

Normcore 58mm

Normcore 58mm Concentric Needle Distributor Tool V3 User Manual

Model: 58mm

1. INTRODUCTION

The Normcore 58mm Concentric Needle Distributor Tool V3 is designed to improve espresso extraction by ensuring uniform distribution of coffee grounds in the portafilter basket. This tool helps eliminate clumps and dense pockets, leading to a more consistent puck and reduced channeling during brewing.

Key Features:

- **16-Concentric Needle Design:** Features 16 ultra-fine needles arranged in a fixed circular pattern for even stirring.
- **Clump Elimination:** Effectively breaks up coffee clumps and reduces edge buildup for a level coffee bed.
- **Adjustable Depth Control:** Stepless depth adjustment allows customization of needle penetration for various basket sizes and coffee doses (e.g., 18g, 20g, 22g).
- **Durable Construction:** Crafted from premium stainless steel and anodized aluminum.
- **Magnetic Base:** Includes a magnetic base for convenient storage.
- **Spare Needles:** Comes with 36 replacement 0.25mm needles and a needle installation tool.

2. PACKAGE CONTENTS

- 1 x Normcore Needle Distributor Tool V3
- 36 x Spare Needles (0.25mm)
- 1 x Needle Installation Tool

3. SETUP

The Normcore Concentric Needle Distributor Tool V3 comes pre-assembled with needles installed. If needles need replacement or initial installation, follow these steps:

1. Identify the needle installation tool.
2. Carefully insert a new 0.25mm needle into the designated holes on the distributor head using the installation tool. Ensure the needle is securely seated.
3. Repeat for all desired needle positions.





Figure 3.1: Front view of the Normcore 58mm Concentric Needle Distributor Tool V3, showing the handle, adjustable depth mechanism, and the 16 needles.

4. OPERATING INSTRUCTIONS

Follow these steps for effective coffee ground distribution:

1. **Prepare Portafilter:** Grind your coffee beans directly into your 58mm portafilter basket. Ensure the grounds are evenly settled.
2. **Adjust Depth:** Turn the handle of the distributor tool to adjust the needle penetration depth. The stepless adjustment allows fine-tuning to match your basket size and coffee dose (e.g., 18g, 20g, 22g). The needles should penetrate the coffee bed without touching the bottom of the basket.
3. **Position Tool:** Place the distributor tool onto the portafilter basket, ensuring it sits level on the rim.
4. **Distribute Grounds:** Gently press down on the tool and rotate it clockwise or counter-clockwise. The 16 concentric needles will stir the coffee grounds, breaking up clumps and leveling the bed. Perform several rotations for thorough distribution.
5. **Remove Tool:** Lift the tool straight up from the portafilter. The coffee bed should now appear uniform and level.
6. **Tamp:** Proceed with tamping your coffee grounds as usual.



Figure 4.1: The Normcore distributor tool positioned on a portafilter, demonstrating its use for leveling coffee grounds.



Figure 4.2: A close-up view of coffee grounds in a portafilter basket after being distributed by the tool, showing a smooth and level surface.

5. MAINTENANCE

Cleaning:

- After each use, gently brush off any residual coffee grounds from the needles and the body of the tool.
- For a more thorough cleaning, wipe the tool with a damp cloth. Avoid submerging the entire tool in

water.

- Ensure the needles are dry before storage to prevent corrosion.

Needle Replacement:

If needles become bent, damaged, or dull, they can be replaced using the provided spare needles and installation tool.

1. Carefully remove the damaged needle using tweezers or the installation tool.
2. Insert a new 0.25mm spare needle into the empty slot, ensuring it is fully seated.
3. Dispose of old needles responsibly.

6. TROUBLESHOOTING

• Uneven Distribution / Channeling:

- Ensure the needle depth is correctly set for your dose and basket. Needles should not scrape the bottom.
- Rotate the tool slowly and consistently. Rapid or inconsistent rotation can lead to unevenness.
- Verify that all needles are straight and free from damage. Replace any bent needles.
- Ensure your coffee grind size is appropriate for espresso. Too coarse or too fine can affect distribution and extraction.

• Tool Not Sitting Level:

- Check for any coffee grounds on the rim of the portafilter or the base of the tool that might prevent a level seat.
- Ensure the portafilter basket is clean and free of debris.

7. SPECIFICATIONS

Component	Detail
Materials	304 Stainless Steel, Anodized Aluminum, Brass
Needle Thickness	0.25mm
Needles Included	16 (pre-installed) + 36 spare needles
Item Weight	14.8 ounces (approximately 420 grams)
Package Dimensions	6.73 x 3.39 x 3.31 inches
Model Number	58mm

8. WARRANTY AND SUPPORT

Specific warranty information for the Normcore 58mm Concentric Needle Distributor Tool V3 is not detailed in the provided product data. For warranty claims or technical support, please refer to the official Normcore website or contact your retailer directly.

