VECTECH 300

SOLDER-WIRE BREAK & WIND MACHINE

Operation manual

Thank you for purchasing this machine. Please read this manual before operating the unit. Store this manual in a safe, easily accessible place for future reference.

1. Summary

The product gather broken tin and roll tin in an organic whole. By Stepping motor control , speed, diameter, the length of skeleton can be import to memory, have save function, direct call in the next time. In addition, in the transport of tin, saw web punching, and then well aligned twine in empty tip reel. After punching, scaling powder release from the hole in normal soldering process, prevent scaling powder spatter solder, thus prevent many electron component pollute and bad contact.

2. Specifications

Power	50 W
motor	stepping motor
speed	1mm/s~50mm/s
diameter	0.8~1.2（mm）

remark: before order, please confirm diameter of tin, in order to optional corresponding saw web.

3. product feature

- Auto broken tin ,reel tin.
- Parameter stockpile function, be easy to call directly.
- Auto Millipore broken tin , prevent tin explode in soldering process.
- The speed can be adjustable, broken module can change according to the diameter of tin.
- Proximity switch ,prevent tin bypass periphery.

3. take down driven gear（04）and vice driven gear（10）.

driven gear and vice driven gear must be take down at the same time. Hold firmly the driven gear and vice driven gear at the same time, then move upward slowly until remove. If any request, can change corresponding vice driven gear（10）。

4. change saw web（06）.

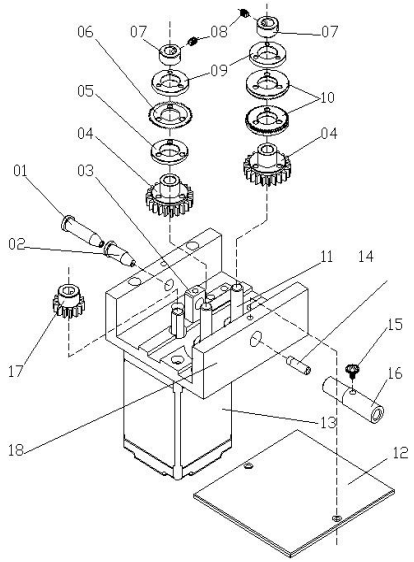
Unscrew allen screw of driven gear（04）using socket head wrench,take down saw web pinch roller （09）and locking hat（07），and then change the suited saw web（06）.

5. assemble driven gear（04）. Assemble opposite direction of disassembly.

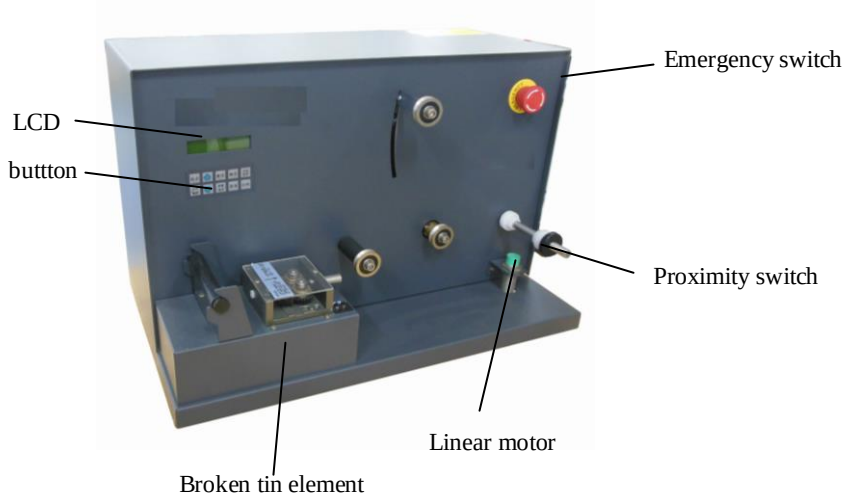
6. the assembly of driven gear（04）and vice driven gear（10）.

driven gear（04）and vice driven gear（10）must be cover in axis at the same time. saw web （06）alignment the notch of vice driven gear（10）,the tooth of driven gear（04）alignment The tooth of driven pulley（17）, then cover in axis smoothly. Put locking hat（07）on the driven gear（04）and vice driven gear（10）in order, then lock it by lock screw（08）.

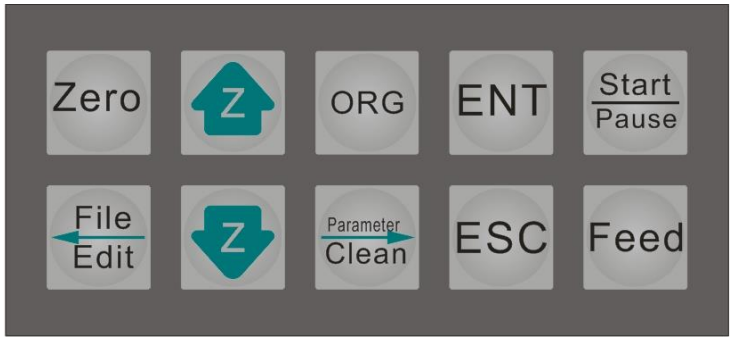
7.Assembly tin pipe assembly（16）.



4. picture



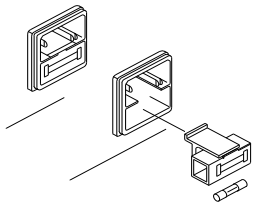
5. key function



key	function
Zero	Setting or examine the initial position
File Edit	File new, edit, delete; cursor move left
Parameter Clean	Shortcut setting parameter; cursor move right
ORG	Linear motor return to mechanical origin
ENT	Affirm parameter, enter the next step
ESC	Cancel operation, return to the last step
Start Pause	Start or lie off work
Feed	Only reel tin not broken
Z Z	Increase/ reduce digital
5 0	Setting speed, the range of the digital:00～99. 00 express the speed is 0,01～50express the speed:1～50mm/s，51～99 express the speed is also 50mm/s.

9. Change the fuse

1. Unplug the power cord from the power receptacle.
2. Remove the broken fuse and then remove the fuse holder.
3. Replace the fuse and then put the fuse holder back in place.



2. Change the cut blade

Different sizes of solder wire require different blades. So replace the suitable blade before replacing the solder wire. Refer to the following steps to disassemble and assemble the parts. Also you can select the unit according to your solder diameter.

Refer to the picture, pull out the tin feeding head (1) backward;
Unscrew lock screw which fixed tin feeding locating sleeve, pull out tin feeding locating sleeve backward, then change corresponding specification tin feeding locating sleeve.

1. Put backward tin outlet conduit.
   Unscrew Round head screw（15），take out tin outlet conduit and tin outlet conduit subassembly. Then unscrew lock screw（08）using 1.5mm socket head wrench which fixed tin feeding conduit （14）, move outward tin conduit location Aluminum parts（16）, move tin cover（14），make it no touch driven gear（04）and saw web（06）。
2. Take down locking hat（07）which fixed driven gear(04）and vice driven gear（10）.
   Unscrew lock screw（08） which fixed locking hat（07）,then take down it.

1. Connect power
   Battery socket insert to power socket .
2. Turn on the power switch
3. Install solder wire
   a) At the baseat the root of the solder wire clipping, pass through the solder wire skeleton, install it to welding stick shelves in machine tail. The rebate of Welding stick axis lock in welding stick frame.

   b) Drag out wire, penetration from entrance, press“Feed”key, penetration slowly .

   c) Across every stick in order, and then wire roll in hollow skeleton, roll one circle . the hollow skeleton install in the last stick, the machine origin of linear motor flush with the wire.

8、operation instruction

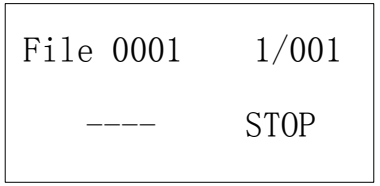
1. press“Start Pause”key，start work.

2. Modify reel speed : modify not affect in the process, firstly press“Start Pause”key, modify the value of dial switch, and then press“Start Pause”. The range of the speed is: 1～50mm/s 。

3. In process：press“Start Pause”key, suspend , press “Start Pause”key again, thus continue; if appear accident in working process, can press“emergency ”switch, then outage immediately. Unscrew “emergency”switch, linear motor automatic reset after machine electrify (return to mechanical origin), press “Start Pause”continue the last process.

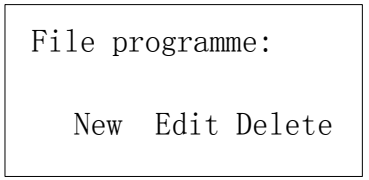
6. parameter setting

1、 File edit: open power switch, LCD display main interface, as picture1:



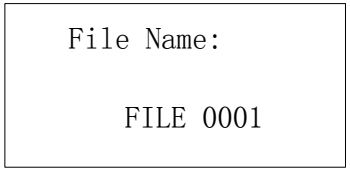
Picture 1

press“File Edit”key, enter file edit interface, as picture 2:



Picture 2

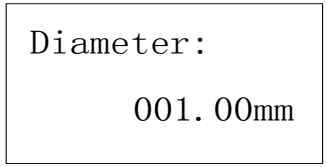
1） New file: press “File Edit” or “Parameter Clean” key adjust cursor position to “NEW” flash, press“ENT”key, enter new file name interface(by file name can find edit file convenient), as picture 3.



Picture 3

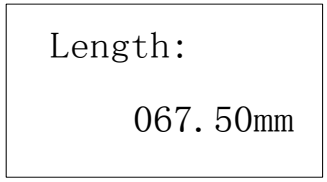
file name make up from eight character, may be English letters and digitals, the new file name can not the same as the existing file name, press“File Edit” or

“Parameter Clean”key adjustable, press“Z”or“Z”key change digital, after input file name, press“ENT”key，enter setting diameter interface, as picture 4.



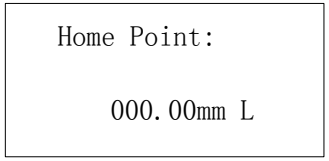
Picture 4

After input diameter, press“ENT” key enter setting length interface, as picture 5.



Picture 5

After input the length ,press“ENT”key, enter setting linear motor initial location , as picture 6.



Picture 6

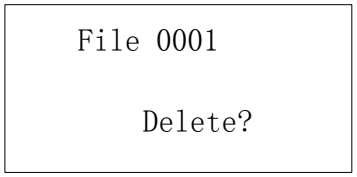
Input origin setting, default origin setting start from 0, mean: the start location of tin the same as the mechanical origin of linear motor.

After setting the parameter, press“ENT”key, look over the setting parameter,

press “ESC”key, return to picture2 interface.

2）edit file: press“File Edit” or “Parameter Clean” key adjust cursor to “Edit”flash,press“ENT”key，enter file edit interface. Setting method as the mention setting method.

3）Delete file: press“File Edit” or“Parameter Clean”key adjust cursor to “Delete”flicker, press“ENT”key, enter file delete interface, as picture 7:



Picture 7

press“ENT”key，delete this file, press“ESC”key return.

2、Parameter setting: in the main interface of picture 1,press“Parameter Clean”key, enter parameter setting interface, can setting diameter and length of current file. The setting method the same as the above.

7. Installation

⚠***notice:***

- Make sure the voltage of power supply is accordance with the voltage indicated on the nameplate behind. And make sure the specification of the solder wire match the blade. For example: the 0.6mm blade can only be used to cut theφ0.6mm solder wire.