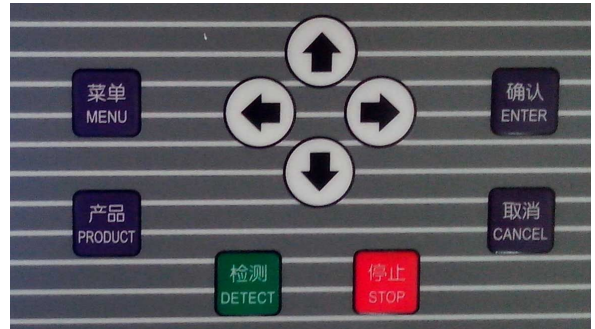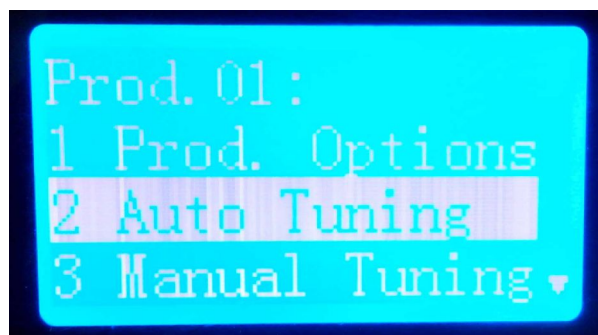# Manual operation step by step

After you powered on the machine, you will see the picture below:

Picture 1

If you want to use "02" product, you just need to press "PRODUCT"

and select "02"(03, 04 ...12 also operate as above)

Step 1: Put the normal product on the conveyor belt, press "Menu" to enter menu display below:

Step 2: Choose "2 Auto Tuning" and Press "ENTER" to realise auto setting function. Please carry the product from the end of conveyor and then put it on the front of conveyor when auto tuning.After auto tuning finished, press "ENTER" button and then the display will be back to Picture 1.

Normally the product can be detected after auto tuning if the product effect is low.

*Press "DETECT" button to proceed detection and you can use different test piece to detect.

*Press"STOP" button, the conveyor belt will stop and detection will stop either.
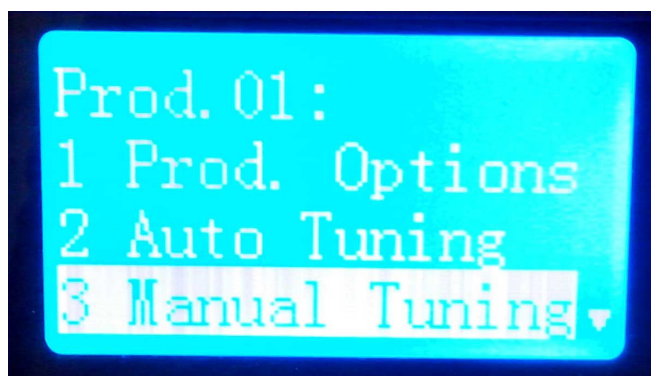
*When the machine detects the metal contaminant, it will alarm and stop and you will see the red and green LED lighten, please see picture below:
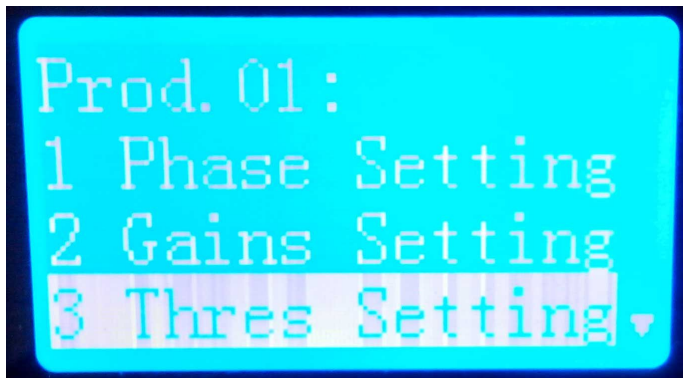

Note: On this condition,please press "DETECT" button, the machine will come to normal detection status. If press "ENETER" button, the LED light will disappear and conveyor belt still doesn't move. If you press other buttons, there will be no action.
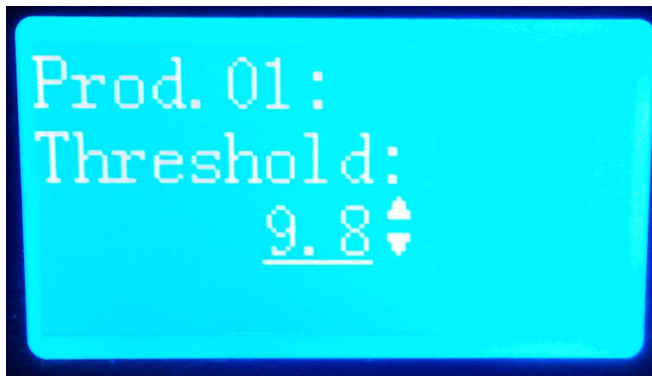
If you are not satisfied with sensitivity and stability of the machine after auto tuning, you can proceed step 3 to realise manual tuning.

Step3: Press "Manu" button and Choose "3 Manual Tuning" and enter in to realize manual setting function, please check image below:

Step 4: Press "3 Thres Setting" and it will enter thres setting value adjustment below:
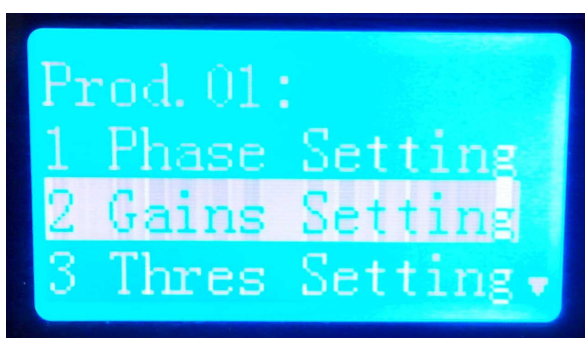

Note: The bigger the value, the lower the sensitvity. The smaller the value, the higher the sensitivity.

Note: Use test piece to test on the status of "Manual Tuning", when metal detected ,the red LED lights on the display will lighten, machine will not alarm and belt will not stop

After setting, press "ENTER" and then back to main display.

Set the parameters of "Gains Setting" as below image:

Enter into "Gains" display

The bigger value the higher sensitivity, the smaller value the lower sensitivity. After setting, Enter and then back to main display.
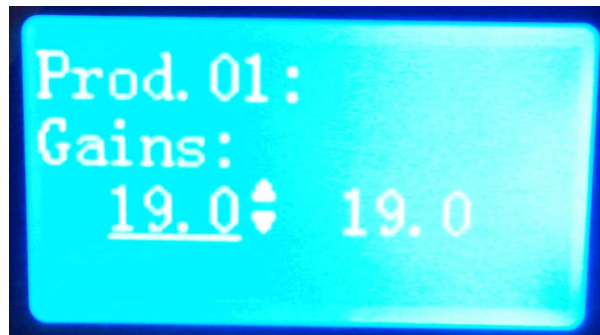
Note: Use test piece to test on the status of "Manual Tuning", when metal detected, the red LED lights on the display will lighten, machine will not alarm and belt will not stop

Note: When you manually adjust the sensitivity, we recommend you to adjust "Threshold" firstly, normally "Gains" and "Phase" are not needed to be adjusted.

The relationship between sensitivity and stability：
The higher sensitivity the lower stability, the lower sensitivity the higher stability.

Operating language Settings
Press "Menu" to enter menu, Choose "7 语言" and Press "ENTER".
Choose "English" and Press "ENTER".