WELCOME

Congratulations! You are now the owner of the world’s first pancake printer. It’s been a long road bringing the PancakeBot from concept to commercial product – from working with PancakeBot Inventor Miguel Valenzuela, to the runaway success of our Kickstarter campaign, to shipping the product that you have before you. We hope you have loads of fun with your printer!

Using the PancakeBot is a learning experience. Unlike a regular printer, there are three variables that will ultimately affect the final result of your pancakes. These include the batter recipe/consistency, the Griddle temperature, and the pressure level of the PancakeBot. As you experiment with different settings, you will find what combination works best for your pancakes.

We have also created a website and forum that enable you to connect with other PancakeBot owners and discuss tips and techniques, watch tutorials, and download designs. Check it out at www.pancakebot.com.

Happy pancake making!
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IMPORTANT SAFEGUARDS

PLEASE READ AND SAVE THIS INSTRUCTION AND CARE MANUAL

When using electrical appliances, basic safety precautions should be followed, including:

- Read all instructions.
- Remove all bags and packaging from appliance before use.
- To prevent risk of electric shock, do not submerge appliance (except for Dispenser Bottle) in water or other liquids.
- Never leave appliance unattended when in use.
- Make sure the appliance is cleaned thoroughly before using.
- This appliance is intended for household use only.
- Do not use outdoors.
- To prevent the risk of fire, electric shock, or personal injury, do not place the cord, plug, or unit in water or other liquids.
- For maintenance other than cleaning, contact PancakeBot Support by email at support@storebound.com.
- Do not place appliance on or near a hot gas burner, hot electric burner, or in a heated oven.
- Do not let the cord touch hot surfaces or hang over the edge of tables or counters.
- Refrain from using attachments that are not recommended by the appliance manufacturer, as this may result in fire, electric shock, or personal injury.
- Do not block ventilation openings on the unit as this may cause the appliance to overheat.
- Improper use of the PancakeBot can result in property damage or even personal injury.
**IMPORTANT SAFEGUARDS**

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they are provided with supervision and instruction concerning use of the appliance by a person responsible for their safety.

- The PancakeBot contains moving parts that can cause injury. Avoid contact with moving parts. Do not place your hands in the way of any moving parts or attempt to stop the motion while in progress with your hands.

- Always be sure to unplug the appliance from outlet prior to assembly, disassembly, cleaning, and storage.

- When using extension cords, make sure the electrical rating of the wire is compatible with the appliance.

- StoreBound shall not accept liability for damages caused by improper use of the appliance.

- This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug will fit in a polarized outlet only one way. If the plug does not completely fit in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not modify the plug in any way.

- Close supervision is necessary when appliance is used by or near children. This appliance can be used by children aged from 8 years and above if they have been given supervision or instruction concerning use of the appliance in a safe way and if they understand the hazards involved. Cleaning and user maintenance shall not be made by children unless they are older than 8 and supervised. Keep the appliance and its cord out of reach of children aged less than 8 years.
IMPORTANT SAFEGUARDS

• Do not operate appliance with a damaged cord or plug or if any of the parts are damaged. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons for examination, repair, or electrical or mechanical adjustment in order to avoid a hazard.

• Any other servicing should be performed by an authorized service representative.

• This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

• Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

• NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
IMPORTANT SAFEGUARDS

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

PLEASE READ AND SAVE THIS INSTRUCTION AND CARE MANUAL
PARTS & FEATURES

1. Dispenser Bottle Fill Cap
2. Air Hose
3. Dispenser Bottle
4. Dispenser Holder
5. Height Adjustment Slots
6. Dispenser Bottle Nozzle & Drip Cap
7. Gantry
8. Main Leg
9. Gantry Cable
10. Cable Connector Lid
11. Cable Connector
12. Power Socket
13. Support Leg
14. Griddle
15. PancakeBot Base
16. Control Panel
   A. Display
   B. Power
   C. Start/Pause
   D. Up
   E. Down
   F. Pressure Dial
17. SD Card Slot
18. USB Port
19. Filter Housing
20. SD Card
HOW TO USE YOUR PANCAKEBOT

SETTING UP

The PancakeBot disassembles for easy storage and consists of 5 main parts:

- PancakeBot Base
- Gantry
- Support Leg
- Dispenser Bottle and Cap
- Griddle

1. Place the PancakeBot on a stable, flat surface.

2. Slide the Support Leg into the slot on the underside of the Gantry, opposite the Main Leg Connectors. The flat surface should be facing outwards.
3. Hold the Gantry upright and align the two Main Leg Connectors with the two holes on the PancakeBot Base Main Leg. Make sure that the Support Leg lines up with the groove on the opposite side of the Main Leg on the PancakeBot Base.

4. Slide the Gantry all the way to the opposite side of the Control Panel.

5. Place the Griddle on the PancakeBot Base. Make sure to place the legs within the stoppers located on the PancakeBot Base. The Probe Socket should be facing the back of PancakeBot (away from the Control Panel).

6. Slide the Dispenser Bottle with Fill Cap attached into the Dispenser. Make sure to align the Dispenser Bottle Spine with the appropriate Height Adjustment Slot (the shortest slot is for standby and the longest slot is for printing).
7. Make sure the Filter is inside the Filter Housing.

8. Connect the Air Hose to the Dispenser Bottle Fill Cap. The other end should be connected to the Filter Housing.

9. Connect the other Air Hose to the Gantry. The Air Hose insertion point on the Gantry is located on the back side of the PancakeBot, just above the Main Leg. The other end of the Air Hose should be connected to the Filter Housing.

10. Lift the Cable Connector Lid and attach the Gantry Cable to the Cable Connector. You may hear a faint click as the tab locks into place.

**NOTE:** To disconnect the Gantry Cable, press on the top of the small tab on the Gantry Cable and then pull upwards.
11. Run the cable flat against the top left of the housing and close the Cable Connector Lid.

12. Insert the Electric Probe into the Griddle and the Power Cable into the back of the PancakeBot. Plug both cables into a power source.
LOADING THE BATTER
For optimal performance, please follow the instructions on pg. 19 on making your batter. To ensure that the batter is clump-free, strain the batter before loading into the Dispenser Bottle. We recommend that you remove the Dispenser Bottle from the PancakeBot before filling so that batter does not leak onto the Griddle.

Watch the “How To” video on www.pancakebot.com to learn step by step.

1. Unscrew the Dispenser Bottle Fill Cap and remove the Dispenser Bottle from the Dispenser Holder. Attach the Drip Cap to the tip of the Dispenser Bottle Nozzle.

2. Fill the Dispenser Bottle with batter. Do not fill past the MAX line. **WARNING:** Do not overfill the Dispenser Bottle or tilt the Dispenser Bottle while it is connected to the Air Hose and the PancakeBot is turned on. If you see pancake batter entering the Air Hose, disconnect the Hose from the Gantry and shut the PancakeBot off immediately. Thoroughly clean and dry the Air Hose before reconnecting.

3. Screw the Dispenser Bottle Fill Cap back onto the Dispenser Bottle and attach the Air Hose.

4. Slide the Bottle into the Dispenser Holder, aligning the Dispenser Bottle Spine with the shortest Height Adjustment Slot. The shortest slot is for standby and holds the batter furthest from the Griddle whereas the longest slot will be used for printing. If you are using a taller griddle, you can use the shortest slot for printing. Do not remove the Drip Cap until you have turned on the PancakeBot.
PRINTING YOUR DESIGNS

There are many variables that will affect the end result of your pancake designs including batter consistency, pressure, cooking temperature, and cooking time. We highly suggest you run some tests and have fun in the process to become acquainted with how these variables work together. Feel free to check out our video tutorials online at www.pancakebot.com for tips and tricks on how to use your PancakeBot.

1. Turn the PancakeBot on by pressing the Power Button on the Control Panel.

2. Before printing your design, make sure the Griddle is turned on and hot. Start by setting your Griddle to the Medium temperature setting. You may need to decrease or increase the temperature depending on the complexity of your design.

3. Lift the Bottle out of the Dispenser Holder, remove the Drip Cap, and return the Bottle to the Holder. The Griddle will be HOT. Be very cautious while removing the Drip Cap so you do not burn yourself on the Griddle.

4. Position the Dispenser Bottle in the print mode (the Dispenser Bottle Spine should be place in the longest Height Adjustment Slot). If you are using a taller griddle, you should use a shorter Height Adjustment Slot depending on the height of your Griddle. For best results, the Nozzle tip should be approximately 15mm away from surface of the Griddle.

5. Save a design on the SD card and insert it into the SD Card Slot (see pg. 20-22) for more instructions on creating and saving designs).

6. Press the START/PAUSE button once to initiate print mode.

7. Use the UP/DOWN buttons to select the file you want to print and press the START/PAUSE button again to confirm your selection.
**Standby Mode:** The PancakeBot will go into Standby mode automatically after being idle for more than 5 minutes (except if you have pressed the PAUSE button). To turn back on, simply press the Power Button on the Control Panel.

**WARNING:** Do not overfill the Dispenser Bottle or tilt the Dispenser Bottle while it is connected to the Air Hose and the PancakeBot is turned on. If you see pancake batter entering the Air Hose, disconnect the Hose from the Gantry and shut the PancakeBot off immediately. Thoroughly clean and dry the Air Hose before reconnecting.
**WHILE PRINTING**

**Adjusting the line thickness using the pressure dial**

The pressure dial can be used to adjust the amount of batter dispensed while printing. The required pressure will vary based on the thickness of the batter being used - the thicker the batter, the more pressure needed. To increase or decrease the pressure, rotate the dial on the control panel. Higher numbers indicate higher pressure within the Dispenser Bottle.

*TIP: Before printing designs, we recommend that you print a test file with straight lines to help you adjust the pressure dial and griddle temperature to suit your batter recipe.

**Adjusting the printing speed.**

The printing speed of the PancakeBot can be adjusted while the machine is in operation by selecting the ⬆️ or ⬇️ arrow. Pressing the ⬆️ button each time will increase the speed by 10% while pressing the ⬇️ button will decrease the speed by 10%.

**NOTE:** Speed adjustment only works with PancakeBot 2.0 or the original PancakeBot with a firmware update.
FLIPPING YOUR PANCAKE
The final results of the pancake are revealed after you flip the Pancake.

1. Wait for the PancakeBot to finish printing and for the Gantry to move back into the starting position. Depending on the temperature of the Griddle, wait about 30 seconds to a minute to allow the lightest shade of the batter to cook through.

2. Use a wide spatula to loosen all sides of the pancake. Then slide the spatula all the way underneath the pancake to flip. If you cannot easily slide your spatula under the pancake, wait a few more seconds for the pancake to cook further.

3. Gently flip your pancake. Be careful when flipping that you do not splatter any uncooked pancake batter across the Griddle.

Note: The different shades on your final pancake are the result of different cooking times on the Griddle. The longer the batter is on the Griddle, the darker the pancake will be. It may take some time to get acquainted with how long to leave your pancake cooking and at what temperature your pancake cooks best.
MAKING YOUR BATTER

You can use a variety of different batter recipes for the PancakeBot. Here are a few tips to keep in mind when making batter:

- The batter MUST be clump free so that it doesn’t clog the nozzle. We recommend running the batter through a fine mesh strainer before pouring it into the Dispenser Bottle.

- For better results, add a little more liquid than is called for in the recipe for a thinner batter.

- You can make recipes from scratch or buy pre-made batter that only requires you to add water.

Here is one of the recipes we tested that worked great for us!

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>DIRECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 cup flour</td>
<td>1. In a medium bowl, sift flour, sugar, baking</td>
</tr>
<tr>
<td>2 tbsp sugar</td>
<td>powder, and salt.</td>
</tr>
<tr>
<td>2 tsp baking powder</td>
<td>2. In a separate bowl, whisk together the egg,</td>
</tr>
<tr>
<td>¼ tsp salt</td>
<td>milk, vanilla extract, and butter.</td>
</tr>
<tr>
<td>1 cup &amp; 1 tbsp milk</td>
<td>3. Combine the wet ingredients with the dry</td>
</tr>
<tr>
<td>1 tsp vanilla extract</td>
<td>and whisk until well incorporated.</td>
</tr>
<tr>
<td>1 egg</td>
<td>4. Strain the batter through a fine mesh strainer.</td>
</tr>
<tr>
<td>2 tbsp melted butter or</td>
<td></td>
</tr>
<tr>
<td>vegetable oil</td>
<td></td>
</tr>
</tbody>
</table>
INSTALLING PANCAKEPAINTER
PancakePainter is a free software tool that will help you design custom pancakes.

To install:
1. Visit www.pancakebot.com and go to the Software page. Select the appropriate version to download (Mac or PC).

2. **FOR MAC**: after downloading the software, simply drag the icon to where you would like it installed and double click it to open.

    **FOR PC**: after downloading the software, double click on the icon and follow installation instructions.

CREATING NEW DESIGNS
For best results, plan out your designs before creating them in the PancakePainter. Here are a few tips:

- It’s best to start with the outlines using the darkest color choice.
- Try to be as continuous as possible with lines. Every new line means the PancakeBot has to stop printing, move to the new location, and start printing again. A continuous line will give you faster, smoother, and more accurate results.
- Use the fill tool last while drawing out your pancakes in PancakePainter.

1. Open PancakePainter. If you would like to draw without a reference image, skip to Step 4.

2. Import an image to use as a guide for your lines by clicking the “Import Image” icon. This feature supports most web based file types like .jpg or .png.

3. Once you import an image, you can scale, move, and rotate it by using the nodes on the corners and in the top-middle of the image.
4. Select the color you would like to draw with (the darker colors will be printed first so that they can cook longer). The darkest colors work best for outlining your image. We recommend drawing and painting all dark areas first and then working towards the lighter colors.

5. Click the “Line” icon which will allow you to draw by two methods:
   - Free hand - Hold the left mouse button down to freely draw with your mouse or trackpad. Releasing the mouse button or trackpad will end the line.
   - Polygon - Click once to create a node*, then move your mouse to the next point and click the mouse button to create another node. Continue to create a series of interconnected lines. Press the ESC button to end the line.

6. If you would like to fill in areas of your pancake, make sure your shapes are closed. When you have finished creating a shape and get back to your starting point, you will see a small green circle over the starting point. Click inside the circle to close your shape.

7. Select the color you would like to use to fill and then click the Fill tool.

8. Move the mouse to the area you would like to fill and click inside the area.

*Note: Nodes are added to every point where a line changes direction. These nodes can be individually moved for precise adjustments. To delete or modify lines, click on the Select tool and then click on the line you would like to delete or modify in order to reveal the nodes. You can click and drag any node to a different position or you can add nodes by clicking on a part of the line that has no node. You can also click on any shape and press the delete key on the keyboard to delete the shape. At this time, you cannot delete just one particular node. However, the software is open source and we are continually working to improve on it. Go to www.pancakebot.com for more information.
SAVING YOUR DESIGNS

There are two ways to save your file.

1. If you wish to save the design to be opened later for editing, select File>Save As (this file can not be printed until it is exported in .gcode format).

2. If you have completed your design and wish to export it, select File>Export For Printing (this file cannot be reopened to edit the design) and save this file to your SD card.

In order for the PancakeBot to read your file, your file name:

1. Cannot start with a number. The file name must begin with letters.

2. Length must not exceed 8 characters.

TRANSFERRING YOUR DESIGNS TO THE PANCAKEBOT

You can save several different designs on an SD Card. Once the design is on an SD card, you can print and reprint a design as often as you’d like.

1. Export your file for printing.

2. Transfer the exported file on to an SD card.

3. Insert the SD card into the SD Card Slot in the PancakeBot

4. Turn on the PancakeBot and use the Control Panel to select the file you would like to print. See pg. 12 for specific instructions on printing.

UPDATING PANCAKEBOT SOFTWARE

The USB Port located next to the SD Card Slot is used for software updates for your PancakeBot. Visit our website at www.pancakebot.com for more information.
CLEANING YOUR PANCAKEBOT
Make sure you clean your PancakeBot after each use.

1. The Dispenser Bottle can be removed for cleaning. To disassemble your Bottle, unscrew the Nozzle from the black ring that is located near the Nozzle. Then unscrew the black ring from the Bottle. Be careful not to lose the silicone seal that rests on the inside of the black ring or the silicone seal in the Dispenser Bottle Fill cap. Use a gentle bottle brush or cloth and mild soap to clean the interior of the Dispenser Bottle and all parts. Wash the Cap and Air Hose with warm, soapy water. Dry thoroughly.

2. There is a tiny hole in the Dispenser Bottle Fill Cap that allows for extra pressure to escape. Make sure that it is not blocked with batter or residue.

3. Make sure the Griddle has cooled down before removing to clean. Wipe down with a sponge and warm, soapy water. Rinse carefully. Do not submerge in water or allow the Probe or Probe Socket to get wet. More detailed cleaning instructions are included with your Griddle.

4. Use a clean, damp cloth to wipe the PancakeBot Base.

5. Open the Filter Housing, remove the Filter, and rinse thoroughly. Let dry completely before re-inserting it back into the Filter Housing.
TROUBLESHOOTING

QUESTIONS:

1. Why is the PancakeBot printing squiggly lines instead of clean, straight lines? This is most likely due to the Dispenser Bottle being too far away from the Griddle or there being too much pressure in the Dispenser Bottle. Here are some suggestions on how to fix this problem.
   • Make sure that while printing, the Dispenser Bottle is in the longest Height Adjustment Slot. The Spine on the Bottle should be inserted in the lowest slot on the Dispenser Bottle Holder.
   • Make sure the tiny hole in the Dispenser Bottle Fill Cap is not blocked. You can use a small needle to check this and unblock it if necessary.
   • If there is still too much pressure, slightly loosen the Dispenser Bottle Fill Cap to allow for some of the extra pressure to be released through the Cap.
   • Decrease pressure by using the Pressure Dial on the Control Panel.

2. Why isn’t the PancakeBot dispensing any batter even though it is moving? There are several reasons why your PancakeBot may not be dispensing batter. We recommend that you:
   • Try increasing the pressure using the Pressure Dial on the Control Panel.
   • Make sure the Nozzle isn’t blocked. Sometimes, leaving batter in the Dispenser Bottle for extended periods of time can cause the batter to dry out from the heat of the Griddle, thus blocking the opening.
   • Make sure to strain your batter before placing it in the Dispenser Bottle.
   • Thin out your batter using some liquid (milk or water).

3. Why do I not see my design on the display when I insert the SD card? Make sure that the exported files are stored in the root directory of the SD card and that the filenames do not start with a number or exceed 8 characters. Also, make sure that your SD card is formatted with FAT32 or else the PanakeBot will not be able to read the data.
4. **My pancakes are burning before the PancakeBot finishes printing.**
   Depending on the complexity and size of the design, you may need to increase or decrease the temperature of the Griddle. Generally, the larger or more complex the design, the lower the temperature should be. The temperature can also be easily adjusted while the PancakeBot is printing if you notice that your pancakes are burning or not cooking fast enough.

5. **My PancakeBot pauses while printing.**
   This is normal. If you created your design with different shades of color, the darkest shade is printed first, followed by a 35 second pause to allow for the cooking (darkening) of the batter before it starts printing the next shade.

6. **The PancakeBot keeps shutting off.**
   The PancakeBot will go into standby mode if you are not actively using it for several minutes. If this happens, simply press the Power Button to turn the PancakeBot back on.
CUSTOMER SUPPORT

For product support, warranty, and maintenance related questions within the U.S.A, please contact us at support@storebound.com or visit our website at www.pancakebot.com.

For support outside of the U.S.A, we are currently working with international partners to provide customer support for all of our customers. In the meantime, please contact your local reseller or distributor for technical issues or visit www.pancakebot.com for tips on using your PancakeBot.

REPAIRS

DANGER! Risk of electric shock! The PancakeBot is an electrical appliance. Do not attempt to repair the appliance yourself under any circumstances.

Contact customer support regarding repairs to the device.

TECHNICAL SPECIFICATIONS

Model PNKB01BK2
Voltage 110-240V ~ 50-60Hz
Power Rating 20W

Stock#: PNKB01BK2_20171212_V1
STOREBOUND, LLC - 6 MONTH LIMITED WARRANTY

Your StoreBound product is warranted to be free from factory defects in material and workmanship upon arrival. Should any defect covered by the terms of the limited warranty be discovered within six (6) months, StoreBound will repair or replace factory parts to correct defects in material and workmanship that existed when this product was purchased or for non-cosmetic defects in materials or workmanship that prevent function of this product if the product is utilized for normal and intended household use. To process a warranty claim, contact customer support at support@storebound.com. A customer support agent will conduct troubleshooting in an attempt to fix any minor problems. If troubleshooting fails to fix the problem, a return authorization will be issued. Proof of purchase indicating date and place of purchase is required and should accompany the return. You must also include your full name, shipping address, and telephone number. We are unable to ship returns to a PO Box. StoreBound will not be responsible for delays or unprocessed claims resulting from a purchaser’s failure to provide any or all of the necessary information. Freight costs must be prepaid by the purchaser.

Send all inquiries to: support@storebound.com
There are no express warranties except as listed above.

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Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts. Therefore, the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.