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FILLING THE GAP

INTRODUCING

Phil™ 2500

scayl.co.uk

Your Machine & Contact Details

Your Machine: Phil™ 2500

Your Serial Number:

Your Order Reference Number:

Our Contact Details:

Sales:

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

Email: 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>



Inside the box

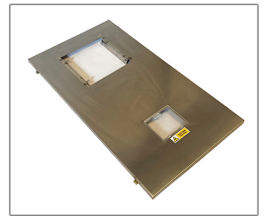
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1 x Phil™ Machine



1 x Phil™ 2500 Hopper



1 x Phil™ 2500 Lid



4 x 10mm
M5 Button Screws



1 x Foot Pedal



1 x 13 Amp Kettle Lead



2 x Allen Key Transit Bolts
& 2 Hex Transit Bolts
(Already attached, need to be removed
and kept safe)



1 x Trolley Stand



1 x Allen Key



1 x Spanner



1 x Plastic Viewing
Window

How to assemble your machine

Click [here](#) to follow our Phil™ 2500 Video Setup Guide, or follow the instructions below:

1. Open the box by slicing the Sellotape - take the Phil2500 box and place UPSIDE DOWN on a smooth surface – e.g. carpeted, ensuring the flaps are on the outside of the box.

2. Remove the box from the machine by lifting upwards carefully.

3. Take the funnel from the square box that's inside the trolley stand box and attach to the machine, ensuring the lip of the funnel is on the outside of the machine.

4. Take the trolley and place on the base of the machine and attach using the 4 clips.

5. You can now move the machine into the upright position using the trolley stand.

6. Remove the 4 transit bolts painted red using the Spanner & Allen key provided, located under the machine.

7. Attach the lid to the hopper using the 4 M5 Button screws, ensuring the gate on the hopper is facing towards the plastic viewing window.

8. Visually check the internals to ensure all ports are connected to the computer and the power outlet.

9. Attach the lid to the machine with the plastic viewing window closest to the front of the machine, secure using the 4 clips.

10. You are now ready to calibrate. Go to page 7 for calibration instructions on your machine. *

11. Once you have calibrated your machine, simply set your weight using the + or – buttons on the control panel.

12. Load your ingredients into the hopper of the machine.

13. 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.

14. 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.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](#)

[Linear vibration plate](#)

[Springs](#)

[External/Holding Hopper](#)

[Funnel](#)

[Gate](#)

[Cam Motor](#)

[Cam Switch](#)

[Load Cell](#)

[Power outlet](#)

[Foot pedal outlet](#)

[Wires & Computer Ports](#)

[Door Motor](#)

[Door Motor Arm](#)

[Grub Screw for Door motor](#)















[Power Switch](#)

[Plastic Viewing Window](#)

[Back Panel](#)

[Electromagnet](#)

Functions

-  Decrease weight (-)
-  Increase weight (+)
-  Tare 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

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.

The logo for Scayl, featuring the word "scayl" in a lowercase, sans-serif font. The letters "s", "c", and "y" are white, while "a" and "l" are black. The logo is set against a dark grey rectangular background. Below the main text, there is a smaller line of text that reads "Precision Weighing".

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Precision Weighing

Micro-Computer Algorithm



How does our Micro-Computer's algorithm work?

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

Your Machine Settings

Model - Phil™ 2500	P1	P2	P3
S01	0002	0002	0002
S02	0620	1224	1628
S03	19	23	27
S04	0020	0065	0150
S05	5.0	6.0	6.0
S06	14	14	24
S07	0014	0316	0918
S08	12	15	17
S09	0003	0007	0020
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 4 transit bolts from the bottom of the machine? 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 machine is not weighing at all/correctly.

A: Have you removed the 4 transit bolts from the bottom 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 5 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: Is the hopper set up correctly, i.e., the gate facing forward? 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 2500g, but the product is falling into the body of the machine

A: The Phil2500/5000 maximum capacity is 2.5kg respectively, but for some products you will fit less in due to the volumetric capacity. 2500g of loose-leaf tea would take a lot more space than 2500g of rice. It may be that you would need to do 2 x 1.25kg dispenses, or upgrade to a different machine.

Q: My gate will not open/close properly, product is falling through the funnel

A: When you attach the funnel to the machine is the lip of the funnel on the outer body of the machine, rather than inside the weighing compartment? There is a small Allen key grub screw that is located on the door motor, ensure this is tightened and the arm of the motor is positioned correctly to the gate.

Setting up your machine



Click the image to play the 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:

Facebook: <https://www.facebook.com/Scayl.co.uk>

LinkedIn: <https://il.linkedin.com/company/scayl-uk>

Instagram: https://www.instagram.com/scayl_uk/

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

WhatsApp: 01748 349 112