn on power, let the machine work automatically first. If there is screw in the clamping head, it can lock the screw normally. If no screw, please press the screw convey button to convey the screw.
- 6、 The next screw will be conveyed automatically only when the first screw is locked correctly with torque signal received . If the product has a slippery or sweeping head screw during the locking, the device can not receive the torque signal that the next screw cannot convey automatically. At this time, the screw can be conveyed automatically by manually press the screw convey button or press the forward button of screwdriver twice quickly and directly (touch twice within 1 second).

Note: Forbidden to insert or pull out the screwdriver connect cable when power is on , otherwise it will destroy the control board.



Screw Application

Screw size: M2.0 ~ M5.0

Screw specification: Screw length including the screw cap (L) divide the diameter of screw cap (D) should be bigger than 1.3. That is $L/D > 1.3$.

Screw type: flat, cross, triangle, plum blossom, hexagon socket, H head, etc.

Screw surface processing: nickel-plated, burned black, color zinc plated, white zinc plated, copper plated, etc.

Screw material: Iron, copper, stainless steel, etc.

Applicable product material: plastic, metal, aluminum, etc

Remarks: Different screws need use with corresponding accessories.

Product warranty and consumables list:

1. The warranty is 6 months for normal use. (Except for consumables and man-made damage)
2. The consumables mainly include: screwdriver bit and clamping head (the factory warranty is 3 months).

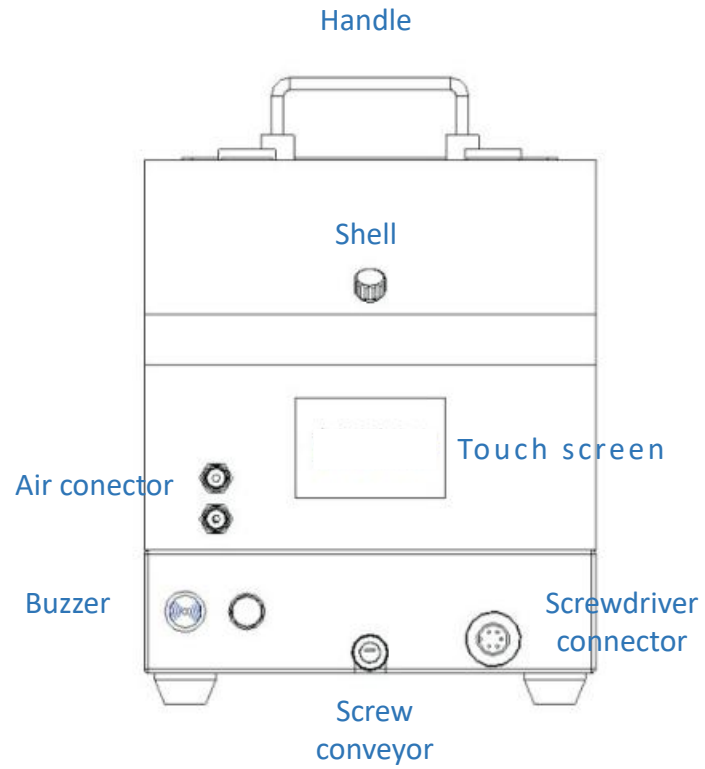


Technical Parameters

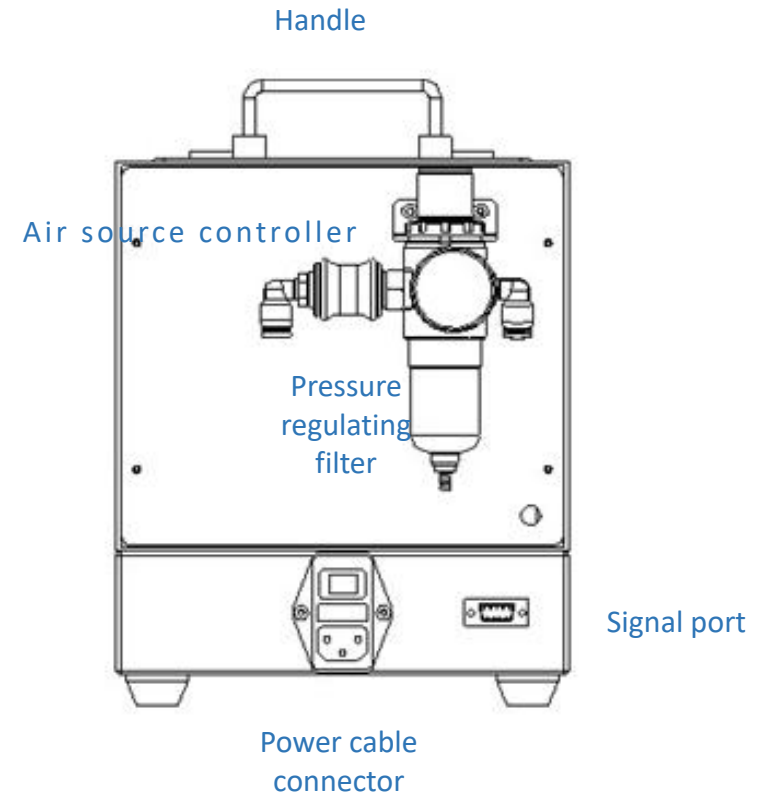
Technical Parameters		
1	Screw Delivery Method	Blowing type
2	Voltage	220VAC/50-60HZ
3	Air Source	0.5-0.7Mpa
4	Dimension	420*220*280 (L*W*H Unit:mm)
5	Weight	13.5KG
6	Power	300W
7	Working Efficiency	1.0s/screw
8	Feeder Capacity	M3 screws -2000pcs
9	Conveying Distance	1.5m standard
10	Accessories	3pcs screwdriver bit, 1pc screw suction pen, 3m air tube, 1m power cable, 1pc Elastic bolt, 1 user manual



Appearance



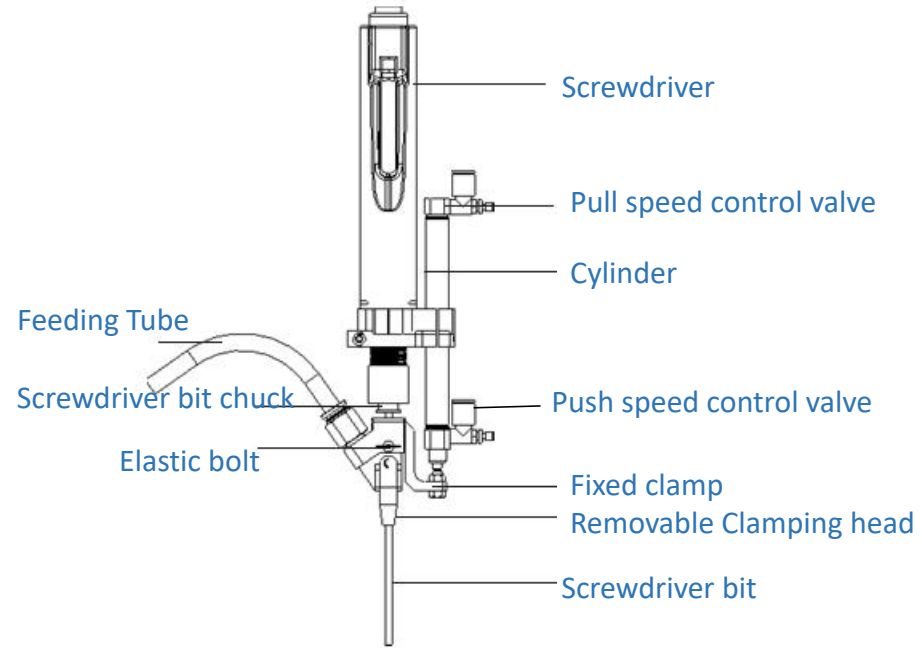
Front View



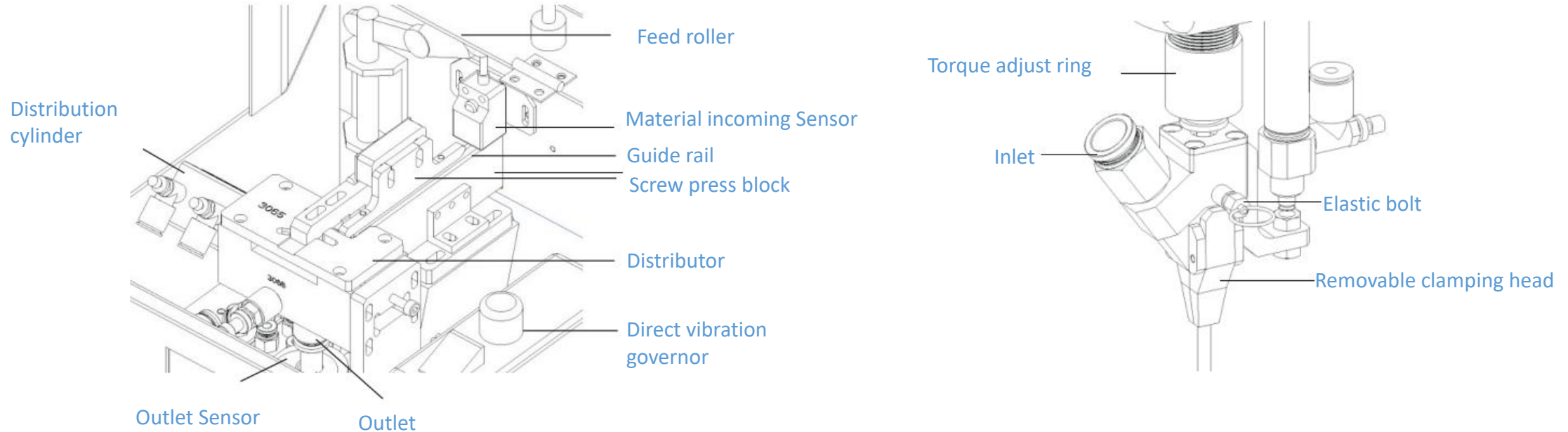
Back View



Appearance



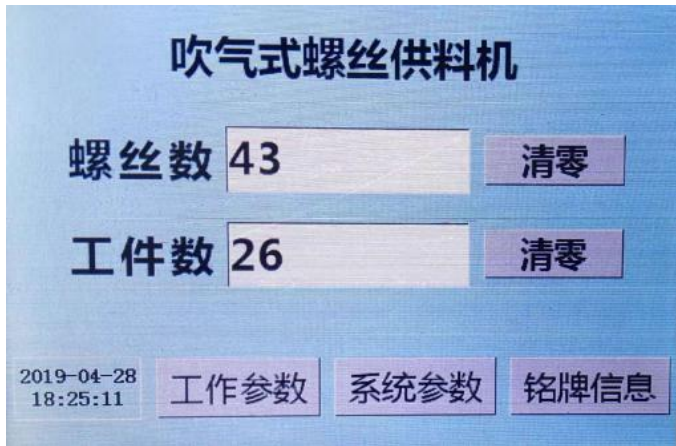
Structure



1. When there are screws under the incoming sensor, the height of the incoming sensor from the top surface of the screw is about 1mm.
2. The height of the screw press block from the top surface of the screw on the guide rail is about 0.5mm.
3. The screw press block needs to press half of the screw at the material receiving port of the distributor.
4. When the distributor takes the screw, the receiving port is aligned with the guide rail.
5. When the distributor divides the screw, the conveying port is aligned with the outlet.



Interface Description



Homepage

系统参数

Press this button to the setting interface

设置

Locked screw qty for one product

清零

Data clear

螺丝数 43 清零

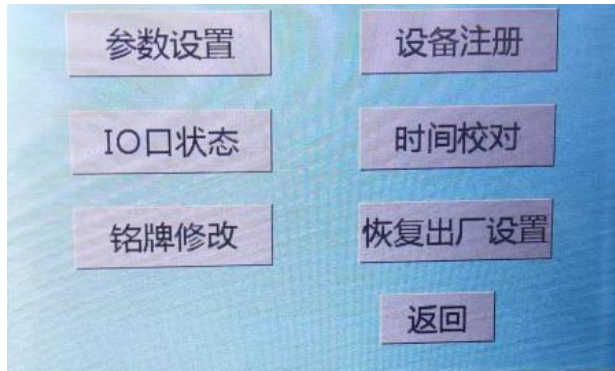
The left shows the number of screws to be locked and the right shows the number of screws can be cleared.

工件数 26 清零

Displays the number of workpieces. (That are automatically calculated according to the number of screws of the product multiplied by the number of screws per workpiece. The setting is equal to the total number of workpiece screws.)



Interface Description



Setting interface

IO口状态

Click to the IO setting interface

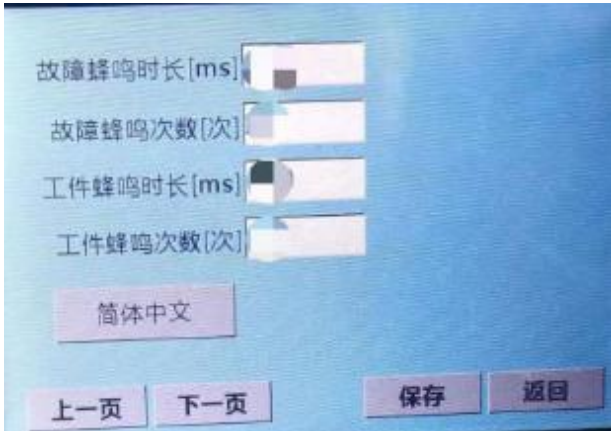
恢复出厂设置

Click to recover the factory setting

返回

Click to return to the previous interface

Interface Description



Alarm setting interface

故障蜂鸣时长

Click to set the buzzer duration when a fault occurs

故障蜂鸣次数

Click to set the number of times the buzzer beeps when a fault occurs

工件蜂鸣时长

Click to set the buzzer duration after the workpiece is completed

工件蜂鸣次数

Click to set the number of times the buzzer beeps after the workpiece is completed

保存

Click to save setting data

返回

Click to return to the previous interface



Interface Description



IO Setting Interface

O2: Low/high screwdriver start

O3: Low/High Blowing electromagnetic valve control

O4: low/high High electromagnetic valve cylinder control O5: low/high warning light buzzer control

O9: Low/High Roller motor control

O10: Low//High Direct vibration controller works

O12: low/high hand-held push-pull cylinder control

O13: low/high broom motor control

O11: Low/High Hand-held pull-out cylinder control

I1: High/Low Corresponding to the green button on the machine panel (feeding signal)

I2: High/Low Torque signal of screwdriver

I3: High / Low Unloading induction

I4: High / Low Incoming induction

I5: high/low double-click feeding



Return to the previous interface



Exceptional Handling

1. The feeder has no electricity:
 - a. The power switch is broken
 - b. The power cord is not plugged in tightly.
 - c. The power supply is broken.
 - d. The fuse is broken.
2. Screw stuck in the guide rail:
 - 2.1. There are abnormal screws or impurities, just remove them.
 - 2.2. The screw is stuck in the door of the warehouse. Clean the screw and observe whether the brush can sweep down the horizontal screw. If not, please adjust the brush to lower position.
3. There is no response to touch on the screen, just turn off the power switch and restart.
4. The feeder keeps alarming without conveying screw: Observe the air pressure gauge to see if there is air input.
5. The distributor screw cannot be pushed through: unplug the air source to see if there is any foreign matter blocked in the feed opening.
6. The distributor keeps pushing down the screws. After several times, the feeder alarms: the metal switch of the feeder is damaged, please contact the after-sales service to replace it in time.
7. When there are screws under the incoming metal sensor of the warehouse door, the metal sensor does not light up:
 - 7.1 Adjust the height of the metal sensor to a suitable position.
 - 7.2 The metal switch is damaged and needs to be replaced.
8. When the incoming metal sensor does not light up and there are no screws underneath, the drum motor does not rotate: The drum motor is damaged and needs to be replaced.
9. Handling the abnormality of the screw in the clamping head: Turn the air source controller to cut off the air source. Pull the elastic bolt out, then take out the clamping head, remove the screws inside, and then plug it in again.
10. Abnormal handling of material rail jam screws: just open the screw pressing block and remove the abnormal screws.
11. Treatment of abnormal material jam of the distributor: Turn the air source controller to cut off the air source. Push the distributor slider to the far left on the side, and then use a magnetic bit to absorb the abnormal screws.

For more exception handling methods, please see the related videos.



Warning

Non-professionals, please do not dismantle or modify the internal components without authorization to avoid personal injury. Our company does not take any responsibility.

- Before use, please read the instructions and operations in this user manual in detail!
- Before connecting the power plug of the machine to the power outlet, please make sure that the power supply specification of this equipment conforms to the applicable local voltage and the power supply is in the grounding state, so as to avoid permanent damage to the equipment or electric shock hazard.
- Do not let any heavy objects on the power cord. If the power cord is damaged, please turn off the power immediately and replace the power cord.
- Before connecting the equipment to the air source, please confirm that the air source pressure is suitable for the machine, and at the same time confirm whether the relevant pneumatic connectors and air tubes are tightly matched to avoid unnecessary damage.
- When replacing parts, the original factory standard parts should be used, and it is forbidden to change the equipment and related components.
- The installation, operation and maintenance of the machine should be completed by a dedicated person in accordance with the instructions in this manual.

Danger:

- When the machine is running, do not reach out your hands or fingers while the machine is running.
- It is forbidden for non-professionals to disassemble the outer cover for operation.
- It is forbidden to aim the discharge pipe at people or other easily damaged objects during use or maintenance to prevent the occurrence of safety accidents caused by screw ejection.

Working environment:

- Good ventilation and heat dissipation environment.
- Keep away from water droplets, steam, dust, especially oily dust.
- No corrosive, flammable gas or liquid.
- Keep away from electromagnetic interference.
- The operating environment is -10 degrees Celsius to 35 degrees Celsius.

Honor customer

