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FILLING THE GAP



INTRODUCING

Phil™ 500

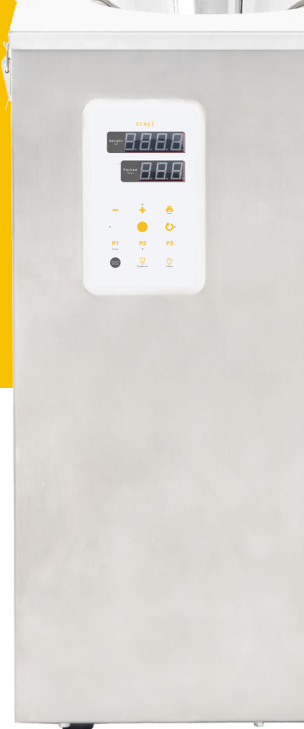
[scayl.co.uk](http://scayl.co.uk)

# Your Machine & Contact Details

Your Machine: Phil™ 500

Your Serial Number:

Your Order Reference Number:



## Our Contact Details:

### Sales:

Phone: +44 (0) 1748 349 112 Opt 1

Email: [sales@scayl.co.uk](mailto:sales@scayl.co.uk)

Address: Scayl Head Office, Upper Floors, 1 Chantry Wynd, Finkle Street,  
Richmond, N Yorkshire, DL10 4QE, United Kingdom

### Aftersales Care:

Please register your warranty here:

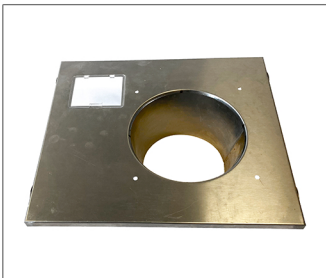
<https://www.scayl.co.uk/pages/solutions-centre>

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# Inside the box



1 x Phil™ Machine



1 x Phil™ 500 Lid



1 x Foot Pedal



1 x 13 Amp Kettle Lead



5 x Allen Key Transit Bolts  
& 1 Square Disc Washer  
(Already attached, need to be removed  
and kept safe)



1x Allen Key



1 x Spanner

# How to assemble your machine

Click [here](#) to follow our Phil™500 Video Setup Guide, or follow the instructions below:

1. Open the box and remove the Phil™500, keep the box and packing contents safe.
2. Remove the lid with the 4 clips attaching it to the machine.
3. Go to the back of the machine and remove the back panel using the 8 screws attaching it to the machine.
4. Remove the 4 transit bolts painted red using the Allen key provided. These are located under the spiral mechanism, holding the spring-loaded plate together.
5. Check under the load cell and remove the Allen Key transitbolt and square disc washer.
6. Visually check the internals to ensure all ports are connected to the computer and the power outlet.
7. Replace the lid, attach using the four clips and power the machine on.
8. You are now ready to calibrate. Go to page 7 for calibration instructions on your machine. \*
9. Once you have calibrated your machine, simply set your weight using the + or – buttons on the control panel.
10. Load your ingredients into the hopper of the machine.
11. Set the gate on the hopper – the larger the weight and/or the pieces of material, the more open the gate should be. The lower the weight and the finer the material, the more the gate should be closed off. This will be a trial and error for your product and weights to get it right.
12. Press The Start/Stop button. The machine should hit the target weight within 3 dispenses. If the machine over-weighs after 3 dispenses, try closing the gate slightly – 1mm adjustments make all the difference to speed and accuracy, vice versa if the machine under-weighs.

\*We highly recommend using our M1 Class Weights, which can be found on our website [HERE](#). Otherwise, using your own product and scales to measure 200g does work, but is not fully accurate.





# Individual Parts

Click on the individual part names for a detailed view

[Internal Hopper](#)

[Spiral vibration plate](#)

[Springs](#)

[Funnel](#)

[Magic Eye](#)

[Gate](#)

[Cam Motor](#)

[Cam Switch](#)

[Load Cell](#)

[Power outlet](#)

[Foot pedal outlet](#)

[Wires & Computer Ports](#)

[Door Motor](#)















[Power Switch](#)

[Back panel](#)

[Electro Magnetic Motor](#)

[Plastic Viewing Window](#)

# Functions

-  Decrease weight (-)
-  Increase weight (+)
-  Reset weight to zero (tare)
-  Reset pack count
-  Enter function menu
-  Confirm menu
-  Program
-  Start/Stop
-  Dispense ingredients
-  Timed machine empty
-  Menu direction
-  Side button turns dispense vibrate on
-  Weight in grams
-  Amount packed



# Sounds

- Long Beep**                      This dispense is slightly over/under specified weight
- Short Beep**                     This dispense is the same as the specified weight
- Prolonged Beep**                Ingredients jammed, or machine has been \*bumped

\* Reset the scales by pressing and holding TARE, when empty.

# Calibration Instructions

The logo for Scayl, featuring the word "scayl" in a lowercase, sans-serif font inside a yellow rectangular box. Below the box, the tagline "filling the gap" is written in a smaller, grey font.

scayl

filling the gap

1. Press "Function" button for 3 seconds – Will display P 000
2. Enter P808 using the arrow buttons and press confirm
3. Enter P550 using the arrow buttons and press confirm
4. Press "▼" button 2 times - Then display F12
5. Press "Confirm" button 1 time - Then display 0000
6. Adjust so machine displays 200.0

Now get 200g product using your own weighing scale. And then put the 200g product into the weighing cell of the machine from the checking window.

7. Press "Confirm" button 1 time - Then display F13
8. Press "Up" button 1 time - Then display F00
9. Press "Confirm" button to quit

The machine should now be calibrated to the correct weight settings and show 200g on the display panel.

# Micro-Computer Algorithm



How does our Micro-Computer's algorithm work?

| 01 | Explanation<br>Allowable Error   | Machine Setting Example<br>000.2 |
|----|--|----------------------------------|
| 02 | Speed Range of Rapid Vibration<br>**AA should be bigger than BB**, for example 20 33   | 2033<br>AABB                     |
| 03 | Speed of Rapid vibration,<br>should be in the range of AA to BB,<br>If "02" is 2033, then it must be from 20 to 33, for example 31.  | 31                               |
| 04 | Rapid lead,<br>for example, set it 003.5, it means if you want to fill 250g,<br>when it reaches 246.5g, vibration speed slows to 08 setting  | 003.5                            |
| 05 | Rapid filling speed – 6g/s   | 6.0                              |
| 06 | Rapid vibration time<br>E.g., 14, when the weighing cell cannot detect the weight<br>change, and when it cost 14 seconds, machine will stop.   | 14                               |
| 07 | Speed range of slow vibration, like setting "02", computer<br>enters second stage of the algorithm.  | 0014<br>AABB                     |
| 08 | Speed of slow vibration, like "03", speed at which vibration<br>slows to, once setting 04 target has been reached.   | 12                               |
| 09 | Slow lead,<br>for example, 000.3, if you want to fill 250g, when it reaches<br>249.7g, machine will begin inch filling – setting 13.   | 000.3                            |
| 10 | Slow filling speed,<br>for example, 3.0, it means 3g/s in theory.  | 3.0                              |
| 11 | Slow vibration time, like "06"   | 17                               |
| 12 | Avoid impact time,<br>ABCD, (T*0.2s)<br>A: time to zero the weight after closing the gate door<br>B: time to record bag count<br>C: delay time of signal sent from foot pedal to open the door<br>D: time taken to close the gate door after releasing product | 2112<br>ABCD                     |
| 13 | Times of inching,<br>there is still some weight left to fill after slow vibration - 08,<br>it begins inching mode, 5 means five times, max 9 times.  | 5                                |



# Your Machine Settings

| Model - Phil™ 500 | P1    | P2    | P3    |
|-------------------|-------|-------|-------|
| S01               | 000.2 | 000.2 | 000.2 |
| S02               | 1830  | 2033  | 2234  |
| S03               | 29    | 32    | 33    |
| S04               | 002.1 | 002.4 | 003.5 |
| S05               | 5.0   | 6.0   | 6.0   |
| S06               | 14    | 14    | 24    |
| S07               | 0014  | 0014  | 1118  |
| S08               | 12    | 12    | 16    |
| S09               | 000.3 | 000.3 | 000.3 |
| S10               | 3.0   | 3.0   | 4.0   |
| S11               | 17    | 17    | 27    |
| S12               | 2112  | 2112  | 2112  |
| S13               | 5     | 5     | 5     |

# Looking after your machine

We recommend you use a 200g M1 Class weight to check the load cell each morning/before using the machine, to ensure the machine is correctly calibrated. This can be done by inserting the weight into the internal hopper.

If the machine is showing a slight deviation, please refer to page 7 in the manual on how to calibrate the load cell.

## **Cleaning:**

We recommend using a brush/vacuum and an anti-bac wipe/spray to decontaminate and avoid any cross-contamination between products.

Please note, only the food path will need to be cleaned at this point for speed and ease of changeover.

Depending on your current process, you can give the machine a thorough clean down at the end of the day or at the end of the week depending on usage.

Power off the machine and unplug from the mains. Remove the back panel using the 6 screws attaching it to the machine. This will give you access to the internals of the machine to be able to clean inside. You can use compressed air, a vacuum and a brush are the most effective and efficient ways of cleaning the machine.

Pay particular attention to the wires and the computer ports, ensuring you vacuum any dust particles on a regular basis to avoid a build-up of dirt and avoid causing damage to the machine.

Check beneath the load cell and regularly clear any material as this will affect the weighing and dispensing of your machine.

## **Servicing**

The service frequency your machine requires will depend on usage.

Please contact us for a consultation on the best way to service your machine.





# General FAQ's

**Q: My machine has arrived, but it will not power on.**

**A: PLEASE ENSURE THE MACHINE IS SWITCHED OFF AND UNPLUGGED BEFORE TOUCHING ANY OF THE INTERNAL WIRES.** Please check the power cables have not come loose in transit – check behind the control panel and the connections behind the power port.

**Q: My machine has arrived; it powers on but there is no vibration, and the weights are not being recorded.**

**A: Have you removed the 5 transit bolts from the INSIDE of the machine?** This includes the bolt and square washer under the load cell. Have you checked the bottom green port behind the computer is connected correctly to the computer and has not come loose in transit?

**Q: My magic eye is not working.**

**A: We disconnect the magic eye to give you full control over the dispense.** If you wish to use the magic eye, you can remove the tape over the sensor under the funnel at the front.

**Q: My machine is not weighing at all/Correctly.**

**A: Have you removed the 5 transit bolts from the INSIDE of the machine?** This includes the bolt and square washer under the load cell. Have you calibrated the machine? Calibration instructions can be found on page 7. Finally, is the machine clean and free from dirt? If there is a build-up of residue under the load cell, this can affect the functionality. Remove the back panel using the 8 screws, then clean with a brush/vacuum.

**Q: My machine will not dispense correctly/there is some product left in the internal hopper.**

**A: Have you pushed in the green button on the side of the machine?** This gives the machine an extra vibration when dispensing. If product is still left over, we need to program the gate to stay open longer – setting 12D increases/decreases time the door needs to stay open. Please always check with us before adjusting any settings.

**Q: My foot pedal does not work.**

**A: It could be that the wiring loom has come loose - please check the port connecting the computer to the wiring loom.** If this is intact, the foot pedal may need replacing. If a second foot pedal still does not work, we would need to replace the wiring loom.

**Q: The machine is not hitting the correct target weight**

**A: Check the position of the gate on the external hopper – if this is left all the way open, this can cause the machine to over-weigh.** Have you got the machines set to the right setting, i.e. P1/P2/P3? The settings may need to be adjusted according to the product you are using. It could be the vibration needs to be gentler/stronger, the slow down target weight needs to be adjusted. Please always check with us before adjusting any settings.

**Q: I am trying to weigh 500g, but the product is falling into the body of the machine**

**A: The Phil500 maximum capacity is 500g, but for some products you will fit less in due to the volumetric capacity.** 500g of loose-leaf tea would take a lot more space than 500g of rice. It may be that you would need to do 2 x 250g dispenses, or upgrade to a different machine.

**Q: The internal spiral mechanism is not in line with the internal hopper/moves when the vibration is turned on.**

**A: Undo the Allen key bolt on the top of the spiral mechanism to correct the position it.** If it is too loose, then when the machine is in operation it will move. Sometimes this can come loose in transit.

# Setting up your machine



Click Image to play video



# Solutions Centre

[CLICK HERE](#) for our solutions centre

[CLICK HERE](#) for information about warranty, increased warranty and annual service recommendations

[CLICK HERE](#) to enquire about new machines

## **OUR SOCIAL MEDIA CHANNELS:**

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**Instagram:** [https://www.instagram.com/scayl\\_uk/](https://www.instagram.com/scayl_uk/)

**Website:** <https://www.scayl.co.uk>

**WhatsApp:** 01748 349 112